THAILAND

HYDROLOGICAL YEARBOOK

WATER YEAR 2016

VOLUME 59



HYDROLOGY DIVISION

OFFICE OF WATER MANAGEMENT AND HYDROLOGY

ROYAL IRRIGATION DEPARTMENT

Thailand

Hydrological Yearbook

Water Year 2016

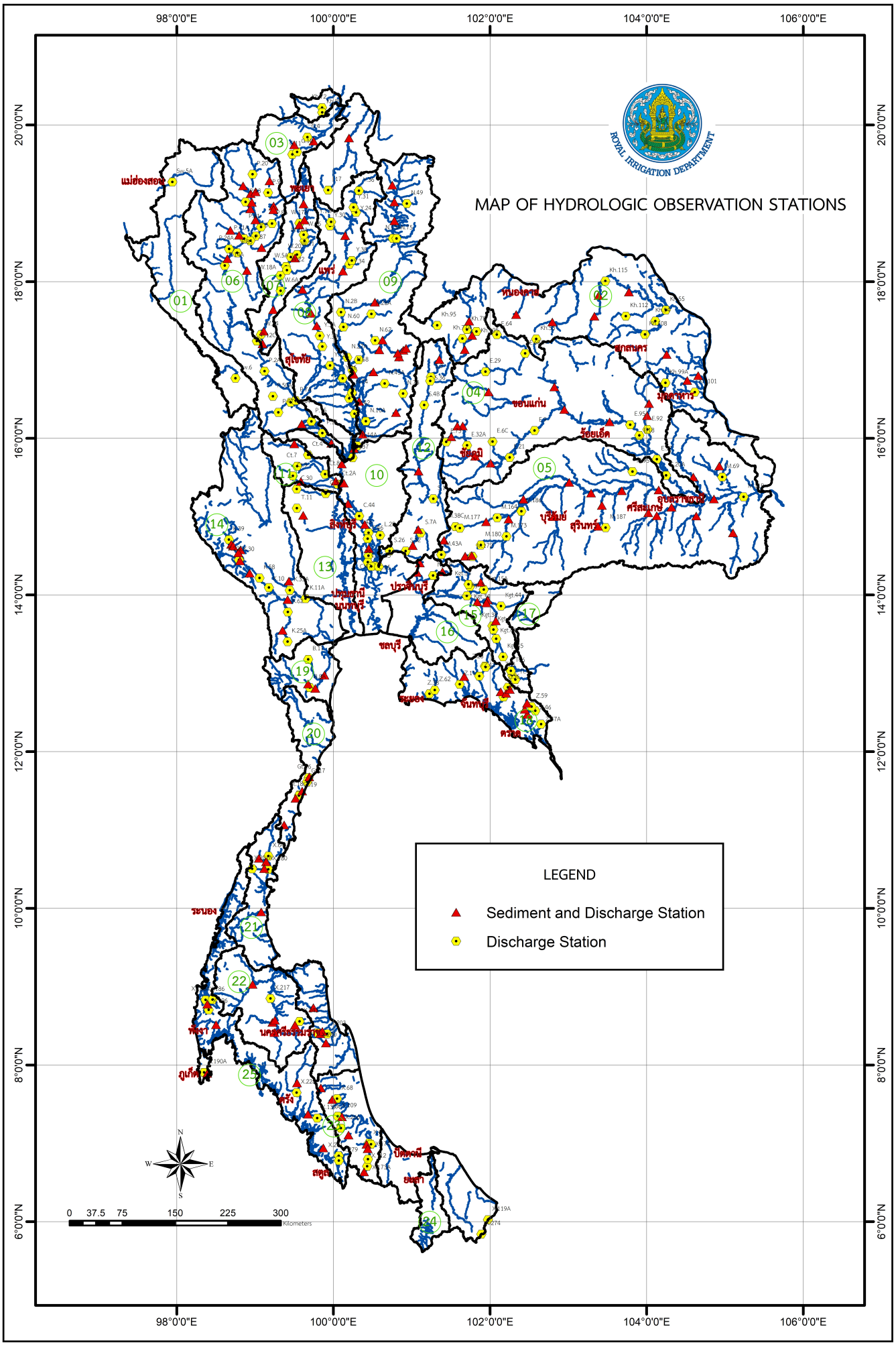
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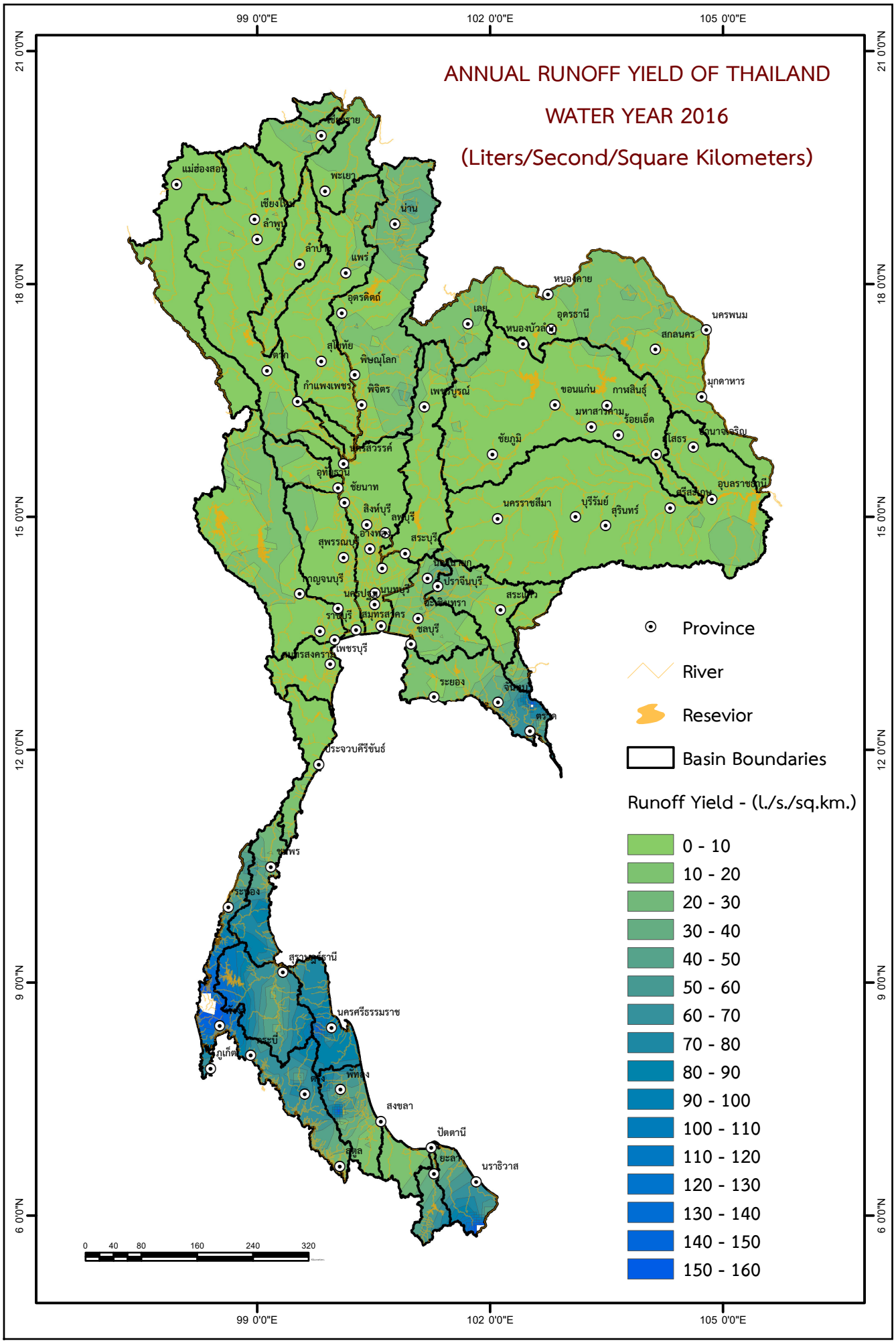
Royal Irrigation Department

Hydrology Division

Office of Water Management and Hydrology

Bangkok


ROYAL IRRIGATION DEPARTMENT
MAP OF HYDROLOGIC OBSERVATION STATIONS
98°0'0"E
100°0'0"E
102°0'0"E
104°0'0"E
106°0'0"E
20°0'0"N
18°0'0"N
16°0'0"N
14°0'0"N
12°0'0"N
10°0'0"N
8°0'0"N
6°0'0"N
LEGEND
Sediment and Discharge Station
Discharge Station
N
S
W
E
0 37.5 75 150 225 300
Kilometers


ANNUAL RUNOFF YIELD OF THAILAND
WATER YEAR 2016
(Liters/Second/Square Kilometers)
99 0'0"E
102 0'0"E
105 0'0"E
21 0'0"N
18 0'0"N
15 0'0"N
12 0'0"N
9 0'0"N
6 0'0"N
Province
River
Resevior
Basin Boundaries
Runoff Yield - (l./s./sq.km.)
0 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
90 - 100
100 - 110
110 - 120
120 - 130
130 - 140
140 - 150
150 - 160
0 40 80 160 240 320

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134	Z.14	Khlong Phayat at Ban Chaman, Chanthaburi	849
135	Z.21	Khlong Hin Dat at Ban Pong Rong Sen, Chanthaburi	850
136	Z.30	Khlong Sato at Ban Nong Bua, Trat	851
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150 X.149 Khlong Klai at Ban Hua Na , Nakhon Si Thammarat 865
151 X.158 Khlong Tha Taphao at Ban Wang Khrok, Chumphon 866
152 X.167 Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat 867
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TAPI RIVER BASIN

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APPENDIX

Flow Duration Curve for Daily Discharge (2007 - 2016)

HYDROLOGICAL YEAR BOOK PUBLICATION

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

Introduction

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

Definition of terms and abbreviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of listing of gauging data

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

Series of yearbook publications

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

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

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

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

STANDARD OF STREAMFLOW DATA PROCUREMENT

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Network design

The location of stream gauging stations is primarily based upon the urgent need at various dam sites which is accessible. By the time of expansion of the network at later date, the area or basin of "blind spot" is put at first priority backing up by the following conditions:

(a) Accessibility.

(b) Geographical location.

(c) Mean annual rainfall.

(d) Vegetation cover determined from Army Map Service topographic map with 1:50,000 or 1:250,000 scale.

(e) Basin soil type.

(f) Type of surface rock.

Field work

The minimum standard of basic hydrologic data for observations and measurements are equal to those recommended in the United Nations ECAFE Flood Control series No.6.

Water stage data are obtained by staff gage and by water stage recorder. Normally a vertical section staff gage is installed for manual observation with usual frequency of reading varies from 1 to 5 times of equal interval during the daytime. At some specific station where stream flow measurement camps are situated, the reading of water stage by night is also made, in addition, usually 1 to 3 times of equal interval. The standard bench mark is also established near the gage site. The 1.00 - m standard enameled staff gage section with 1 cm graduation are used with zero reading, in most cases, referred to Mean Sea Level (M.S.L.) Ko Lak datum, otherwise the assumed datum begin used. Few wire - weight gages are also adopted on highway bridges.

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

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

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

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

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

Office data processing

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

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

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

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

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

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

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

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

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

Review of procedure for stream flow data processing.

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

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

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

b) Discrepancies of recording charts, if any.

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

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

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

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

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

4) Checking stability of rating curve used.

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

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

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

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

Classification of stream flow data

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

Future plan for computerization

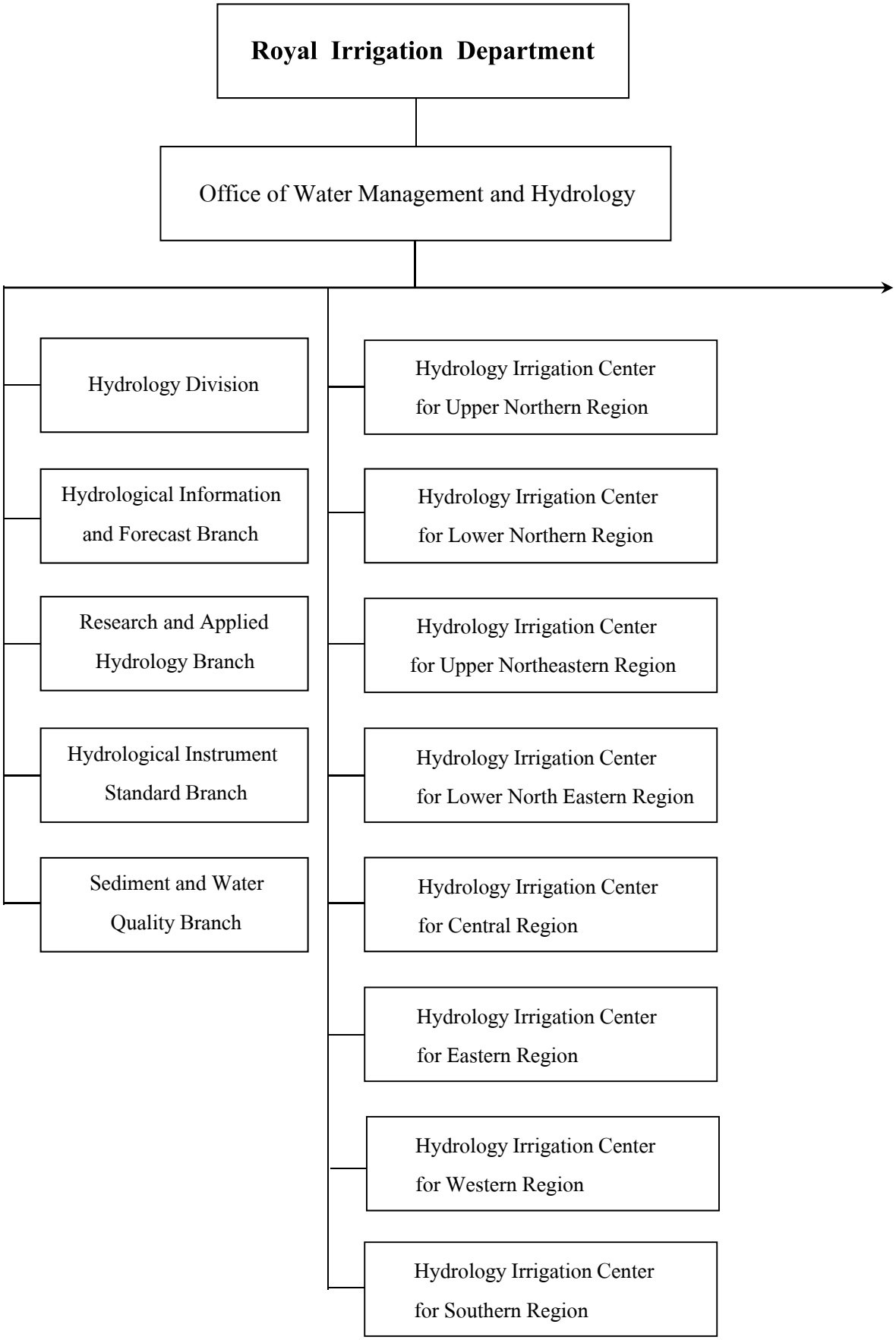
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement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

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

Organization

Stream flow data presented herein are from the hydrologic network operating by the Hydrology Division of the Royal Irrigation Department (RID). Field data collection and office data processing as well as yearbook publication are hydrologic activities undertaken by the Division.

The organization structure of the Division is diagrammatically shown below :-


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

PARTICIPATION IN STREAM GAUGING WORKS

* * * * * * *

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

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

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

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

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

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

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

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

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

UNITS OF MEASURE AND CONVERSION FACTORS

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

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

Multiply metric or Thai units	By	To obtain English Unit
	Flow	
liters per second (1/s)	.03531	cubic feet per second (ft^3 / s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3 / s)	.03531	cubic feet per second (ft^3 / s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day (mgd)
cubic meters per second (m^3 / s)	35.31	cubic feet per second (ft^3 / s)
	15,850	gallons per minute (gpm)
	22.82	million gallons per day (mgd)

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Stream Gauging Data
Water Year 2016

WATER YEAR : 2016

SALAWIN RIVER BASIN

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

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

Location : on left bank at Ban Tha Pong Daeng.

	Ban Tha Pong Daeng	**Amphoe** Mueang	**Changwat** Mae Hong Son
Drainge Area	4,470 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+175.757 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the station office.		**Elevation** +187.423 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 174 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

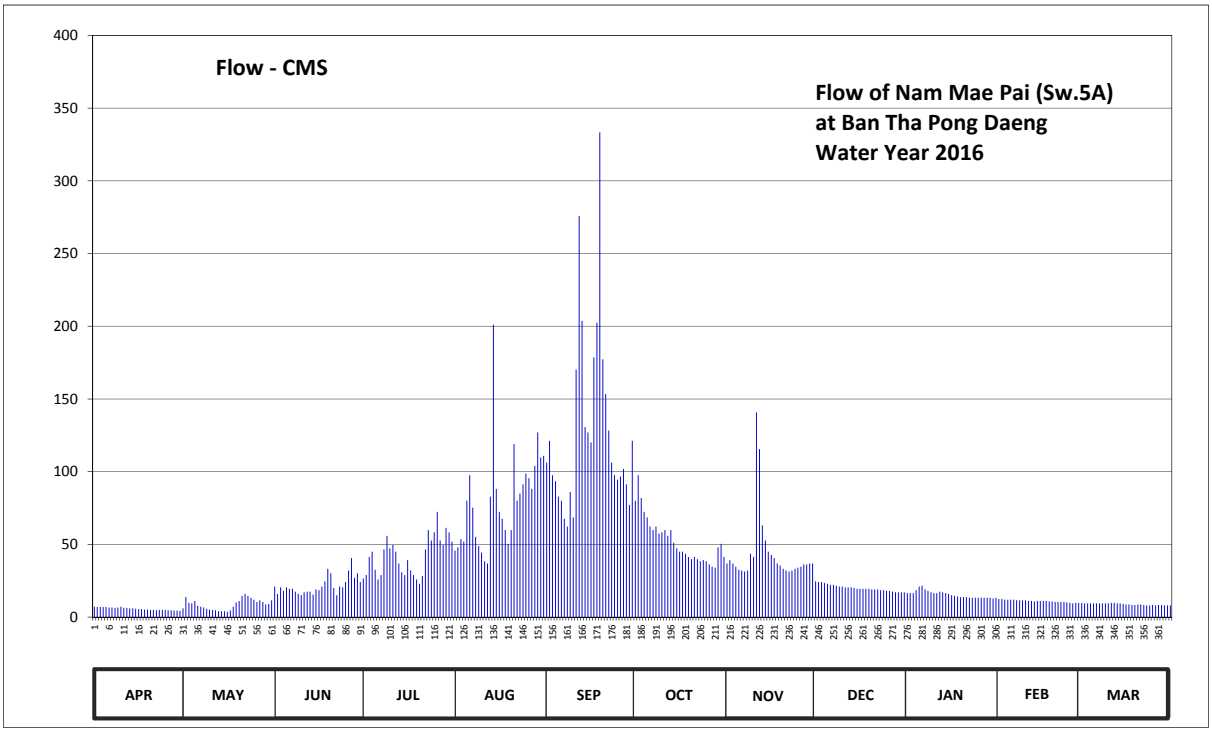
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.27	175.23	175.60	175.69	175.97	176.62	176.37	175.85	175.66	175.51	175.42	175.35	
2	175.26	175.45	175.50	175.73	176.00	176.75	176.54	175.88	175.65	175.51	175.42	175.34	
3	175.26	175.35	175.59	175.91	176.07	176.54	176.39	175.85	175.65	175.51	175.41	175.34	
4	175.26	175.34	175.54	175.96	176.05	176.50	176.29	175.82	175.64	175.55	175.41	175.34	
5	175.26	175.39	175.59	175.79	176.37	176.40	176.25	175.79	175.63	175.60	175.41	175.34	
6	175.25	175.29	175.57	175.68	176.54	176.37	176.18	175.78	175.62	175.61	175.41	175.34	
7	175.25	175.27	175.57	175.73	176.32	176.24	176.15	175.77	175.62	175.56	175.40	175.34	
8	175.24	175.25	175.53	175.98	176.09	176.18	176.18	175.78	175.61	175.54	175.40	175.34	
9	175.25	175.22	175.50	176.10	176.01	176.43	176.12	175.94	175.60	175.52	175.40	175.34	
10	175.27	175.20	175.48	175.99	175.95	176.25	176.13	175.91	175.60	175.51	175.40	175.34	
11	175.24	175.19	175.52	176.02	175.87	177.13	176.15	176.91	175.59	175.51	175.39	175.35	
12	175.24	175.18	175.53	175.96	175.85	177.81	176.10	176.70	175.59	175.53	175.39	175.35	
13	175.23	175.15	175.53	175.85	176.40	177.37	176.15	176.19	175.59	175.52	175.38	175.34	
14	175.23	175.15	175.49	175.76	177.35	176.83	176.04	176.06	175.58	175.51	175.39	175.34	
15	175.22	175.15	175.56	175.73	176.45	176.80	175.99	175.96	175.57	175.50	175.39	175.33	
16	175.21	175.13	175.55	175.88	176.29	176.74	175.96	175.93	175.57	175.48	175.39	175.32	
17	175.21	175.17	175.60	175.78	176.24	177.19	175.96	175.90	175.57	175.47	175.39	175.32	
18	175.20	175.27	175.66	175.73	176.15	177.36	175.94	175.85	175.57	175.46	175.38	175.31	
19	175.20	175.36	175.80	175.68	176.03	178.13	175.91	175.83	175.57	175.45	175.38	175.31	
20	175.19	175.39	175.75	175.63	176.15	177.18	175.89	175.80	175.56	175.45	175.37	175.32	
21	175.19	175.47	175.58	175.72	176.73	177.01	175.91	175.78	175.56	175.45	175.37	175.32	
22	175.18	175.50	175.48	175.98	176.37	176.81	175.89	175.77	175.56	175.44	175.37	175.31	
23	175.19	175.47	175.60	176.15	176.42	176.62	175.87	175.78	175.55	175.44	175.37	175.30	
24	175.19	175.44	175.59	176.06	176.48	176.54	175.88	175.80	175.55	175.44	175.36	175.30	
25	175.19	175.41	175.65	176.13	176.55	176.51	175.87	175.81	175.54	175.44	175.35	175.31	
26	175.18	175.37	175.78	176.29	176.52	176.53	175.84	175.82	175.54	175.44	175.34	175.30	
27	175.18	175.40	175.90	176.06	176.45	176.58	175.82	175.84	175.53	175.44	175.35	175.31	
28	175.17	175.37	175.70	176.02	176.60	176.48	175.81	175.84	175.52	175.44	175.35	175.31	
29	175.17	175.32	175.75	176.17	176.80	176.34	176.00	175.85	175.52	175.44		175.30	
30	175.16	175.33	175.65	176.13	176.65	176.75	176.03	175.85	175.52	175.43		175.30	
31		175.40		176.05	176.66		175.91		175.52	175.44		175.30	
Mean	175.22	175.31	175.60	175.91	176.33	176.77	176.05	175.92	175.58	175.49	175.39	175.32	
Max	175.27	175.50	175.90	176.29	177.35	178.13	176.54	176.91	175.66	175.61	175.42	175.35	178.13
Min	175.16	175.13	175.48	175.63	175.85	176.18	175.81	175.77	175.52	175.43	175.34	175.30	175.13

Annual Max Momentary Gage Height 178.76 m. (MSL.) , at 24.00 Hours , on Sep 18 , 2016

Zero Gage at Bottom Elevation 175.76 m. (MSL.) , River Bed 174.01 m. (MSL.)

Left Bank Elevation 183.87 m. (MSL.) ,

Right Bank Elevation 181.48 m. (MSL.) , Drainage Are 4,470 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.16	6.04	21.00	26.49	45.78	106.30	79.95	36.90	24.66	16.50	12.40	9.75	
2	6.88	13.75	16.00	28.93	48.00	121.25	97.64	39.12	24.05	16.50	12.40	9.40	
3	6.88	9.75	20.50	41.34	53.53	97.64	81.85	36.90	24.05	16.50	11.95	9.40	
4	6.88	9.40	18.00	45.04	51.95	93.40	72.35	34.68	23.44	18.50	11.95	9.40	
5	6.88	11.15	20.50	32.59	79.95	82.80	68.55	32.59	22.83	21.00	11.95	9.40	
6	6.60	7.72	19.50	25.88	97.64	79.95	62.22	31.98	22.22	21.61	11.95	9.40	
7	6.60	7.16	19.50	28.93	75.20	67.60	59.85	31.37	22.22	19.00	11.50	9.40	
8	6.32	6.60	17.50	46.52	55.11	62.22	62.22	31.98	21.61	18.00	11.50	9.40	
9	6.60	5.76	16.00	55.90	48.79	85.98	57.48	43.56	21.00	17.00	11.50	9.40	
10	7.16	5.20	15.10	47.26	44.30	68.55	58.27	41.34	21.00	16.50	11.50	9.40	
11	6.32	4.97	17.00	49.58	38.38	170.20	59.85	140.75	20.50	16.50	11.15	9.75	
12	6.32	4.74	17.50	45.04	36.90	275.80	55.90	115.50	20.50	17.50	11.15	9.75	
13	6.04	4.05	17.50	36.90	82.80	203.80	59.85	63.01	20.50	17.00	10.80	9.40	
14	6.04	4.05	15.55	30.76	201.00	130.75	51.16	52.74	20.00	16.50	11.15	9.40	
15	5.76	4.05	19.00	28.93	88.10	127.00	47.26	45.04	19.50	16.00	11.15	9.05	
16	5.48	3.59	18.50	39.12	72.35	120.10	45.04	42.82	19.50	15.10	11.15	8.70	
17	5.48	4.51	21.00	31.98	67.60	178.60	45.04	40.60	19.50	14.65	11.15	8.70	
18	5.20	7.16	24.66	28.93	59.85	202.40	43.56	36.90	19.50	14.20	10.80	8.35	
19	5.20	10.10	33.20	25.88	50.37	333.40	41.34	35.42	19.50	13.75	10.80	8.35	
20	4.97	11.15	30.15	22.83	59.85	177.20	39.86	33.20	19.00	13.75	10.45	8.70	
21	4.97	14.65	20.00	28.32	118.95	153.40	41.34	31.98	19.00	13.75	10.45	8.70	
22	4.74	16.00	15.10	46.52	79.95	128.25	39.86	31.37	19.00	13.30	10.45	8.35	
23	4.97	14.65	21.00	59.85	84.92	106.30	38.38	31.98	18.50	13.30	10.45	8.00	
24	4.97	13.30	20.50	52.74	91.28	97.64	39.12	33.20	18.50	13.30	10.10	8.00	
25	4.97	11.95	24.05	58.27	98.70	94.46	38.38	33.94	18.00	13.30	9.75	8.35	
26	4.74	10.45	31.98	72.35	95.52	96.58	36.16	34.68	18.00	13.30	9.40	8.00	
27	4.74	11.50	40.60	52.74	88.10	101.88	34.68	36.16	17.50	13.30	9.75	8.35	
28	4.51	10.45	27.10	49.58	104.00	91.28	33.94	36.16	17.00	13.30	9.75	8.35	
29	4.51	8.70	30.15	61.43	127.00	77.10	48.00	36.90	17.00	13.30		8.00	
30	4.28	9.05	24.05	58.27	109.75	121.25	50.37	36.90	17.00	12.85		8.00	
31		11.50		51.95	110.90		41.34		17.00	13.30		8.00	
Total	172.17	273.10	652.19	1310.85	2466.52	3853.08	1630.81	1309.67	621.58	482.36	308.45	274.60	13355.38	CMSDAY
Mean	5.74	8.81	21.74	42.29	79.57	128.44	52.61	43.66	20.05	15.56	11.02	8.86	36.59	CMS
Max	7.16	16.00	40.60	72.35	201.00	333.40	97.64	140.75	24.66	21.61	12.40	9.75	333.40	CMS
Min	4.28	3.59	15.10	22.83	36.90	62.22	33.94	31.37	17.00	12.85	9.40	8.00	3.59	CMS
Runoff	14.88	23.60	56.35	113.26	213.11	332.91	140.90	113.16	53.70	41.68	26.65	23.73	1153.90	MCM

Momentary Peak 464.80 CMS. at 178.76 m. (MSL.) at 24.00 Hours , on Sep 18 , 2016

Runoff Yield 8.19 Liters/Second/Square KM. Momentary Peak Yield 103.980 Liters/Second/Square KM.

WATER YEAR : 2016

SALAWIN RIVER BASIN

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

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

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

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

Drainge Area	1,009 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+268.470 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 6.25 meters from the automatic gage buiding. **Elevation** +278.846 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1971 to date
Rated by Flot	-
Rated by Current Meter	1971 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

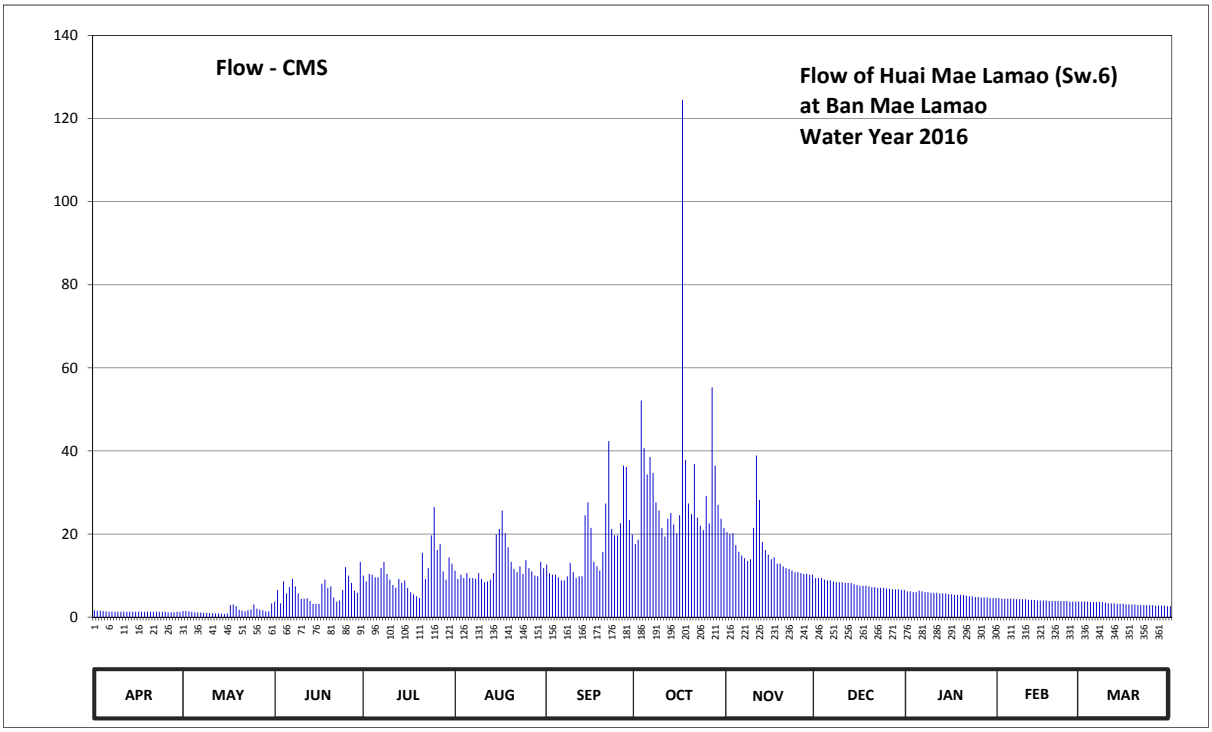
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.52	268.50	268.71	269.08	269.14	269.21	269.43	269.54	269.05	268.87	268.77	268.71	
2	268.51	268.50	268.89	269.01	269.04	269.11	269.47	269.52	269.05	268.87	268.76	268.71	
3	268.51	268.49	268.68	269.10	269.09	269.09	270.44	269.53	269.05	268.86	268.76	268.71	
4	268.50	268.47	269.01	269.09	269.05	269.09	270.19	269.42	269.03	268.86	268.76	268.70	
5	268.49	268.46	268.84	269.06	269.11	269.06	270.01	269.35	269.02	268.88	268.76	268.70	
6	268.48	268.45	268.93	269.06	269.05	269.02	270.13	269.31	269.02	268.87	268.76	268.70	
7	268.48	268.45	269.04	269.17	269.05	269.02	270.02	269.28	269.01	268.86	268.75	268.70	
8	268.48	268.44	268.94	269.24	269.04	269.07	269.80	269.25	269.00	268.86	268.75	268.70	
9	268.48	268.44	268.84	269.10	269.11	269.23	269.73	269.27	269.00	268.85	268.75	268.69	
10	268.48	268.43	268.76	269.03	269.04	269.12	269.58	269.58	269.00	268.85	268.75	268.68	
11	268.48	268.43	268.76	268.96	269.00	269.05	269.50	270.14	268.99	268.85	268.74	268.68	
12	268.48	268.42	268.77	268.92	269.01	269.07	269.66	269.82	268.99	268.84	268.74	268.68	
13	268.48	268.42	268.72	269.04	269.03	269.07	269.71	269.45	268.99	268.84	268.74	268.67	
14	268.48	268.41	268.67	268.99	269.11	269.69	269.61	269.37	268.97	268.84	268.73	268.67	
15	268.48	268.40	268.67	269.02	269.52	269.80	269.53	269.32	268.96	268.83	268.73	268.67	
16	268.48	268.42	268.67	268.92	269.57	269.58	269.69	269.27	268.95	268.83	268.73	268.66	
17	268.48	268.65	268.98	268.86	269.73	269.24	271.58	269.29	268.95	268.82	268.73	268.66	
18	268.48	268.66	269.03	268.83	269.53	269.19	270.11	269.22	268.95	268.82	268.72	268.66	
19	268.48	268.63	268.92	268.80	269.40	269.14	269.79	269.22	268.94	268.82	268.72	268.66	
20	268.48	268.54	268.94	268.77	269.24	269.35	269.70	269.19	268.93	268.82	268.72	268.65	
21	268.48	268.51	268.78	269.34	269.16	269.79	270.08	269.17	268.93	268.81	268.72	268.65	
22	268.48	268.49	268.71	269.04	269.12	270.23	269.67	269.16	268.92	268.80	268.72	268.65	
23	268.48	268.53	268.73	269.17	269.19	269.57	269.60	269.14	268.92	268.80	268.72	268.65	
24	268.48	268.55	268.89	269.51	269.10	269.51	269.56	269.12	268.92	268.79	268.72	268.65	
25	268.48	268.66	269.18	269.76	269.26	269.51	269.85	269.12	268.91	268.79	268.71	268.65	
26	268.46	268.58	269.08	269.37	269.17	269.62	269.62	269.11	268.91	268.78	268.71	268.64	
27	268.46	268.54	268.99	269.43	269.13	270.07	270.50	269.10	268.90	268.78	268.71	268.64	
28	268.46	268.52	268.88	269.13	269.08	270.06	270.07	269.10	268.90	268.78	268.71	268.64	
29	268.47	268.49	268.85	269.03	269.07	269.65	269.78	269.09	268.90	268.77		268.64	
30	268.47	268.49	269.24	269.29	269.24	269.52	269.66	269.09	268.89	268.77		268.63	
31		268.68		269.22	269.17		269.58		268.89	268.77		268.63	
Mean	268.48	268.50	268.87	269.11	269.18	269.39	269.86	269.32	268.96	268.83	268.74	268.67	
Max	268.52	268.68	269.24	269.76	269.73	270.23	271.58	270.14	269.05	268.88	268.77	268.71	271.58
Min	268.46	268.40	268.67	268.77	269.00	269.02	269.43	269.09	268.89	268.77	268.71	268.63	268.40

Annual Max Momentary Gage Height 271.92 m. (MSL.) , at 15.00 Hours , on Oct 17 , 2016

Zero Gage at Bottom Elevation 268.47 m. (MSL.) , River Bed 268.27 m. (MSL.)

Left Bank Elevation 281.28 m. (MSL.) ,

Right Bank Elevation 281.28 m. (MSL.) , Drainage Are 1009 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.61	1.47	3.74	10.00	11.20	12.62	17.58	20.44	9.40	6.19	4.58	3.74	
2	1.54	1.47	6.53	8.60	9.20	10.60	18.62	19.92	9.40	6.19	4.44	3.74	
3	1.54	1.39	3.32	10.40	10.20	10.20	52.12	20.18	9.40	6.02	4.44	3.74	
4	1.47	1.25	8.60	10.20	9.40	10.20	40.65	17.32	9.00	6.02	4.44	3.60	
5	1.39	1.17	5.68	9.60	10.60	9.60	34.35	15.70	8.80	6.36	4.44	3.60	
6	1.32	1.10	7.21	9.60	9.40	8.80	38.55	14.82	8.80	6.19	4.44	3.60	
7	1.32	1.10	9.20	11.80	9.40	8.80	34.70	14.16	8.60	6.02	4.30	3.60	
8	1.32	1.03	7.38	13.28	9.20	9.80	27.60	13.50	8.40	6.02	4.30	3.60	
9	1.32	1.03	5.68	10.40	10.60	13.06	25.64	13.94	8.40	5.85	4.30	3.46	
10	1.32	0.95	4.44	9.00	9.20	10.80	21.48	21.48	8.40	5.85	4.30	3.32	
11	1.32	0.95	4.44	7.72	8.40	9.40	19.40	38.90	8.23	5.85	4.16	3.32	
12	1.32	0.88	4.58	7.04	8.60	9.80	23.68	28.24	8.23	5.68	4.16	3.32	
13	1.32	0.88	3.88	9.20	9.00	9.80	25.08	18.10	8.23	5.68	4.16	3.18	
14	1.32	0.81	3.18	8.23	10.60	24.52	22.28	16.14	7.89	5.68	4.02	3.18	
15	1.32	0.73	3.18	8.80	19.92	27.60	20.18	15.04	7.72	5.51	4.02	3.18	
16	1.32	0.88	3.18	7.04	21.22	21.48	24.52	13.94	7.55	5.51	4.02	3.04	
17	1.32	2.90	8.06	6.02	25.64	13.28	124.50	14.38	7.55	5.34	4.02	3.04	
18	1.32	3.04	9.00	5.51	20.18	12.20	37.85	12.84	7.55	5.34	3.88	3.04	
19	1.32	2.62	7.04	5.00	16.80	11.20	27.32	12.84	7.38	5.34	3.88	3.04	
20	1.32	1.76	7.38	4.58	13.28	15.70	24.80	12.20	7.21	5.34	3.88	2.90	
21	1.32	1.54	4.72	15.48	11.60	27.32	36.80	11.80	7.21	5.17	3.88	2.90	
22	1.32	1.39	3.74	9.20	10.80	42.35	23.96	11.60	7.04	5.00	3.88	2.90	
23	1.32	1.69	4.02	11.80	12.20	21.22	22.00	11.20	7.04	5.00	3.88	2.90	
24	1.32	1.83	6.53	19.66	10.40	19.66	20.96	10.80	7.04	4.86	3.88	2.90	
25	1.32	3.04	12.00	26.48	13.72	19.66	29.20	10.80	6.87	4.86	3.74	2.90	
26	1.17	2.05	10.00	16.14	11.80	22.56	22.56	10.60	6.87	4.72	3.74	2.76	
27	1.17	1.76	8.23	17.58	11.00	36.45	55.30	10.40	6.70	4.72	3.74	2.76	
28	1.17	1.61	6.36	11.00	10.00	36.10	36.45	10.40	6.70	4.72	3.74	2.76	
29	1.25	1.39	5.85	9.00	9.80	23.40	27.04	10.20	6.70	4.58		2.76	
30	1.25	1.39	13.28	14.38	13.28	19.92	23.68	10.20	6.53	4.58		2.62	
31		3.32		12.84	11.80		21.48		6.53	4.58		2.62	
Total	39.96	48.42	190.43	335.58	378.44	528.10	980.33	462.08	241.37	168.77	114.66	98.02	3586.16	CMSDAY
Mean	1.33	1.56	6.35	10.83	12.21	17.60	31.62	15.40	7.79	5.44	4.09	3.16	9.83	CMS
Max	1.61	3.32	13.28	26.48	25.64	42.35	124.50	38.90	9.40	6.36	4.58	3.74	124.50	CMS
Min	1.17	0.73	3.18	4.58	8.40	8.80	17.58	10.20	6.53	4.58	3.74	2.62	0.73	CMS
Runoff	3.45	4.18	16.45	28.99	32.70	45.63	84.70	39.92	20.85	14.58	9.91	8.47	309.84	MCM

Momentary Peak 150.60 CMS. at 271.92 m. (MSL.) at 15.00 Hours , on Oct 17 , 2016

Runoff Yield 9.74 Liters/Second/Square KM. Momentary Peak Yield 149.260 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Na Ang	**Amphoe** Ban Phu	**Changwat** Udon Thani
Drainge Area	1,309 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+183.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the automatic gage building.	**Elevation**	+191.432 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1957 to date		
Rating Operation			
Period of Rating	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
Rated by Flot	-		
Rated by Current Meter	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +189.67 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

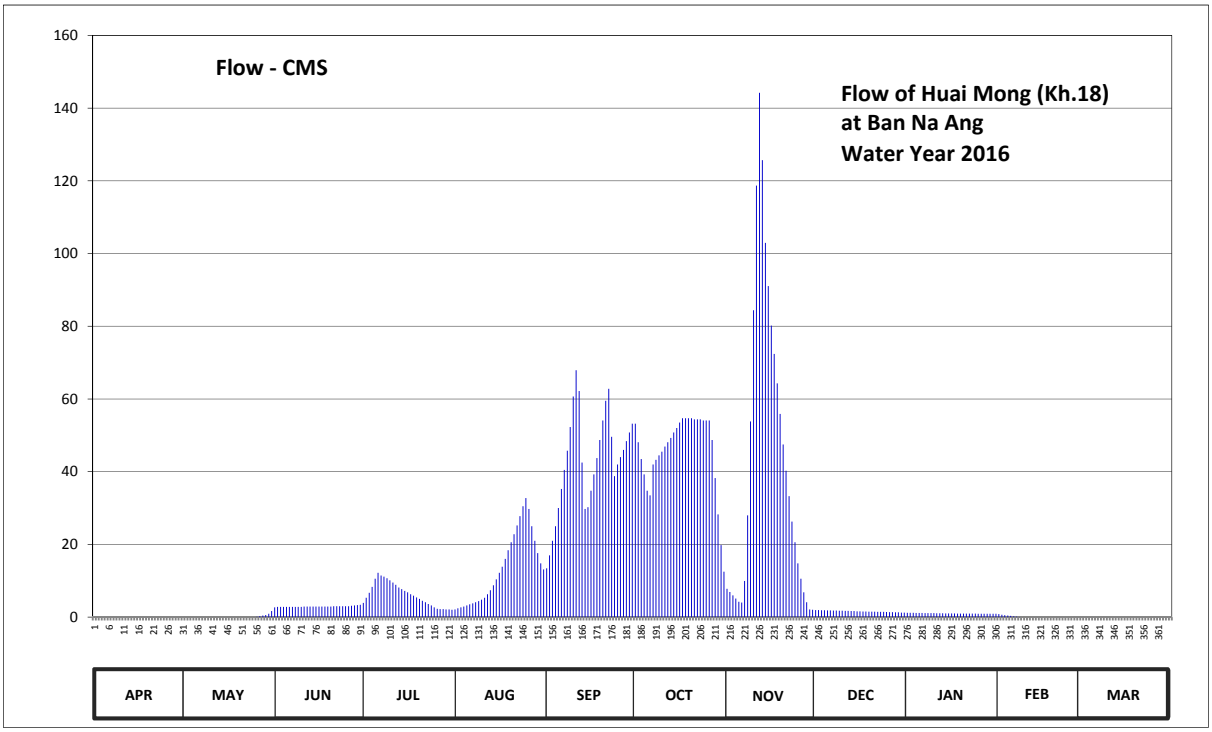
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.31	184.12	186.47	186.59	186.41	187.36	189.04	186.98	186.39	186.24	186.12	183.62	
2	184.29	184.15	186.48	186.73	186.44	187.55	188.87	186.89	186.39	186.24	186.03	183.66	
3	184.28	184.19	186.48	186.87	186.47	187.75	188.70	186.80	186.38	186.24	185.93	183.70	
4	184.27	184.24	186.48	187.02	186.49	187.95	188.53	186.71	186.38	186.23	185.83	183.74	
5	184.27	184.28	186.48	187.17	186.52	188.16	188.35	186.62	186.37	186.23	185.73	183.78	
6	184.26	184.31	186.48	187.28	186.55	188.37	188.30	186.60	186.37	186.23	185.63	183.82	
7	184.26	184.36	186.48	187.23	186.58	188.58	188.64	187.13	186.36	186.22	185.54	183.86	
8	184.25	184.41	186.48	187.21	186.61	188.79	188.69	188.08	186.36	186.22	185.44	183.90	
9	184.25	184.46	186.48	187.18	186.64	189.01	188.74	189.06	186.35	186.22	185.34	183.94	
10	184.24	184.51	186.48	187.14	186.68	189.29	188.78	190.04	186.35	186.22	185.22	183.98	
11	184.23	184.56	186.49	187.10	186.73	189.53	188.83	191.02	186.34	186.21	185.10	184.02	
12	184.23	184.61	186.49	187.06	186.83	189.34	188.87	191.73	186.34	186.21	185.00	184.06	
13	184.22	184.66	186.49	187.01	186.94	188.66	188.91	191.22	186.33	186.21	184.91	184.10	
14	184.22	184.71	186.49	186.97	187.05	188.15	188.96	190.57	186.33	186.20	184.82	184.14	
15	184.21	184.76	186.49	186.92	187.16	188.17	189.00	190.23	186.32	186.20	184.71	184.18	
16	184.21	184.81	186.49	186.88	187.28	188.35	189.05	189.92	186.32	186.20	184.62	184.22	
17	184.20	184.86	186.49	186.83	187.39	188.53	189.09	189.68	186.31	186.20	184.53	184.26	
18	184.20	184.91	186.49	186.79	187.50	188.71	189.09	189.41	186.31	186.19	184.43	184.30	
19	184.19	184.96	186.49	186.74	187.62	188.89	189.09	189.13	186.30	186.19	184.33	184.34	
20	184.18	185.01	186.49	186.70	187.73	189.07	189.09	188.85	186.30	186.19	184.23	184.38	
21	184.17	185.05	186.50	186.65	187.84	189.25	189.08	188.57	186.30	186.19	184.13	184.42	
22	184.16	185.07	186.50	186.61	187.96	189.36	189.08	188.29	186.29	186.18	184.05	184.46	
23	184.15	185.11	186.50	186.56	188.07	188.92	189.08	188.01	186.29	186.18	183.94	184.50	
24	184.14	185.16	186.50	186.52	188.18	188.51	189.07	187.73	186.29	186.18	183.85	184.55	
25	184.13	185.28	186.50	186.47	188.27	188.64	189.07	187.44	186.28	186.17	183.77	184.60	
26	184.12	185.48	186.50	186.43	188.15	188.72	189.07	187.17	186.27	186.17	183.66	184.65	
27	184.12	185.66	186.51	186.42	187.95	188.80	188.89	186.88	186.27	186.16	183.63	184.68	
28	184.11	185.82	186.52	186.42	187.75	188.88	188.49	186.61	186.26	186.16	183.62	184.70	
29	184.11	185.99	186.53	186.41	187.58	188.96	188.09	186.41	186.26	186.16		184.71	
30	184.11	186.17	186.54	186.41	187.44	189.04	187.69	186.40	186.25	186.15		184.72	
31		186.33		186.40	187.34		187.30		186.25	186.15		184.73	
Mean	184.20	184.90	186.49	186.80	187.23	188.64	188.76	188.34	186.32	186.20	184.79	184.22	
Max	184.31	186.33	186.54	187.28	188.27	189.53	189.09	191.73	186.39	186.24	186.12	184.73	191.73
Min	184.11	184.12	186.47	186.40	186.41	187.36	187.30	186.40	186.25	186.15	183.62	183.62	183.62

Annual Max Momentary Gage Height 191.87 m. (MSL.) , at 14.00 Hours , on Nov 12 , 2016

Zero Gage at Bottom Elevation 183.4 m. (MSL.) , River Bed 183.93 m. (MSL.)

Left Bank Elevation 189.66 m. (MSL.) ,

Right Bank Elevation 189.67 m. (MSL.) , Drainage Are 1309 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.70	3.90	2.10	13.40	53.20	7.80	1.95	1.20	0.84	0.00	
2	0.00	0.00	2.80	5.30	2.40	17.00	48.10	6.90	1.95	1.20	0.66	0.00	
3	0.00	0.00	2.80	6.70	2.70	21.00	43.50	6.00	1.90	1.20	0.53	0.00	
4	0.00	0.00	2.80	8.30	2.90	25.00	39.25	5.10	1.90	1.15	0.43	0.00	
5	0.00	0.00	2.80	10.55	3.20	30.00	34.75	4.20	1.85	1.15	0.33	0.00	
6	0.00	0.00	2.80	12.20	3.50	35.25	33.50	4.00	1.85	1.15	0.23	0.00	
7	0.00	0.00	2.80	11.45	3.80	40.50	42.00	9.95	1.80	1.10	0.14	0.00	
8	0.00	0.00	2.80	11.15	4.10	45.75	43.25	28.00	1.80	1.10	0.04	0.00	
9	0.00	0.00	2.80	10.70	4.40	52.30	44.50	53.80	1.75	1.10	0.00	0.00	
10	0.00	0.00	2.80	10.10	4.80	60.70	45.50	84.40	1.75	1.10	0.00	0.00	
11	0.00	0.00	2.90	9.50	5.30	67.90	46.90	118.70	1.70	1.05	0.00	0.00	
12	0.00	0.00	2.90	8.90	6.30	62.20	48.10	144.20	1.70	1.05	0.00	0.00	
13	0.00	0.00	2.90	8.15	7.40	42.50	49.30	125.70	1.65	1.05	0.00	0.00	
14	0.00	0.00	2.90	7.70	8.75	29.75	50.80	102.95	1.65	1.00	0.00	0.00	
15	0.00	0.00	2.90	7.20	10.40	30.25	52.00	91.05	1.60	1.00	0.00	0.00	
16	0.00	0.00	2.90	6.80	12.20	34.75	53.50	80.20	1.60	1.00	0.00	0.00	
17	0.00	0.00	2.90	6.30	13.85	39.25	54.70	72.40	1.55	1.00	0.00	0.00	
18	0.00	0.00	2.90	5.90	16.00	43.75	54.70	64.30	1.55	0.98	0.00	0.00	
19	0.00	0.00	2.90	5.40	18.40	48.70	54.70	55.90	1.50	0.98	0.00	0.00	
20	0.00	0.00	2.90	5.00	20.60	54.10	54.70	47.50	1.50	0.98	0.00	0.00	
21	0.00	0.00	3.00	4.50	22.80	59.50	54.40	40.25	1.50	0.98	0.00	0.00	
22	0.00	0.00	3.00	4.10	25.20	62.80	54.40	33.25	1.45	0.96	0.00	0.00	
23	0.00	0.00	3.00	3.60	27.75	49.60	54.40	26.25	1.45	0.96	0.00	0.00	
24	0.00	0.00	3.00	3.20	30.50	38.75	54.10	20.60	1.45	0.96	0.00	0.00	
25	0.00	0.00	3.00	2.70	32.75	42.00	54.10	14.80	1.40	0.94	0.00	0.00	
26	0.00	0.08	3.00	2.30	29.75	44.00	54.10	10.55	1.35	0.94	0.00	0.00	
27	0.00	0.26	3.10	2.20	25.00	46.00	48.70	6.80	1.35	0.92	0.00	0.00	
28	0.00	0.42	3.20	2.20	21.00	48.40	38.25	4.10	1.30	0.92	0.00	0.00	
29	0.00	0.59	3.30	2.10	17.60	50.80	28.25	2.10	1.30	0.92		0.00	
30	0.00	0.94	3.40	2.10	14.80	53.20	19.80	2.00	1.25	0.90		0.00	
31		1.65		2.00	13.10		12.50		1.25	0.90		0.00	
Total	0.00	3.94	87.90	192.20	413.35	1289.10	1419.95	1273.75	49.55	31.84	3.20	0.00	4764.78	CMSDAY
Mean	0.00	0.13	2.93	6.20	13.33	42.97	45.80	42.46	1.60	1.03	0.11	0.00	13.05	CMS
Max	0.00	1.65	3.40	12.20	32.75	67.90	54.70	144.20	1.95	1.20	0.84	0.00	144.20	CMS
Min	0.00	0.00	2.70	2.00	2.10	13.40	12.50	2.00	1.25	0.90	0.00	0.00	0.00	CMS
Runoff	0.00	0.34	7.59	16.61	35.71	111.38	122.68	110.05	4.28	2.75	0.28	0.00	411.68	MCM

Momentary Peak 149.80 CMS. at 191.87 m. (MSL.) at 14.00 Hours , on Nov 12 , 2016

Runoff Yield 9.97 Liters/Second/Square KM. Momentary Peak Yield 114.440 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Na Lak	**Amphoe** Wang Saphung	**Changwat** Loei
Drainge Area	1,271 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+238.600 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank upstream at the footpath of the bridge.	**Elevation**	+252.730 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

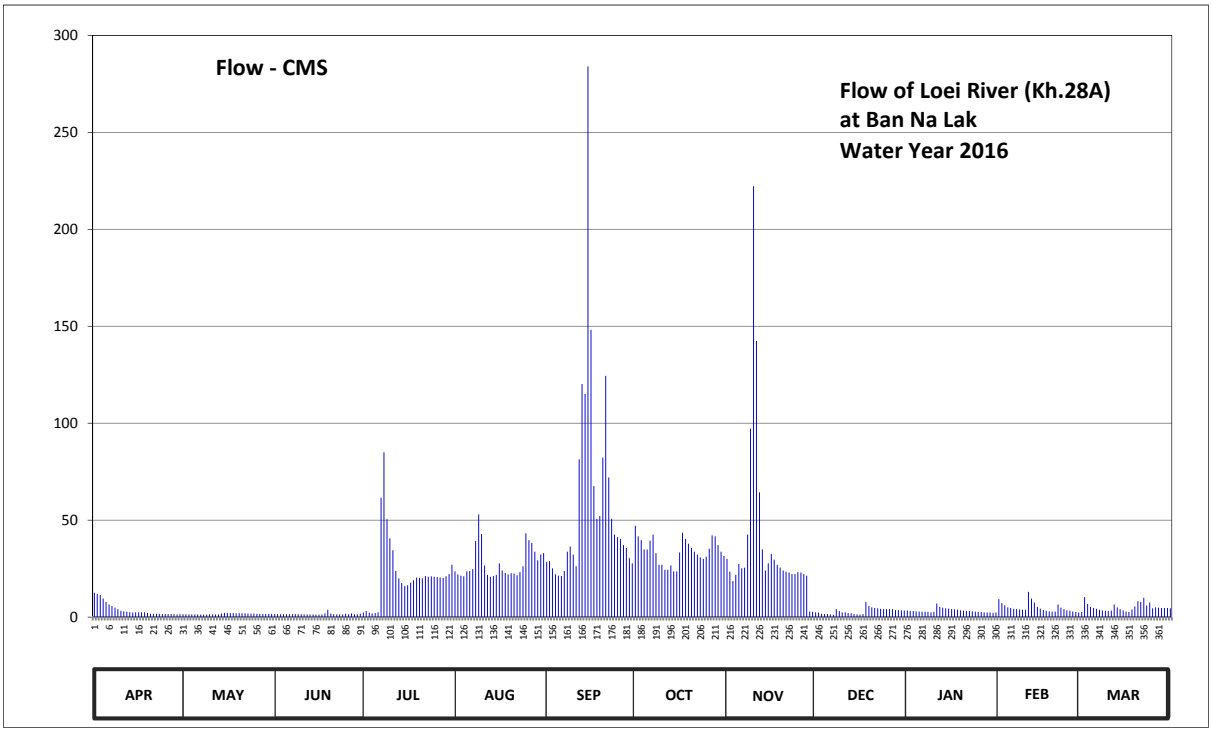
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	240.43	239.78	239.82	239.97	240.18	240.32	240.96	240.36	240.00	240.09	240.35	240.01	
2	240.42	239.79	239.80	240.06	240.10	240.33	240.72	240.17	239.96	240.07	240.29	240.38	
3	240.41	239.77	239.80	239.95	240.07	240.23	240.63	239.93	239.84	240.06	240.24	240.27	
4	240.36	239.77	239.80	239.88	240.05	240.10	240.49	240.09	239.82	240.05	240.20	240.21	
5	240.31	239.76	239.80	239.91	240.18	240.07	240.49	240.29	239.81	240.04	240.18	240.18	
6	240.26	239.75	239.78	239.99	240.19	240.06	240.62	240.23	239.77	240.03	240.15	240.15	
7	240.23	239.74	239.78	241.53	240.22	240.19	240.76	240.24	239.71	240.03	240.14	240.12	
8	240.19	239.74	239.82	242.11	240.61	240.46	240.44	240.76	240.14	240.02	240.13	240.10	
9	240.14	239.73	239.80	241.11	241.22	240.53	240.28	242.38	240.06	240.00	240.12	240.08	
10	240.08	239.78	239.78	240.67	240.77	240.42	240.28	244.35	240.00	240.02	240.12	240.07	
11	240.05	239.75	239.77	240.48	240.27	240.26	240.21	243.19	239.99	240.28	240.44	240.09	
12	240.03	239.74	239.76	240.19	240.09	242.03	240.21	241.61	239.93	240.21	240.36	240.26	
13	240.00	239.75	239.75	240.00	240.04	242.82	240.27	240.49	239.90	240.19	240.30	240.20	
14	239.98	239.87	239.76	239.88	240.06	242.73	240.18	240.20	239.81	240.17	240.21	240.14	
15	239.99	239.92	239.74	239.80	240.09	245.06	240.18	240.30	239.77	240.16	240.16	240.10	
16	239.99	239.93	239.73	239.82	240.30	243.28	240.45	240.43	239.73	240.14	240.11	240.04	
17	240.00	239.91	239.76	239.89	240.20	241.69	240.80	240.35	239.81	240.13	240.08	240.01	
18	240.00	239.91	239.88	239.95	240.14	241.12	240.66	240.28	240.31	240.12	240.05	240.13	
19	239.94	239.90	240.12	240.02	240.10	241.18	240.57	240.24	240.23	240.10	240.03	240.22	
20	239.85	239.91	239.87	240.01	240.13	242.05	240.51	240.20	240.20	240.08	240.04	240.32	
21	239.84	239.89	239.80	240.00	240.12	242.89	240.46	240.17	240.18	240.07	240.26	240.31	
22	239.84	239.88	239.77	240.06	240.08	241.80	240.42	240.15	240.17	240.06	240.19	240.37	
23	239.83	239.87	239.75	240.04	240.16	241.12	240.38	240.11	240.15	240.05	240.14	240.24	
24	239.82	239.86	239.77	240.05	240.26	240.76	240.36	240.11	240.14	240.03	240.10	240.30	
25	239.81	239.86	239.84	240.04	240.79	240.70	240.39	240.16	240.14	240.02	240.08	240.17	
26	239.81	239.85	239.80	240.03	240.63	240.66	240.50	240.15	240.14	240.01	240.04	240.20	
27	239.81	239.84	239.88	240.02	240.58	240.55	240.74	240.11	240.14	239.99	240.01	240.19	
28	239.79	239.83	239.80	240.01	240.46	240.51	240.72	240.07	240.11	239.98	239.98	240.18	
29	239.77	239.83	239.76	240.05	240.34	240.37	240.55	240.04	240.11	239.97		240.18	
30	239.78	239.83	239.86	240.11	240.42	240.30	240.46	240.02	240.10	239.95		240.18	
31		239.83		240.28	240.44		240.40		240.09	239.97		240.17	
Mean	240.03	239.82	239.81	240.19	240.30	241.15	240.49	240.57	240.01	240.07	240.16	240.18	
Max	240.43	239.93	240.12	242.11	241.22	245.06	240.96	244.35	240.31	240.28	240.44	240.38	245.06
Min	239.77	239.73	239.73	239.80	240.04	240.06	240.18	239.93	239.71	239.95	239.98	240.01	239.71

Annual Max Momentary Gage Height 245.37 m. (MSL.) , at 15.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 238.60 m. (MSL.) , River Bed 237.42 m. (MSL.)

Left Bank Elevation 246.51 m. (MSL.) ,

Right Bank Elevation 246.17 m. (MSL.) , Drainage Are 1271 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	1.45	1.60	2.35	23.60	28.50	47.10	30.00	2.50	3.40	9.25	2.60	
2	12.00	1.47	1.50	3.10	22.00	28.88	41.70	23.40	2.30	3.20	7.25	10.30	
3	11.50	1.42	1.50	2.25	21.40	25.13	39.67	18.60	1.70	3.10	6.00	6.75	
4	9.60	1.42	1.50	1.90	21.00	22.00	34.87	21.80	1.60	3.00	5.00	5.25	
5	7.85	1.40	1.50	2.05	23.60	21.40	34.87	27.38	1.55	2.90	4.70	4.70	
6	6.50	1.37	1.45	2.45	23.80	21.20	39.45	25.13	1.42	2.80	4.25	4.25	
7	5.75	1.35	1.45	61.55	24.75	23.80	42.60	25.50	1.27	2.80	4.10	3.80	
8	4.85	1.35	1.60	84.95	39.22	33.75	33.00	42.60	4.10	2.70	3.95	3.50	
9	4.10	1.32	1.50	50.48	52.95	36.37	27.00	97.10	3.10	2.50	3.80	3.30	
10	3.30	1.45	1.45	40.57	42.82	32.25	27.00	222.25	2.50	2.70	3.80	3.20	
11	3.00	1.37	1.42	34.50	26.63	26.25	24.38	142.40	2.45	7.00	13.00	3.40	
12	2.80	1.35	1.40	23.80	21.80	81.35	24.38	64.40	2.15	5.25	9.60	6.50	
13	2.50	1.37	1.37	20.00	20.80	120.20	26.63	34.87	2.00	4.85	7.50	5.00	
14	2.40	1.85	1.40	17.60	21.20	115.15	23.60	24.00	1.55	4.55	5.25	4.10	
15	2.45	2.10	1.35	16.00	21.80	284.00	23.60	27.75	1.42	4.40	4.40	3.50	
16	2.45	2.15	1.32	16.40	27.75	148.20	33.37	32.62	1.32	4.10	3.65	2.90	
17	2.50	2.05	1.40	17.80	24.00	67.60	43.50	29.62	1.55	3.95	3.30	2.60	
18	2.50	2.05	1.90	19.00	22.80	50.70	40.35	27.00	7.85	3.80	3.00	3.95	
19	2.20	2.00	3.80	20.40	22.00	52.05	37.87	25.50	5.75	3.50	2.80	5.50	
20	1.75	2.05	1.85	20.20	22.60	82.25	35.62	24.00	5.00	3.30	2.90	8.20	
21	1.70	1.95	1.50	20.00	22.40	124.40	33.75	23.40	4.70	3.20	6.50	7.85	
22	1.70	1.90	1.42	21.20	21.60	72.00	32.25	23.00	4.55	3.10	4.85	9.95	
23	1.65	1.85	1.37	20.80	23.20	50.70	30.75	22.20	4.25	3.00	4.10	6.00	
24	1.60	1.80	1.42	21.00	26.25	42.60	30.00	22.20	4.10	2.80	3.50	7.50	
25	1.55	1.80	1.70	20.80	43.27	41.25	31.12	23.20	4.10	2.70	3.30	4.55	
26	1.55	1.75	1.50	20.60	39.67	40.35	35.25	23.00	4.10	2.60	2.90	5.00	
27	1.55	1.70	1.90	20.40	38.25	37.12	42.15	22.20	4.10	2.45	2.60	4.85	
28	1.47	1.65	1.50	20.20	33.75	35.62	41.70	21.40	3.65	2.40	2.40	4.70	
29	1.42	1.65	1.40	21.00	29.25	30.37	37.12	2.90	3.65	2.35		4.70	
30	1.45	1.65	1.80	22.20	32.25	27.75	33.75	2.70	3.50	2.25		4.70	
31		1.65		27.00	33.00		31.50		3.40	2.35		4.55	
Total	118.14	51.69	47.77	692.55	869.41	1803.19	1059.90	1152.12	97.18	103.00	137.65	157.65	6290.25	CMSDAY
Mean	3.94	1.67	1.59	22.34	28.05	60.11	34.19	38.40	3.13	3.32	4.92	5.09	17.23	CMS
Max	12.50	2.15	3.80	84.95	52.95	284.00	47.10	222.25	7.85	7.00	13.00	10.30	284.00	CMS
Min	1.42	1.32	1.32	1.90	20.80	21.20	23.60	2.70	1.27	2.25	2.40	2.60	1.27	CMS
Runoff	10.21	4.47	4.13	59.84	75.12	155.80	91.58	99.54	8.40	8.90	11.89	13.62	543.48	MCM

Momentary Peak 315.85 CMS. at 245.37 m. (MSL.) at 15.00 Hours , on Sep 15 , 2016

Runoff Yield 13.56 Liters/Second/Square KM. Momentary Peak Yield 248.510 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

Ban Nong Wua So **Amphoe** Nong Wua So **Changwat** Udon Thani

Drainge Area	421 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+201.300 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank downstream side at the footpath of the bridge. **Elevation** +206.018 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1970 to date
Rating Operation	
Period of Rating	1975 - 1986 , 1997 to date
Rated by Flot	-
Rated by Current Meter	1975 - 1986 , 1997 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Huai Luang barrage. Stage-discharge relation defined by 12 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

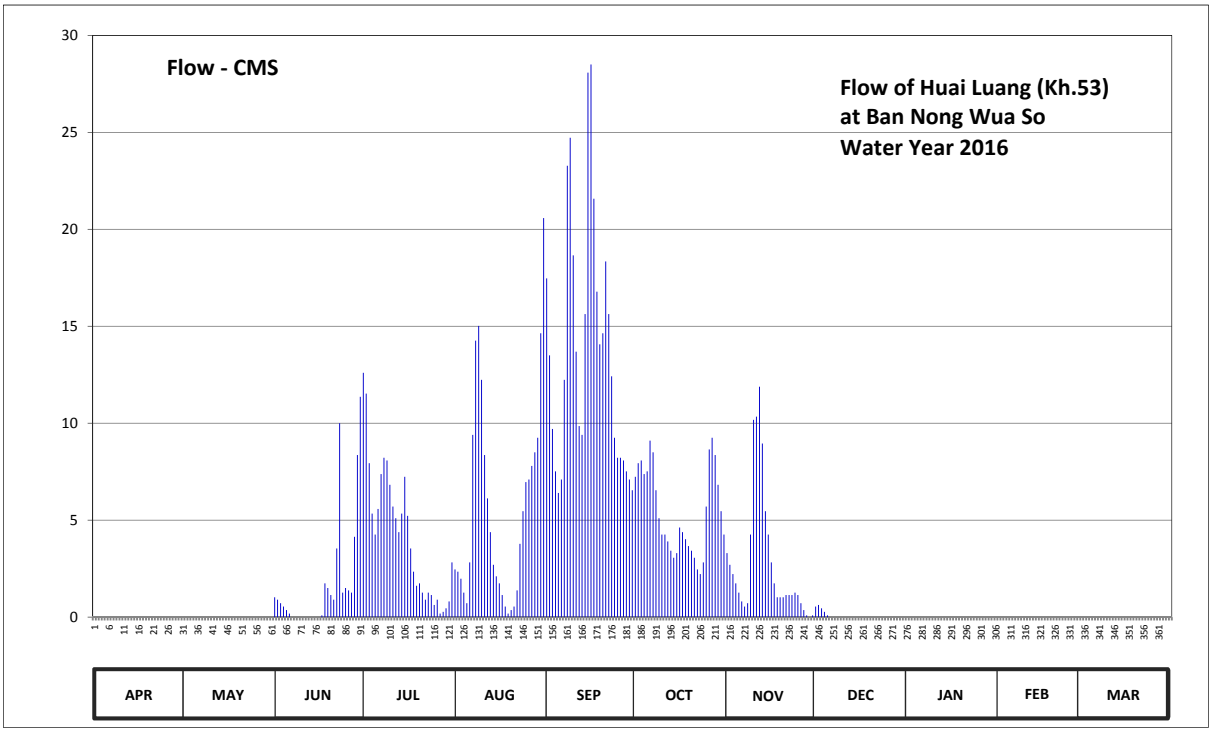
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.02	202.85	204.21	205.05	204.33	205.29	204.71	204.40	204.16	204.03	204.01	203.71	
2	203.00	202.84	204.20	204.99	204.32	205.10	204.76	204.35	204.17	204.03	204.00	203.70	
3	203.00	202.84	204.18	204.76	204.29	204.88	204.77	204.31	204.15	204.03	204.00	203.69	
4	202.99	202.84	204.16	204.57	204.23	204.73	204.72	204.27	204.13	204.02	203.99	203.68	
5	202.99	202.84	204.14	204.48	204.18	204.65	204.73	204.23	204.11	204.02	203.98	203.67	
6	202.99	202.85	204.12	204.59	204.36	204.70	204.84	204.19	204.10	204.02	203.97	203.65	
7	202.98	202.89	204.10	204.72	204.86	205.03	204.80	204.16	204.08	204.02	203.97	203.64	
8	202.98	202.96	204.09	204.78	205.14	205.47	204.66	204.18	204.06	204.02	203.94	203.64	
9	202.98	202.96	204.08	204.77	205.18	205.51	204.55	204.48	204.05	204.02	203.92	203.63	
10	202.97	202.94	204.05	204.68	205.03	205.33	204.48	204.91	204.03	204.02	203.93	203.63	
11	202.97	202.92	203.99	204.60	204.79	205.11	204.48	204.92	204.02	204.02	203.93	203.63	
12	202.96	202.93	203.99	204.55	204.63	204.89	204.45	205.01	204.02	204.02	203.91	203.64	
13	202.96	202.99	203.99	204.49	204.49	204.86	204.41	204.83	204.02	204.01	203.89	203.64	
14	202.96	202.98	204.00	204.57	204.35	205.21	204.38	204.58	204.03	204.01	203.87	203.65	
15	202.95	202.97	204.06	204.71	204.30	205.59	204.40	204.48	204.03	204.01	203.86	203.66	
16	202.95	202.97	204.05	204.56	204.27	205.60	204.51	204.36	204.03	204.01	203.84	203.66	
17	202.95	202.96	204.11	204.42	204.22	205.42	204.49	204.27	204.04	204.01	203.82	203.67	
18	202.94	202.95	204.27	204.32	204.16	205.26	204.46	204.21	204.04	204.01	203.80	203.68	
19	202.94	202.94	204.25	204.26	204.12	205.13	204.43	204.21	204.04	204.01	203.78	203.68	
20	202.94	202.95	204.22	204.27	204.14	205.16	204.41	204.21	204.05	204.00	203.77	203.69	
21	202.93	202.97	204.20	204.23	204.16	205.32	204.38	204.22	204.05	204.00	203.75	203.69	
22	202.93	202.97	204.42	204.20	204.24	205.21	204.33	204.22	204.05	204.00	203.73	203.70	
23	202.92	203.01	204.90	204.23	204.44	205.04	204.31	204.22	204.06	204.00	203.72	203.70	
24	202.92	203.12	204.23	204.22	204.58	204.85	204.36	204.23	204.06	204.00	203.71	203.71	
25	202.92	203.19	204.25	204.17	204.69	204.78	204.60	204.22	204.07	204.00	203.73	203.72	
26	202.91	203.23	204.24	204.20	204.70	204.78	204.81	204.18	204.06	204.00	203.74	203.73	
27	202.91	203.25	204.23	204.12	204.75	204.77	204.85	204.14	204.05	203.99	203.73	203.74	
28	202.90	203.25	204.47	204.13	204.80	204.73	204.79	204.11	204.05	203.98	203.72	203.74	
29	202.90	203.38	204.79	204.15	204.85	204.70	204.68	204.09	204.04	203.97		203.74	
30	202.89	203.68	204.98	204.19	205.16	204.66	204.58	204.11	204.04	203.96		203.75	
31		203.97		204.36	205.39		204.48		204.03	204.03		203.75	
Mean	202.95	203.04	204.23	204.46	204.55	205.06	204.57	204.34	204.06	204.01	203.86	203.68	
Max	203.02	203.97	204.98	205.05	205.39	205.60	204.85	205.01	204.17	204.03	204.01	203.75	205.60
Min	202.89	202.84	203.99	204.12	204.12	204.65	204.31	204.09	204.02	203.96	203.71	203.63	202.84

Annual Max Momentary Gage Height 205.66 m. (MSL.) , at 05.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 201.30 m. (MSL.) , River Bed 203.38 m. (MSL.)

Left Bank Elevation 206.37 m. (MSL.) ,

Right Bank Elevation 206.39 m. (MSL.) , Drainage Are 421 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.02	12.60	2.46	17.47	7.24	3.30	0.54	0.00	0.00	0.00		
2	0.00	0.00	0.90	11.53	2.34	13.50	7.94	2.70	0.63	0.00	0.00	0.00		
3	0.00	0.00	0.72	7.94	1.98	9.70	8.08	2.22	0.45	0.00	0.00	0.00		
4	0.00	0.00	0.54	5.34	1.26	7.52	7.38	1.74	0.27	0.00	0.00	0.00		
5	0.00	0.00	0.36	4.26	0.72	6.40	7.52	1.26	0.09	0.00	0.00	0.00		
6	0.00	0.00	0.18	5.58	2.82	7.10	9.10	0.81	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	7.38	9.40	12.24	8.50	0.54	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	8.22	14.26	23.28	6.54	0.72	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	8.08	15.02	24.72	5.10	4.26	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	6.82	12.24	18.66	4.26	10.17	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	5.70	8.36	13.69	4.26	10.34	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	5.10	6.12	9.85	3.90	11.88	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	4.38	4.38	9.40	3.42	8.95	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	5.34	2.70	15.63	3.06	5.46	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	7.24	2.10	28.08	3.30	4.26	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	5.22	1.74	28.50	4.62	2.82	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.09	3.54	1.14	21.58	4.38	1.74	0.00	0.00	0.00	0.00		
18	0.00	0.00	1.74	2.34	0.54	16.78	4.02	1.02	0.00	0.00	0.00	0.00		
19	0.00	0.00	1.50	1.62	0.18	14.07	3.66	1.02	0.00	0.00	0.00	0.00		
20	0.00	0.00	1.14	1.74	0.36	14.64	3.42	1.02	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.90	1.26	0.54	18.34	3.06	1.14	0.00	0.00	0.00	0.00		
22	0.00	0.00	3.54	0.90	1.38	15.63	2.46	1.14	0.00	0.00	0.00	0.00		
23	0.00	0.00	10.00	1.26	3.78	12.42	2.22	1.14	0.00	0.00	0.00	0.00		
24	0.00	0.00	1.26	1.14	5.46	9.25	2.82	1.26	0.00	0.00	0.00	0.00		
25	0.00	0.00	1.50	0.63	6.96	8.22	5.70	1.14	0.00	0.00	0.00	0.00		
26	0.00	0.00	1.38	0.90	7.10	8.22	8.65	0.72	0.00	0.00	0.00	0.00		
27	0.00	0.00	1.26	0.18	7.80	8.08	9.25	0.36	0.00	0.00	0.00	0.00		
28	0.00	0.00	4.14	0.27	8.50	7.52	8.36	0.09	0.00	0.00	0.00	0.00		
29	0.00	0.00	8.36	0.45	9.25	7.10	6.82	0.00	0.00	0.00		0.00		
30	0.00	0.00	11.36	0.81	14.64	6.54	5.46	0.09	0.00	0.00		0.00		
31		0.00		2.82	20.58		4.26		0.00	0.00		0.00		
Total	0.00	0.00	51.89	130.59	176.11	414.13	168.76	83.31	1.98	0.00	0.00	0.00	1026.77	CMSDAY
Mean	0.00	0.00	1.73	4.21	5.68	13.80	5.44	2.78	0.06	0.00	0.00	0.00	2.81	CMS
Max	0.00	0.00	11.36	12.60	20.58	28.50	9.25	11.88	0.63	0.00	0.00	0.00	28.50	CMS
Min	0.00	0.00	0.00	0.18	0.18	6.40	2.22	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	4.48	11.28	15.22	35.78	14.58	7.20	0.17	0.00	0.00	0.00	88.71	MCM

Momentary Peak 31.68 CMS. at 205.66 m. (MSL.) at 05.00 Hours , on Sep 16 , 2016

Runoff Yield 6.68 Liters/Second/Square KM. Momentary Peak Yield 75.250 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at Ban Na Wa.

	Ban Na Wa	**Amphoe** Na Wa	**Changwat** Nakhon Phanom
Drainge Area	3,123 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+138.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the footpath of the bridge.		**Elevation** +149.912 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1970 to date		
Rating Operation			
Period of Rating	1970 to date		
Rated by Flot	-		
Rated by Current Meter	1970 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

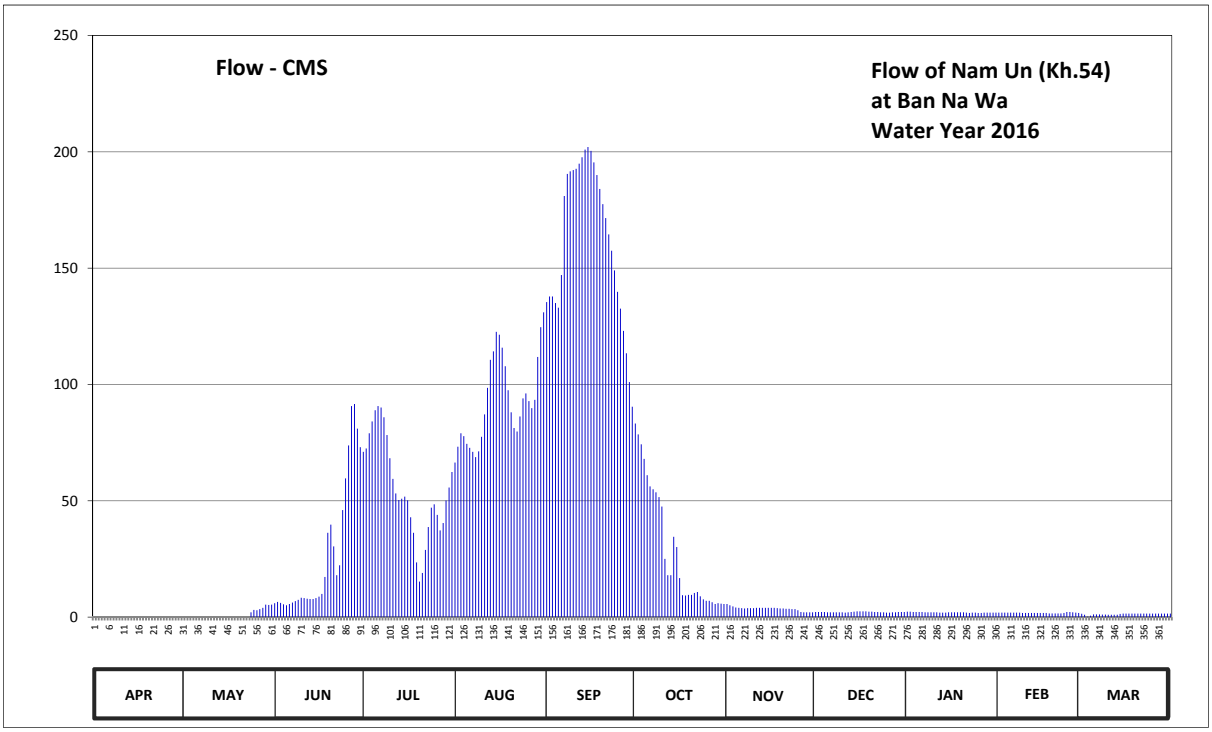
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.06	139.82	140.93	143.76	143.57	145.66	144.24	140.91	140.68	140.69	140.66	140.63	
2	140.05	139.82	140.97	143.82	143.85	145.72	144.06	140.87	140.68	140.69	140.66	140.60	
3	140.03	139.82	140.94	144.08	144.08	145.72	143.89	140.84	140.68	140.68	140.66	140.61	
4	140.02	139.82	140.90	144.27	144.03	145.65	143.64	140.81	140.68	140.68	140.66	140.79	
5	140.00	139.82	140.87	144.43	143.90	145.60	143.30	140.80	140.67	140.68	140.66	141.05	
6	139.99	139.81	140.91	144.49	143.83	145.92	143.01	140.79	140.67	140.68	140.66	141.06	
7	139.98	139.80	140.95	144.47	143.76	146.60	142.93	140.78	140.67	140.67	140.66	141.06	
8	139.95	139.78	140.99	144.33	143.67	146.79	142.84	140.79	140.67	140.67	140.66	141.04	
9	139.91	139.77	141.03	144.05	143.77	146.81	142.66	140.79	140.67	140.67	140.65	141.03	
10	139.88	139.76	141.09	143.65	144.02	146.82	142.45	140.79	140.67	140.67	140.65	141.01	
11	139.86	139.73	141.08	143.22	144.37	146.83	141.80	140.80	140.66	140.67	140.65	141.01	
12	139.85	139.70	141.06	142.81	144.73	146.87	141.56	140.80	140.67	140.66	140.65	141.01	
13	139.85	139.69	141.05	142.53	145.04	146.92	141.56	140.80	140.68	140.66	140.65	141.02	
14	139.83	139.67	141.05	142.59	145.13	146.98	142.10	140.80	140.69	140.66	140.65	141.12	
15	139.80	139.66	141.08	142.68	145.34	147.00	141.97	140.80	140.70	140.67	140.65	141.15	
16	139.78	139.65	141.12	142.52	145.31	146.97	141.51	140.80	140.70	140.67	140.65	141.15	
17	139.76	139.65	141.20	142.34	145.17	146.88	141.16	140.80	140.70	140.67	140.65	141.15	
18	139.75	139.65	141.53	142.15	144.97	146.78	141.15	140.79	140.70	140.67	140.64	141.15	
19	139.73	139.70	142.15	141.75	144.70	146.66	141.17	140.78	140.69	140.67	140.64	141.15	
20	139.71	139.81	142.25	141.45	144.40	146.53	141.17	140.78	140.69	140.67	140.64	141.15	
21	139.70	140.06	141.98	141.60	144.17	146.41	141.22	140.77	140.68	140.66	140.64	141.15	
22	139.70	140.27	141.56	141.93	144.11	146.27	141.24	140.77	140.68	140.65	140.64	141.15	
23	139.69	140.48	141.71	142.22	144.34	146.13	141.13	140.76	140.67	140.66	140.65	141.16	
24	139.72	140.67	142.42	142.44	144.60	145.96	141.04	140.76	140.67	140.66	140.68	141.16	
25	139.72	140.74	143.23	142.47	144.66	145.77	141.00	140.73	140.66	140.65	140.68	141.15	
26	139.72	140.73	143.87	142.37	144.56	145.59	141.00	140.68	140.66	140.65	140.67	141.15	
27	139.73	140.76	144.49	142.18	144.46	145.35	140.96	140.67	140.67	140.66	140.66	141.15	
28	139.74	140.80	144.52	142.27	144.58	145.11	140.91	140.67	140.67	140.66	140.65	141.15	
29	139.76	140.89	144.16	142.51	145.07	144.80	140.93	140.67	140.68	140.66		141.15	
30	139.80	140.88	143.84	142.98	145.39	144.48	140.92	140.67	140.68	140.66		141.15	
31		140.89		143.37	145.55		140.91		140.68	140.66		141.15	
Mean	139.84	140.07	141.83	142.96	144.49	146.19	141.92	140.78	140.68	140.67	140.65	141.05	
Max	140.06	140.89	144.52	144.49	145.55	147.00	144.24	140.91	140.70	140.69	140.68	141.16	147.00
Min	139.69	139.65	140.87	141.45	143.57	144.48	140.91	140.67	140.66	140.65	140.64	140.60	139.65

Annual Max Momentary Gage Height 147.01 m. (MSL.) , at 12.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 138.00 m. (MSL.) , River Bed 138.85 m. (MSL.)

Left Bank Elevation 149.60 m. (MSL.) ,

Right Bank Elevation 149.90 m. (MSL.) , Drainage Are 3123 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	5.95	71.00	66.40	135.40	83.20	5.65	2.20	2.35	1.90	1.45		
2	0.00	0.00	6.55	72.50	73.25	137.80	78.50	5.05	2.20	2.35	1.90	1.00		
3	0.00	0.00	6.10	79.00	79.00	137.80	74.25	4.60	2.20	2.20	1.90	0.22		
4	0.00	0.00	5.50	84.10	77.75	135.00	68.00	4.15	2.20	2.20	1.90	0.58		
5	0.00	0.00	5.05	88.90	74.50	133.00	61.00	4.00	2.05	2.20	1.90	1.15		
6	0.00	0.00	5.65	90.70	72.75	147.00	56.15	3.85	2.05	2.20	1.90	1.18		
7	0.00	0.00	6.25	90.10	71.00	181.00	54.95	3.70	2.05	2.05	1.90	1.18		
8	0.00	0.00	6.85	85.90	68.75	190.50	53.60	3.85	2.05	2.05	1.90	1.12		
9	0.00	0.00	7.45	78.25	71.25	191.55	51.60	3.85	2.05	2.05	1.75	1.09		
10	0.00	0.00	8.35	68.25	77.50	192.10	47.50	3.85	2.05	2.05	1.75	1.03		
11	0.00	0.00	8.20	59.40	87.10	192.65	25.00	4.00	1.90	2.05	1.75	1.03		
12	0.00	0.00	7.90	53.15	98.55	194.85	18.00	4.00	2.05	1.90	1.75	1.03		
13	0.00	0.00	7.75	50.30	110.60	197.60	18.00	4.00	2.20	1.90	1.75	1.06		
14	0.00	0.00	7.75	50.90	114.20	200.90	34.50	4.00	2.35	1.90	1.75	1.38		
15	0.00	0.00	8.20	51.80	122.60	202.00	30.10	4.00	2.50	2.05	1.75	1.50		
16	0.00	0.00	8.80	50.20	121.40	200.35	16.75	4.00	2.50	2.05	1.75	1.50		
17	0.00	0.00	10.00	42.90	115.80	195.40	9.40	4.00	2.50	2.05	1.75	1.50		
18	0.00	0.00	17.25	36.25	107.80	190.00	9.25	3.85	2.50	2.05	1.60	1.50		
19	0.00	0.00	36.25	23.50	97.50	184.00	9.55	3.70	2.35	2.05	1.60	1.50		
20	0.00	0.00	39.75	15.25	88.00	177.50	9.55	3.70	2.35	2.05	1.60	1.50		
21	0.00	0.00	30.40	19.00	81.25	171.50	10.40	3.55	2.20	1.90	1.60	1.50		
22	0.00	0.00	18.00	28.90	79.75	164.50	10.80	3.55	2.20	1.75	1.60	1.50		
23	0.00	0.00	22.30	38.70	86.20	157.50	8.95	3.40	2.05	1.90	1.75	1.54		
24	0.00	2.05	46.00	47.00	94.00	149.00	7.60	3.40	2.05	1.90	2.20	1.54		
25	0.00	3.10	59.60	48.50	96.10	139.80	7.00	2.95	1.90	1.75	2.20	1.50		
26	0.00	2.95	73.75	43.95	92.80	132.60	7.00	2.20	1.90	1.75	2.05	1.50		
27	0.00	3.40	90.70	37.30	89.80	123.00	6.40	2.05	2.05	1.90	1.90	1.50		
28	0.00	4.00	91.60	40.45	93.40	113.40	5.65	2.05	2.05	1.90	1.75	1.50		
29	0.00	5.35	81.00	50.10	111.80	101.00	5.95	2.05	2.20	1.90		1.50		
30	0.00	5.20	73.00	55.70	124.60	90.40	5.80	2.05	2.20	1.90		1.50		
31		5.35		62.40	131.00		5.65		2.20	1.90		1.50		
Total	0.00	31.40	801.90	1714.35	2876.40	4859.10	890.05	109.05	67.30	62.20	50.80	40.08	11502.63	CMSDAY
Mean	0.00	1.01	26.73	55.30	92.79	161.97	28.71	3.64	2.17	2.01	1.81	1.29	31.51	CMS
Max	0.00	5.35	91.60	90.70	131.00	202.00	83.20	5.65	2.50	2.35	2.20	1.54	202.00	CMS
Min	0.00	0.00	5.05	15.25	66.40	90.40	5.65	2.05	1.90	1.75	1.60	0.22	0.00	CMS
Runoff	0.00	2.71	69.28	148.12	248.52	419.83	76.90	9.42	5.81	5.37	4.39	3.46	993.83	MCM

Momentary Peak 202.59 CMS. at 147.01 m. (MSL.) at 12.00 Hours , on Sep 15 , 2016

Runoff Yield 10.09 Liters/Second/Square KM. Momentary Peak Yield 64.870 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at Ban Pak Un.

Ban Pak Un **Amphoe** Si Songkhram **Changwat** Nakhon Phanom

Drainge Area	12,328 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+132.200 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank near the gage site. **Elevation** +147.734 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1976 to date
Rating Operation	
Period of Rating	2013 to date
Rated by Flot	-
Rated by Current Meter	2013 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

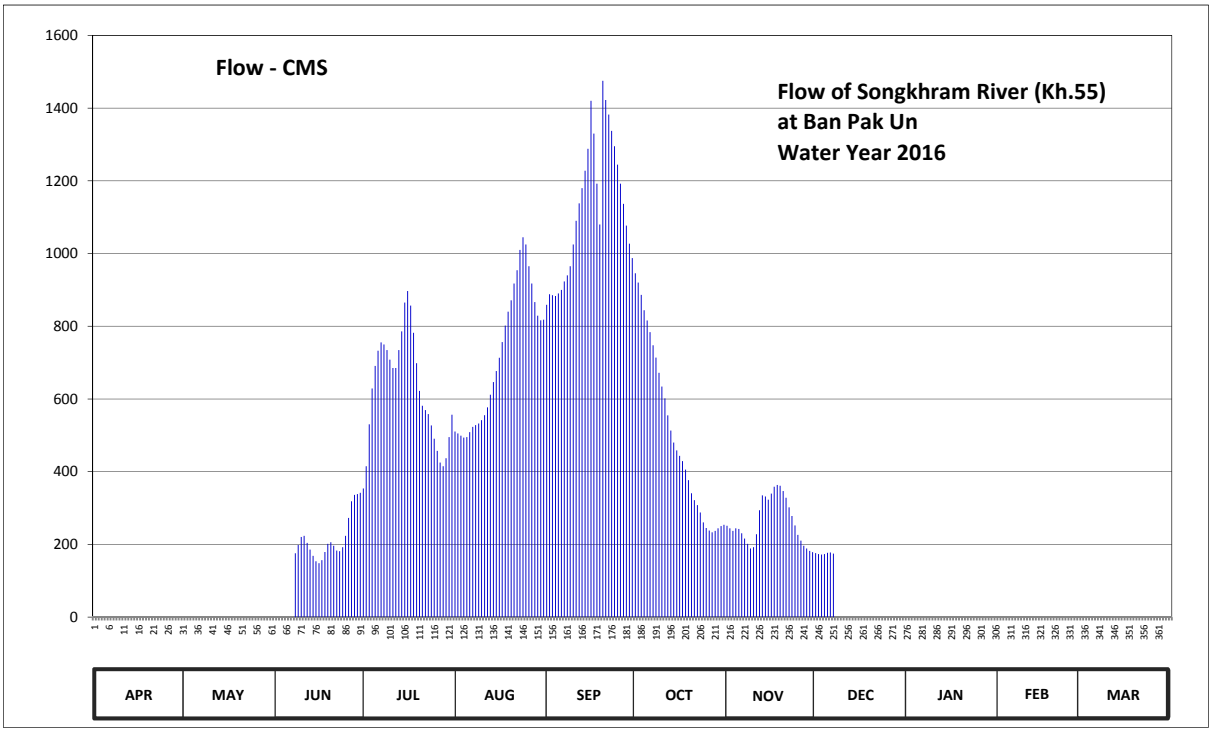
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.23	134.40	135.55	137.95	139.55	143.18	141.48	136.96	136.03	135.42	135.01	135.54	
2	135.21	134.50	135.51	138.46	139.46	143.30	141.36	136.88	135.99	135.48	135.07	135.40	
3	135.13	134.62	135.49	139.27	139.35	143.29	141.20	136.80	135.97	135.51	135.07	135.30	
4	135.03	134.69	135.52	139.87	139.26	143.28	141.00	136.88	135.99	135.51	134.96	135.31	
5	135.00	134.72	135.51	140.21	139.28	143.31	140.86	136.86	136.04	135.47	134.78	135.42	
6	135.04	134.74	135.58	140.43	139.52	143.35	140.70	136.73	136.05	135.45	134.66	135.51	
7	135.08	134.75	135.75	140.55	139.78	143.44	140.51	136.56	136.01	135.43	134.60	135.56	
8	135.12	134.76	136.02	140.52	139.86	143.50	140.33	136.37	135.99	135.43	134.56	135.59	
9	135.12	134.79	136.33	140.44	139.94	143.59	140.11	136.20	136.02	135.41	134.54	135.62	
10	135.13	134.81	136.61	140.30	140.09	143.73	139.90	136.25	136.10	135.38	134.54	135.61	
11	135.16	134.82	136.65	140.18	140.31	143.86	139.71	136.70	136.10	135.39	134.52	135.62	
12	135.16	134.80	136.41	140.18	140.64	143.94	139.43	137.40	135.94	135.45	134.50	135.59	
13	135.16	134.80	136.16	140.44	141.13	144.00	139.16	137.79	135.72	135.53	134.49	135.53	
14	135.15	134.78	135.92	140.71	141.58	144.04	138.94	137.76	135.46	135.63	134.52	135.42	
15	135.13	134.75	135.71	141.10	141.96	144.09	138.79	137.68	135.26	135.67	134.60	135.29	
16	135.12	134.73	135.63	141.25	142.31	144.14	138.68	137.83	135.14	135.63	134.67	135.24	
17	135.10	134.71	135.75	141.06	142.64	144.11	138.57	137.99	135.06	135.49	134.74	135.28	
18	135.08	134.71	136.07	140.69	142.91	144.01	138.38	138.03	134.99	135.36	134.80	135.38	
19	135.06	134.72	136.37	140.25	143.10	143.84	138.14	138.01	134.96	135.26	134.82	135.47	
20	135.05	134.77	136.43	139.83	143.23	143.70	137.84	137.89	135.00	135.22	134.88	135.50	
21	135.03	134.85	136.30	139.59	143.42	143.49	137.67	137.73	135.10	135.21	135.00	135.53	
22	134.88	134.95	136.12	139.52	143.55	143.33	137.54	137.48	135.19	135.09	135.13	135.51	
23	134.72	135.04	136.10	139.45	143.70	143.15	137.34	137.24	135.22	134.97	135.23	135.50	
24	134.55	135.11	136.25	139.25	143.77	142.98	137.06	136.97	135.24	134.87	135.28	135.50	
25	134.41	135.23	136.65	139.01	143.73	142.77	136.89	136.68	135.30	134.78	135.38	135.52	
26	134.35	135.41	137.19	138.78	143.59	142.55	136.81	136.49	135.36	134.74	135.50	135.54	
27	134.33	135.49	137.64	138.54	143.42	142.32	136.76	136.30	135.40	134.74	135.59	135.55	
28	134.36	135.46	137.80	138.46	143.21	142.07	136.80	136.20	135.41	134.74	135.61	135.52	
29	134.37	135.45	137.82	138.63	143.05	141.85	136.88	136.11	135.41	134.80		135.50	
30	134.37	135.52	137.85	139.04	142.99	141.67	136.95	136.06	135.41	134.88		135.50	
31		135.55		139.44	143.00		136.99		135.40	134.94		135.56	
Mean	134.92	134.92	136.29	139.79	141.72	143.33	138.80	137.03	135.56	135.25	134.89	135.48	
Max	135.23	135.55	137.85	141.25	143.77	144.14	141.48	138.03	136.10	135.67	135.61	135.62	144.14
Min	134.33	134.40	135.49	137.95	139.26	141.67	136.76	136.06	134.96	134.74	134.49	135.24	134.33

Annual Max Momentary Gage Height 144.14 m. (MSL.) , at 06.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 132.22 m. (MSL.) , River Bed 131.57 m. (MSL.)

Left Bank Elevation 147.23 m. (MSL.) ,

Right Bank Elevation 147.26 m. (MSL.) , Drainage Are 12328 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	354.00	510.35	859.20	945.76	251.40	176.22	0.00	0.00	0.00	
2	0.00	0.00	0.00	415.20	505.22	888.00	920.32	244.20	173.30	0.00	0.00	0.00	
3	0.00	0.00	0.00	530.35	498.95	885.60	886.40	237.00	171.90	0.00	0.00	0.00	
4	0.00	0.00	0.00	628.90	493.82	883.20	844.00	244.20	173.30	0.00	0.00	0.00	
5	0.00	0.00	0.00	690.90	494.96	890.40	816.00	242.40	176.96	0.00	0.00	0.00	
6	0.00	0.00	0.00	732.70	508.64	900.00	784.00	230.70	177.70	0.00	0.00	0.00	
7	0.00	0.00	0.00	755.50	523.46	923.20	747.90	216.10	174.74	0.00	0.00	0.00	
8	0.00	0.00	175.48	749.80	528.02	940.00	713.70	201.38	0.00	0.00	0.00	0.00	
9	0.00	0.00	198.42	734.60	532.58	965.20	671.90	188.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	220.35	708.00	541.58	1025.00	634.00	192.50	0.00	0.00	0.00	0.00	
11	0.00	0.00	223.75	685.20	555.22	1090.00	601.70	228.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	204.34	685.20	576.80	1138.00	555.15	294.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	185.84	734.60	611.75	1180.00	513.30	334.90	0.00	0.00	0.00	0.00	
14	0.00	0.00	168.40	786.00	646.40	1228.00	480.00	331.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	153.70	865.20	676.80	1287.99	458.60	322.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	148.45	897.00	713.20	1419.99	443.40	339.60	0.00	0.00	0.00	0.00	
17	0.00	0.00	156.50	856.72	756.40	1329.98	429.10	358.80	0.00	0.00	0.00	0.00	
18	0.00	0.00	179.18	782.10	801.80	1192.00	405.60	363.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	201.38	698.50	840.00	1080.00	376.80	361.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	205.82	622.10	871.20	1475.00	340.80	346.80	0.00	0.00	0.00	0.00	
21	0.00	0.00	196.20	581.30	917.60	1422.50	321.70	328.30	0.00	0.00	0.00	0.00	
22	0.00	0.00	182.88	569.40	954.00	1382.50	308.00	302.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	181.40	558.25	1010.00	1337.50	288.00	278.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	192.50	527.25	1045.00	1295.20	260.40	252.30	0.00	0.00	0.00	0.00	
25	0.00	0.00	223.75	490.50	1025.00	1244.80	245.10	226.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	273.00	457.20	965.20	1192.00	237.90	210.26	0.00	0.00	0.00	0.00	
27	0.00	0.00	318.40	425.20	917.60	1136.80	233.40	196.20	0.00	0.00	0.00	0.00	
28	0.00	0.00	336.00	415.20	866.40	1076.80	237.00	188.80	0.00	0.00	0.00	0.00	
29	0.00	0.00	338.40	436.90	829.00	1027.00	244.20	182.14	0.00	0.00		0.00	
30	0.00	0.00	342.00	495.00	816.20	987.40	250.50	178.44	0.00	0.00		0.00	
31		0.00		556.70	818.00		254.10		0.00	0.00		0.00	
Total	0.00	0.00	5006.14	19425.47	22351.15	33683.26	15448.73	7872.72	1224.12	0.00	0.00	0.00	105011.59	CMSDAY
Mean	0.00	0.00	166.87	626.63	721.00	1122.78	498.35	262.42	39.49	0.00	0.00	0.00	287.70	CMS
Max	0.00	0.00	342.00	897.00	1045.00	1475.00	945.76	363.60	177.70	0.00	0.00	0.00	1475.00	CMS
Min	0.00	0.00	0.00	354.00	493.82	859.20	233.40	178.44	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	432.53	1678.36	1931.14	2910.23	1334.77	680.20	105.76	0.00	0.00	0.00	9073.00	MCM

Momentary Peak 1419.99 CMS. at 144.14 m. (MSL.) at 06.00 Hours , on Sep 16 , 2016

Runoff Yield 23.34 Liters/Second/Square KM. Momentary Peak Yield 115.180 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on road.

	Ban Fak Loei	**Amphoe** Mueang	**Changwat** Loei
Drainge Area	3,093 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+229.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank upstream side at the abutment of the bridge.	**Elevation**	+240.440 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1990 to date		
Rated by Flot	-		
Rated by Current Meter	1990 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

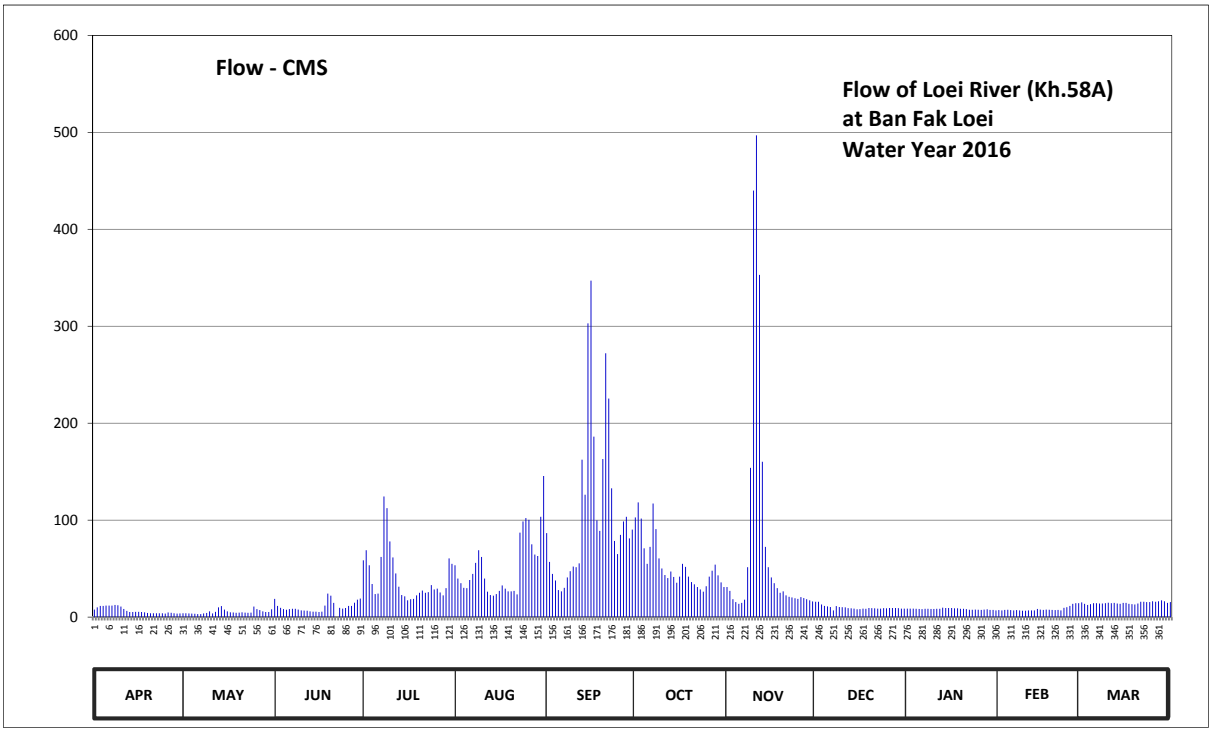
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.14	229.95	230.56	231.57	231.46	232.11	232.38	230.90	230.46	230.19	230.11	230.44	
2	230.25	229.95	230.32	231.78	231.12	231.54	232.64	230.80	230.46	230.19	230.10	230.39	
3	230.32	229.94	230.23	231.46	231.00	231.24	232.36	230.55	230.37	230.19	230.12	230.35	
4	230.32	229.93	230.16	230.98	230.88	231.07	231.82	230.45	230.32	230.18	230.13	230.38	
5	230.33	229.92	230.13	230.72	230.87	230.82	231.50	230.39	230.30	230.17	230.11	230.41	
6	230.33	229.91	230.16	230.73	231.08	230.79	231.85	230.42	230.27	230.16	230.10	230.41	
7	230.33	229.91	230.18	231.64	231.24	230.88	232.62	230.53	230.10	230.18	230.11	230.40	
8	230.35	229.94	230.18	232.74	231.52	231.15	232.18	231.41	230.31	230.18	230.10	230.40	
9	230.34	229.96	230.14	232.54	231.78	231.31	231.61	233.20	230.27	230.17	230.08	230.41	
10	230.29	230.05	230.10	231.96	231.64	231.43	231.38	236.40	230.26	230.17	230.08	230.43	
11	230.17	229.94	230.09	231.63	231.12	231.41	231.21	236.97	230.25	230.18	230.10	230.41	
12	230.07	230.02	230.08	231.25	230.78	231.51	231.13	235.53	230.21	230.18	230.10	230.42	
13	230.01	230.25	230.05	230.91	230.69	233.32	231.30	233.29	230.20	230.24	230.10	230.40	
14	230.01	230.31	230.03	230.69	230.67	232.77	231.16	231.85	230.19	230.22	230.17	230.39	
15	230.02	230.14	230.03	230.65	230.72	235.03	231.01	231.41	230.15	230.22	230.14	230.42	
16	230.02	230.05	230.01	230.51	230.80	235.47	231.17	231.15	230.16	230.22	230.12	230.42	
17	230.01	230.00	230.03	230.55	230.94	233.64	231.50	231.00	230.19	230.20	230.14	230.39	
18	230.00	229.99	230.33	230.56	230.86	232.33	231.42	230.87	230.18	230.20	230.13	230.38	
19	229.96	229.97	230.73	230.68	230.79	232.15	231.17	230.75	230.22	230.18	230.12	230.37	
20	229.95	229.98	230.67	230.75	230.79	233.33	231.03	230.79	230.21	230.18	230.11	230.40	
21	229.95	230.00	230.42	230.81	230.80	234.69	230.97	230.68	230.20	230.16	230.12	230.46	
22	229.95	229.98		230.75	230.71	234.13	230.90	230.63	230.19	230.13	230.10	230.46	
23	229.95	229.97	230.23	230.77	232.12	232.88	230.84	230.61	230.19	230.13	230.23	230.45	
24	229.95	229.98	230.19	230.95	232.31	231.97	230.78	230.58	230.21	230.14	230.26	230.45	
25	229.93	230.29	230.22	230.84	232.37	231.70	230.92	230.56	230.20	230.13	230.32	230.48	
26	229.99	230.16	230.32	230.86	232.34	232.08	231.17	230.62	230.22	230.12	230.39	230.46	
27	229.97	230.11	230.32	230.76	231.90	232.31	231.32	230.59	230.22	230.14	230.41	230.48	
28	229.95	230.05	230.43	230.68	231.69	232.39	231.48	230.55	230.22	230.15	230.41	230.51	
29	229.93	230.01	230.53	230.87	231.66	232.02	231.20	230.51	230.21	230.12		230.48	
30	229.94	230.01	230.57	231.61	232.39	232.17	231.02	230.47	230.19	230.12		230.42	
31		230.15		231.50	233.08		230.90		230.19	230.10		230.45	
Mean	230.09	230.03	230.26	231.12	231.36	232.32	231.42	231.48	230.24	230.17	230.16	230.42	
Max	230.35	230.31	230.73	232.74	233.08	235.47	232.64	236.97	230.46	230.24	230.41	230.51	236.97
Min	229.93	229.91	230.01	230.51	230.67	230.79	230.78	230.39	230.10	230.10	230.08	230.35	229.91

Annual Max Momentary Gage Height 237.19 m. (MSL.) , at 06.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 229.00 m. (MSL.) , River Bed 229.38 m. (MSL.)

Left Bank Elevation 240.56 m. (MSL.) ,

Right Bank Elevation 240.47 m. (MSL.) , Drainage Are 3093 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	4.00	18.80	58.50	53.40	86.60	102.80	31.00	15.80	8.80	7.20	15.20	
2	10.00	4.00	11.60	69.00	39.80	57.00	118.40	27.00	15.80	8.80	7.00	13.70	
3	11.60	3.80	9.60	53.40	35.00	44.60	101.60	18.50	13.10	8.80	7.40	12.50	
4	11.60	3.60	8.20	34.20	30.20	37.80	71.00	15.50	11.60	8.60	7.60	13.40	
5	11.90	3.40	7.60	23.80	29.80	27.80	55.00	13.70	11.00	8.40	7.20	14.30	
6	11.90	3.20	8.20	24.20	38.20	26.60	72.50	14.60	10.40	8.20	7.00	14.30	
7	11.90	3.20	8.60	62.00	44.60	30.20	117.20	17.90	7.00	8.60	7.20	14.00	
8	12.50	3.80	8.60	124.40	56.00	41.00	90.80	51.40	11.30	8.60	7.00	14.00	
9	12.20	4.20	7.80	112.40	69.00	47.40	60.50	154.00	10.40	8.40	6.60	14.30	
10	10.80	6.00	7.00	78.00	62.00	52.20	50.20	440.00	10.20	8.40	6.60	14.90	
11	8.40	3.80	6.80	61.50	39.80	51.40	43.40	497.00	10.00	8.60	7.00	14.30	
12	6.40	5.40	6.60	45.00	26.20	55.50	40.20	353.00	9.20	8.60	7.00	14.60	
13	5.20	10.00	6.00	31.40	22.70	162.40	47.00	160.30	9.00	9.80	7.00	14.00	
14	5.20	11.30	5.60	22.70	22.10	126.20	41.40	72.50	8.80	9.40	8.40	13.70	
15	5.40	7.80	5.60	21.50	23.80	303.00	35.40	51.40	8.00	9.40	7.80	14.60	
16	5.40	6.00	5.20	17.30	27.00	347.00	41.80	41.00	8.20	9.40	7.40	14.60	
17	5.20	5.00	5.60	18.50	32.60	186.20	55.00	35.00	8.80	9.00	7.80	13.70	
18	5.00	4.80	11.90	18.80	29.40	99.80	51.80	29.80	8.60	9.00	7.60	13.40	
19	4.20	4.40	24.20	22.40	26.60	89.00	41.80	25.00	9.40	8.60	7.40	13.10	
20	4.00	4.60	22.10	25.00	26.60	163.10	36.20	26.60	9.20	8.60	7.20	14.00	
21	4.00	5.00	14.60	27.40	27.00	272.10	33.80	22.40	9.00	8.20	7.40	15.80	
22	4.00	4.60		25.00	23.40	225.40	31.00	20.90	8.80	7.60	7.00	15.80	
23	4.00	4.40	9.60	25.80	87.20	132.80	28.60	20.30	8.80	7.60	9.60	15.50	
24	4.00	4.60	8.80	33.00	98.60	78.50	26.20	19.40	9.20	7.80	10.20	15.50	
25	3.60	10.80	9.40	28.60	102.20	65.00	31.80	18.80	9.00	7.60	11.60	16.40	
26	4.80	8.20	11.60	29.40	100.40	84.80	41.80	20.60	9.40	7.40	13.70	15.80	
27	4.40	7.20	11.60	25.40	75.00	98.60	47.80	19.70	9.40	7.80	14.30	16.40	
28	4.00	6.00	14.90	22.40	64.50	103.40	54.20	18.50	9.40	8.00	14.30	17.30	
29	3.60	5.20	17.90	29.80	63.00	81.20	43.00	17.30	9.20	7.40		16.40	
30	3.80	5.20	19.10	60.50	103.40	90.20	35.80	16.10	8.80	7.40		14.60	
31		8.00		55.00	145.60		31.00		8.80	7.00		15.50	
Total	206.80	171.50	313.10	1286.30	1625.10	3266.80	1679.00	2269.20	305.60	259.80	233.50	455.60	12072.30	CMSDAY
Mean	6.89	5.53	10.80	41.49	52.42	108.89	54.16	75.64	9.86	8.38	8.34	14.70	33.17	CMS
Max	12.50	11.30	24.20	124.40	145.60	347.00	118.40	497.00	15.80	9.80	14.30	17.30	497.00	CMS
Min	3.60	3.20	5.20	17.30	22.10	26.60	26.20	13.70	7.00	7.00	6.60	12.50	3.20	CMS
Runoff	17.87	14.82	27.05	111.14	140.41	282.25	145.07	196.06	26.40	22.45	20.17	39.36	1043.05	MCM

Momentary Peak 520.90 CMS. at 237.19 m. (MSL.) at 06.00 Hours , on Nov 11 , 2016

Runoff Yield 10.69 Liters/Second/Square KM. Momentary Peak Yield 168.410 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Keng Bong	**Amphoe** Phu Luang	**Changwat** Loei
Drainge Area	549 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+258.400 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank downstream side at the footpath of the bridge.	**Elevation**	+272.020 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1982 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

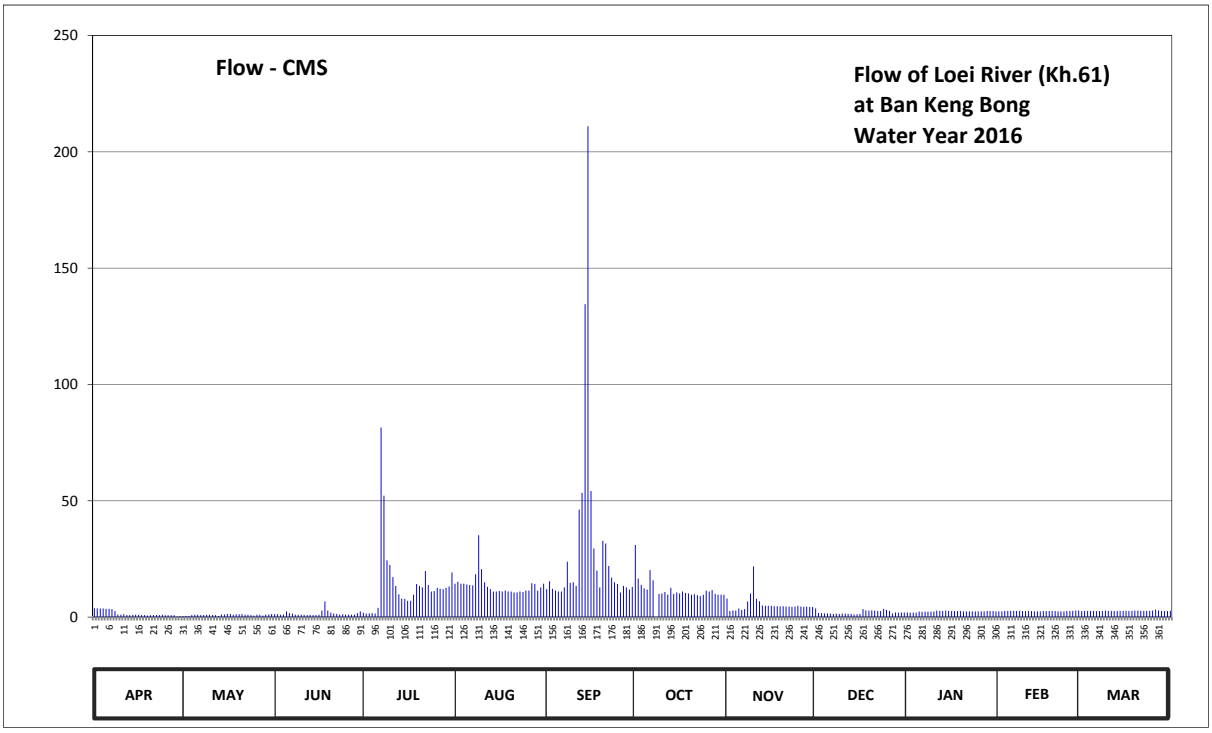
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.98	258.64	258.73	258.79	259.67	259.55	260.40	259.35	258.97	258.80	258.85	258.86	
2	258.98	258.65	258.72	258.75	259.71	259.72	259.78	258.86	258.78	258.79	258.85	258.87	
3	258.97	258.65	258.70	258.76	259.67	259.56	259.64	258.88	258.77	258.79	258.87	258.87	
4	258.97	258.69	258.71	258.77	259.67	259.52	259.57	258.88	258.76	258.79	258.87	258.87	
5	258.96	258.70	258.85	258.75	259.65	259.50	259.54	258.97	258.76	258.84	258.87	258.87	
6	258.96	258.70	258.77	259.00	259.64	259.50	259.96	258.91	258.75	258.83	258.87	258.86	
7	258.94	258.69	258.75	261.63	259.63	259.59	259.74	258.94	258.74	258.83	258.87	258.86	
8	258.86	258.69	258.70	260.98	259.87	260.14		259.27	258.75	258.83	258.87	258.87	
9	258.71	258.70	258.70	260.17	260.54	259.69	259.45	259.46	258.74	258.83	258.86	258.88	
10	258.70	258.70	258.70	260.07	259.98	259.70	259.46	260.04	258.75	258.84	258.86	258.87	
11	258.72	258.69	258.70	259.81	259.70	259.62	259.49	259.34	258.75	258.88	258.86	258.87	
12	258.69	258.68	258.69	259.62	259.60	260.83	259.43	259.28	258.74	258.87	258.86	258.86	
13	258.69	258.65	258.70	259.44	259.55	261.01	259.58	259.10	258.74	258.86	258.85	258.86	
14	258.70	258.71	258.69	259.35	259.50	262.45	259.45	259.09	258.71	258.88	258.85	258.87	
15	258.70	258.71	258.69	259.34	259.50	263.35	259.48	259.09	258.72	258.86	258.85	258.87	
16	258.70	258.74	258.70	259.30	259.51	261.03	259.46	259.09	258.74	258.86	258.86	258.87	
17	258.69	258.73	258.88	259.30	259.50	260.35	259.50	259.07	258.94	258.86	258.86	258.87	
18	258.69	258.70	259.27	259.43	259.52	259.95	259.47	259.07	258.89	258.86	258.86	258.87	
19	258.67	258.72	258.88	259.66	259.50	259.59	259.46	259.06	258.88	258.86	258.86	258.88	
20	258.68	258.72	258.79	259.62	259.50	260.46	259.43	259.07	258.89	258.85	258.86	258.88	
21	258.69	258.73	258.75	259.59	259.48	260.42	259.44	259.05	258.88	258.85	258.85	258.87	
22	258.69	258.70	258.74	259.94	259.48	260.05	259.42	259.05	258.86	258.85	258.85	258.87	
23	258.69	258.70	258.71	259.64	259.50	259.80	259.40	259.04	258.86	258.85	258.85	258.87	
24	258.70	258.69	258.72	259.50	259.49	259.70	259.43	259.05	258.96	258.85	258.86	258.87	
25	258.68	258.67	258.71	259.51	259.52	259.66	259.52	259.09	258.91	258.85	258.86	258.88	
26	258.68	258.70	258.71	259.58	259.52	259.48	259.50	259.05	258.87	258.85	258.87	258.92	
27	258.68	258.70	258.70	259.56	259.68	259.62	259.53	259.04	258.76	258.85	258.88	258.89	
28	258.68	258.67	258.71	259.55	259.66	259.59	259.45	259.05	258.80	258.86	258.88	258.87	
29	258.62	258.71	258.77	259.58	259.52	259.54	259.43	259.04	258.79	258.86		258.86	
30	258.64	258.71	258.85	259.61	259.59	259.60	259.43	259.03	258.80	258.86		258.86	
31		258.73		259.91	259.67		259.43		258.80	258.85		258.87	
Mean	258.76	258.70	258.76	259.56	259.63	260.09	259.54	259.11	258.81	258.84	258.86	258.87	
Max	258.98	258.74	259.27	261.63	260.54	263.35	260.40	260.04	258.97	258.88	258.88	258.92	263.35
Min	258.62	258.64	258.69	258.75	259.48	259.48	259.40	258.86	258.71	258.79	258.85	258.86	258.62

Annual Max Momentary Gage Height 264.30 m. (MSL.) , at 01.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 258.40 m. (MSL.) , River Bed 258.08 m. (MSL.)

Left Bank Elevation 271.92 m. (MSL.) ,

Right Bank Elevation 271.81 m. (MSL.) , Drainage Are 549 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	0.40	1.30	1.90	14.40	12.00	31.00	8.00	3.70	2.00	2.50	2.60		
2	3.80	0.50	1.20	1.50	15.20	15.40	16.60	2.60	1.80	1.90	2.50	2.70		
3	3.70	0.50	1.00	1.60	14.40	12.20	13.80	2.80	1.70	1.90	2.70	2.70		
4	3.70	0.90	1.10	1.70	14.40	11.40	12.40	2.80	1.60	1.90	2.70	2.70		
5	3.60	1.00	2.50	1.50	14.00	11.00	11.80	3.70	1.60	2.40	2.70	2.70		
6	3.60	1.00	1.70	4.00	13.80	11.00	20.20	3.10	1.50	2.30	2.70	2.60		
7	3.40	0.90	1.50	81.50	13.60	12.80	15.80	3.40	1.40	2.30	2.70	2.60		
8	2.60	0.90	1.00	52.20	18.40	23.80		6.70	1.50	2.30	2.70	2.70		
9	1.10	1.00	1.00	24.40	35.20	14.80	10.00	10.20	1.40	2.30	2.60	2.80		
10	1.00	1.00	1.00	22.40	20.60	15.00	10.20	21.80	1.50	2.40	2.60	2.70		
11	1.20	0.90	1.00	17.20	15.00	13.40	10.80	7.80	1.50	2.80	2.60	2.70		
12	0.90	0.80	0.90	13.40	13.00	46.20	9.60	6.80	1.40	2.70	2.60	2.60		
13	0.90	0.50	1.00	9.80	12.00	53.40	12.60	5.00	1.40	2.60	2.50	2.60		
14	1.00	1.10	0.90	8.00	11.00	134.50	10.00	4.90	1.10	2.80	2.50	2.70		
15	1.00	1.10	0.90	7.80	11.00	211.00	10.60	4.90	1.20	2.60	2.50	2.70		
16	1.00	1.40	1.00	7.00	11.20	54.20	10.20	4.90	1.40	2.60	2.60	2.70		
17	0.90	1.30	2.80	7.00	11.00	29.50	11.00	4.70	3.40	2.60	2.60	2.70		
18	0.90	1.00	6.70	9.60	11.40	20.00	10.40	4.70	2.90	2.60	2.60	2.70		
19	0.70	1.20	2.80	14.20	11.00	12.80	10.20	4.60	2.80	2.60	2.60	2.80		
20	0.80	1.20	1.90	13.40	11.00	32.80	9.60	4.70	2.90	2.50	2.60	2.80		
21	0.90	1.30	1.50	12.80	10.60	31.60	9.80	4.50	2.80	2.50	2.50	2.70		
22	0.90	1.00	1.40	19.80	10.60	22.00	9.40	4.50	2.60	2.50	2.50	2.70		
23	0.90	1.00	1.10	13.80	11.00	17.00	9.00	4.40	2.60	2.50	2.50	2.70		
24	1.00	0.90	1.20	11.00	10.80	15.00	9.60	4.50	3.60	2.50	2.60	2.70		
25	0.80	0.70	1.10	11.20	11.40	14.20	11.40	4.90	3.10	2.50	2.60	2.80		
26	0.80	1.00	1.10	12.60	11.40	10.60	11.00	4.50	2.70	2.50	2.70	3.20		
27	0.80	1.00	1.00	12.20	14.60	13.40	11.60	4.40	1.60	2.50	2.80	2.90		
28	0.80	0.70	1.10	12.00	14.20	12.80	10.00	4.50	2.00	2.60	2.80	2.70		
29	0.20	1.10	1.70	12.60	11.40	11.80	9.60	4.40	1.90	2.60		2.60		
30	0.40	1.10	2.50	13.20	12.80	13.00	9.60	4.30	2.00	2.60		2.60		
31		1.30		19.20	14.40		9.60		2.00	2.50		2.70		
Total	47.10	29.70	46.90	450.50	424.80	908.60	357.40	163.00	64.60	75.90	73.10	84.10	2725.70	CMSDAY
Mean	1.57	0.96	1.56	14.53	13.70	30.29	11.91	5.43	2.08	2.45	2.61	2.71	7.49	CMS
Max	3.80	1.40	6.70	81.50	35.20	211.00	31.00	21.80	3.70	2.80	2.80	3.20	211.00	CMS
Min	0.20	0.40	0.90	1.50	10.60	10.60	9.00	2.60	1.10	1.90	2.50	2.60	0.20	CMS
Runoff	4.07	2.57	4.05	38.92	36.70	78.50	30.88	14.08	5.58	6.56	6.32	7.27	235.50	MCM

Momentary Peak 332.00 CMS. at 264.30 m. (MSL.) at 01.00 Hours , on Sep 15 , 2016

Runoff Yield 13.60 Liters/Second/Square KM. Momentary Peak Yield 604.740 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Mae Kham Lak Chet **Amphoe** Mae Chan **Changwat** Chiang Rai
Drainge Area	667 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+393.400 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank about 20 meters from the top staff gage. **Elevation** +399.176 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Flot	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the bridge of Chiang Rai - Mae Sai Highway construction. Stage-discharge relation defined by 38 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

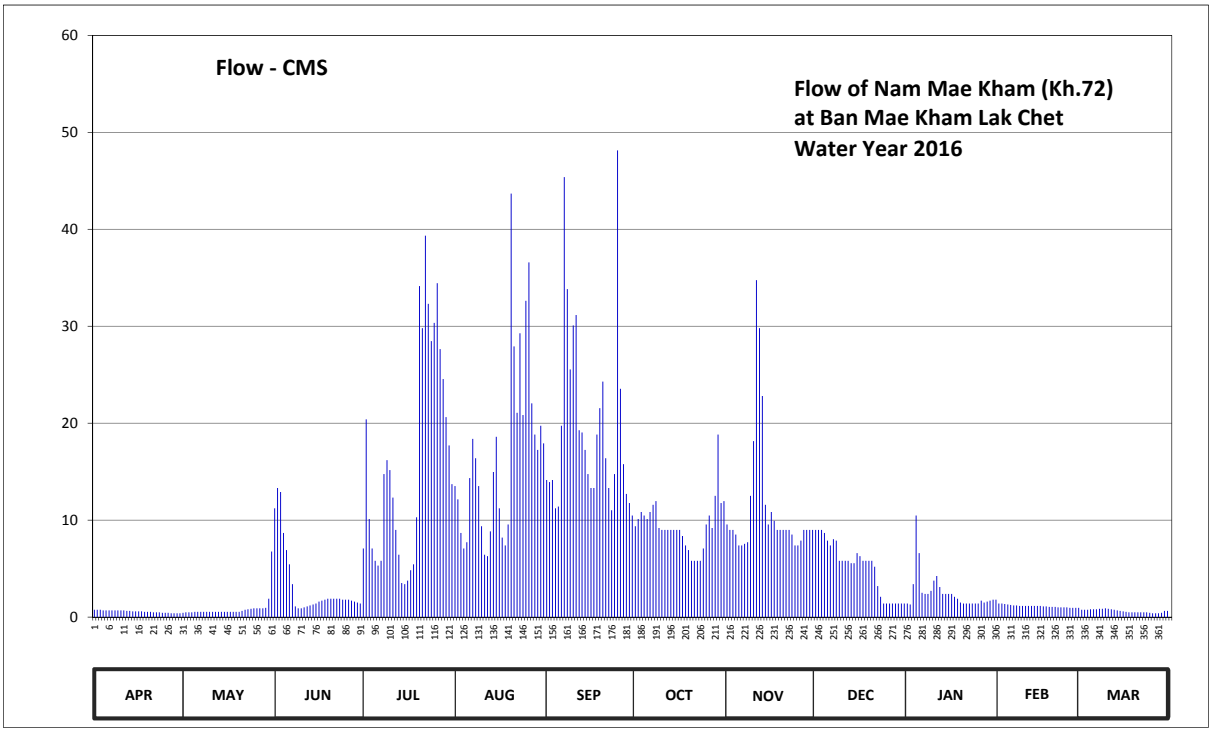
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	393.67	393.61	394.52	394.28	394.64	394.67	394.42	394.43	394.40	393.80	393.80	393.67	
2	393.67	393.62	394.63	394.96	394.57	394.66	394.46	394.40	394.40	393.78	393.80	393.67	
3	393.67	393.62	394.61	394.46	394.38	394.67	394.50	394.40	394.40	394.00	393.79	393.67	
4	393.66	393.62	394.38	394.28	394.28	394.52	394.48	394.37	394.38	394.48	393.78	393.68	
5	393.66	393.63	394.27	394.20	394.32	394.53	394.46	394.30	394.33	394.25	393.77	393.68	
6	393.66	393.63	394.17	394.16	394.68	394.93	394.50	394.30	394.30	393.91	393.76	393.68	
7	393.66	393.63	394.00	394.20	394.87	395.84	394.54	394.31	394.34	393.90	393.76	393.69	
8	393.66	393.63	393.74	394.70	394.78	395.47	394.56	394.32	394.33	393.90	393.75	393.69	
9	393.66	393.63	393.70	394.77	394.64	395.17	394.41	394.59	394.20	393.93	393.75	393.70	
10	393.66	393.63	393.70	394.72	394.42	395.34	394.40	394.86	394.20	394.03	393.75	393.69	
11	393.66	393.63	393.72	394.58	394.24	395.38	394.40	395.50	394.20	394.07	393.75	393.68	
12	393.65	393.63	393.74	394.40	394.23	394.91	394.40	395.33	394.20	393.97	393.75	393.67	
13	393.65	393.63	393.76	394.24	394.39	394.90	394.40	395.06	394.18	393.90	393.75	393.66	
14	393.64	393.63	393.78	394.01	394.71	394.82	394.40	394.54	394.18	393.90	393.75	393.65	
15	393.64	393.63	393.80	394.00	394.88	394.70	394.40	394.43	394.25	393.90	393.75	393.64	
16	393.64	393.63	393.82	394.03	394.52	394.63	394.40	394.50	394.23	393.90	393.74	393.63	
17	393.64	393.63	393.83	394.12	394.35	394.63	394.36	394.45	394.20	393.87	393.74	393.62	
18	393.63	393.63	393.84	394.17	394.30	394.89	394.30	394.40	394.20	393.85	393.73	393.62	
19	393.63	393.63	393.85	394.47	394.43	395.01	394.27	394.40	394.20	393.81	393.73	393.62	
20	393.63	393.63	393.85	395.48	395.79	395.12	394.20	394.40	394.20	393.80	393.73	393.62	
21	393.62	393.65	393.85	395.33	395.26	394.78	394.20	394.40	394.15	393.80	393.72	393.62	
22	393.62	393.67	393.85	395.65	394.99	394.63	394.20	394.40	393.98	393.80	393.72	393.62	
23	393.62	393.68	393.85	395.42	395.31	394.51	394.20	394.37	393.87	393.80	393.72	393.62	
24	393.61	393.69	393.84	395.28	394.98	394.70	394.28	394.30	393.80	393.80	393.72	393.61	
25	393.61	393.70	393.84	395.35	395.43	395.92	394.43	394.30	393.80	393.80	393.71	393.60	
26	393.61	393.70	393.84	395.49	395.56	395.09	394.48	394.33	393.80	393.83	393.71	393.60	
27	393.60	393.70	393.83	395.25	395.03	394.75	394.41	394.40	393.80	393.81	393.71	393.60	
28	393.60	393.70	393.82	395.13	394.89	394.60	394.59	394.40	393.80	393.82	393.71	393.61	
29	393.60	393.71	393.81	394.97	394.82	394.55	394.89	394.40	393.80	393.83		393.65	
30	393.60	393.85	393.80	394.84	394.93	394.48	394.55	394.40	393.80	393.84		393.65	
31		394.26		394.65	394.85		394.56		393.80	393.84			
Mean	393.64	393.67	393.93	394.70	394.76	394.89	394.42	394.50	394.12	393.90	393.74	393.65	
Max	393.67	394.26	394.63	395.65	395.79	395.92	394.89	395.50	394.40	394.48	393.80	393.70	395.92
Min	393.60	393.61	393.70	394.00	394.23	394.48	394.20	394.30	393.80	393.78	393.71	393.60	393.60

Annual Max Momentary Gage Height 396.90 m. (MSL.) , at 15.00 Hours , on Sep 25 , 2016

Zero Gage at Bottom Elevation 393.40 m. (MSL.) , River Bed 393.50 m. (MSL.)

Left Bank Elevation 399.73 m. (MSL.) ,

Right Bank Elevation 399.71 m. (MSL.) , Drainage Are 667 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.45	11.22	7.08	13.52	14.14	9.37	9.56	9.00	1.40	1.40	0.75	
2	0.75	0.50	13.31	20.40	12.14	13.93	10.11	9.00	9.00	1.30	1.40	0.75	
3	0.75	0.50	12.90	10.11	8.68	14.14	10.85	9.00	9.00	3.40	1.35	0.75	
4	0.70	0.50	8.68	7.08	7.08	11.22	10.48	8.52	8.68	10.48	1.30	0.80	
5	0.70	0.55	6.92	5.80	7.72	11.40	10.11	7.40	7.88	6.60	1.25	0.80	
6	0.70	0.55	5.44	5.32	14.34	19.73	10.85	7.40	7.40	2.50	1.20	0.80	
7	0.70	0.55	3.40	5.80	18.38	45.38	11.59	7.56	8.04	2.40	1.20	0.85	
8	0.70	0.55	1.10	14.75	16.39	33.84	11.96	7.72	7.88	2.40	1.15	0.85	
9	0.70	0.55	0.90	16.19	13.52	25.55	9.19	12.51	5.80	2.70	1.15	0.90	
10	0.70	0.55	0.90	15.16	9.37	30.08	9.00	18.15	5.80	3.76	1.15	0.85	
11	0.70	0.55	1.00	12.33	6.44	31.16	9.00	34.75	5.80	4.24	1.15	0.80	
12	0.65	0.55	1.10	9.00	6.28	19.28	9.00	29.81	5.80	3.10	1.15	0.75	
13	0.65	0.55	1.20	6.44	8.84	19.05	9.00	22.80	5.56	2.40	1.15	0.70	
14	0.60	0.55	1.30	3.52	14.96	17.25	9.00	11.59	5.56	2.40	1.15	0.65	
15	0.60	0.55	1.40	3.40	18.60	14.75	9.00	9.56	6.60	2.40	1.15	0.60	
16	0.60	0.55	1.60	3.76	11.22	13.31	9.00	10.85	6.28	2.40	1.10	0.55	
17	0.60	0.55	1.70	4.84	8.20	13.31	8.36	9.93	5.80	2.10	1.10	0.50	
18	0.55	0.55	1.80	5.44	7.40	18.83	7.40	9.00	5.80	1.90	1.05	0.50	
19	0.55	0.55	1.90	10.30	9.56	21.55	6.92	9.00	5.80	1.50	1.05	0.50	
20	0.55	0.55	1.90	34.14	43.69	24.30	5.80	9.00	5.80	1.40	1.05	0.50	
21	0.50	0.65	1.90	29.81	27.92	16.39	5.80	9.00	5.20	1.40	1.00	0.50	
22	0.50	0.75	1.90	39.35	21.08	13.31	5.80	9.00	3.20	1.40	1.00	0.50	
23	0.50	0.80	1.90	32.31	29.27	11.03	5.80	8.52	2.10	1.40	1.00	0.50	
24	0.45	0.85	1.80	28.46	20.85	14.75	7.08	7.40	1.40	1.40	1.00	0.45	
25	0.45	0.90	1.80	30.35	32.62	48.14	9.56	7.40	1.40	1.40	0.95	0.40	
26	0.45	0.90	1.80	34.45	36.58	23.55	10.48	7.88	1.40	1.70	0.95	0.40	
27	0.40	0.90	1.70	27.65	22.05	15.78	9.19	9.00	1.40	1.50	0.95	0.40	
28	0.40	0.90	1.60	24.55	18.83	12.70	12.51	9.00	1.40	1.60	0.95	0.45	
29	0.40	0.95	1.50	20.63	17.25	11.77	18.83	9.00	1.40	1.70		0.65	
30	0.40	1.90	1.40	17.70	19.73	10.48	11.77	9.00	1.40	1.80		0.65	
31		6.76		13.72	17.93		11.96		1.40	1.80			
Total	17.65	27.01	96.97	499.84	520.44	590.10	294.77	338.31	158.98	77.88	31.45	19.05	2672.45 CMSDAY
Mean	0.59	0.87	3.23	16.12	16.79	19.67	9.51	11.28	5.13	2.51	1.12	0.63	7.34 CMS
Max	0.75	6.76	13.31	39.35	43.69	48.14	18.83	34.75	9.00	10.48	1.40	0.90	48.14 CMS
Min	0.40	0.45	0.90	3.40	6.28	10.48	5.80	7.40	1.40	1.30	0.95	0.40	0.40 CMS
Runoff	1.52	2.33	8.38	43.19	44.97	50.98	25.47	29.23	13.74	6.73	2.72	1.65	230.90 MCM

Momentary Peak 83.60 CMS. at 396.90 m. (MSL.) at 15.00 Hours , on Sep 25 , 2016

Runoff Yield 10.98 Liters/Second/Square KM. Momentary Peak Yield 125.340 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at Ban Tha Huai Lua.

	Ban Tha Huai Lua	**Amphoe** Ban Muang	**Changwat** Sakon Nakhon
Drainge Area	2,199 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+144.800 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+156.483 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

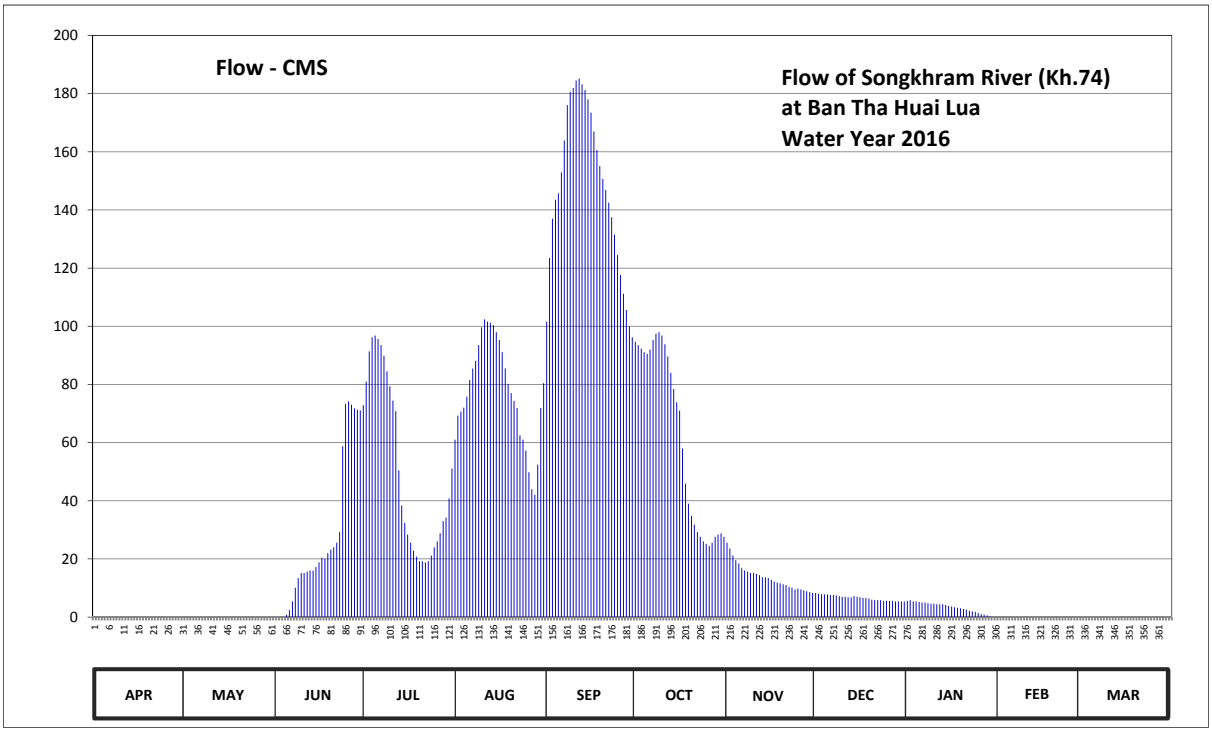
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.78	148.69	149.07	151.09	150.68	152.29	152.09	150.09	149.61	149.48	149.17	148.94	
2	148.79	148.71	149.08	151.60	150.79	152.81	152.05	150.04	149.60	149.49	149.16	148.93	
3	148.79	148.71	149.12	151.98	150.87	153.08	152.01	149.98	149.59	149.47	149.15	148.93	
4	148.80	148.70	149.19	152.14	151.00	153.21	151.97	149.94	149.59	149.47	149.14	148.92	
5	148.80	148.70	149.24	152.16	151.32	153.25	151.95	149.91	149.59	149.46	149.13	148.92	
6	148.79	148.71	149.32	152.12	151.62	153.38	152.00	149.87	149.58	149.45	149.12	148.91	
7	148.78	148.71	149.47	152.05	151.78	153.58	152.11	149.85	149.58	149.45	149.10	148.91	
8	148.77	148.70	149.67	151.93	151.87	153.77	152.18	149.84	149.57	149.44	149.09	148.90	
9	148.75	148.69	149.78	151.74	152.05	153.84	152.20	149.83	149.56	149.43	149.07	148.90	
10	148.73	148.68	149.83	151.52	152.24	153.86	152.16	149.83	149.55	149.43	149.05	148.90	
11	148.72	148.67	149.83	151.23	152.31	153.90	152.06	149.82	149.55	149.42	149.05	148.89	
12	148.71	148.69	149.84	150.88	152.29	153.91	151.92	149.81	149.54	149.42	149.04	148.88	
13	148.70	148.71	149.85	150.53	152.28	153.88	151.72	149.79	149.54	149.42	149.03	148.87	
14	148.69	148.71	149.85	150.34	152.26	153.85	151.47	149.79	149.56	149.41	149.03	148.86	
15	148.68	148.71	149.88	150.24	152.20	153.80	151.19	149.78	149.55	149.39	149.02	148.85	
16	148.67	148.71	149.92	150.16	152.11	153.73	150.90	149.76	149.54	149.38	149.00	148.83	
17	148.67	148.70	149.96	150.09	151.97	153.63	150.64	149.74	149.53	149.37	148.99	148.82	
18	148.65	148.70	149.95	150.02	151.78	153.52	150.46	149.73	149.53	149.36	148.98	148.84	
19	148.63	148.70	150.00	149.97	151.56	153.42	150.35	149.72	149.52	149.35	148.97	148.84	
20	148.63	148.70	150.03	149.93	151.40	153.34	150.28	149.71	149.50	149.34	148.96	148.86	
21	148.65	148.70	150.05	149.93	151.22	153.27	150.23	149.70	149.49	149.33	148.95	148.90	
22	148.65	148.69	150.09	149.92	150.99	153.19	150.18	149.68	149.49	149.31	148.94	148.88	
23	148.65	148.69	150.18	149.93	150.70	153.09	150.14	149.67	149.49	149.30	148.92	148.88	
24	148.65	148.70	150.65	149.98	150.68	152.97	150.10	149.65	149.48	149.29	148.91	148.87	
25	148.65	148.73	151.12	150.05	150.63	152.83	150.08	149.66	149.48	149.27	148.94	148.88	
26	148.65	148.74	151.21	150.10	150.52	152.68	150.06	149.65	149.48	149.25	148.95	148.88	
27	148.65	148.83	151.10	150.17	150.43	152.53	150.09	149.64	149.48	149.24	148.95	148.88	
28	148.65	148.85	150.98	150.25	150.40	152.39	150.14	149.63	149.47	149.23	148.95	148.88	
29	148.66	148.89	150.93	150.27	150.56	152.25	150.16	149.62	149.47	149.21		148.87	
30	148.69	148.97	150.91	150.38	150.99	152.14	150.17	149.61	149.47	149.19		148.85	
31		149.05		150.54	151.57		150.14		149.47	149.17		148.87	
Mean	148.70	148.74	150.00	150.75	151.39	153.25	151.07	149.78	149.53	149.36	149.03	148.88	
Max	148.80	149.05	151.21	152.16	152.31	153.91	152.20	150.09	149.61	149.49	149.17	148.94	153.91
Min	148.63	148.67	149.07	149.92	150.40	152.14	150.06	149.61	149.47	149.17	148.91	148.82	148.63

Annual Max Momentary Gage Height 153.92 m. (MSL.) , at 18.00 Hours , on Sep 11 , 2016

Zero Gage at Bottom Elevation 144.80 m. (MSL.) , River Bed 144.86 m. (MSL.)

Left Bank Elevation 156.29 m. (MSL.) ,

Right Bank Elevation 156.42 m. (MSL.) , Drainage Are 2199 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	72.90	61.00	101.60	94.70	25.60	8.30	5.60	0.00	0.00	
2	0.00	0.00	0.00	81.00	69.25	123.50	93.50	23.60	8.00	5.80	0.00	0.00	
3	0.00	0.00	0.00	91.40	70.70	137.00	92.30	21.20	7.80	5.40	0.00	0.00	
4	0.00	0.00	0.00	96.20	72.00	143.55	91.10	19.60	7.80	5.40	0.00	0.00	
5	0.00	0.00	0.80	96.80	75.80	145.75	90.50	18.40	7.80	5.20	0.00	0.00	
6	0.00	0.00	2.40	95.60	81.50	152.90	92.00	16.80	7.60	5.00	0.00	0.00	
7	0.00	0.00	5.40	93.50	85.50	163.90	95.30	16.00	7.60	5.00	0.00	0.00	
8	0.00	0.00	10.10	89.90	88.10	176.05	97.40	15.60	7.40	4.80	0.00	0.00	
9	0.00	0.00	13.40	84.50	93.50	180.60	98.00	15.20	7.20	4.60	0.00	0.00	
10	0.00	0.00	15.20	79.40	99.60	181.90	96.80	15.20	7.00	4.60	0.00	0.00	
11	0.00	0.00	15.20	74.45	102.40	184.50	93.80	14.80	7.00	4.40	0.00	0.00	
12	0.00	0.00	15.60	70.80	101.60	185.15	89.60	14.40	6.80	4.40	0.00	0.00	
13	0.00	0.00	16.00	50.45	101.20	183.20	84.00	13.70	6.80	4.40	0.00	0.00	
14	0.00	0.00	16.00	38.40	100.40	181.25	78.40	13.70	7.20	4.20	0.00	0.00	
15	0.00	0.00	17.20	32.40	98.00	178.00	73.90	13.40	7.00	3.80	0.00	0.00	
16	0.00	0.00	18.80	28.40	95.30	173.45	71.00	12.80	6.80	3.60	0.00	0.00	
17	0.00	0.00	20.40	25.60	91.10	166.95	58.00	12.20	6.60	3.40	0.00	0.00	
18	0.00	0.00	20.00	22.80	85.50	160.60	45.90	11.90	6.60	3.20	0.00	0.00	
19	0.00	0.00	22.00	20.80	80.20	155.10	39.00	11.60	6.40	3.00	0.00	0.00	
20	0.00	0.00	23.20	19.20	77.00	150.70	34.80	11.30	6.00	2.80	0.00	0.00	
21	0.00	0.00	24.00	19.20	74.30	146.85	31.80	11.00	5.80	2.60	0.00	0.00	
22	0.00	0.00	25.60	18.80	71.90	142.50	29.20	10.40	5.80	2.20	0.00	0.00	
23	0.00	0.00	29.20	19.20	62.50	137.50	27.60	10.10	5.80	2.00	0.00	0.00	
24	0.00	0.00	58.75	21.20	61.00	131.50	26.00	9.50	5.60	1.80	0.00	0.00	
25	0.00	0.00	73.20	24.00	57.25	124.50	25.20	9.80	5.60	1.40	0.00	0.00	
26	0.00	0.00	74.15	26.00	49.80	117.60	24.40	9.50	5.60	1.00	0.00	0.00	
27	0.00	0.00	73.00	28.80	43.95	111.20	25.60	9.20	5.60	0.80	0.00	0.00	
28	0.00	0.00	71.80	33.00	42.00	105.60	27.60	8.90	5.40	0.60	0.00	0.00	
29	0.00	0.00	71.30	34.20	52.40	100.00	28.40	8.60	5.40	0.20		0.00	
30	0.00	0.00	71.10	40.80	71.90	96.20	28.80	8.30	5.40	0.00		0.00	
31		0.00		51.10	80.40		27.60		5.40	0.00		0.00	
Total			803.80	1580.80	2397.05	4439.10	1912.20	412.30	205.10	101.20			11851.55 CMSDAY
Mean	0.00	0.00	26.79	50.99	77.32	147.97	61.68	13.74	6.62	3.26	0.00	0.00	32.47 CMS
Max	0.00	0.00	74.15	96.80	102.40	185.15	98.00	25.60	8.30	5.80	0.00	0.00	185.15 CMS
Min	0.00	0.00	0.00	18.80	42.00	96.20	24.40	8.30	5.40	0.00	0.00	0.00	0.00 CMS
Runoff			69.45	136.58	207.11	383.54	165.21	35.62	17.72	8.74			1023.97 MCM

Momentary Peak 185.80 CMS. at 153.92 m. (MSL.) at 18.00 Hours , on Sep 11 , 2016

Runoff Yield 14.77 Liters/Second/Square KM. Momentary Peak Yield 84.490 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at Ban Kok So.

	Ban Kok So	**Amphoe** Wang Saphung	**Changwat** Loei
Drainge Area	156 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+261.000 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+268.630 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. The cataract situated downstream from the gage site.		
	Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

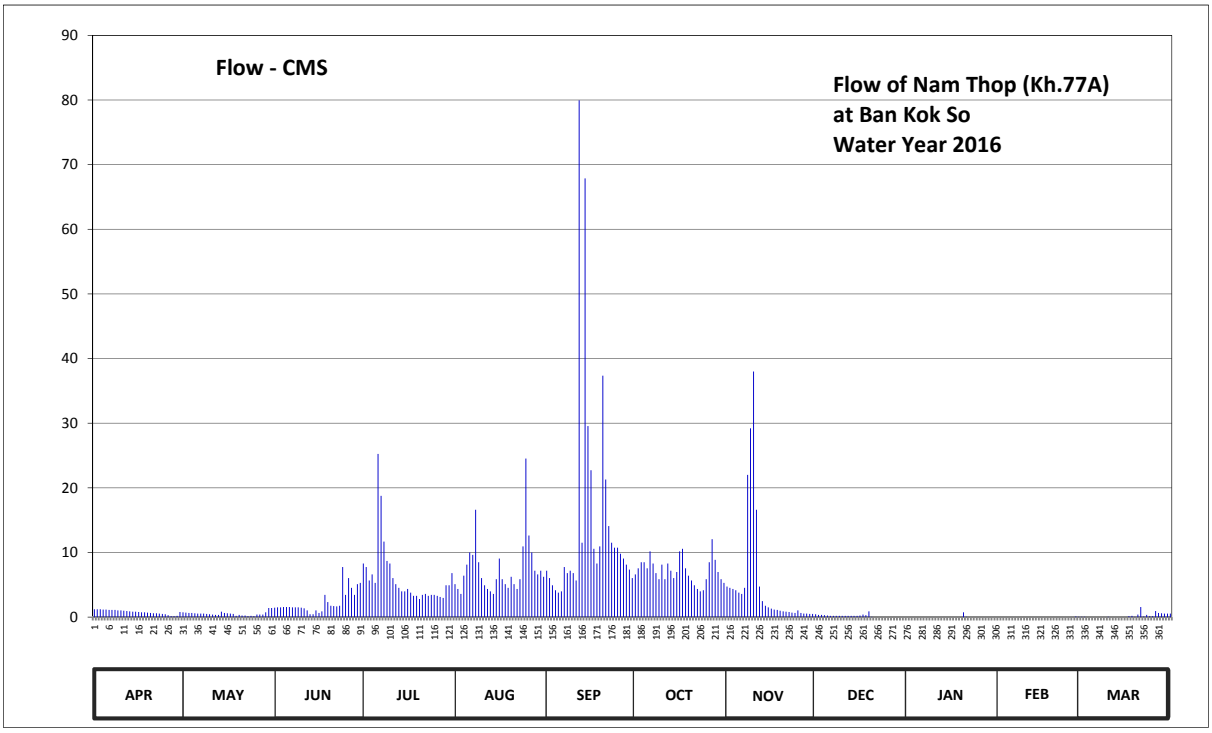
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.34	261.25	261.39	261.85	261.68	261.79	261.76	261.66	261.19	261.02	260.91	261.11	
2	261.34	261.24	261.40	261.82	261.64	261.73	261.81	261.65	261.17	260.99	260.91	261.11	
3	261.34	261.23	261.40	261.71	261.60	261.67	261.86	261.64	261.17	261.00	260.87	261.10	
4	261.33	261.23	261.41	261.76	261.75	261.63	261.86	261.63	261.16	260.94	260.89	261.10	
5	261.33	261.22	261.41	261.69	261.84	261.61	261.81	261.61	261.15	261.01	260.88	261.10	
6	261.32	261.21	261.41	262.44	261.94	261.62	261.95	261.60	261.14	260.98	260.88	261.10	
7	261.32	261.21	261.40	262.26	261.92	261.82	261.85	261.65	261.14	260.98	260.88	261.10	
8	261.32	261.21	261.40	262.03	262.20	261.77	261.77	262.35	261.14	261.08	260.88	261.10	
9	261.31	261.20	261.40	261.87	261.86	261.79	261.72	262.55	261.14	261.00	260.93	261.10	
10	261.31	261.19	261.39	261.85	261.73	261.77	261.84	262.71	261.14	261.01	260.87	261.11	
11	261.30	261.18	261.37	261.73	261.67	261.71	261.72	262.20	261.14	261.06	260.87	261.08	
12	261.29	261.17	261.31	261.68	261.64	263.37	261.85	261.66	261.14	261.06	260.87	261.07	
13	261.28	261.17	261.19	261.65	261.62	262.02	261.79	261.53	261.14	261.08	260.89	261.03	
14	261.27	261.27	261.19	261.62	261.60	263.18	261.73	261.45	261.14	261.08	260.86	260.99	
15	261.27	261.23	261.31	261.62	261.72	262.56	261.78	261.40	261.14	261.05	260.84	260.99	
16	261.26	261.22	261.23	261.64	261.89	262.37	261.95	261.36	261.15	261.05	260.85	261.00	
17	261.25	261.21	261.28	261.61	261.72	261.97	261.97	261.33	261.18	261.02	260.86	261.13	
18	261.25	261.20	261.59	261.58	261.68	261.85	261.81	261.32	261.16	260.97	260.86	261.14	
19	261.24	261.14	261.52	261.58	261.65	261.99	261.75	261.30	261.28	260.99	260.86	261.11	
20	261.23	261.17	261.45	261.55	261.74	262.70	261.71	261.28	261.11	261.25	260.85	261.18	
21	261.22	261.15	261.44	261.59	261.68	262.33	261.67	261.27	261.08	261.11	260.82	261.41	
22	261.22	261.15	261.43	261.60	261.64	262.13	261.64	261.26	261.03	260.99	260.83	261.12	
23	261.21	261.13	261.45	261.58	261.72	262.02	261.62	261.24	261.02	260.99	260.85	261.17	
24	261.20	261.14	261.82	261.59	261.99	261.98	261.63	261.23	261.01	260.98	260.82	261.13	
25	261.19	261.13	261.59	261.59	262.42	261.98	261.72	261.31	260.99	260.96	260.84	261.13	
26	261.16	261.18	261.73	261.58	262.08	261.93	261.86	261.23	260.99	260.92	260.97	261.29	
27	261.13	261.18	261.65	261.57	261.94	261.89	262.05	261.21	260.99	260.89	261.12	261.23	
28	261.13	261.18	261.59	261.56	261.79	261.84	261.88	261.21	261.04	260.89	261.11	261.22	
29	261.14	261.25	261.68	261.67	261.76	261.80	261.78	261.20	261.03	260.86		261.21	
30	261.26	261.38	261.69	261.67	261.79	261.73	261.72	261.20	261.02	260.87		261.21	
31		261.38		261.77	261.74		261.69		261.03	260.90		261.21	
Mean	261.26	261.21	261.45	261.72	261.79	262.02	261.79	261.54	261.11	261.00	260.89	261.13	
Max	261.34	261.38	261.82	262.44	262.42	263.37	262.05	262.71	261.28	261.25	261.12	261.41	263.37
Min	261.13	261.13	261.19	261.55	261.60	261.61	261.62	261.20	260.99	260.86	260.82	260.99	260.82

Annual Max Momentary Gage Height 264.53 m. (MSL.) , at 06.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 261.00 m. (MSL.) , River Bed 260.97 m. (MSL.)

Left Bank Elevation 268.68 m. (MSL.) ,

Right Bank Elevation 268.65 m. (MSL.) , Drainage Are 156 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	0.75	1.45	8.30	5.10	7.17	6.61	4.73	0.45	0.00	0.00	0.05	
2	1.20	0.70	1.50	7.74	4.35	6.04	7.55	4.54	0.35	0.00	0.00	0.05	
3	1.20	0.65	1.50	5.67	3.60	4.92	8.49	4.35	0.35	0.00	0.00	0.00	
4	1.15	0.65	1.55	6.61	6.42	4.16	8.49	4.16	0.30	0.00	0.00	0.00	
5	1.15	0.60	1.55	5.29	8.11	3.79	7.55	3.79	0.25	0.00	0.00	0.00	
6	1.10	0.55	1.55	25.24	9.99	3.98	10.18	3.60	0.20	0.00	0.00	0.00	
7	1.10	0.55	1.50	18.76	9.62	7.74	8.30	4.54	0.20	0.00	0.00	0.00	
8	1.10	0.55	1.50	11.68	16.60	6.80	6.80	22.00	0.20	0.00	0.00	0.00	
9	1.05	0.50	1.50	8.68	8.49	7.17	5.86	29.20	0.20	0.00	0.00	0.00	
10	1.05	0.45	1.45	8.30	6.04	6.80	8.11	37.99	0.20	0.00	0.00	0.05	
11	1.00	0.40	1.35	6.04	4.92	5.67	5.86	16.60	0.20	0.00	0.00	0.00	
12	0.95	0.35	1.05	5.10	4.35	79.95	8.30	4.73	0.20	0.00	0.00	0.00	
13	0.90	0.35	0.45	4.54	3.98	11.50	7.17	2.48	0.20	0.00	0.00	0.00	
14	0.85	0.85	0.45	3.98	3.60	67.87	6.04	1.75	0.20	0.00	0.00	0.00	
15	0.85	0.65	1.05	3.98	5.86	29.56	6.98	1.50	0.20	0.00	0.00	0.00	
16	0.80	0.60	0.65	4.35	9.05	22.72	10.18	1.30	0.25	0.00	0.00	0.00	
17	0.75	0.55	0.90	3.79	5.86	10.56	10.56	1.15	0.40	0.00	0.00	0.15	
18	0.75	0.50	3.44	3.28	5.10	8.30	7.55	1.10	0.30	0.00	0.00	0.20	
19	0.70	0.20	2.32	3.28	4.54	10.93	6.42	1.00	0.90	0.00	0.00	0.05	
20	0.65	0.35	1.75	2.80	6.23	37.36	5.67	0.90	0.05	0.75	0.00	0.40	
21	0.60	0.25	1.70	3.44	5.10	21.28	4.92	0.85	0.00	0.05	0.00	1.55	
22	0.60	0.25	1.65	3.60	4.35	14.08	4.35	0.80	0.00	0.00	0.00	0.10	
23	0.55	0.15	1.75	3.28	5.86	11.50	3.98	0.70	0.00	0.00	0.00	0.35	
24	0.50	0.20	7.74	3.44	10.93	10.74	4.16	0.65	0.00	0.00	0.00	0.15	
25	0.45	0.15	3.44	3.44	24.52	10.74	5.86	1.05	0.00	0.00	0.00	0.15	
26	0.30	0.40	6.04	3.28	12.62	9.80	8.49	0.65	0.00	0.00	0.00	0.95	
27	0.15	0.40	4.54	3.12	9.99	9.05	12.06	0.55	0.00	0.00	0.10	0.65	
28	0.15	0.40	3.44	2.96	7.17	8.11	8.86	0.55	0.00	0.00	0.05	0.60	
29	0.20	0.75	5.10	4.92	6.61	7.36	6.98	0.50	0.00	0.00		0.55	
30	0.80	1.40	5.29	4.92	7.17	6.04	5.86	0.50	0.00	0.00		0.55	
31		1.40		6.80	6.23		5.29		0.00	0.00		0.55	
Total	23.80	16.50	69.15	190.61	232.36	451.69	223.48	158.21	5.60	0.80	0.15	7.10	1379.45	CMSDAY
Mean	0.79	0.53	2.30	6.15	7.50	15.06	7.21	5.27	0.18	0.03	0.01	0.23	3.78	CMS
Max	1.20	1.40	7.74	25.24	24.52	79.95	12.06	37.99	0.90	0.75	0.10	1.55	79.95	CMS
Min	0.15	0.15	0.45	2.80	3.60	3.79	3.98	0.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.06	1.43	5.97	16.47	20.08	39.03	19.31	13.67	0.48	0.07	0.01	0.61	119.18	MCM

Momentary Peak 196.40 CMS. at 264.53 m. (MSL.) at 06.00 Hours , on Sep 12 , 2016

Runoff Yield 24.23 Liters/Second/Square KM. Momentary Peak Yield 1258.970 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Nam Huai	**Amphoe** Mueang	**Changwat** Loei
Drainge Area	219 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+246.200 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream side at the footpath of the bridge.	**Elevation**	+256.495 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The concrete weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

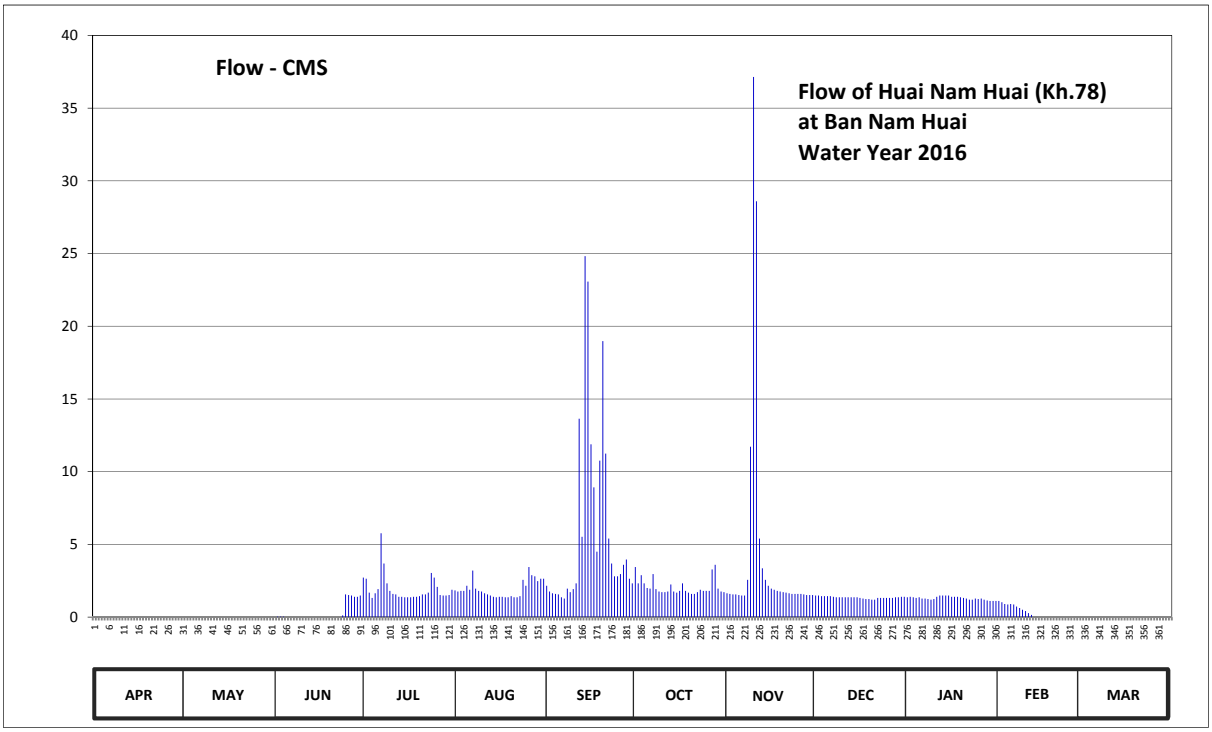
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.80	247.83	248.00	248.69	248.56	248.62	248.78	248.51	248.47	248.44	248.37	247.58	
2	247.83	247.83	248.01	248.68	248.54	248.54	248.64	248.50	248.47	248.45	248.34	247.58	
3	247.85	247.85	248.01	248.52	248.55	248.51	248.71	248.49	248.46	248.44	248.30	247.61	
4	247.86	247.86	248.01	248.43	248.55	248.50	248.64	248.49	248.46	248.43	248.29	247.60	
5	247.87	247.86	248.00	248.51	248.62	248.49	248.60	248.48	248.46	248.44	248.30	247.60	
6	247.87	247.88	247.99	248.58	248.57	248.44	248.59	248.47	248.46	248.42	248.29	247.59	
7	247.87	247.89	247.99	249.03	248.75	248.42	248.72	248.47	248.45	248.42	248.24	247.63	
8	247.87	247.90	247.98	248.81	248.59	248.59	248.58	248.67	248.44	248.41	248.21	247.64	
9	247.87	247.90	247.99	248.64	248.55	248.53	248.54	249.47	248.44	248.40	248.17	247.60	
10	247.87	247.93	247.96	248.55	248.54	248.58	248.53	250.78	248.44	248.41	248.14	247.55	
11	247.86	247.95	247.95	248.50	248.51	248.64	248.53	250.40	248.44	248.45	248.09	247.64	
12	247.86	247.95	247.96	248.49	248.49	249.59	248.54	249.00	248.44	248.47	248.05	247.55	
13	247.85	247.95	247.97	248.45	248.47	249.01	248.63	248.77	248.44	248.47	248.00	247.66	
14	247.85	247.96	247.96	248.45	248.45	250.22	248.54	248.67	248.44	248.47	247.98	247.65	
15	247.85	247.97	247.95	248.44	248.44	250.13	248.52	248.62	248.44	248.47	247.98	247.66	
16	247.84	247.97	247.93	248.44	248.45	249.48	248.55	248.59	248.43	248.45	247.99	247.65	
17	247.83	247.96	247.94	248.44	248.45	249.28	248.64	248.57	248.42	248.45	247.98	247.65	
18	247.82	247.95	247.97	248.45	248.44	248.90	248.55	248.55	248.41	248.45	247.96	247.65	
19	247.82	247.95	247.97	248.45	248.44	249.41	248.52	248.54	248.41	248.44	247.92	247.65	
20	247.81	247.97	247.97	248.46	248.46	249.91	248.50	248.53	248.40	248.43	247.90	247.65	
21	247.81	247.96	247.97	248.49	248.44	249.44	248.50	248.52	248.40	248.42	247.86	247.66	
22	247.81	247.96	247.96	248.49	248.44	249.00	248.53	248.51	248.43	248.40	247.79	247.66	
23	247.81	247.97	247.96	248.52	248.46	248.81	248.57	248.50	248.43	248.40	247.73	247.67	
24	247.77	247.98	248.04	248.73	248.67	248.70	248.55	248.50	248.43	248.42	247.66	247.67	
25	247.76	247.98	248.49	248.69	248.62	248.70	248.55	248.50	248.43	248.41	247.64	247.66	
26	247.77	247.98	248.48	248.61	248.78	248.72	248.55	248.50	248.43	248.42	247.63	247.66	
27	247.78	247.99	248.47	248.48	248.71	248.80	248.76	248.49	248.43	248.40	247.62	247.66	
28	247.79	247.99	248.45	248.47	248.70	248.84	248.80	248.48	248.44	248.38	247.58	247.66	
29	247.80	247.99	248.45	248.47	248.66	248.68	248.59	248.48	248.44	248.37		247.67	
30	247.82	247.99	248.47	248.48	248.68	248.64	248.54	248.48	248.45	248.37		247.70	
31		247.99		248.57	248.68		248.53		248.45	248.37		247.73	
Mean	247.83	247.94	248.07	248.55	248.56	248.94	248.59	248.72	248.44	248.42	248.00	247.64	
Max	247.87	247.99	248.49	249.03	248.78	250.22	248.80	250.78	248.47	248.47	248.37	247.73	250.78
Min	247.76	247.83	247.93	248.43	248.44	248.42	248.50	248.47	248.40	248.37	247.58	247.55	247.55

Annual Max Momentary Gage Height 251.13 m. (MSL.) , at 01.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 246.20 m. (MSL.) , River Bed 247.81 m. (MSL.)

Left Bank Elevation 254.94 m. (MSL.) ,

Right Bank Elevation 254.46 m. (MSL.) , Drainage Are 219 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	2.72	1.84	2.16	3.44	1.64	1.48	1.36	1.11	0.00	
2	0.00	0.00	0.03	2.64	1.76	1.76	2.32	1.60	1.48	1.40	1.02	0.00	
3	0.00	0.00	0.03	1.68	1.80	1.64	2.88	1.56	1.44	1.36	0.90	0.00	
4	0.00	0.00	0.03	1.32	1.80	1.60	2.32	1.56	1.44	1.32	0.87	0.00	
5	0.00	0.00	0.00	1.64	2.16	1.56	2.00	1.52	1.44	1.36	0.90	0.00	
6	0.00	0.00	0.00	1.92	1.88	1.36	1.96	1.48	1.44	1.28	0.87	0.00	
7	0.00	0.00	0.00	5.76	3.20	1.28	2.96	1.48	1.40	1.28	0.72	0.00	
8	0.00	0.00	0.00	3.69	1.96	1.96	1.92	2.56	1.36	1.24	0.63	0.00	
9	0.00	0.00	0.00	2.32	1.80	1.72	1.76	11.72	1.36	1.20	0.51	0.00	
10	0.00	0.00	0.00	1.80	1.76	1.92	1.72	37.14	1.36	1.24	0.42	0.00	
11	0.00	0.00	0.00	1.60	1.64	2.32	1.72	28.60	1.36	1.40	0.27	0.00	
12	0.00	0.00	0.00	1.56	1.56	13.64	1.76	5.40	1.36	1.48	0.15	0.00	
13	0.00	0.00	0.00	1.40	1.48	5.52	2.24	3.36	1.36	1.48	0.00	0.00	
14	0.00	0.00	0.00	1.40	1.40	24.82	1.76	2.56	1.36	1.48	0.00	0.00	
15	0.00	0.00	0.00	1.36	1.36	23.07	1.68	2.16	1.36	1.48	0.00	0.00	
16	0.00	0.00	0.00	1.36	1.40	11.88	1.80	1.96	1.32	1.40	0.00	0.00	
17	0.00	0.00	0.00	1.36	1.40	8.92	2.32	1.88	1.28	1.40	0.00	0.00	
18	0.00	0.00	0.00	1.40	1.36	4.50	1.80	1.80	1.24	1.40	0.00	0.00	
19	0.00	0.00	0.00	1.40	1.36	10.76	1.68	1.76	1.24	1.36	0.00	0.00	
20	0.00	0.00	0.00	1.44	1.44	18.98	1.60	1.72	1.20	1.32	0.00	0.00	
21	0.00	0.00	0.00	1.56	1.36	11.24	1.60	1.68	1.20	1.28	0.00	0.00	
22	0.00	0.00	0.00	1.56	1.36	5.40	1.72	1.64	1.32	1.20	0.00	0.00	
23	0.00	0.00	0.00	1.68	1.44	3.69	1.88	1.60	1.32	1.20	0.00	0.00	
24	0.00	0.00	0.12	3.04	2.56	2.80	1.80	1.60	1.32	1.28	0.00	0.00	
25	0.00	0.00	1.56	2.72	2.16	2.80	1.80	1.60	1.32	1.24	0.00	0.00	
26	0.00	0.00	1.52	2.08	3.44	2.96	1.80	1.60	1.32	1.28	0.00	0.00	
27	0.00	0.00	1.48	1.52	2.88	3.60	3.28	1.56	1.32	1.20	0.00	0.00	
28	0.00	0.00	1.40	1.48	2.80	3.96	3.60	1.52	1.36	1.14	0.00	0.00	
29	0.00	0.00	1.40	1.48	2.48	2.64	1.96	1.52	1.36	1.11		0.00	
30	0.00	0.00	1.48	1.52	2.64	2.32	1.76	1.52	1.40	1.11		0.00	
31		0.00		1.88	2.64		1.72		1.40	1.11		0.00	
Total			9.05	60.29	60.12	182.78	64.56	129.30	41.92	40.39	8.37		596.78	CMSDAY
Mean	0.00	0.00	0.30	1.94	1.94	6.09	2.08	4.31	1.35	1.30	0.30	0.00	1.64	CMS
Max	0.00	0.00	1.56	5.76	3.44	24.82	3.60	37.14	1.48	1.48	1.11	0.00	37.14	CMS
Min	0.00	0.00	0.00	1.32	1.36	1.28	1.60	1.48	1.20	1.11	0.00	0.00	0.00	CMS
Runoff			0.78	5.21	5.19	15.79	5.58	11.17	3.62	3.49	0.72		51.56	MCM

Momentary Peak 45.19 CMS. at 251.13 m. (MSL.) at 01.00 Hours , on Nov 11 , 2016

Runoff Yield 7.47 Liters/Second/Square KM. Momentary Peak Yield 206.350 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Hua Saphan	**Amphoe** Mae Chan	**Changwat** Chiang Rai
Drainge Area	248 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+406.385 m. (MSL.)		
Bench Mark	B.M.- Temporary.		
Location BM	On right bank at the footpath of the bridge.	**Elevation**	+408.840 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 38 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

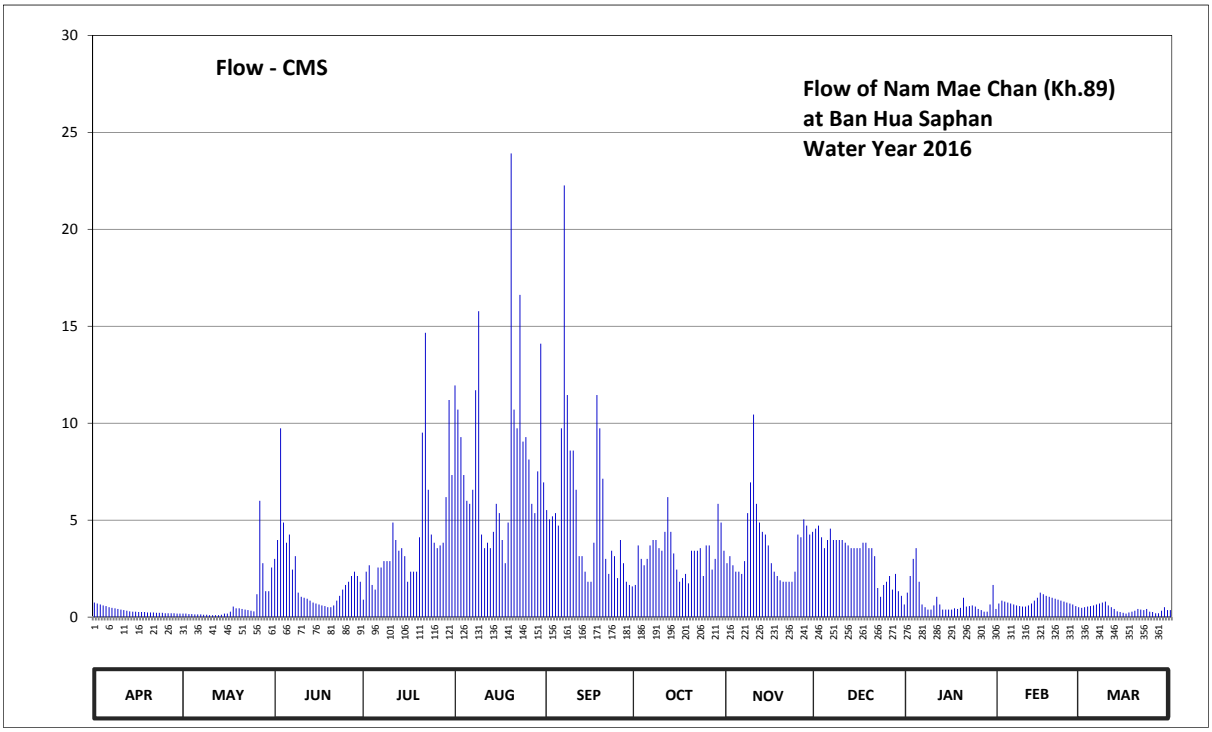
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.63	406.44	406.90	406.66	407.37	407.07	406.77	406.88	407.01	406.72	406.62	406.56	
2	406.62	406.44	406.97	406.84	407.32	407.04	406.95	406.91	407.02	406.82	406.65	406.57	
3	406.61	406.43	407.28	406.87	407.26	407.05	406.90	406.87	406.98	406.90	406.64	406.58	
4	406.60	406.43	407.03	406.77	407.17	407.06	406.87	406.84	406.94	406.94	406.63	406.59	
5	406.59	406.42	406.96	406.74	407.10	407.02	406.90	406.84	406.97	406.79	406.62	406.60	
6	406.57	406.42	406.99	406.86	407.09	407.28	406.95	406.83	407.01	406.61	406.61	406.61	
7	406.56	406.42	406.85	406.86	407.13	407.72	406.97	406.89	406.97	406.57	406.60	406.62	
8	406.55	406.41	406.91	406.89	407.36	407.35	406.97	407.06	406.97	406.53	406.59	406.63	
9	406.54	406.41	406.72	406.89	407.51	407.23	406.94	407.15	406.97	406.53	406.58	406.64	
10	406.53	406.40	406.69	406.89	406.99	407.23	406.93	407.31	406.97	406.60	406.58	406.60	
11	406.52	406.40	406.68	407.03	406.94	407.13	407.00	407.09	406.96	406.69	406.60	406.57	
12	406.51	406.40	406.67	406.97	406.96	406.91	407.11	407.03	406.95	406.61	406.62	406.54	
13	406.50	406.40	406.65	406.93	406.94	406.91	407.00	407.00	406.94	406.53	406.65	406.50	
14	406.49	406.41	406.63	406.94	407.00	406.84	406.92	406.99	406.94	406.53	406.68	406.48	
15	406.49	406.44	406.62	406.91	407.09	406.79	406.85	406.95	406.94	406.53	406.72	406.46	
16	406.48	406.44	406.61	406.79	407.06	406.79	406.79	406.88	406.94	406.53	406.71	406.44	
17	406.48	406.49	406.60	406.84	406.97	406.96	406.81	406.84	406.96	406.55	406.70	406.47	
18	406.48	406.58	406.59	406.84	406.88	407.35	406.83	406.82	406.96	406.54	406.69	406.49	
19	406.47	406.55	406.57	406.84	407.03	407.28	406.78	406.80	406.94	406.56	406.68	406.51	
20	406.47	406.55	406.57	406.98	407.77	407.16	406.93	406.79	406.94	406.68	406.67	406.54	
21	406.47	406.54	406.60	407.27	407.32	406.90	406.93	406.79	406.91	406.58	406.66	406.53	
22	406.46	406.53	406.65	407.47	407.28	406.83	406.93	406.79	406.75	406.59	406.65	406.52	
23	406.46	406.52	406.70	407.13	407.54	406.93	406.94	406.79	406.69	406.60	406.64	406.54	
24	406.46	406.51	406.74	406.99	407.25	406.91	406.82	406.84	406.77	406.58	406.63	406.49	
25	406.45	406.50	406.77	406.96	407.26	406.81	406.95	406.99	406.79	406.54	406.62	406.48	
26	406.45	406.71	406.79	406.94	407.21	406.97	406.95	406.98	406.82	406.52	406.61	406.45	
27	406.45	407.10	406.82	406.95	407.09	406.88	406.85	407.04	406.74	406.49	406.59	406.45	
28	406.45	406.88	406.84	406.96	407.06	406.79	406.90	407.02	406.83	406.49	406.57	406.51	
29	406.44	406.73	406.82	407.11	407.18	406.77	407.09	406.99	406.73	406.61		406.57	
30	406.44	406.73	406.79	407.34	407.45	406.76	407.03	407.00	406.70	406.77		406.52	
31		406.86		407.17	407.15		406.93		406.61	406.54		406.52	
Mean	406.51	406.53	406.77	406.96	407.18	407.02	406.92	406.93	406.89	406.62	406.64	406.53	
Max	406.63	407.10	407.28	407.47	407.77	407.72	407.11	407.31	407.02	406.94	406.72	406.64	407.77
Min	406.44	406.40	406.57	406.66	406.88	406.76	406.77	406.79	406.61	406.49	406.57	406.44	406.40

Annual Max Momentary Gage Height 408.17 m. (MSL.) , at 14.00 Hours , on Aug 20 , 2016

Zero Gage at Bottom Elevation 406.39 m. (MSL.) , River Bed 406.10 m. (MSL.)

Left Bank Elevation 411.67 m. (MSL.) ,

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



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.18	3.00	0.90	11.95	5.52	1.66	2.78	4.56	1.26	0.70	0.48	
2	0.70	0.18	3.98	2.34	10.70	5.04	3.70	3.14	4.72	2.12	0.85	0.51	
3	0.65	0.16	9.74	2.67	9.28	5.20	3.00	2.67	4.12	3.00	0.80	0.54	
4	0.60	0.16	4.88	1.66	7.33	5.36	2.67	2.34	3.56	3.56	0.75	0.57	
5	0.57	0.14	3.84	1.42	6.00	4.72	3.00	2.34	3.98	1.82	0.70	0.60	
6	0.51	0.14	4.26	2.56	5.84	9.74	3.70	2.23	4.56	0.65	0.65	0.65	
7	0.48	0.14	2.45	2.56	6.57	22.26	3.98	2.89	3.98	0.51	0.60	0.70	
8	0.45	0.12	3.14	2.89	11.70	11.45	3.98	5.36	3.98	0.39	0.57	0.75	
9	0.42	0.12	1.26	2.89	15.78	8.59	3.56	6.95	3.98	0.39	0.54	0.80	
10	0.39	0.10	1.05	2.89	4.26	8.59	3.42	10.45	3.98	0.60	0.54	0.60	
11	0.36	0.10	1.00	4.88	3.56	6.57	4.40	5.84	3.84	1.05	0.60	0.51	
12	0.33	0.10	0.95	3.98	3.84	3.14	6.19	4.88	3.70	0.65	0.70	0.42	
13	0.30	0.10	0.85	3.42	3.56	3.14	4.40	4.40	3.56	0.39	0.85	0.30	
14	0.28	0.12	0.75	3.56	4.40	2.34	3.28	4.26	3.56	0.39	1.00	0.26	
15	0.28	0.18	0.70	3.14	5.84	1.82	2.45	3.70	3.56	0.39	1.26	0.22	
16	0.26	0.18	0.65	1.82	5.36	1.82	1.82	2.78	3.56	0.39	1.18	0.18	
17	0.26	0.28	0.60	2.34	3.98	3.84	2.01	2.34	3.84	0.45	1.10	0.24	
18	0.26	0.54	0.57	2.34	2.78	11.45	2.23	2.12	3.84	0.42	1.05	0.28	
19	0.24	0.45	0.51	2.34	4.88	9.74	1.74	1.90	3.56	0.48	1.00	0.33	
20	0.24	0.45	0.51	4.12	23.91	7.14	3.42	1.82	3.56	1.00	0.95	0.42	
21	0.24	0.42	0.60	9.51	10.70	3.00	3.42	1.82	3.14	0.54	0.90	0.39	
22	0.22	0.39	0.85	14.66	9.74	2.23	3.42	1.82	1.50	0.57	0.85	0.36	
23	0.22	0.36	1.10	6.57	16.62	3.42	3.56	1.82	1.05	0.60	0.80	0.42	
24	0.22	0.33	1.42	4.26	9.05	3.14	2.12	2.34	1.66	0.54	0.75	0.28	
25	0.20	0.30	1.66	3.84	9.28	2.01	3.70	4.26	1.82	0.42	0.70	0.26	
26	0.20	1.18	1.82	3.56	8.13	3.98	3.70	4.12	2.12	0.36	0.65	0.20	
27	0.20	6.00	2.12	3.70	5.84	2.78	2.45	5.04	1.42	0.28	0.57	0.20	
28	0.20	2.78	2.34	3.84	5.36	1.82	3.00	4.72	2.23	0.28	0.51	0.33	
29	0.18	1.34	2.12	6.19	7.52	1.66	5.84	4.26	1.34	0.65		0.51	
30	0.18	1.34	1.82	11.20	14.10	1.58	4.88	4.40	1.10	1.66		0.36	
31		2.56		7.33	6.95		3.42		0.65	0.42		0.36	
Total	10.39	20.94	60.54	129.38	254.81	163.09	104.12	109.79	96.03	26.23	22.12	13.03	1010.47 CMSDAY
Mean	0.35	0.68	2.02	4.17	8.22	5.44	3.36	3.66	3.10	0.85	0.79	0.42	2.77 CMS
Max	0.75	6.00	9.74	14.66	23.91	22.26	6.19	10.45	4.72	3.56	1.26	0.80	23.91 CMS
Min	0.18	0.10	0.51	0.90	2.78	1.58	1.66	1.82	0.65	0.28	0.51	0.18	0.10 CMS
Runoff	0.90	1.81	5.23	11.18	22.02	14.09	9.00	9.49	8.30	2.27	1.91	1.13	87.30 MCM

Momentary Peak 39.98 CMS. at 408.17 m. (MSL.) at 14.00 Hours , on Aug 20 , 2016

Runoff Yield 11.16 Liters/Second/Square KM. Momentary Peak Yield 161.210 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Tong Khop **Amphoe** Khok Si Suphan **Changwat** Sakon Nakhon

Drainge Area	861 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+157.500 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank at the footpath of the bridge. **Elevation** +167.456 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +163.00 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

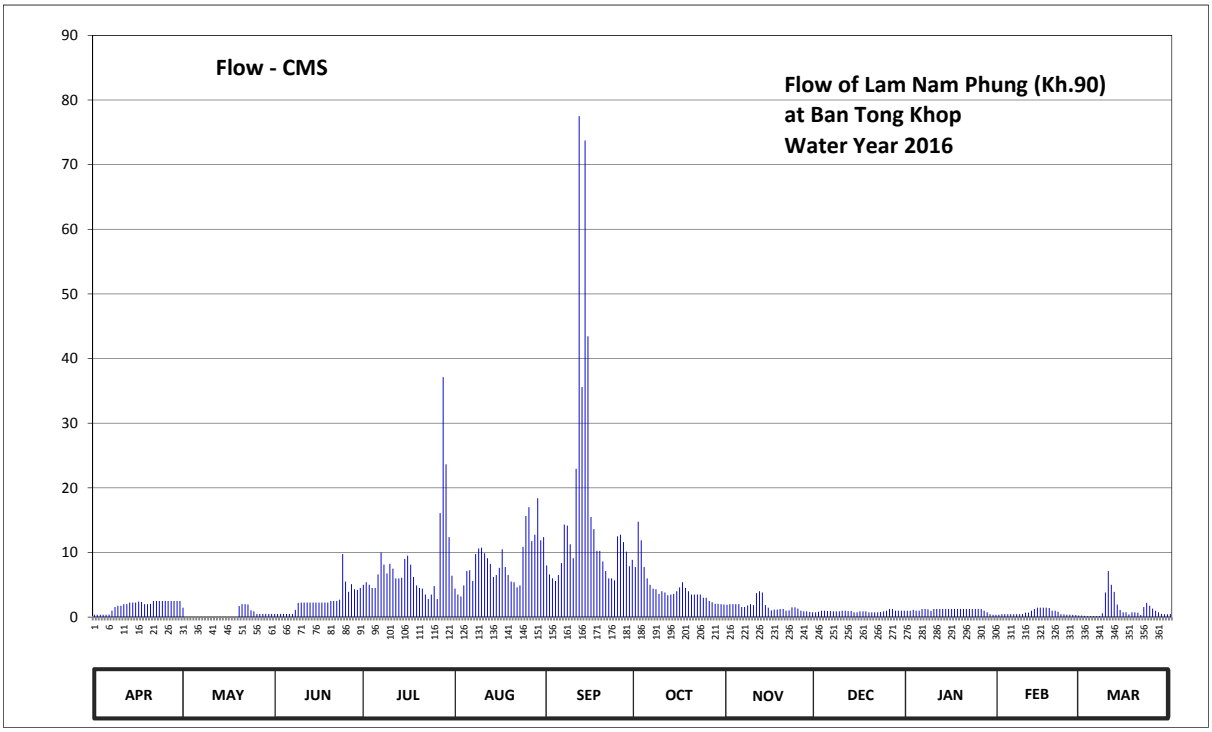
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.15	158.39	158.20	158.85	158.79	159.12	159.10	158.48	158.25	158.30	158.15	158.10	
2	158.15	157.67	158.20	158.89	158.70	159.01	159.65	158.50	158.27	158.30	158.18	158.08	
3	158.15	157.65	158.20	158.85	158.67	158.95	159.43	158.50	158.30	158.32	158.18	158.06	
4	158.15	157.65	158.20	158.80	158.84	158.91	159.10	158.50	158.30	158.30	158.18	158.06	
5	158.15	157.65	158.20	158.80	159.05	159.00	158.95	158.50	158.29	158.30	158.18	158.06	
6	158.16	157.65	158.20	159.01	159.06	159.15	158.85	158.41	158.29	158.35	158.18	158.06	
7	158.30	157.65	158.20	159.28	158.91	159.62	158.79	158.41	158.28	158.35	158.18	158.07	
8	158.41	157.65	158.32	159.13	159.26	159.61	158.78	158.46	158.28	158.34	158.18	158.22	
9	158.45	157.65	158.54	159.02	159.33	159.38	158.71	158.50	158.28	158.29	158.19	158.73	
10	158.45	157.68	158.55	159.14	159.34	159.21	158.75	158.47	158.30	158.35	158.24	159.05	
11	158.50	157.68	158.55	159.08	159.27	160.14	158.73	158.72	158.30	158.35	158.24	158.85	
12	158.50	157.68	158.55	158.95	159.21	162.40	158.69	158.75	158.29	158.35	158.30	158.74	
13	158.55	157.68	158.55	158.95	159.14	160.78	158.70	158.73	158.29	158.35	158.35	158.49	
14	158.55	157.68	158.55	158.96	158.97	162.28	158.71	158.47	158.25	158.35	158.39	158.32	
15	158.55	157.68	158.55	159.20	159.00	161.12	158.75	158.39	158.25	158.35	158.39	158.25	
16	158.58	157.68	158.55	159.24	159.09	159.70	158.81	158.31	158.28	158.35	158.39	158.25	
17	158.57	157.68	158.55	159.13	159.32	159.57	158.89	158.33	158.28	158.35	158.39	158.17	
18	158.50	157.68	158.55	158.97	159.10	159.30	158.80	158.33	158.28	158.35	158.38	158.25	
19	158.50	157.70	158.55	158.84	159.00	159.30	158.75	158.35	158.25	158.35	158.30	158.25	
20	158.51	158.44	158.60	158.80	158.90	159.17	158.70	158.35	158.25	158.35	158.30	158.24	
21	158.60	158.50	158.60	158.79	158.89	159.05	158.70	158.30	158.25	158.35	158.27	158.13	
22	158.60	158.50	158.60	158.70	158.81	158.95	158.70	158.31	158.25	158.35	158.18	158.41	
23	158.60	158.49	158.62	158.63	158.84	158.95	158.70	158.40	158.26	158.35	158.17	158.54	
24	158.60	158.31	159.26	158.70	159.35	158.92	158.65	158.40	158.28	158.35	158.15	158.45	
25	158.60	158.28	158.90	158.83	159.71	159.48	158.65	158.36	158.30	158.35	158.15	158.36	
26	158.60	158.20	158.74	158.63	159.80	159.50	158.60	158.30	158.35	158.35	158.14	158.30	
27	158.60	158.20	158.86	159.74	159.42	159.41	158.56	158.28	158.35	158.30	158.13	158.25	
28	158.60	158.20	158.78	160.85	159.50	159.29	158.51	158.28	158.30	158.25	158.10	158.20	
29	158.60	158.20	158.77	160.18	159.88	159.11	158.51	158.26	158.30	158.18		158.18	
30	158.60	158.20	158.80	159.47	159.43	159.19	158.50	158.25	158.30	158.15		158.18	
31		158.20		158.99	159.47		158.49		158.30	158.15		158.20	
Mean	158.46	157.94	158.54	159.08	159.16	159.59	158.78	158.42	158.28	158.32	158.23	158.31	
Max	158.60	158.50	159.26	160.85	159.88	162.40	159.65	158.75	158.35	158.35	158.39	159.05	162.40
Min	158.15	157.65	158.20	158.63	158.67	158.91	158.49	158.25	158.25	158.15	158.10	158.06	157.65

Annual Max Momentary Gage Height 163.60 m. (MSL.) , at 08.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 157.50 m. (MSL.) , River Bed 157.78 m. (MSL.)

Left Bank Elevation 163.44 m. (MSL.) ,

Right Bank Elevation 162.99 m. (MSL.) , Drainage Are 861 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	1.45	0.50	5.00	4.40	8.00	7.75	1.90	0.75	1.00	0.38	0.25	
2	0.38	0.00	0.50	5.40	3.50	6.62	14.75	2.00	0.85	1.00	0.45	0.20	
3	0.38	0.00	0.50	5.00	3.20	6.00	11.87	2.00	1.00	1.10	0.45	0.15	
4	0.38	0.00	0.50	4.50	4.90	5.60	7.75	2.00	1.00	1.00	0.45	0.15	
5	0.38	0.00	0.50	4.50	7.12	6.50	6.00	2.00	0.95	1.00	0.45	0.15	
6	0.40	0.00	0.50	6.62	7.25	8.37	5.00	1.55	0.95	1.25	0.45	0.15	
7	1.00	0.00	0.50	10.00	5.60	14.30	4.40	1.55	0.90	1.25	0.45	0.18	
8	1.55	0.00	1.10	8.12	9.75	14.15	4.30	1.80	0.90	1.20	0.45	0.60	
9	1.75	0.00	2.20	6.75	10.62	11.25	3.60	2.00	0.90	0.95	0.48	3.80	
10	1.75	0.00	2.25	8.25	10.75	9.12	4.00	1.85	1.00	1.25	0.70	7.12	
11	2.00	0.00	2.25	7.50	9.87	22.95	3.80	3.70	1.00	1.25	0.70	5.00	
12	2.00	0.00	2.25	6.00	9.12	77.50	3.40	4.00	0.95	1.25	1.00	3.90	
13	2.25	0.00	2.25	6.00	8.25	35.60	3.50	3.80	0.95	1.25	1.25	1.95	
14	2.25	0.00	2.25	6.10	6.20	73.75	3.60	1.85	0.75	1.25	1.45	1.10	
15	2.25	0.00	2.25	9.00	6.50	43.44	4.00	1.45	0.75	1.25	1.45	0.75	
16	2.40	0.00	2.25	9.50	7.62	15.50	4.60	1.05	0.90	1.25	1.45	0.75	
17	2.35	0.00	2.25	8.12	10.50	13.62	5.40	1.15	0.90	1.25	1.45	0.43	
18	2.00	0.00	2.25	6.20	7.75	10.25	4.50	1.15	0.90	1.25	1.40	0.75	
19	2.00	0.00	2.25	4.90	6.50	10.25	4.00	1.25	0.75	1.25	1.00	0.75	
20	2.05	1.70	2.50	4.50	5.50	8.62	3.50	1.25	0.75	1.25	1.00	0.70	
21	2.50	2.00	2.50	4.40	5.40	7.12	3.50	1.00	0.75	1.25	0.85	0.33	
22	2.50	2.00	2.50	3.50	4.60	6.00	3.50	1.05	0.75	1.25	0.45	1.55	
23	2.50	1.95	2.70	2.80	4.90	6.00	3.50	1.50	0.80	1.25	0.43	2.20	
24	2.50	1.05	9.75	3.50	10.87	5.70	3.00	1.50	0.90	1.25	0.38	1.75	
25	2.50	0.90	5.50	4.80	15.65	12.50	3.00	1.30	1.00	1.25	0.38	1.30	
26	2.50	0.50	3.90	2.80	17.00	12.75	2.50	1.00	1.25	1.25	0.35	1.00	
27	2.50	0.50	5.10	16.10	11.75	11.62	2.30	0.90	1.25	1.00	0.33	0.75	
28	2.50	0.50	4.30	37.12	12.75	10.12	2.05	0.90	1.00	0.75	0.25	0.50	
29	2.50	0.50	4.20	23.65	18.40	7.87	2.05	0.80	1.00	0.45		0.45	
30	2.50	0.50	4.50	12.37	11.87	8.87	2.00	0.75	1.00	0.38		0.45	
31		0.50		6.40	12.37		1.95		1.00	0.38		0.50	
Total	54.90	14.05	76.75	249.40	270.46	489.94	139.07	50.00	28.50	33.96	20.28	39.61	1466.92 CMSDAY
Mean	1.83	0.45	2.56	8.05	8.72	16.33	4.49	1.67	0.92	1.10	0.72	1.28	4.02 CMS
Max	2.50	2.00	9.75	37.12	18.40	77.50	14.75	4.00	1.25	1.25	1.45	7.12	77.50 CMS
Min	0.38	0.00	0.50	2.80	3.20	5.60	1.95	0.75	0.75	0.38	0.25	0.15	0.00 CMS
Runoff	4.74	1.21	6.63	21.55	23.37	42.33	12.02	4.32	2.46	2.93	1.75	3.42	126.74 MCM

Momentary Peak 116.50 CMS. at 163.60 m. (MSL.) at 08.00 Hours , on Sep 12 , 2016

Runoff Yield 4.67 Liters/Second/Square KM. Momentary Peak Yield 135.310 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

	Ban Don Sawan	**Amphoe** That Phanom	**Changwat** Nakhon Phanom
Drainge Area	172 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+149.000 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the footpath of the bridge.	**Elevation**	+159.228 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

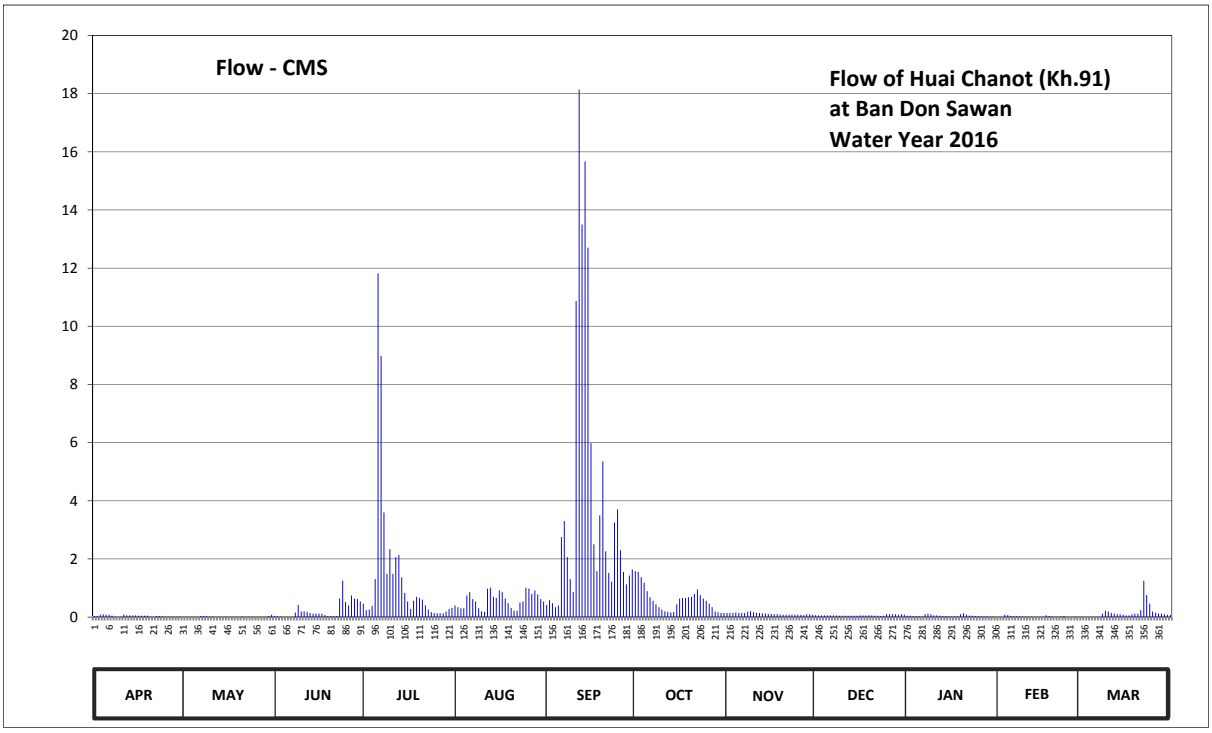
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.81	149.71	149.81	150.33	150.30	150.31	150.76	150.05	149.87	149.83	149.70	149.70	
2	149.80	149.70	149.75	150.22	150.27	150.39	150.75	150.07	149.86	149.82	149.71	149.70	
3	149.90	149.70	149.72	150.23	150.25	150.34	150.69	150.08	149.85	149.80	149.89	149.70	
4	149.96	149.70	149.71	150.29	150.25	150.27	150.63	150.09	149.85	149.78	149.88	149.70	
5	149.91	149.70	149.70	150.67	150.47	150.30	150.53	150.08	149.85	149.77	149.81	149.70	
6	149.90	149.71	149.70	152.54	150.52	151.05	150.44	150.05	149.85	149.76	149.78	149.68	
7	149.82	149.80	149.71	152.14	150.41	151.16	150.38	150.06	149.85	149.94	149.77	149.69	
8	149.72	149.80	150.11	151.22	150.37	150.89	150.32	150.14	149.84	150.00	149.76	149.99	
9	149.70	149.78	150.31	150.73	150.25	150.67	150.27	150.19	149.83	149.96	149.75	150.21	
10	149.72	149.73	150.18	150.96	150.19	150.52	150.23	150.13	149.82	149.86	149.72	150.18	
11	149.92	149.72	150.20	150.73	150.16	152.41	150.19	150.08	149.82	149.85	149.72	150.05	
12	149.84	149.70	150.15	150.89	150.56	153.33	150.15	150.05	149.82	149.82	149.72	149.99	
13	149.85	149.70	150.05	150.91	150.57	152.75	150.11	150.03	149.82	149.77	149.71	149.95	
14	149.85	149.70	150.01	150.69	150.45	153.02	150.16	150.00	149.83	149.77	149.70	149.94	
15	149.84	149.71	150.00	150.51	150.43	152.65	150.32	149.98	149.82	149.75	149.70	149.92	
16	149.82	149.70	150.00	150.37	150.54	151.68	150.42	149.97	149.84	149.75	149.71	149.86	
17	149.82	149.70	149.99	150.24	150.52	151.00	150.43	149.96	149.85	149.74	149.84	149.86	
18	149.82	149.70	149.87	150.38	150.42	150.76	150.43	149.95	149.85	149.76	149.80	149.94	
19	149.82	149.70	149.81	150.45	150.34	151.20	150.44	149.93	149.85	149.95	149.76	150.01	
20	149.73	149.70	149.78	150.43	150.26	151.57	150.45	149.90	149.84	150.03	149.71	150.00	
21	149.71	149.74	149.78	150.40	150.21	150.94	150.50	149.90	149.83	149.93	149.70	150.22	
22	149.80	149.71	149.79	150.30	150.21	150.74	150.55	149.90	149.82	149.83	149.76	150.65	
23	149.80	149.70	150.42	150.23	150.35	150.64	150.48	149.90	149.81	149.83	149.80	150.48	
24	149.74	149.70	150.65	150.13	150.37	151.15	150.42	149.89	149.83	149.80	149.71	150.33	
25	149.72	149.70	150.36	150.04	150.57	151.24	150.38	149.89	149.94	149.77	149.70	150.18	
26	149.72	149.70	150.30	150.03	150.56	150.95	150.33	149.89	149.96	149.75	149.70	150.07	
27	149.73	149.70	150.47	150.02	150.50	150.75	150.27	149.88	149.96	149.75	149.72	150.00	
28	149.73	149.70	150.42	150.03	150.54	150.61	150.20	149.95	149.96	149.74	149.70	150.00	
29	149.72	149.71	150.41	150.18	150.49	150.71	150.13	149.96	149.90	149.73		149.96	
30	149.72	149.81	150.37	150.24	150.41	150.78	150.07	149.89	149.94	149.73		149.91	
31		149.91		150.26	150.37		150.05		149.92	149.71		149.87	
Mean	149.80	149.72	150.05	150.54	150.39	151.16	150.37	149.99	149.86	149.82	149.75	149.98	
Max	149.96	149.91	150.65	152.54	150.57	153.33	150.76	150.19	149.96	150.03	149.89	150.65	153.33
Min	149.70	149.70	149.70	150.02	150.16	150.27	150.05	149.88	149.81	149.71	149.70	149.68	149.68

Annual Max Momentary Gage Height 153.45 m. (MSL.) , at 06.00 Hours , on Sep 12, 2016

Zero Gage at Bottom Elevation 149.00 m. (MSL.) , River Bed 149.41 m. (MSL.)

Left Bank Elevation 154.56 m. (MSL.) ,

Right Bank Elevation 156.03 m. (MSL.) , Drainage Are 172 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.00	0.04	0.46	0.40	0.42	1.58	0.14	0.07	0.05	0.00	0.00		
2	0.04	0.00	0.02	0.24	0.34	0.58	1.55	0.15	0.06	0.05	0.00	0.00		
3	0.08	0.00	0.01	0.26	0.30	0.48	1.37	0.15	0.06	0.04	0.08	0.00		
4	0.10	0.00	0.00	0.38	0.30	0.34	1.19	0.16	0.06	0.03	0.07	0.00		
5	0.08	0.00	0.00	1.31	0.74	0.40	0.89	0.15	0.06	0.03	0.04	0.00		
6	0.08	0.00	0.00	11.82	0.86	2.75	0.68	0.14	0.06	0.02	0.03	0.00		
7	0.05	0.04	0.00	8.98	0.62	3.30	0.56	0.14	0.06	0.10	0.03	0.00		
8	0.01	0.04	0.16	3.60	0.54	2.06	0.44	0.18	0.06	0.12	0.02	0.12		
9	0.00	0.03	0.42	1.49	0.30	1.31	0.34	0.20	0.05	0.10	0.02	0.22		
10	0.01	0.01	0.19	2.34	0.20	0.86	0.26	0.17	0.05	0.06	0.01	0.19		
11	0.09	0.01	0.20	1.49	0.18	10.87	0.20	0.15	0.05	0.06	0.01	0.14		
12	0.06	0.00	0.18	2.06	0.98	18.14	0.18	0.14	0.05	0.05	0.01	0.12		
13	0.06	0.00	0.14	2.14	1.01	13.50	0.16	0.13	0.05	0.03	0.00	0.10		
14	0.06	0.00	0.12	1.37	0.70	15.66	0.18	0.12	0.05	0.03	0.00	0.10		
15	0.06	0.00	0.12	0.83	0.66	12.70	0.44	0.11	0.05	0.02	0.00	0.09		
16	0.05	0.00	0.12	0.54	0.92	5.98	0.64	0.11	0.06	0.02	0.00	0.06		
17	0.05	0.00	0.12	0.28	0.86	2.50	0.66	0.10	0.06	0.02	0.06	0.06		
18	0.05	0.00	0.07	0.56	0.64	1.58	0.66	0.10	0.06	0.02	0.04	0.10		
19	0.05	0.00	0.04	0.70	0.48	3.50	0.68	0.09	0.06	0.10	0.02	0.12		
20	0.01	0.00	0.03	0.66	0.32	5.35	0.70	0.08	0.06	0.13	0.00	0.12		
21	0.00	0.02	0.03	0.60	0.22	2.26	0.80	0.08	0.05	0.09	0.00	0.24		
22	0.04	0.00	0.04	0.40	0.22	1.52	0.95	0.08	0.05	0.05	0.02	1.25		
23	0.04	0.00	0.64	0.26	0.50	1.22	0.76	0.08	0.04	0.05	0.04	0.76		
24	0.02	0.00	1.25	0.17	0.54	3.25	0.64	0.08	0.05	0.04	0.00	0.46		
25	0.01	0.00	0.52	0.14	1.01	3.70	0.56	0.08	0.10	0.03	0.00	0.19		
26	0.01	0.00	0.40	0.13	0.98	2.30	0.46	0.08	0.10	0.02	0.00	0.15		
27	0.01	0.00	0.74	0.13	0.80	1.55	0.34	0.07	0.10	0.02	0.01	0.12		
28	0.01	0.00	0.64	0.13	0.92	1.13	0.20	0.10	0.10	0.02	0.00	0.12		
29	0.01	0.00	0.62	0.19	0.78	1.43	0.17	0.10	0.08	0.01		0.10		
30	0.01	0.04	0.54	0.28	0.62	1.64	0.15	0.08	0.10	0.01		0.08		
31		0.08		0.32	0.54		0.14		0.09	0.00		0.07		
Total	1.19	0.27	7.40	44.26	18.48	122.28	18.53	3.54	2.00	1.42	0.51	5.08	224.96	CMSDAY
Mean	0.04	0.01	0.25	1.43	0.60	4.08	0.60	0.12	0.06	0.05	0.02	0.16	0.62	CMS
Max	0.10	0.08	1.25	11.82	1.01	18.14	1.58	0.20	0.10	0.13	0.08	1.25	18.14	CMS
Min	0.00	0.00	0.00	0.13	0.18	0.34	0.14	0.07	0.04	0.00	0.00	0.00	0.00	CMS
Runoff	0.10	0.02	0.64	3.82	1.60	10.56	1.60	0.31	0.17	0.12	0.04	0.44	19.44	MCM

Momentary Peak 19.15 CMS. at 153.45 m. (MSL.) at 06.00 Hours , on Sep 12 , 2016

Runoff Yield 3.58 Liters/Second/Square KM. Momentary Peak Yield 111.340 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Kan Luang Dong **Amphoe** Dong Luang **Changwat** Muk Dahan

Drainge Area	1,119 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+147.800 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On left bank at the footpath of the bridge. **Elevation** +158.890 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The local weir situated downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

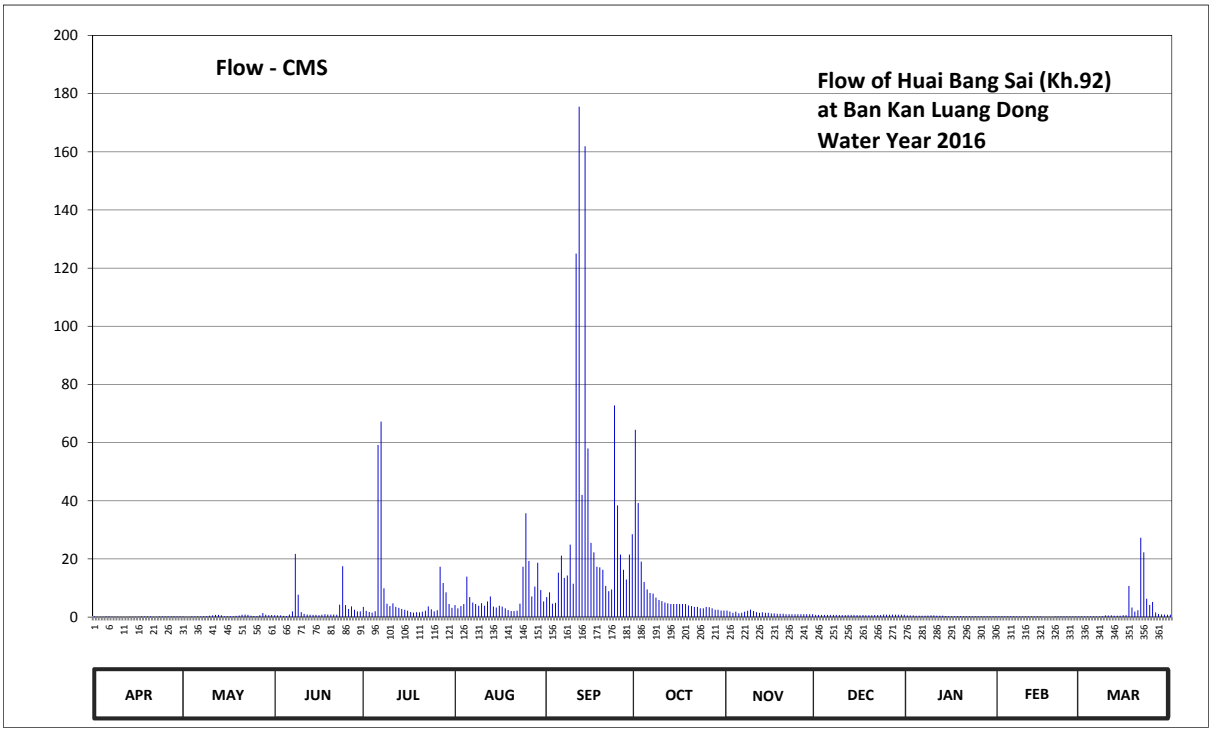
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.38	148.38	148.55	149.10	149.16	149.37	151.31	148.95	148.61	148.54	148.40	148.38	
2	148.35	148.35	148.53	148.93	149.05	149.45	150.68	148.88	148.60	148.53	148.40	148.38	
3	148.35	148.35	148.53	148.85	149.13	149.21	149.98	148.80	148.60	148.53	148.40	148.38	
4	148.35	148.38	148.48	148.81	149.20	149.24	149.63	148.87	148.60	148.50	148.40	148.38	
5	148.38	148.38	148.46	148.91	149.72	149.79	149.50	148.76	148.60	148.50	148.40	148.38	
6	148.38	148.38	148.66	151.18	149.37	150.08	149.44	148.80	148.60	148.50	148.40	148.38	
7	148.35	148.38	148.89	151.38	149.25	149.70	149.43	148.87	148.60	148.50	148.38	148.38	
8	148.35	148.40	150.11	149.52	149.20	149.74	149.36	148.94	148.60	148.51	148.38	148.43	
9	148.35	148.42	149.41	149.21	149.14	150.23	149.32	149.01	148.58	148.53	148.38	148.54	
10	148.33	148.50	148.84	149.13	149.23	149.60	149.30	148.92	148.58	148.53	148.38	148.52	
11	148.33	148.53	148.72	149.22	149.14	152.64	149.25	148.84	148.58	148.50	148.38	148.53	
12	148.33	148.60	148.65	149.10	149.29	153.52	149.22	148.80	148.60	148.50	148.38	148.50	
13	148.35	148.60	148.63	149.07	149.38	150.75	149.20	148.83	148.60	148.50	148.38	148.50	
14	148.35	148.54	148.60	149.03	149.11	153.29	149.20	148.80	148.60	148.45	148.38	148.50	
15	148.35	148.41	148.61	149.00	149.08	151.15	149.20	148.80	148.58	148.40	148.39	148.55	
16	148.35	148.40	148.56	148.94	149.14	150.25	149.20	148.75	148.55	148.40	148.35	148.57	
17	148.38	148.43	148.62	148.85	149.11	150.13	149.20	148.75	148.58	148.40	148.35	149.56	
18	148.38	148.41	148.69	148.81	149.05	149.89	149.20	148.73	148.55	148.44	148.35	149.08	
19	148.38	148.47	148.65	148.84	148.98	149.88	149.15	148.73	148.55	148.42	148.35	148.88	
20	148.38	148.51	148.62	148.83	148.92	149.84	149.13	148.73	148.57	148.40	148.38	148.97	
21	148.35	148.62	148.66	148.87	148.92	149.56	149.10	148.70	148.58	148.40	148.38	150.31	
22	148.35	148.64	148.63	148.94	148.94	149.47	149.10	148.70	148.58	148.40	148.38	150.13	
23	148.38	148.60	149.18	149.12	149.21	149.50	149.05	148.70	148.58	148.40	148.38	149.34	
24	148.38	148.50	149.90	149.02	149.89	151.52	149.05	148.70	148.64	148.40	148.38	149.17	
25	148.38	148.46	149.16	148.90	150.59	150.66	149.10	148.70	148.63	148.40	148.38	149.27	
26	148.38	148.43	149.03	148.97	149.99	150.10	149.09	148.70	148.63	148.40	148.38	148.82	
27	148.38	148.55	149.12	149.89	149.38	149.84	149.05	148.70	148.64	148.40	148.38	148.72	
28	148.40	148.77	149.00	149.61	149.55	149.67	149.00	148.70	148.63	148.40	148.38	148.67	
29	148.39	148.63	148.90	149.45	149.96	150.10	149.00	148.70	148.63	148.40		148.65	
30	148.38	148.57	148.90	149.20	149.49	150.35	148.95	148.69	148.63	148.40		148.63	
31		148.59		149.07	149.29		148.95		148.62	148.40		148.63	
Mean	148.36	148.49	148.84	149.22	149.32	150.28	149.33	148.78	148.60	148.45	148.38	148.78	
Max	148.40	148.77	150.11	151.38	150.59	153.52	151.31	149.01	148.64	148.54	148.40	150.31	153.52
Min	148.33	148.35	148.46	148.81	148.92	149.21	148.95	148.69	148.55	148.40	148.35	148.38	148.33

Annual Max Momentary Gage Height 154.74 m. (MSL.) , at 01.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 147.80 m. (MSL.) , River Bed 146.75 m. (MSL.)

Left Bank Elevation 158.91 m. (MSL.) ,

Right Bank Elevation 158.94 m. (MSL.) , Drainage Are 1119 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.20	0.63	3.50	4.10	6.90	64.40	2.25	0.78	0.60	0.25	0.20		
2	0.12	0.12	0.58	2.15	3.00	8.50	39.20	1.90	0.75	0.58	0.25	0.20		
3	0.12	0.12	0.58	1.75	3.80	4.60	19.10	1.50	0.75	0.58	0.25	0.20		
4	0.12	0.20	0.45	1.55	4.50	4.90	12.10	1.85	0.75	0.50	0.25	0.20		
5	0.20	0.20	0.40	2.05	13.90	15.30	9.50	1.30	0.75	0.50	0.25	0.20		
6	0.20	0.20	0.90	59.20	6.90	21.10	8.30	1.50	0.75	0.50	0.25	0.20		
7	0.12	0.20	1.95	67.20	5.00	13.50	8.10	1.85	0.75	0.50	0.20	0.20		
8	0.12	0.25	21.75	9.90	4.50	14.30	6.70	2.20	0.75	0.53	0.20	0.32		
9	0.12	0.30	7.70	4.60	3.90	24.90	5.90	2.60	0.70	0.58	0.20	0.60		
10	0.07	0.50	1.70	3.80	4.80	11.50	5.50	2.10	0.70	0.58	0.20	0.55		
11	0.07	0.58	1.10	4.70	3.90	125.00	5.00	1.70	0.70	0.50	0.20	0.58		
12	0.07	0.75	0.88	3.50	5.40	175.48	4.70	1.50	0.75	0.50	0.20	0.50		
13	0.12	0.75	0.83	3.20	7.10	42.00	4.50	1.65	0.75	0.50	0.20	0.50		
14	0.12	0.60	0.75	2.80	3.60	161.91	4.50	1.50	0.75	0.37	0.20	0.50		
15	0.12	0.27	0.78	2.50	3.30	58.00	4.50	1.50	0.70	0.25	0.22	0.63		
16	0.12	0.25	0.65	2.20	3.90	25.50	4.50	1.25	0.63	0.25	0.12	0.68		
17	0.20	0.32	0.80	1.75	3.60	22.25	4.50	1.25	0.70	0.25	0.12	10.70		
18	0.20	0.27	0.98	1.55	3.00	17.30	4.50	1.15	0.63	0.35	0.12	3.30		
19	0.20	0.42	0.88	1.70	2.40	17.10	4.00	1.15	0.63	0.30	0.12	1.90		
20	0.20	0.53	0.80	1.65	2.10	16.30	3.80	1.15	0.68	0.25	0.20	2.35		
21	0.12	0.80	0.90	1.85	2.10	10.70	3.50	1.00	0.70	0.25	0.20	27.30		
22	0.12	0.85	0.83	2.20	2.20	8.90	3.50	1.00	0.70	0.25	0.20	22.25		
23	0.20	0.75	4.30	3.70	4.60	9.50	3.00	1.00	0.70	0.25	0.20	6.30		
24	0.20	0.50	17.50	2.70	17.30	72.80	3.00	1.00	0.85	0.25	0.20	4.20		
25	0.20	0.40	4.10	2.00	35.70	38.40	3.50	1.00	0.83	0.25	0.20	5.20		
26	0.20	0.32	2.80	2.35	19.30	21.50	3.40	1.00	0.83	0.25	0.20	1.60		
27	0.20	0.63	3.70	17.30	7.10	16.30	3.00	1.00	0.85	0.25	0.20	1.10		
28	0.25	1.35	2.50	11.70	10.50	12.90	2.50	1.00	0.83	0.25	0.20	0.93		
29	0.22	0.83	2.00	8.50	18.70	21.50	2.50	1.00	0.83	0.25		0.88		
30	0.20	0.68	2.00	4.50	9.30	28.50	2.25	0.98	0.83	0.25		0.83		
31		0.73		3.20	5.40		2.25		0.80	0.25		0.83		
Total	4.72	14.87	85.72	241.25	224.90	1027.34	255.70	42.83	23.10	11.72	5.60	95.93	2033.68	CMSDAY
Mean	0.16	0.48	2.86	7.78	7.25	34.24	8.25	1.43	0.75	0.38	0.20	3.09	5.57	CMS
Max	0.25	1.35	21.75	67.20	35.70	175.48	64.40	2.60	0.85	0.60	0.25	27.30	175.48	CMS
Min	0.07	0.12	0.40	1.55	2.10	4.60	2.25	0.98	0.63	0.25	0.12	0.20	0.07	CMS
Runoff	0.41	1.28	7.41	20.84	19.43	88.76	22.09	3.70	2.00	1.01	0.48	8.29	175.71	MCM

Momentary Peak 257.80 CMS. at 154.74 m. (MSL.) at 01.00 Hours , on Sep 12 , 2016

Runoff Yield 4.98 Liters/Second/Square KM. Momentary Peak Yield 230.380 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Khok Kham Lai	**Amphoe** Ban Dung	**Changwat** Udon Thani
Drainge Area	760 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+153.100 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream side at the footpath of the bridge.	**Elevation**	+161.354 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The weir situated downstream from the gage site.		
	Stage-discharge relation defined by 16 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

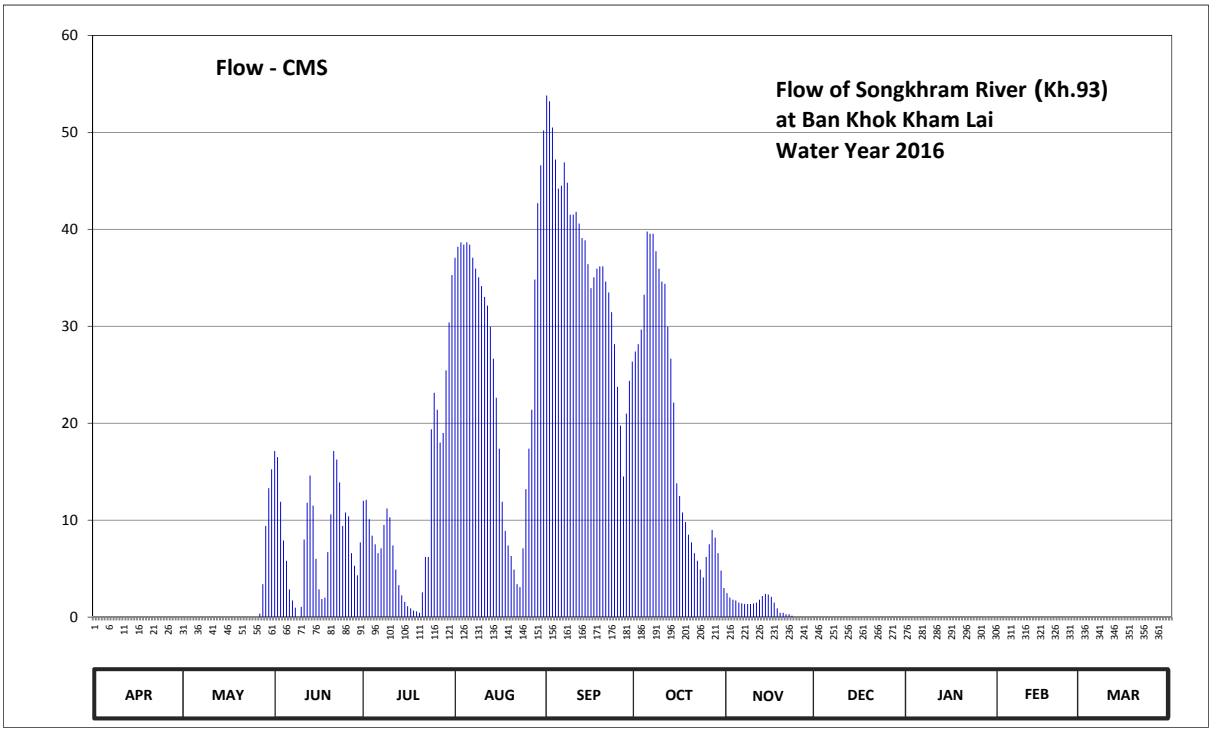
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.89	153.88	156.37	155.90	157.67	158.26	157.16	154.93	154.58	155.46	155.47	155.04	
2	153.88	153.88	156.32	155.91	157.72	158.24	157.21	154.87	154.58	155.50	155.46	155.04	
3	153.88	153.88	155.89	155.71	157.74	158.15	157.31	154.84	154.59	155.57	155.46	155.02	
4	153.88	153.88	155.49	155.54	157.73	158.04	157.50	154.83	154.59	155.60	155.45	155.02	
5	153.88	153.89	155.28	155.45	157.74	157.94	157.79	154.80	154.60	155.60	155.44	155.02	
6	153.86	153.89	154.98	155.36	157.73	157.95	157.78	154.79	154.60	155.60	155.44	155.00	
7	153.86	153.89	154.83	155.41	157.67	158.03	157.78	154.78	154.60	155.60	155.43	154.98	
8	153.86	153.89	154.73	155.65	157.62	157.96	157.70	154.78	154.58	155.60	155.42	154.98	
9	153.86	153.90	154.60	155.82	157.58	157.85	157.62	154.78	154.56	155.62	155.42	154.97	
10	153.86	153.90	154.74	155.73	157.54	157.85	157.56	154.79	154.55	155.62	155.41	154.97	
11	153.86	153.90	155.50	155.44	157.49	157.86	157.55	154.80	154.54	155.62	155.40	154.97	
12	153.86	153.90	155.88	155.19	157.45	157.82	157.33	154.84	154.53	155.62	155.38	154.97	
13	153.85	153.91	156.16	155.03	157.33	157.76	157.11	154.89	154.52	155.61	155.37	154.99	
14	153.85	153.91	155.85	154.90	157.11	157.75	156.77	154.92	154.51	155.59	155.36	154.99	
15	153.84	153.91	155.30	154.81	156.81	157.64	156.08	154.91	154.51	155.56	155.35	154.99	
16	153.84	153.91	154.98	154.75	156.39	157.53	155.95	154.88	154.51	155.53	155.33	154.99	
17	153.84	153.92	154.85	154.72	155.89	157.58	155.78	154.80	154.51	155.51	155.30	154.99	
18	153.84	153.92	154.87	154.69	155.59	157.62	155.68	154.72	154.51	155.50	155.29	154.99	
19	153.82	153.92	155.37	154.68	155.44	157.63	155.55	154.66	154.51	155.49	155.28	154.99	
20	153.82	153.92	155.76	154.66	155.33	157.63	155.47	154.66	154.51	155.48	155.26	154.99	
21	153.80	153.93	156.37	154.94	155.19	157.56	155.36	154.64	154.51	155.47	155.24	154.99	
22	153.80	153.93	156.30	155.32	155.04	157.51	155.28	154.64	154.51	155.47	155.19	154.99	
23	153.80	153.93	156.09	155.32	155.01	157.42	155.19	154.62	154.52	155.47	155.15	155.00	
24	153.80	153.93	155.64	156.55	155.41	157.21	155.11	154.60	154.66	155.47	155.10	155.00	
25	153.78	153.94	155.78	156.85	156.02	156.90	155.32	154.60	154.85	155.47	155.08	155.00	
26	153.78	153.98	155.74	156.71	156.39	156.58	155.45	154.60	155.01	155.47	155.07	155.00	
27	153.78	154.65	155.36	156.44	156.71	156.15	155.60	154.60	155.16	155.47	155.06	155.02	
28	153.78	155.04	155.23	156.52	157.57	156.68	155.52	154.60	155.30	155.47	155.06	155.02	
29	153.82	155.64	155.13	157.03	157.89	156.95	155.36	154.60	155.32	155.47		155.02	
30	153.88	156.03	155.47	157.36	158.02	157.09	155.18	154.59	155.36	155.47		155.02	
31		156.22		157.59	158.14		155.00		155.43	155.47		155.02	
Mean	153.84	154.17	155.50	155.68	156.87	157.57	156.36	154.75	154.70	155.53	155.31	155.00	
Max	153.89	156.22	156.37	157.59	158.14	158.26	157.79	154.93	155.43	155.62	155.47	155.04	158.26
Min	153.78	153.88	154.60	154.66	155.01	156.15	155.00	154.59	154.51	155.46	155.06	154.97	153.78

Annual Max Momentary Gage Height 158.27 m. (MSL.) , at 14.00 Hours , on Sep 1 , 2016

Zero Gage at Bottom Elevation 153.10 m. (MSL.) , River Bed 152.41 m. (MSL.)

Left Bank Elevation 161.11 m. (MSL.) ,

Right Bank Elevation 161.14 m. (MSL.) , Drainage Are 760 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	17.13	12.00	37.07	53.80	27.40	2.47	0.00	0.00	0.00	0.00	
2	0.00	0.00	16.50	12.10	38.20	53.20	28.15	2.02	0.00	0.00	0.00	0.00	
3	0.00	0.00	11.90	10.10	38.65	50.50	29.65	1.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	7.90	8.40	38.42	47.20	33.25	1.72	0.00	0.00	0.00	0.00	
5	0.00	0.00	5.80	7.50	38.65	44.20	39.77	1.50	0.00	0.00	0.00	0.00	
6	0.00	0.00	2.85	6.60	38.42	44.50	39.55	1.42	0.00	0.00	0.00	0.00	
7	0.00	0.00	1.72	7.10	37.07	46.90	39.55	1.35	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.97	9.50	35.95	44.80	37.75	1.35	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	11.20	35.05	41.50	35.95	1.35	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.05	10.30	34.15	41.50	34.60	1.42	0.00	0.00	0.00	0.00	
11	0.00	0.00	8.00	7.40	33.03	41.80	34.38	1.50	0.00	0.00	0.00	0.00	
12	0.00	0.00	11.80	4.90	32.13	40.60	29.95	1.80	0.00	0.00	0.00	0.00	
13	0.00	0.00	14.60	3.30	29.95	39.10	26.65	2.17	0.00	0.00	0.00	0.00	
14	0.00	0.00	11.50	2.25	26.65	38.87	22.13	2.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	6.00	1.57	22.63	36.40	13.80	2.32	0.00	0.00	0.00	0.00	
16	0.00	0.00	2.85	1.12	17.38	33.93	12.50	2.10	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.87	0.90	11.90	35.05	10.80	1.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	2.02	0.67	8.90	35.95	9.80	0.90	0.00	0.00	0.00	0.00	
19	0.00	0.00	6.70	0.60	7.40	36.18	8.50	0.45	0.00	0.00	0.00	0.00	
20	0.00	0.00	10.60	0.45	6.30	36.18	7.70	0.45	0.00	0.00	0.00	0.00	
21	0.00	0.00	17.13	2.55	4.90	34.60	6.60	0.30	0.00	0.00	0.00	0.00	
22	0.00	0.00	16.25	6.20	3.40	33.48	5.80	0.30	0.00	0.00	0.00	0.00	
23	0.00	0.00	13.90	6.20	3.10	31.45	4.90	0.15	0.00	0.00	0.00	0.00	
24	0.00	0.00	9.40	19.38	7.10	28.15	4.10	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	10.80	23.13	13.20	23.75	6.20	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	10.40	21.38	17.38	19.75	7.50	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.37	6.60	18.00	21.38	14.50	9.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	3.40	5.30	19.00	34.83	21.00	8.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	9.40	4.30	25.45	42.70	24.38	6.60	0.00	0.00	0.00		0.00	
30	0.00	13.30	7.70	30.40	46.60	26.35	4.80	0.00	0.00	0.00		0.00	
31		15.25		35.28	50.20		3.00		0.00	0.00		0.00	
Total	0.00	41.72	243.54	324.93	812.69	1099.57	588.53	32.74	0.00	0.00	0.00	0.00	3143.72	CMSDAY
Mean	0.00	1.35	8.12	10.48	26.22	36.65	18.98	1.09	0.00	0.00	0.00	0.00	8.61	CMS
Max	0.00	15.25	17.13	35.28	50.20	53.80	39.77	2.47	0.00	0.00	0.00	0.00	53.80	CMS
Min	0.00	0.00	0.00	0.45	3.10	14.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	3.60	21.04	28.07	70.22	95.00	50.85	2.83	0.00	0.00	0.00	0.00	271.62	MCM

Momentary Peak 54.10 CMS. at 158.27 m. (MSL.) at 14.00 Hours , on Sep 1 , 2016

Runoff Yield 11.33 Liters/Second/Square KM. Momentary Peak Yield 71.180 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Kaeng Hai	**Amphoe** Phu Rua	**Changwat** Loei
Drainge Area	352 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+593.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank upstream side at the footpath of the bridge.	**Elevation**	+605.713 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

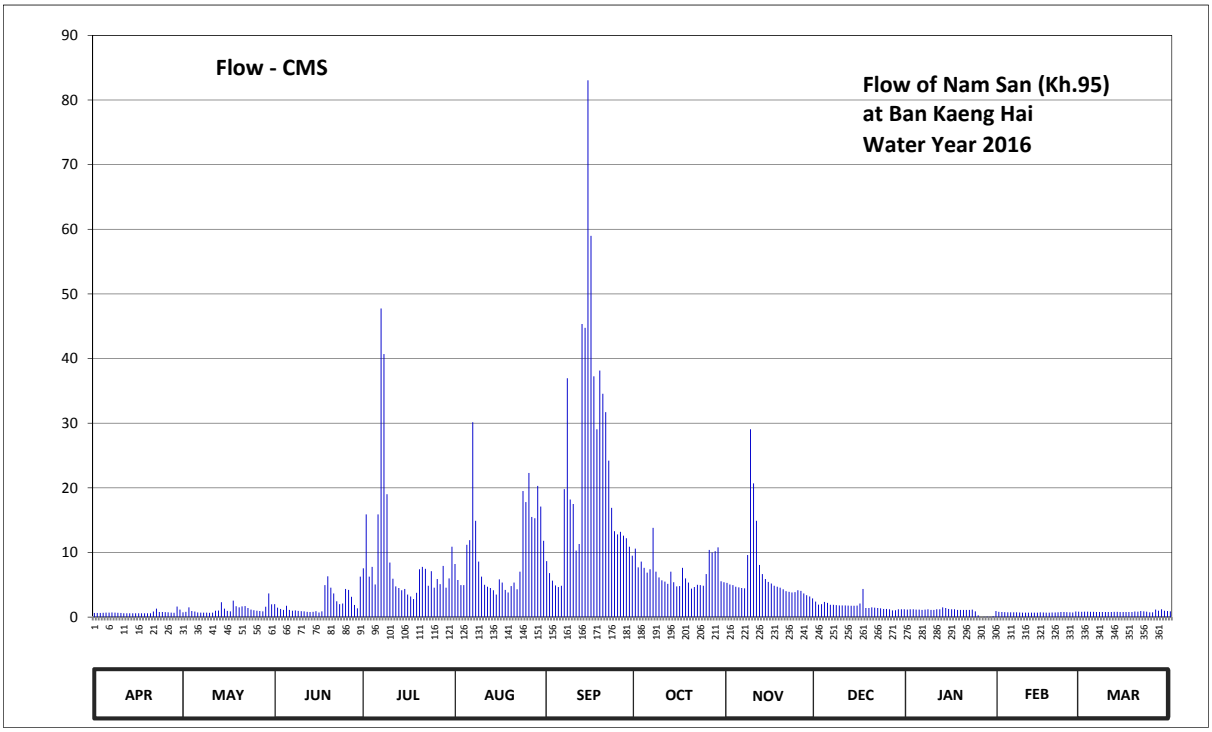
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	595.64	595.75	596.40	597.44	597.53	597.59	597.81	597.06	596.48	596.07	595.82	595.81	
2	595.64	595.81	596.18	598.34	597.15	597.34	597.46	597.01	596.37	596.08	595.78	595.85	
3	595.65	596.20	596.10	597.25	596.99	597.13	597.58	596.99	596.40	596.08	595.77	595.85	
4	595.66	595.93	596.05	597.47	596.99	596.98	597.45	596.94	596.47	596.07	595.74	595.82	
5	595.68	595.86	596.30	597.01	597.87	596.93	597.35	596.92	596.44	596.07	595.73	595.81	
6	595.70	595.72	596.04	598.34	597.94	596.97	597.42	596.90	596.36	596.05	595.73	595.80	
7	595.71	595.68	596.00	600.85	599.67	598.73	598.13	596.89	596.36	596.06	595.73	595.80	
8	595.70	595.68	596.02	600.38	598.24	600.13	597.37	597.71	596.34	596.08	595.71	595.80	
9	595.67	595.68	595.96	598.65	597.58	598.57	597.23	599.58	596.32	596.05	595.70	595.80	
10	595.63	595.67	595.91	597.56	597.25	598.50	597.14	598.82	596.32	596.05	595.70	595.80	
11	595.60	595.70	595.88	597.19	597.00	597.78	597.10	598.24	596.32	596.08	595.70	595.80	
12	595.60	595.98	595.81	596.95	596.94	597.88	597.03	597.51	596.31	596.08	595.70	595.81	
13	595.60	596.01	595.80	596.90	596.90	600.69	597.37	597.32	596.30	596.21	595.68	595.82	
14	595.60	596.46	595.82	596.83	596.83	600.65	597.08	597.18	596.30	596.17	595.69	595.80	
15	595.59	596.12	595.91	596.87	596.70	602.09	596.95	597.09	596.31	596.10	595.75	595.79	
16	595.59	595.97	595.71	596.70	597.17	601.40	596.96	597.04	596.42	596.09	595.71	595.80	
17	595.59	595.89	595.90	596.64	597.07	600.15	597.45	596.97	596.87	596.08	595.70	595.78	
18	595.59	596.51	596.99	596.56	596.84	599.58	597.20	596.94	596.16	596.05	595.70	595.79	
19	595.58	596.27	597.26	596.75	596.76	600.21	597.07	596.91	596.17	596.05	595.71	595.86	
20	595.59	596.20	596.91	597.42	596.96	599.97	596.88	596.86	596.20	596.04	595.72	595.85	
21	595.86	596.26	596.73	597.47	597.07	599.78	596.93	596.80	596.18	596.04	595.73	595.93	
22	596.12	596.28	596.49	597.43	596.86	599.17	597.00	596.78	596.17	596.05	595.80	595.89	
23	595.80	596.17	596.40	596.97	597.37	598.44	596.99	596.76	596.15	596.06	595.78	595.85	
24	595.79	596.07	596.42	597.38	598.70	598.08	596.97	596.77	596.10	595.89	595.77	595.74	
25	595.77	596.03	596.87	596.91	598.53	598.03	597.32	596.83	596.11	595.27	595.75	595.74	
26	595.73	596.00	596.84	597.18	598.98	598.07	597.79	596.81	596.08	595.00	595.72	596.06	
27	595.68	595.94	596.63	597.02	598.30	598.01	597.75	596.73	596.02	595.05	595.87	596.00	
28	595.66	595.89	596.35	597.49	598.28	597.97	597.77	596.68	596.03	595.08	595.85	596.09	
29	596.25	596.24	596.14	596.91	598.78	597.84	597.83	596.64	596.08	595.05		595.98	
30	596.06	596.73	597.25	597.20	598.46	597.70	597.11	596.58	596.08	595.15		595.93	
31		596.39		597.84	597.93		597.08		596.08	595.94		595.89	
Mean	595.71	596.04	596.30	597.48	597.60	598.75	597.31	597.14	596.27	595.88	595.74	595.85	
Max	596.25	596.73	597.26	600.85	599.67	602.09	598.13	599.58	596.87	596.21	595.87	596.09	602.09
Min	595.58	595.67	595.71	596.56	596.70	596.93	596.88	596.58	596.02	595.00	595.68	595.74	595.00

Annual Max Momentary Gage Height 602.33 m. (MSL.) , at 14.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 593.90 m. (MSL.) , River Bed 594.80 m. (MSL.)

Left Bank Elevation 604.57 m. (MSL.) ,

Right Bank Elevation 603.81 m. (MSL.) , Drainage Are 352 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.64	0.75	2.00	7.55	8.22	8.67	10.60	5.30	2.40	1.17	0.82	0.81		
2	0.64	0.81	1.45	15.90	5.75	6.80	7.70	5.05	1.92	1.20	0.78	0.85		
3	0.65	1.50	1.25	6.25	4.95	5.65	8.60	4.95	2.00	1.20	0.77	0.85		
4	0.66	0.93	1.12	7.78	4.95	4.90	7.63	4.70	2.35	1.17	0.74	0.82		
5	0.68	0.86	1.75	5.05	11.20	4.65	6.88	4.60	2.20	1.17	0.73	0.81		
6	0.70	0.72	1.10	15.90	11.90	4.85	7.40	4.50	1.90	1.12	0.73	0.80		
7	0.71	0.68	1.00	47.75	30.14	19.80	13.80	4.45	1.90	1.15	0.73	0.80		
8	0.70	0.68	1.05	40.70	14.90	36.95	7.03	9.60	1.85	1.20	0.71	0.80		
9	0.67	0.68	0.96	19.00	8.60	18.20	6.15	29.06	1.80	1.12	0.70	0.80		
10	0.63	0.67	0.91	8.45	6.25	17.50	5.70	20.70	1.80	1.12	0.70	0.80		
11	0.60	0.70	0.88	5.95	5.00	10.30	5.50	14.90	1.80	1.20	0.70	0.80		
12	0.60	0.98	0.81	4.75	4.70	11.30	5.15	8.07	1.77	1.20	0.70	0.81		
13	0.60	1.02	0.80	4.50	4.50	45.35	7.03	6.65	1.75	1.52	0.68	0.82		
14	0.60	2.30	0.82	4.15	4.15	44.75	5.40	5.90	1.75	1.42	0.69	0.80		
15	0.59	1.30	0.91	4.35	3.50	83.05	4.75	5.45	1.77	1.25	0.75	0.79		
16	0.59	0.97	0.71	3.50	5.85	59.00	4.80	5.20	2.10	1.22	0.71	0.80		
17	0.59	0.89	0.90	3.20	5.35	37.25	7.63	4.85	4.35	1.20	0.70	0.78		
18	0.59	2.55	4.95	2.80	4.20	29.06	6.00	4.70	1.40	1.12	0.70	0.79		
19	0.58	1.67	6.30	3.75	3.80	38.15	5.35	4.55	1.42	1.12	0.71	0.86		
20	0.59	1.50	4.55	7.40	4.80	34.55	4.40	4.30	1.50	1.10	0.72	0.85		
21	0.86	1.65	3.65	7.78	5.35	31.70	4.65	4.00	1.45	1.10	0.73	0.93		
22	1.30	1.70	2.45	7.48	4.30	24.20	5.00	3.90	1.42	1.12	0.80	0.89		
23	0.80	1.42	2.00	4.85	7.03	16.90	4.95	3.80	1.37	1.15	0.78	0.85		
24	0.79	1.17	2.10	7.10	19.50	13.30	4.85	3.85	1.25	0.89	0.77	0.74		
25	0.77	1.07	4.35	4.55	17.80	12.80	6.65	4.15	1.27	0.27	0.75	0.74		
26	0.73	1.00	4.20	5.90	22.30	13.20	10.40	4.05	1.20	0.00	0.72	1.15		
27	0.68	0.94	3.15	5.10	15.50	12.60	10.00	3.65	1.05	0.05	0.87	1.00		
28	0.66	0.89	1.87	7.93	15.30	12.20	10.20	3.40	1.07	0.08	0.85	1.22		
29	1.62	1.60	1.35	4.55	20.30	10.90	10.80	3.20	1.20	0.05		0.98		
30	1.15	3.65	6.25	6.00	17.10	9.50	5.55	2.90	1.20	0.15		0.93		
31		1.97		10.90	11.80		5.40		1.20	0.94		0.89		
Total	21.97	39.22	65.59	290.82	308.99	678.03	215.95	194.38	53.41	29.77	20.74	26.56	1945.43	CMSDAY
Mean	0.73	1.27	2.19	9.38	9.97	22.60	6.97	6.48	1.72	0.96	0.74	0.86	5.33	CMS
Max	1.62	3.65	6.30	47.75	30.14	83.05	13.80	29.06	4.35	1.52	0.87	1.22	83.05	CMS
Min	0.58	0.67	0.71	2.80	3.50	4.65	4.40	2.90	1.05	0.00	0.68	0.74	0.00	CMS
Runoff	1.90	3.39	5.67	25.13	26.70	58.58	18.66	16.79	4.61	2.57	1.79	2.29	168.09	MCM

Momentary Peak 95.80 CMS. at 602.33 m. (MSL.) at 14.00 Hours , on Sep 15 , 2016

Runoff Yield 15.14 Liters/Second/Square KM. Momentary Peak Yield 272.160 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge.

	Ban Tha Kok Daeng	**Amphoe** Se Ka	**Changwat** Bueng Kan
Drainge Area	5,089 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+134.600 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+152.552 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

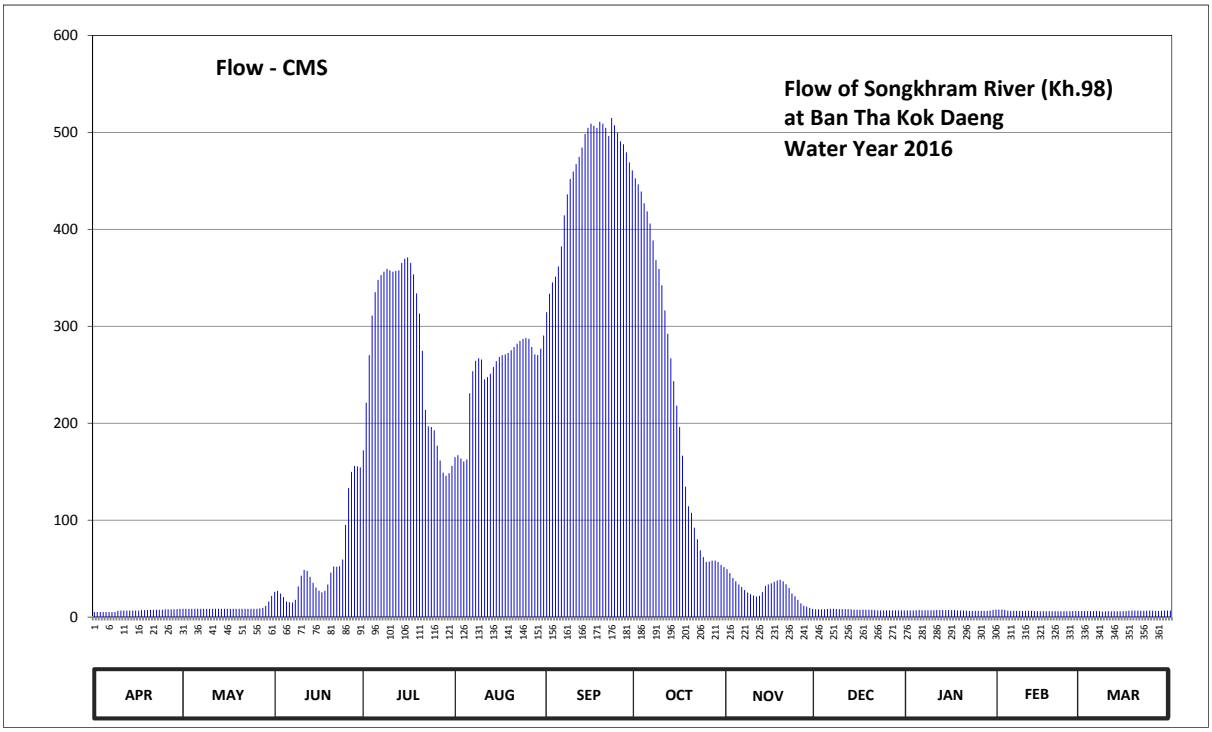
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.12	136.45	137.55	141.58	141.44	145.42	145.94	138.55	136.40	136.30	136.37	136.22	
2	136.12	136.45	137.60	142.47	141.48	145.65	145.86	138.41	136.40	136.30	136.37	136.22	
3	136.12	136.45	137.46	143.28	141.41	145.78	145.76	138.21	136.40	136.30	136.34	136.22	
4	136.12	136.45	137.28	143.91	141.35	145.84	145.60	138.08	136.41	136.31	136.26	136.22	
5	136.12	136.45	137.04	144.28	141.39	145.94	145.48	137.93	136.44	136.32	136.25	136.22	
6	136.12	136.45	136.99	144.47	142.63	146.12	145.30	137.80	136.46	136.31	136.25	136.22	
7	136.12	136.45	136.97	144.54	143.01	146.36	145.05	137.64	136.46	136.31	136.25	136.21	
8	136.13	136.45	137.14	144.59	143.19	146.50	144.76	137.52	136.44	136.31	136.25	136.18	
9	136.26	136.45	137.83	144.63	143.23	146.60	144.63	137.43	136.42	136.31	136.25	136.19	
10	136.27	136.45	138.31	144.61	143.21	146.64	144.39	137.36	136.42	136.31	136.25	136.21	
11	136.27	136.45	138.52	144.59	143.22	146.68	143.99	137.31	136.42	136.32	136.25	136.20	
12	136.27	136.45	138.49	144.60	143.45	146.72	143.62	137.35	136.42	136.32	136.25	136.21	
13	136.27	136.45	138.26	144.61	143.80	146.77	143.23	137.54	136.40	136.32	136.22	136.21	
14	136.27	136.45	138.01	144.72	144.12	146.84	142.84	137.85	136.36	136.32	136.21	136.21	
15	136.27	136.45	137.78	144.78	144.36	146.87	142.42	137.93	136.35	136.32	136.21	136.21	
16	136.27	136.45	137.61	144.80	144.51	146.89	142.02	137.99	136.36	136.32	136.21	136.23	
17	136.32	136.45	137.53	144.72	144.57	146.88	141.47	138.06	136.37	136.32	136.21	136.26	
18	136.32	136.45	137.61	144.55	144.60	146.87	140.79	138.11	136.36	136.30	136.21	136.27	
19	136.32	136.45	137.93	144.26	144.64	146.90	140.34	138.14	136.36	136.28	136.21	136.27	
20	136.35	136.45	138.43	143.94	144.72	146.89	140.19	138.07	136.36	136.27	136.21	136.27	
21	136.35	136.45	138.64	143.35	144.81	146.87	139.83	137.94	136.33	136.26	136.21	136.26	
22	136.35	136.45	138.63	142.34	144.88	146.83	139.52	137.75	136.30	136.25	136.21	136.25	
23	136.35	136.45	138.65	142.03	144.94	146.77	139.20	137.47	136.30	136.25	136.21	136.26	
24	136.35	136.45	138.88	142.02	144.98	146.67	138.96	137.33	136.30	136.25	136.21	136.27	
25	136.40	136.45	139.90	141.96	145.00	146.57	138.80	137.14	136.30	136.25	136.21	136.26	
26	136.41	136.46	140.76	141.67	144.98	146.45	138.81	136.91	136.30	136.25	136.22	136.25	
27	136.41	136.49	141.13	141.37	144.81	146.41	138.84	136.75	136.30	136.25	136.22	136.25	
28	136.41	136.55	141.26	141.11	144.60	146.30	138.84	136.68	136.30	136.25	136.22	136.25	
29	136.42	136.74	141.25	141.04	144.58	146.16	138.80	136.55	136.30	136.27		136.28	
30	136.45	137.04	141.23	141.10	144.77	146.05	138.70	136.44	136.30	136.34		136.28	
31		137.35		141.26	145.04		138.62		136.30	136.37		136.28	
Mean	136.28	136.51	138.49	143.33	143.80	146.47	142.02	137.61	136.37	136.30	136.24	136.24	
Max	136.45	137.35	141.26	144.80	145.04	146.90	145.94	138.55	136.46	136.37	136.37	136.28	146.90
Min	136.12	136.45	136.97	141.04	141.35	145.42	138.62	136.44	136.30	136.25	136.21	136.18	136.12

Annual Max Momentary Gage Height 146.90 m. (MSL.) , at 06.00 Hours , on Sep 19 , 2016

Zero Gage at Bottom Elevation 134.60 m. (MSL.) , River Bed 135.27 m. (MSL.)

Left Bank Elevation 150.94 m. (MSL.) ,

Right Bank Elevation 151.10 m. (MSL.) , Drainage Are 5089 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.20	8.50	26.00	172.00	165.00	314.60	452.50	49.50	8.00	7.00	7.70	6.20	
2	5.20	8.50	27.00	221.20	167.00	333.50	446.50	45.30	8.00	7.00	7.70	6.20	
3	5.20	8.50	24.20	270.20	163.50	345.20	439.00	40.25	8.00	7.00	7.40	6.20	
4	5.20	8.50	20.60	311.15	160.50	351.20	427.00	37.00	8.10	7.10	6.60	6.20	
5	5.20	8.50	16.10	335.20	162.50	361.70	418.60	33.60	8.40	7.20	6.50	6.20	
6	5.20	8.50	15.35	347.90	230.80	382.40	406.00	31.00	8.60	7.10	6.50	6.20	
7	5.20	8.50	15.05	352.80	253.60	414.40	388.50	27.80	8.60	7.10	6.50	6.10	
8	5.30	8.50	17.80	356.30	264.40	436.00	368.20	25.40	8.40	7.10	6.50	5.80	
9	6.60	8.50	31.60	359.10	266.95	452.00	359.10	23.60	8.20	7.10	6.50	5.90	
10	6.70	8.50	42.75	357.70	265.65	459.60	342.35	22.20	8.20	7.10	6.50	6.10	
11	6.70	8.50	48.60	356.30	245.20	467.20	316.35	21.20	8.20	7.20	6.50	6.00	
12	6.70	8.50	47.70	357.00	247.50	474.80	292.30	22.00	8.20	7.20	6.50	6.10	
13	6.70	8.50	41.50	357.70	251.00	484.30	266.95	25.80	8.00	7.20	6.20	6.10	
14	6.70	8.50	35.25	365.40	258.00	498.40	243.40	32.00	7.60	7.20	6.10	6.10	
15	6.70	8.50	30.60	369.60	264.00	504.70	218.20	33.60	7.50	7.20	6.10	6.10	
16	6.70	8.50	27.20	371.00	268.30	508.90	196.10	34.80	7.60	7.20	6.10	6.30	
17	7.20	8.50	25.60	365.40	270.10	506.80	166.50	36.50	7.70	7.20	6.10	6.60	
18	7.20	8.50	27.20	353.50	271.00	504.70	134.55	37.75	7.60	7.00	6.10	6.70	
19	7.20	8.50	33.60	333.90	272.40	511.00	114.30	38.50	7.60	6.80	6.10	6.70	
20	7.50	8.50	45.90	313.10	275.20	508.90	107.55	36.75	7.60	6.70	6.10	6.70	
21	7.50	8.50	52.20	274.75	278.50	504.70	92.20	33.80	7.30	6.60	6.10	6.60	
22	7.50	8.50	51.90	213.70	282.00	496.30	80.20	30.00	7.00	6.50	6.10	6.50	
23	7.50	8.50	52.50	196.65	285.00	514.75	69.00	24.40	7.00	6.50	6.10	6.60	
24	7.50	8.50	59.40	196.10	287.00	507.25	61.80	21.60	7.00	6.50	6.10	6.70	
25	8.00	8.50	95.00	192.80	288.00	499.75	57.00	17.80	7.00	6.50	6.10	6.60	
26	8.10	8.60	133.20	176.85	287.00	490.75	57.30	14.15	7.00	6.50	6.20	6.50	
27	8.10	8.90	149.85	161.50	278.50	487.75	58.20	11.75	7.00	6.50	6.20	6.50	
28	8.10	9.50	156.00	148.95	271.00	479.50	58.20	10.80	7.00	6.50	6.20	6.50	
29	8.20	11.60	155.50	145.80	270.40	469.00	57.00	9.50	7.00	6.70		6.80	
30	8.50	16.10	154.50	148.50	276.95	460.75	54.00	8.40	7.00	7.40		6.80	
31		22.00		156.00	290.40		51.60		7.00	7.70		6.80	
Total	203.30	289.20	1659.65	8638.05	7817.35	13730.80	6800.45	836.75	237.40	215.60	179.40	197.40	40805.35 CMSDAY
Mean	6.78	9.33	55.32	278.65	252.17	457.69	219.37	27.89	7.66	6.95	6.41	6.37	111.80 CMS
Max	8.50	22.00	156.00	371.00	290.40	514.75	452.50	49.50	8.60	7.70	7.70	6.80	514.75 CMS
Min	5.20	8.50	15.05	145.80	160.50	314.60	51.60	8.40	7.00	6.50	6.10	5.80	5.20 CMS
Runoff	17.57	24.99	143.39	746.33	675.42	1186.34	587.56	72.30	20.51	18.63	15.50	17.06	3525.58 MCM

Momentary Peak 511.00 CMS. at 146.90 m. (MSL.) at 06.00 Hours , on Sep 19 , 2016

Runoff Yield 21.97 Liters/Second/Square KM. Momentary Peak Yield 100.410 Liters/Second/Square KM.

WATER YEAR : 2016

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
Drainge Area	115 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+248.500 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+255.082 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

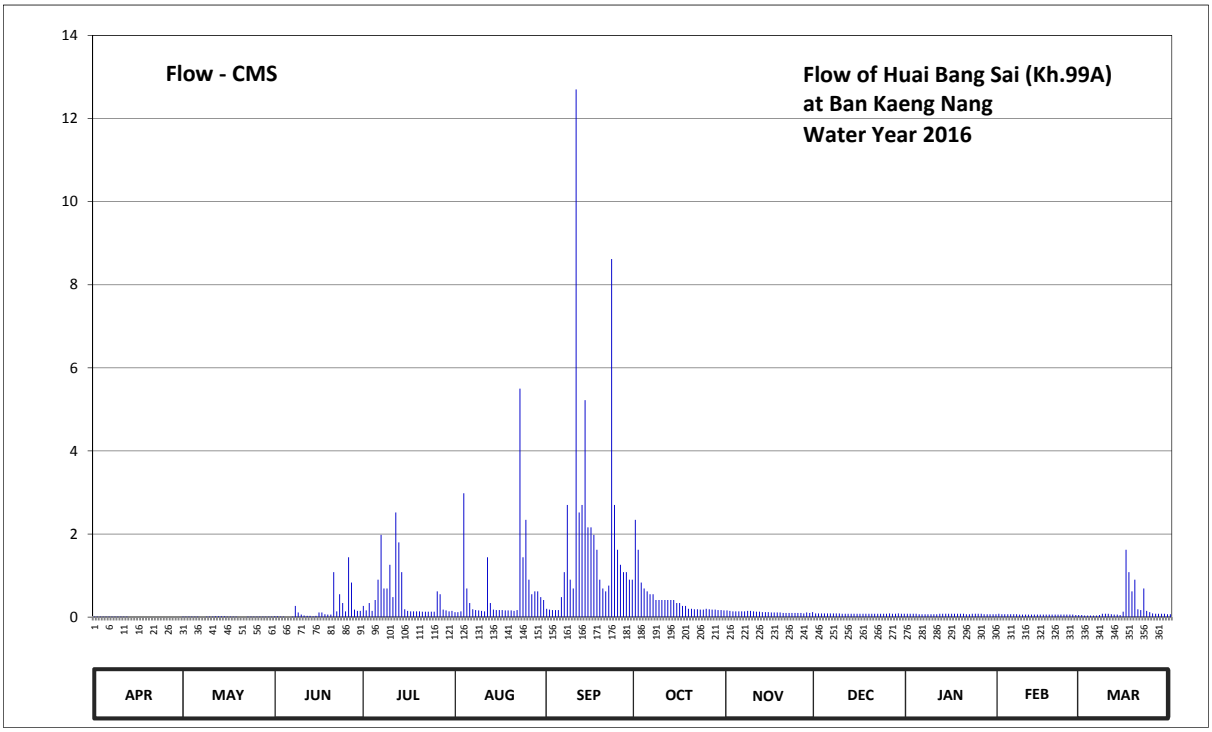
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.63	250.63	250.64	250.91	250.82	250.90	251.08	250.86	250.79	250.76	250.76	250.70	
2	250.63	250.63	250.64	250.86	250.82	250.88	251.04	250.85	250.79	250.76	250.74	250.69	
3	250.63	250.63	250.63	250.92	250.84	250.87	250.99	250.84	250.79	250.76	250.74	250.69	
4	250.63	250.62	250.62	250.85	251.11	250.87	250.97	250.84	250.79	250.76	250.74	250.69	
5	250.63	250.62	250.61	250.93	250.97	250.87	250.96	250.84	250.79	250.75	250.74	250.69	
6	250.63	250.62	250.60	251.00	250.92	250.94	250.95	250.84	250.79	250.75	250.74	250.69	
7	250.63	250.61	250.63	251.06	250.89	251.01	250.95	250.84	250.78	250.75	250.74	250.70	
8	250.62	250.61	250.91	250.97	250.87	251.10	250.93	250.85	250.78	250.75	250.73	250.77	
9	250.62	250.62	250.81	250.97	250.86	251.00	250.93	250.85	250.78	250.75	250.73	250.77	
10	250.62	250.62	250.73	251.02	250.85	250.97	250.93	250.84	250.77	250.75	250.73	250.76	
11	250.62	250.62	250.68	250.94	250.84	251.35	250.93	250.83	250.77	250.75	250.73	250.74	
12	250.62	250.64	250.67	251.09	251.03	251.09	250.93	250.83	250.77	250.76	250.73	250.73	
13	250.61	250.64	250.66	251.05	250.92	251.10	250.93	250.82	250.77	250.76	250.73	250.72	
14	250.61	250.64	250.65	251.01	250.88	251.19	250.93	250.82	250.77	250.77	250.73	250.71	
15	250.61	250.64	250.66	250.89	250.87	251.07	250.92	250.82	250.77	250.76	250.73	250.83	
16	250.61	250.63	250.81	250.85	250.87	251.07	250.92	250.81	250.77	250.76	250.73	251.04	
17	250.61	250.63	250.81	250.84	250.87	251.06	250.91	250.81	250.76	250.77	250.73	251.01	
18	250.61	250.62	250.75	250.84	250.86	251.04	250.91	250.81	250.76	250.77	250.72	250.96	
19	250.61	250.62	250.72	250.84	250.86	251.00	250.90	250.81	250.76	250.77	250.72	251.00	
20	250.61	250.61	250.72	250.84	250.86	250.97	250.90	250.80	250.76	250.77	250.72	250.89	
21	250.61	250.61	251.01	250.83	250.85	250.96	250.89	250.80	250.76	250.75	250.72	250.87	
22	250.61	250.61	250.84	250.83	250.87	250.98	250.89	250.80	250.76	250.75	250.72	250.97	
23	250.61	250.63	250.95	250.83	251.20	251.28	250.88	250.80	250.77	250.76	250.72	250.85	
24	250.61	250.63	250.92	250.83	251.03	251.10	250.88	250.80	250.77	250.76	250.72	250.82	
25	250.61	250.63	250.84	250.83	251.08	251.04	250.90	250.80	250.77	250.76	250.72	250.79	
26	250.61	250.63	251.03	250.96	251.00	251.02	250.89	250.80	250.78	250.76	250.72	250.77	
27	250.61	250.63	250.99	250.95	250.95	251.01	250.88	250.79	250.77	250.75	250.71	250.76	
28	250.60	250.63	250.88	250.88	250.96	251.01	250.88	250.81	250.77	250.74	250.71	250.76	
29	250.60	250.63	250.85	250.86	250.96	251.00	250.87	250.80	250.78	250.75		250.76	
30	250.60	250.63	250.85	250.84	250.94	251.00	250.87	250.82	250.77	250.75		250.75	
31		250.63		250.85	250.93		250.86		250.77	250.75		250.75	
Mean	250.62	250.63	250.77	250.91	250.92	251.03	250.92	250.82	250.77	250.76	250.73	250.79	
Max	250.63	250.64	251.03	251.09	251.20	251.35	251.08	250.86	250.79	250.77	250.76	251.04	251.35
Min	250.60	250.61	250.60	250.83	250.82	250.87	250.86	250.79	250.76	250.74	250.71	250.69	250.60

Annual Max Momentary Gage Height 251.51 m. (MSL.) , at 07.00 Hours , on Aug 23 , 2016

Zero Gage at Bottom Elevation 248.50 m. (MSL.) , River Bed 250.58 m. (MSL.)

Left Bank Elevation 257.32 m. (MSL.) ,

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



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	0.01	0.02	0.27	0.12	0.20	2.34	0.16	0.09	0.08	0.08	0.05		
2	0.01	0.01	0.02	0.16	0.12	0.18	1.62	0.15	0.09	0.08	0.07	0.04		
3	0.01	0.01	0.01	0.34	0.14	0.17	0.83	0.14	0.09	0.08	0.07	0.04		
4	0.01	0.01	0.01	0.15	2.98	0.17	0.69	0.14	0.09	0.08	0.07	0.04		
5	0.01	0.01	0.00	0.41	0.69	0.17	0.62	0.14	0.09	0.07	0.07	0.04		
6	0.01	0.01	0.00	0.90	0.34	0.48	0.55	0.14	0.09	0.07	0.07	0.04		
7	0.01	0.00	0.01	1.98	0.19	1.08	0.55	0.14	0.09	0.07	0.07	0.05		
8	0.01	0.00	0.27	0.69	0.17	2.70	0.41	0.15	0.09	0.07	0.06	0.08		
9	0.01	0.01	0.11	0.69	0.16	0.90	0.41	0.15	0.09	0.07	0.06	0.08		
10	0.01	0.01	0.06	1.26	0.15	0.69	0.41	0.14	0.08	0.07	0.06	0.08		
11	0.01	0.01	0.04	0.48	0.14	12.70	0.41	0.13	0.08	0.07	0.06	0.07		
12	0.01	0.02	0.03	2.52	1.44	2.52	0.41	0.13	0.08	0.08	0.06	0.06		
13	0.00	0.02	0.03	1.80	0.34	2.70	0.41	0.12	0.08	0.08	0.06	0.06		
14	0.00	0.02	0.02	1.08	0.18	5.22	0.41	0.12	0.08	0.08	0.06	0.05		
15	0.00	0.02	0.03	0.19	0.17	2.16	0.34	0.12	0.08	0.08	0.06	0.13		
16	0.00	0.01	0.11	0.15	0.17	2.16	0.34	0.11	0.08	0.08	0.06	1.62		
17	0.00	0.01	0.11	0.14	0.17	1.98	0.27	0.11	0.08	0.08	0.06	1.08		
18	0.00	0.01	0.07	0.14	0.16	1.62	0.27	0.11	0.08	0.08	0.06	0.62		
19	0.00	0.01	0.06	0.14	0.16	0.90	0.20	0.11	0.08	0.08	0.06	0.90		
20	0.00	0.00	0.06	0.14	0.16	0.69	0.20	0.10	0.08	0.08	0.06	0.19		
21	0.00	0.00	1.08	0.13	0.15	0.62	0.19	0.10	0.08	0.07	0.06	0.17		
22	0.00	0.00	0.14	0.13	0.17	0.76	0.19	0.10	0.08	0.07	0.06	0.69		
23	0.00	0.01	0.55	0.13	5.50	8.62	0.18	0.10	0.08	0.08	0.06	0.15		
24	0.00	0.01	0.34	0.13	1.44	2.70	0.18	0.10	0.08	0.08	0.06	0.12		
25	0.00	0.01	0.14	0.13	2.34	1.62	0.20	0.10	0.08	0.08	0.06	0.09		
26	0.00	0.01	1.44	0.62	0.90	1.26	0.19	0.10	0.09	0.08	0.06	0.08		
27	0.00	0.01	0.83	0.55	0.55	1.08	0.18	0.09	0.08	0.07	0.05	0.08		
28	0.00	0.01	0.18	0.18	0.62	1.08	0.18	0.11	0.08	0.07	0.05	0.08		
29	0.00	0.01	0.15	0.16	0.62	0.90	0.17	0.10	0.09	0.07		0.08		
30	0.00	0.01	0.15	0.14	0.48	0.90	0.17	0.12	0.08	0.07		0.07		
31		0.01		0.15	0.41		0.16		0.08	0.07		0.07		
Total	0.12	0.30	6.07	16.08	21.33	58.93	13.68	3.63	2.59	2.34	1.74	7.00	133.81	CMSDAY
Mean	0.00	0.01	0.20	0.52	0.69	1.96	0.44	0.12	0.08	0.08	0.06	0.23	0.37	CMS
Max	0.01	0.02	1.44	2.52	5.50	12.70	2.34	0.16	0.09	0.08	0.08	1.62	12.70	CMS
Min	0.00	0.00	0.00	0.13	0.12	0.17	0.16	0.09	0.08	0.07	0.05	0.04	0.00	CMS
Runoff	0.01	0.03	0.52	1.39	1.84	5.09	1.18	0.31	0.22	0.20	0.15	0.60	11.56	MCM

Momentary Peak 26.75 CMS. at 251.51 m. (MSL.) at 07.00 Hours , on Aug 23 , 2016

Runoff Yield 3.19 Liters/Second/Square KM. Momentary Peak Yield 232.610 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

	Ban Kaen Tao	**Amphoe** Mueang	**Changwat** Mukdahan
Drainge Area	414 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+136.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank about 1 meter from the top staff gage.	**Elevation**	+146.237 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +142.79 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

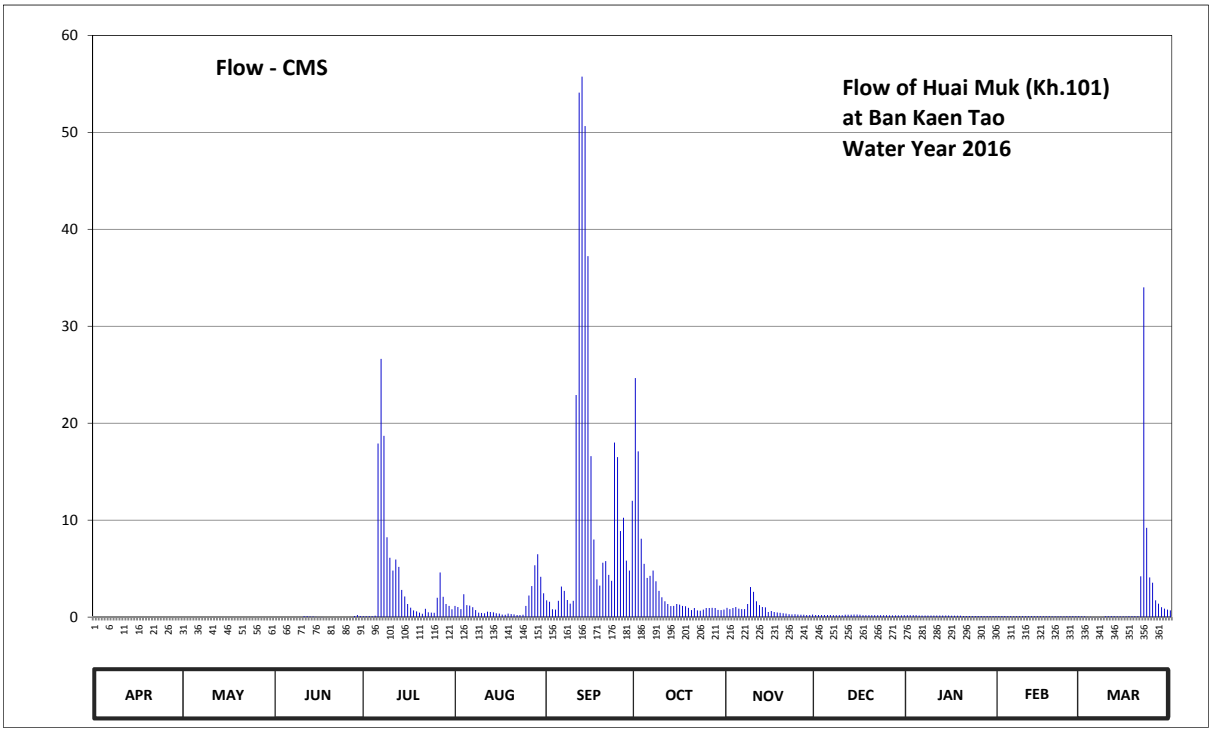
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.50	137.36	137.40	137.55	138.08	138.25	141.15	137.98	137.61	137.60	137.56	137.54	
2	137.49	137.36	137.39	137.55	138.02	138.22	140.41	137.91	137.61	137.60	137.56	137.54	
3	137.49	137.35	137.39	137.55	137.91	137.90	139.41	137.97	137.61	137.60	137.56	137.52	
4	137.48	137.35	137.39	137.55	138.39	137.89	139.01	138.02	137.61	137.60	137.55	137.52	
5	137.48	137.35	137.39	137.57	138.11	138.24	138.73	137.94	137.61	137.58	137.55	137.51	
6	137.48	137.34	137.39	140.49	138.09	138.55	138.77	137.91	137.61	137.58	137.55	137.51	
7	137.46	137.34	137.39	141.33	138.01	138.46	138.88	137.91	137.60	137.58	137.55	137.51	
8	137.46	137.34	137.40	140.57	137.86	138.26	138.66	138.15	137.60	137.58	137.55	137.51	
9	137.46	137.34	137.41	139.43	137.73	138.16	138.46	138.54	137.60	137.58	137.55	137.55	
10	137.45	137.34	137.48	139.12	137.71	138.24	138.32	138.44	137.60	137.58	137.55	137.55	
11	137.45	137.33	137.55	138.88	137.70	140.99	138.23	138.23	137.62	137.58	137.55	137.55	
12	137.44	137.33	137.55	139.09	137.78	143.34	138.15	138.11	137.62	137.58	137.55	137.55	
13	137.44	137.33	137.53	138.95	137.76	143.45	138.07	138.02	137.62	137.58	137.55	137.54	
14	137.44	137.33	137.53	138.48	137.75	143.11	138.08	138.00	137.63	137.58	137.55	137.54	
15	137.43	137.33	137.52	138.34	137.70	142.16	138.15	137.76	137.63	137.58	137.55	137.54	
16	137.43	137.33	137.51	138.15	137.68	140.36	138.13	137.81	137.62	137.57	137.55	137.54	
17	137.43	137.32	137.51	137.99	137.63	139.40	138.08	137.76	137.60	137.57	137.55	137.55	
18	137.42	137.32	137.50	137.85	137.62	138.70	138.06	137.74	137.60	137.57	137.55	137.55	
19	137.42	137.31	137.50	137.80	137.68	138.57	137.98	137.72	137.60	137.57	137.54	137.55	
20	137.40	137.31	137.50	137.73	137.66	139.03	137.86	137.70	137.60	137.56	137.54	137.55	
21	137.39	137.32	137.50	137.67	137.64	139.06	137.97	137.68	137.60	137.56	137.54	138.76	
22	137.39	137.36	137.50	137.93	137.61	138.79	137.85	137.65	137.60	137.56	137.54	141.93	
23	137.39	137.35	137.50	137.75	137.61	138.67	137.83	137.64	137.60	137.56	137.54	139.55	
24	137.39	137.35	137.50	137.73	137.62	140.50	137.89	137.65	137.60	137.56	137.55	138.74	
25	137.38	137.35	137.49	137.72	138.08	140.35	137.97	137.63	137.60	137.56	137.55	138.63	
26	137.38	137.34	137.49	138.31	138.36	139.51	137.97	137.62	137.59	137.56	137.55	138.25	
27	137.37	137.34	137.50	138.84	138.56	139.68	137.98	137.62	137.59	137.56	137.55	138.16	
28	137.37	137.34	137.56	138.33	138.98	139.07	137.97	137.61	137.59	137.56	137.55	138.01	
29	137.37	137.34	137.61	138.15	139.18	138.88	137.87	137.61	137.59	137.56		137.94	
30	137.36	137.40	137.56	138.08	138.75	139.90	137.86	137.63	137.59	137.56		137.89	
31		137.40		137.90	138.41		137.89		137.60	137.56		137.85	
Mean	137.43	137.34	137.48	138.40	137.99	139.52	138.38	137.87	137.60	137.57	137.55	137.95	
Max	137.50	137.40	137.61	141.33	139.18	143.45	141.15	138.54	137.63	137.60	137.56	141.93	143.45
Min	137.36	137.31	137.39	137.55	137.61	137.89	137.83	137.61	137.59	137.56	137.54	137.51	137.31

Annual Max Momentary Gage Height 143.51 m. (MSL.) , at 02.00 Hours , on Sep 13 , 2016

Zero Gage at Bottom Elevation 136.90 m. (MSL.) , River Bed 136.92 m. (MSL.)

Left Bank Elevation 142.78 m. (MSL.) ,

Right Bank Elevation 142.92 m. (MSL.) , Drainage Are 414 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.10	1.16	1.73	24.65	0.96	0.22	0.20	0.12	0.08		
2	0.00	0.00	0.00	0.10	1.04	1.59	17.10	0.82	0.22	0.20	0.12	0.08		
3	0.00	0.00	0.00	0.10	0.82	0.80	8.08	0.94	0.22	0.20	0.12	0.04		
4	0.00	0.00	0.00	0.10	2.36	0.78	5.50	1.04	0.22	0.20	0.10	0.04		
5	0.00	0.00	0.00	0.14	1.23	1.68	4.05	0.88	0.22	0.16	0.10	0.02		
6	0.00	0.00	0.00	17.90	1.18	3.15	4.25	0.82	0.22	0.16	0.10	0.02		
7	0.00	0.00	0.00	26.63	1.02	2.70	4.80	0.82	0.20	0.16	0.10	0.02		
8	0.00	0.00	0.00	18.70	0.72	1.77	3.70	1.35	0.20	0.16	0.10	0.02		
9	0.00	0.00	0.00	8.24	0.46	1.38	2.70	3.10	0.20	0.16	0.10	0.10		
10	0.00	0.00	0.00	6.12	0.42	1.68	2.04	2.60	0.20	0.16	0.10	0.10		
11	0.00	0.00	0.10	4.80	0.40	22.90	1.64	1.64	0.24	0.16	0.10	0.10		
12	0.00	0.00	0.10	5.94	0.56	54.10	1.35	1.23	0.24	0.16	0.10	0.10		
13	0.00	0.00	0.06	5.18	0.52	55.75	1.14	1.04	0.24	0.16	0.10	0.08		
14	0.00	0.00	0.06	2.80	0.50	50.65	1.16	1.00	0.26	0.16	0.10	0.08		
15	0.00	0.00	0.04	2.13	0.40	37.24	1.35	0.52	0.26	0.16	0.10	0.08		
16	0.00	0.00	0.02	1.35	0.36	16.60	1.29	0.62	0.24	0.14	0.10	0.08		
17	0.00	0.00	0.02	0.98	0.26	8.00	1.16	0.52	0.20	0.14	0.10	0.10		
18	0.00	0.00	0.00	0.70	0.24	3.90	1.12	0.48	0.20	0.14	0.10	0.10		
19	0.00	0.00	0.00	0.60	0.36	3.25	0.96	0.44	0.20	0.14	0.08	0.10		
20	0.00	0.00	0.00	0.46	0.32	5.61	0.72	0.40	0.20	0.12	0.08	0.10		
21	0.00	0.00	0.00	0.34	0.28	5.78	0.94	0.36	0.20	0.12	0.08	4.20		
22	0.00	0.00	0.00	0.86	0.22	4.35	0.70	0.30	0.20	0.12	0.08	34.02		
23	0.00	0.00	0.00	0.50	0.22	3.75	0.66	0.28	0.20	0.12	0.08	9.20		
24	0.00	0.00	0.00	0.46	0.24	18.00	0.78	0.30	0.20	0.12	0.10	4.10		
25	0.00	0.00	0.00	0.44	1.16	16.50	0.94	0.26	0.20	0.12	0.10	3.55		
26	0.00	0.00	0.00	2.00	2.22	8.88	0.94	0.24	0.18	0.12	0.10	1.73		
27	0.00	0.00	0.00	4.60	3.20	10.24	0.96	0.24	0.18	0.12	0.10	1.38		
28	0.00	0.00	0.12	2.09	5.34	5.83	0.94	0.22	0.18	0.12	0.10	1.02		
29	0.00	0.00	0.22	1.35	6.48	4.80	0.74	0.22	0.18	0.12		0.88		
30	0.00	0.00	0.12	1.16	4.15	12.00	0.72	0.26	0.18	0.12		0.78		
31		0.00		0.80	2.45		0.78		0.20	0.12		0.70		
Total	0.00	0.00	0.86	117.67	40.29	365.39	97.86	23.90	6.50	4.56	2.76	63.00	722.79	CMSDAY
Mean	0.00	0.00	0.03	3.80	1.30	12.18	3.16	0.80	0.21	0.15	0.10	2.03	1.98	CMS
Max	0.00	0.00	0.22	26.63	6.48	55.75	24.65	3.10	0.26	0.20	0.12	34.02	55.75	CMS
Min	0.00	0.00	0.00	0.10	0.22	0.78	0.66	0.22	0.18	0.12	0.08	0.02	0.00	CMS
Runoff	0.00	0.00	0.07	10.17	3.48	31.57	8.46	2.06	0.56	0.39	0.24	5.44	62.45	MCM

Momentary Peak 56.65 CMS. at 143.51 m. (MSL.) at 02.00 Hours , on Sep 13 , 2016

Runoff Yield 4.78 Liters/Second/Square KM. Momentary Peak Yield 136.840 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Non Toom **Amphoe** Mueang **Changwat** Udon Thani

Drainge Area	1,235 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+166.500 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank downstream side at the footpath of the bridge. **Elevation** +172.486 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	2004 to date
Rating Operation	
Period of Rating	2004 to date
Rated by Flot	-
Rated by Current Meter	2004 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

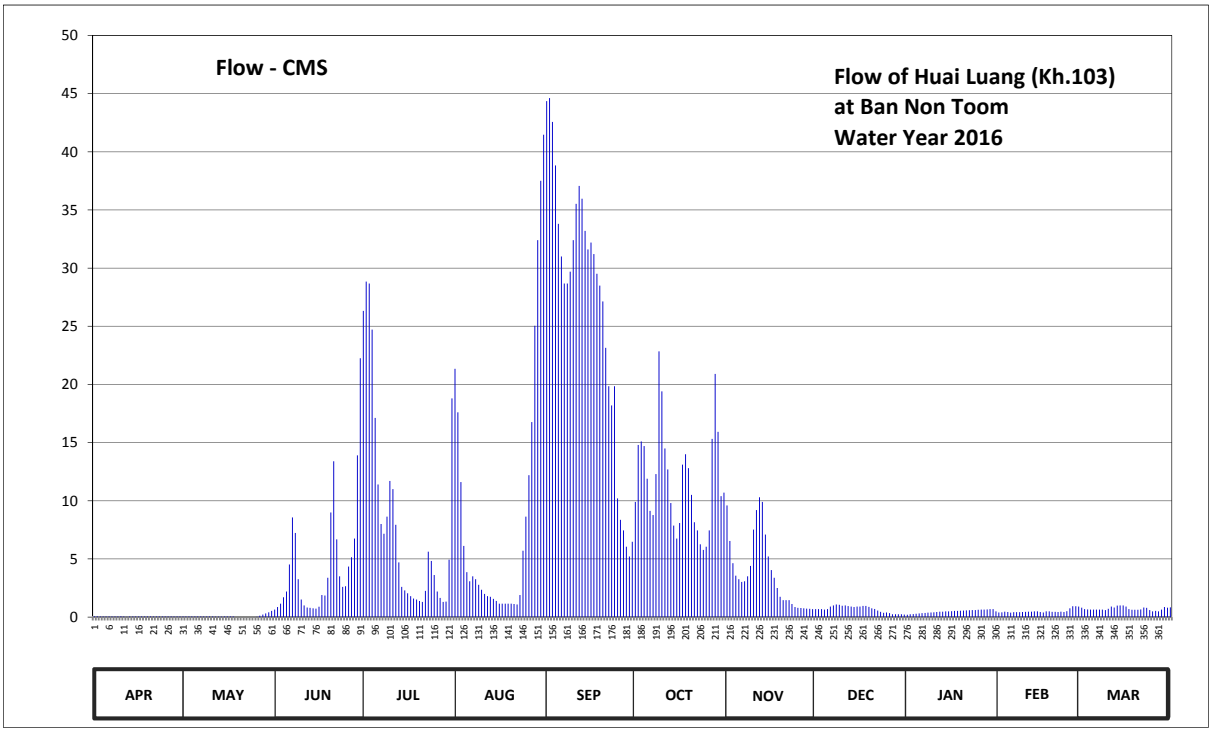
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.66	166.65	167.12	170.17	169.85	171.05	168.87	168.84	167.15	166.77	166.92	167.25	
2	166.66	166.65	167.29	170.32	169.60	171.06	169.36	168.42	167.14	166.79	166.93	167.14	
3	166.65	166.65	167.45	170.31	169.04	170.98	169.39	168.14	167.14	166.81	166.97	167.13	
4	166.65	166.65	167.62	170.07	168.36	170.81	169.35	167.96	167.11	166.83	166.95	167.12	
5	166.65	166.65	167.72	169.56	168.01	170.58	169.07	167.91	167.14	166.85	166.91	167.12	
6	166.65	166.65	168.12	169.02	167.88	170.44	168.79	167.87	167.33	166.87	166.94	167.12	
7	166.65	166.65	168.71	168.63	167.95	170.31	168.74	167.88	167.40	166.89	166.94	167.12	
8	166.65	166.65	168.52	168.51	167.91	170.31	169.11	167.95	167.43	166.91	166.94	167.11	
9	166.65	166.65	167.91	168.72	167.83	170.37	169.95	168.10	167.42	166.92	166.95	167.08	
10	166.66	166.65	167.57	169.05	167.75	170.51	169.72	168.56	167.38	166.93	166.96	167.17	
11	166.64	166.65	167.40	168.98	167.68	170.66	169.33	168.80	167.40	166.95	166.97	167.33	
12	166.62	166.63	167.26	168.62	167.64	170.73	169.15	168.91	167.36	166.97	166.98	167.26	
13	166.65	166.63	167.24	168.15	167.63	170.68	168.86	168.87	167.32	166.98	166.99	167.39	
14	166.65	166.63	167.20	167.80	167.59	170.55	168.61	168.50	167.29	166.99	167.00	167.40	
15	166.65	166.64	167.18	167.74	167.53	170.47	168.45	168.23	167.32	167.00	166.95	167.40	
16	166.65	166.65	167.31	167.69	167.45	170.50	168.64	168.04	167.32	167.01	166.92	167.32	
17	166.65	166.65	167.66	167.64	167.45	170.45	169.19	167.93	167.37	167.02	166.99	167.14	
18	166.65	166.64	167.65	167.60	167.45	170.36	169.28	167.78	167.37	167.03	166.99	167.10	
19	166.65	166.60	167.93	167.57	167.45	170.30	169.16	167.63	167.30	167.04	166.96	167.10	
20	166.65	166.60	168.77	167.53	167.45	170.22	168.93	167.55	167.21	167.05	166.96	167.10	
21	166.65	166.60	169.22	167.50	167.44	169.97	168.65	167.55	167.16	167.06	166.95	167.13	
22	166.65	166.60	168.44	167.73	167.43	169.75	168.55	167.55	167.05	167.07	166.98	167.26	
23	166.65	166.60	167.95	168.29	167.66	169.64	168.38	167.44	166.96	167.08	166.95	167.23	
24	166.65	166.60	167.80	168.17	168.30	169.75	168.31	167.29	166.90	167.09	167.01	167.09	
25	166.65	166.60	167.81	167.97	168.72	168.90	168.35	167.24	166.92	167.10	167.20	167.00	
26	166.65	166.62	168.09	167.72	169.10	168.68	168.55	167.22	166.87	167.11	167.35	167.02	
27	166.65	166.70	168.22	167.61	169.53	168.55	169.41	167.20	166.80	167.12	167.34	167.00	
28	166.65	166.78	168.45	167.50	170.09	168.35	169.82	167.18	166.80	167.13	167.32	167.11	
29	166.65	166.85	169.27	167.51	170.51	168.23	169.46	167.17	166.80	167.15		167.29	
30	166.65	166.93	169.91	168.19	170.75	168.41	168.92	167.15	166.80	167.15		167.25	
31		167.02		169.68	170.93		168.95		166.78	166.99		167.27	
Mean	166.65	166.67	167.96	168.44	168.39	170.05	169.01	167.90	167.15	166.99	167.01	167.18	
Max	166.66	167.02	169.91	170.32	170.93	171.06	169.95	168.91	167.43	167.15	167.35	167.40	171.06
Min	166.62	166.60	167.12	167.50	167.43	168.23	168.31	167.15	166.78	166.77	166.91	167.00	166.60

Annual Max Momentary Gage Height 171.08 m. (MSL.) , at 11.00 Hours , on Sep 1 , 2016

Zero Gage at Bottom Elevation 166.50 m. (MSL.) , River Bed 166.56 m. (MSL.)

Left Bank Elevation 172.69 m. (MSL.) ,

Right Bank Elevation 172.20 m. (MSL.) , Drainage Are 1235 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.06	0.65	26.32	21.35	44.35	9.90	9.60	0.69	0.21	0.40	0.81	
2	0.07	0.06	0.86	28.84	17.60	44.62	14.80	6.54	0.68	0.24	0.41	0.68	
3	0.06	0.06	1.15	28.67	11.60	42.56	15.10	4.64	0.68	0.26	0.46	0.66	
4	0.06	0.06	1.70	24.72	6.12	38.82	14.70	3.56	0.64	0.29	0.44	0.65	
5	0.06	0.06	2.20	17.12	3.86	33.80	11.90	3.26	0.68	0.31	0.39	0.65	
6	0.06	0.06	4.52	11.40	3.08	31.00	9.13	3.02	0.91	0.34	0.42	0.65	
7	0.06	0.06	8.57	8.01	3.50	28.67	8.78	3.08	1.00	0.36	0.42	0.65	
8	0.06	0.06	7.24	7.17	3.26	28.67	12.30	3.50	1.09	0.39	0.42	0.64	
9	0.06	0.06	3.26	8.64	2.78	29.69	22.85	4.40	1.06	0.40	0.44	0.60	
10	0.07	0.06	1.51	11.70	2.35	32.40	19.40	7.52	0.98	0.41	0.45	0.71	
11	0.05	0.06	1.00	11.00	2.00	35.52	14.50	9.20	1.00	0.44	0.46	0.91	
12	0.02	0.04	0.83	7.94	1.80	37.06	12.70	10.30	0.95	0.46	0.47	0.83	
13	0.06	0.04	0.80	4.70	1.75	35.96	9.80	9.90	0.90	0.47	0.49	0.99	
14	0.06	0.04	0.75	2.60	1.57	33.20	7.87	7.10	0.86	0.49	0.50	1.00	
15	0.06	0.05	0.73	2.30	1.39	31.60	6.75	5.21	0.90	0.50	0.44	1.00	
16	0.06	0.06	0.89	2.05	1.15	32.20	8.08	4.04	0.90	0.51	0.40	0.90	
17	0.06	0.06	1.90	1.80	1.15	31.20	13.10	3.38	0.96	0.53	0.49	0.68	
18	0.06	0.05	1.85	1.60	1.15	29.52	14.00	2.50	0.96	0.54	0.49	0.63	
19	0.06	0.00	3.38	1.51	1.15	28.50	12.80	1.75	0.88	0.55	0.45	0.63	
20	0.06	0.00	8.99	1.39	1.15	27.14	10.50	1.45	0.76	0.56	0.45	0.63	
21	0.06	0.00	13.40	1.30	1.12	23.15	8.15	1.45	0.70	0.58	0.44	0.66	
22	0.06	0.00	6.68	2.25	1.09	19.85	7.45	1.45	0.56	0.59	0.47	0.83	
23	0.06	0.00	3.50	5.63	1.90	18.20	6.26	1.12	0.45	0.60	0.44	0.79	
24	0.06	0.00	2.60	4.82	5.70	19.85	5.77	0.86	0.37	0.61	0.51	0.61	
25	0.06	0.00	2.66	3.62	8.64	10.20	6.05	0.80	0.40	0.63	0.75	0.50	
26	0.06	0.02	4.34	2.20	12.20	8.36	7.45	0.78	0.34	0.64	0.94	0.53	
27	0.06	0.12	5.14	1.65	16.76	7.45	15.32	0.75	0.25	0.65	0.93	0.50	
28	0.06	0.22	6.75	1.30	25.04	6.05	20.90	0.73	0.25	0.66	0.90	0.64	
29	0.06	0.31	13.90	1.33	32.40	5.21	15.92	0.71	0.25	0.69		0.86	
30	0.06	0.41	22.25	4.94	37.50	6.47	10.40	0.69	0.25	0.69		0.81	
31		0.53		18.80	41.46		10.70		0.22	0.49		0.84	
Total	1.78	2.61	134.00	257.32	273.57	801.27	363.33	113.29	21.52	15.09	14.27	22.47	2020.52	CMSDAY
Mean	0.06	0.08	4.47	8.30	8.82	26.71	11.72	3.78	0.69	0.49	0.51	0.72	5.54	CMS
Max	0.07	0.53	22.25	28.84	41.46	44.62	22.85	10.30	1.09	0.69	0.94	1.00	44.62	CMS
Min	0.02	0.00	0.65	1.30	1.09	5.21	5.77	0.69	0.22	0.21	0.39	0.50	0.00	CMS
Runoff	0.15	0.23	11.58	22.23	23.64	69.23	31.39	9.79	1.86	1.30	1.23	1.94	174.57	MCM

Momentary Peak 45.16 CMS. at 171.08 m. (MSL.) at 11.00 Hours , on Sep 1 , 2016

Runoff Yield 4.48 Liters/Second/Square KM. Momentary Peak Yield 36.570 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Pa Noi **Amphoe** Wang Saphung **Changwat** Loei

Drainge Area	948 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+247.500 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank at the footpath of the bridge. **Elevation** +258.341 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Flot	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

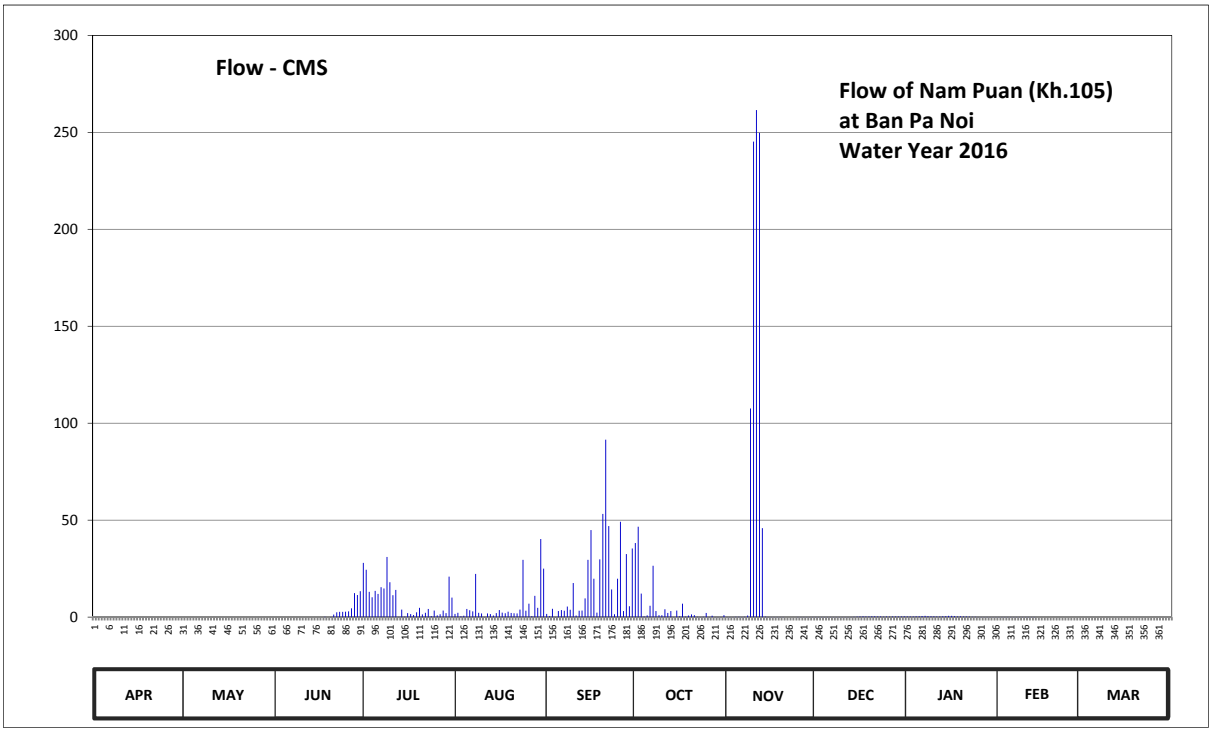
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.89	248.96	249.11	252.20	251.43	251.44	252.52	250.88	250.85	251.18	250.72	250.01	
2	248.90	248.96	249.06	252.08	251.51	251.23	252.76	250.59	250.70	251.17	250.68	250.01	
3	249.02	248.97	249.04	251.52	251.20	251.70	251.91	250.80	250.64	251.17	250.66	249.99	
4	249.07	248.98	249.02	251.27	251.29	250.93	251.18	251.02	250.70	251.19	250.63	249.97	
5	249.07	249.02	249.03	251.56	251.69	251.61	251.32	251.04	250.83	251.20	250.60	249.94	
6	249.06	249.02	249.06	251.44	251.64	251.65	251.77	250.80	250.64	251.24	250.58	249.92	
7	249.05	249.01	249.03	251.67	251.60	251.62	252.15	251.09	250.50	251.27	250.54	249.90	
8	249.05	249.00	249.03	251.64	252.01	251.75	251.61	251.31	250.52	251.23	250.48	249.89	
9	249.04	248.99	249.04	252.30	251.51	251.66	251.33	254.12	250.60	251.20	250.41	249.90	
10	249.02	248.98	249.08	251.80	251.47	251.96	251.33	256.29	250.66	251.19	250.46	249.94	
11	249.00	248.97	249.12	251.38	251.00	251.31	251.68	256.50	250.72	251.18	250.44	249.95	
12	248.98	248.96	249.09	251.60	251.47	251.62	251.50	256.35	250.87	251.17	250.42	249.96	
13	248.98	248.95	249.08	251.04	251.42	251.63	251.61	252.74	250.99	251.19	250.36	249.95	
14	248.98	248.94	249.09	251.67	251.31	251.87	250.69	251.14	251.09	251.22	250.33	249.94	
15	248.98	248.95	249.14	251.11	251.49	252.25	251.63	250.70	251.14	251.26	250.30	249.93	
16	248.98	248.95	249.11	251.49	251.65	252.71	251.19	250.54	251.18	251.27	250.28	249.93	
17	248.98	248.95	249.10	251.42	251.52	251.98	251.81	250.47	251.20	251.23	250.27	249.92	
18	248.98	248.96	249.30	251.34	251.48	251.52	251.11	250.38	251.17	251.17	250.25	249.92	
19	248.98	248.96	249.13	251.54	251.58	252.26	251.31	250.89	251.17	251.19	250.22	249.93	
20	248.98	248.97	249.25	251.72	251.50	252.93	251.40	250.41	251.19	251.18	250.20	249.95	
21	248.98	248.98	249.87	251.40	251.48	253.81	251.33	250.22	251.19	251.16	250.18	249.97	
22	248.99	248.97	250.10	251.51	251.47	252.77	251.10	250.15	251.18	251.12	250.16	249.98	
23	248.98	248.97	250.15	251.69	251.67	251.93	250.86	250.14	251.15	251.08	250.11	249.98	
24	248.97	248.98	250.15	251.23	252.25	251.41	251.06	250.13	251.14	251.03	250.08	249.98	
25	248.96	248.98	250.16	251.63	251.62	251.98	251.50	250.42	251.15	250.98	250.07	249.98	
26	248.97	248.97	250.20	251.32	251.81	252.83	250.75	250.63	251.13	250.94	250.04	249.99	
27	248.97	248.98	250.50	251.41	251.23	251.61	251.28	250.77	251.15	250.90	250.02	249.99	
28	248.96	249.03	251.47	251.63	251.90	252.35	250.99	250.83	251.18	250.86	250.02	249.98	
29	248.95	249.04	251.39	251.49	251.72	251.76	250.69	250.88	251.18	250.83		249.98	
30	248.96	249.07	251.55	251.99	252.58	252.44	250.78	250.89	251.18	250.80		249.97	
31		249.16		251.88	252.10		251.33		251.19	250.76		249.98	
Mean	248.99	248.99	249.58	251.58	251.60	251.95	251.40	251.44	250.97	251.11	250.34	249.96	
Max	249.07	249.16	251.55	252.30	252.58	253.81	252.76	256.50	251.20	251.27	250.72	250.01	256.50
Min	248.89	248.94	249.02	251.04	251.00	250.93	250.69	250.13	250.50	250.76	250.02	249.89	248.89

Annual Max Momentary Gage Height 256.60 m. (MSL.) , at 07.00 Hours , on Nov 12 , 2016

Zero Gage at Bottom Elevation 247.50 m. (MSL.) , River Bed 247.95 m. (MSL.)

Left Bank Elevation 258.30 m. (MSL.) ,

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



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	28.00	1.61	1.68	38.20	0.09	0.09	0.36	0.07	0.00		
2	0.00	0.00	0.00	24.40	2.19	0.52	46.60	0.06	0.07	0.34	0.07	0.00		
3	0.00	0.00	0.00	13.00	0.40	4.30	12.10	0.08	0.06	0.34	0.07	0.00		
4	0.00	0.00	0.00	10.20	0.76	0.09	0.36	0.12	0.07	0.38	0.06	0.00		
5	0.00	0.00	0.00	13.50	4.17	3.13	0.92	0.14	0.08	0.40	0.06	0.00		
6	0.00	0.00	0.00	12.00	3.52	3.65	5.84	0.08	0.06	0.56	0.06	0.00		
7	0.00	0.00	0.00	15.40	3.00	3.26	26.50	0.19	0.05	0.68	0.05	0.00		
8	0.00	0.00	0.00	14.80	22.30	5.40	3.13	0.86	0.05	0.52	0.05	0.00		
9	0.00	0.00	0.00	31.00	2.19	3.78	0.98	107.60	0.06	0.40	0.04	0.00		
10	0.00	0.00	0.00	18.00	1.89	17.60	0.98	245.25	0.07	0.38	0.05	0.00		
11	0.00	0.00	0.00	11.30	0.10	0.86	4.04	261.50	0.07	0.36	0.04	0.00		
12	0.00	0.00	0.00	14.00	1.89	3.26	2.10	249.75	0.09	0.34	0.04	0.00		
13	0.00	0.00	0.00	0.14	1.54	3.39	3.13	45.90	0.10	0.38	0.04	0.00		
14	0.00	0.00	0.00	3.91	0.86	9.65	0.07	0.28	0.19	0.48	0.03	0.00		
15	0.00	0.00	0.00	0.22	2.03	29.50	3.39	0.07	0.28	0.64	0.03	0.00		
16	0.00	0.00	0.00	2.03	3.65	44.85	0.38	0.05	0.36	0.68	0.03	0.00		
17	0.00	0.00	0.00	1.54	2.28	19.80	6.95	0.05	0.40	0.52	0.03	0.00		
18	0.00	0.00	0.15	1.04	1.96	2.28	0.22	0.04	0.34	0.34	0.03	0.00		
19	0.00	0.00	0.00	2.46	2.82	29.80	0.86	0.09	0.34	0.38	0.02	0.00		
20	0.00	0.00	0.08	4.74	2.10	53.20	1.40	0.04	0.38	0.36	0.02	0.00		
21	0.00	0.00	1.35	1.40	1.96	91.50	0.98	0.02	0.38	0.32	0.02	0.00		
22	0.00	0.00	2.50	2.19	1.89	46.95	0.20	0.02	0.36	0.24	0.02	0.00		
23	0.00	0.00	2.75	4.17	3.91	14.30	0.09	0.01	0.30	0.18	0.01	0.00		
24	0.00	0.00	2.75	0.52	29.50	1.47	0.16	0.01	0.28	0.13	0.01	0.00		
25	0.00	0.00	2.80	3.39	3.26	19.80	2.10	0.04	0.30	0.10	0.01	0.00		
26	0.00	0.00	3.00	0.92	6.95	49.20	0.08	0.06	0.26	0.09	0.00	0.00		
27	0.00	0.00	4.50	1.47	0.52	3.13	0.72	0.08	0.30	0.09	0.00	0.00		
28	0.00	0.00	12.38	3.39	11.00	32.50	0.10	0.08	0.36	0.09	0.00	0.00		
29	0.00	0.00	11.40	2.03	4.74	5.62	0.07	0.09	0.36	0.08		0.00		
30	0.00	0.00	13.37	20.90	40.30	35.40	0.08	0.09	0.36	0.08		0.00		
31		0.00		10.10	25.00		0.98		0.38	0.08		0.00		
Total	0.00	0.00	57.03	272.16	190.29	539.87	163.71	912.74	6.85	10.32	0.96	0.00	2153.93	CMSDAY
Mean	0.00	0.00	1.90	8.78	6.14	18.00	5.28	30.42	0.22	0.33	0.03	0.00	5.90	CMS
Max	0.00	0.00	13.37	31.00	40.30	91.50	46.60	261.50	0.40	0.68	0.07	0.00	261.50	CMS
Min	0.00	0.00	0.00	0.14	0.10	0.09	0.07	0.01	0.05	0.08	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	4.93	23.51	16.44	46.64	14.14	78.86	0.59	0.89	0.08	0.00	186.10	MCM

Momentary Peak 269.50 CMS. at 256.60 m. (MSL.) at 07.00 Hours , on Nov 12 , 2016

Runoff Yield 6.22 Liters/Second/Square KM. Momentary Peak Yield 284.280 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank Ban Prong Yai.

	Ban Prong Yai	**Amphoe** Phanna Nikhom	**Changwat** Sakon Nakhon
Drainge Area	2,160 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+150.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the automatic gage building.	**Elevation**	+158.093 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

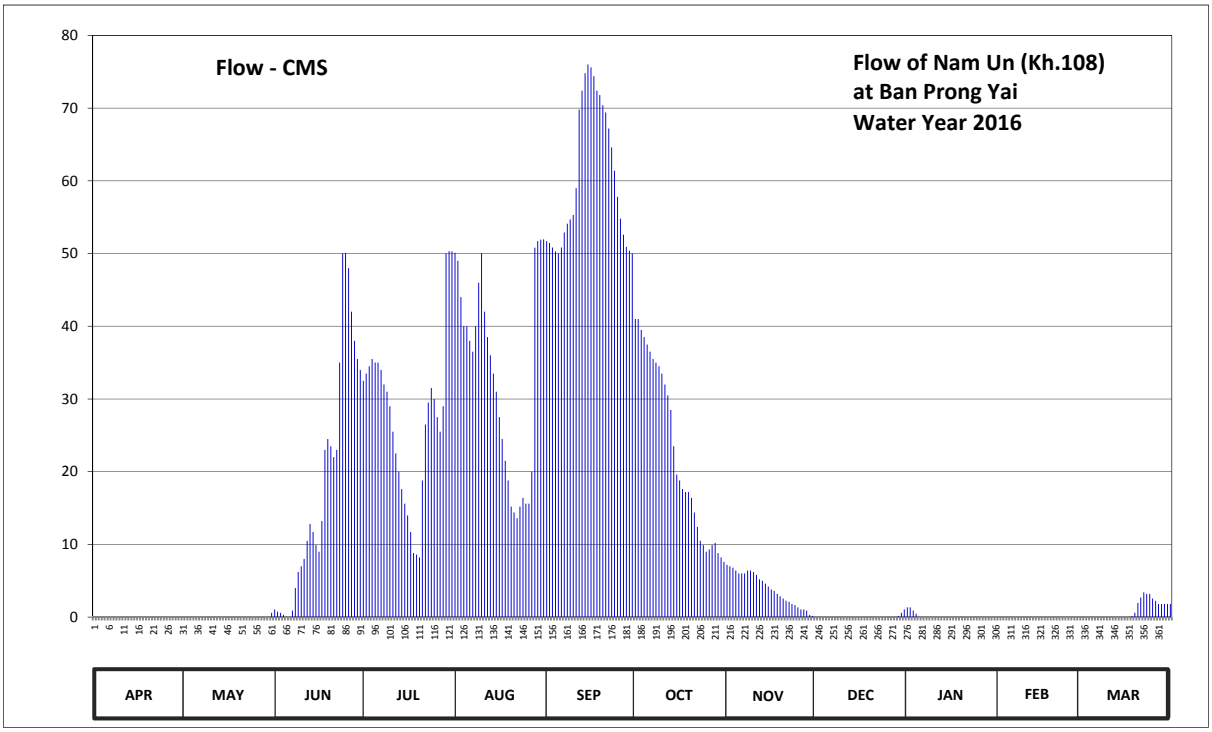
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.97	152.33	152.87	153.85	154.15	154.74	154.01	153.21	152.79	152.89	152.46	152.17	
2	151.98	152.33	152.85	153.87	154.09	154.69	154.01	153.20	152.79	152.89	152.44	152.16	
3	151.98	152.34	152.84	153.89	154.04	154.51	153.99	153.19	152.79	152.86	152.41	152.17	
4	151.99	152.34	152.82	153.91	154.00	154.25	153.97	153.17	152.78	152.83	152.39	152.18	
5	152.00	152.34	152.80	153.90	154.00	154.11	153.95	153.15	152.74	152.80	152.37	152.17	
6	152.02	152.35	152.80	153.90	153.96	154.51	153.93	153.15	152.72	152.78	152.36	152.16	
7	152.05	152.35	152.86	153.88	153.93	154.89	153.91	153.15	152.71	152.75	152.33	152.16	
8	152.06	152.36	153.05	153.84	154.00	155.01	153.90	153.17	152.71	152.73	152.31	152.20	
9	152.07	152.36	153.16	153.82	154.06	155.07	153.89	153.17	152.69	152.69	152.29	152.26	
10	152.09	152.39	153.20	153.78	154.13	155.13	153.87	153.16	152.68	152.65	152.27	152.34	
11	152.10	152.40	153.25	153.71	154.02	155.35	153.84	153.14	152.68	152.63	152.27	152.42	
12	152.12	152.40	153.35	153.65	153.97	155.89	153.81	153.11	152.65	152.62	152.27	152.49	
13	152.13	152.40	153.42	153.60	153.92	156.02	153.77	153.10	152.61	152.63	152.26	152.56	
14	152.15	152.40	153.39	153.54	153.87	156.14	153.67	153.08	152.57	152.64	152.24	152.62	
15	152.17	152.38	153.33	153.49	153.82	156.20	153.59	153.06	152.56	152.63	152.24	152.67	
16	152.20	152.35	153.30	153.45	153.75	156.18	153.57	153.04	152.54	152.62	152.24	152.74	
17	152.21	152.33	153.43	153.39	153.69	156.12	153.54	153.03	152.53	152.60	152.23	152.79	
18	152.22	152.29	153.66	153.29	153.63	156.02	153.53	153.01	152.53	152.57	152.22	152.81	
19	152.24	152.27	153.69	153.28	153.57	155.99	153.53	152.99	152.52	152.56	152.20	152.84	
20	152.25	152.28	153.67	153.26	153.48	155.92	153.51	152.97	152.52	152.57	152.18	152.93	
21	152.26	152.29	153.64	153.57	153.46	155.87	153.46	152.95	152.54	152.57	152.17	152.98	
22	152.27	152.30	153.66	153.73	153.44	155.76	153.41	152.94	152.54	152.58	152.16	153.02	
23	152.28	152.30	153.90	153.79	153.48	155.63	153.35	152.92	152.52	152.59	152.14	153.01	
24	152.29	152.30	154.11	153.83	153.51	155.47	153.33	152.91	152.53	152.60	152.14	153.01	
25	152.31	152.31	154.14	153.80	153.49	155.29	153.30	152.89	152.58	152.59	152.14	152.97	
26	152.33	152.32	154.08	153.75	153.49	155.08	153.31	152.87	152.64	152.56	152.14	152.95	
27	152.32	152.30	154.02	153.71	153.60	154.86	153.33	152.87	152.71	152.54	152.16	152.92	
28	152.30	152.31	153.96	153.78	154.50	154.54	153.34	152.86	152.77	152.52	152.18	152.92	
29	152.30	152.37	153.91	154.11	154.74	154.29	153.29	152.82	152.81	152.50		152.92	
30	152.33	152.55	153.88	154.26	154.78	154.11	153.26	152.81	152.84	152.49		152.92	
31		152.84		154.25	154.79		153.23		152.87	152.47		152.92	
Mean	152.17	152.36	153.43	153.74	153.91	155.25	153.63	153.04	152.66	152.64	152.26	152.63	
Max	152.33	152.84	154.14	154.26	154.79	156.20	154.01	153.21	152.87	152.89	152.46	153.02	156.20
Min	151.97	152.27	152.80	153.26	153.44	154.11	153.23	152.81	152.52	152.47	152.14	152.16	151.97

Annual Max Momentary Gage Height 156.20 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 150.00 m. (MSL.) , River Bed 150.07 m. (MSL.)

Left Bank Elevation 158.30 m. (MSL.) ,

Right Bank Elevation 158.75 m. (MSL.) , Drainage Are 2160 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.05	32.50	50.10	51.70	41.00	7.20	0.00	1.35	0.00	0.00		
2	0.00	0.00	0.75	33.50	49.00	51.46	41.00	7.00	0.00	1.35	0.00	0.00		
3	0.00	0.00	0.60	34.50	44.00	50.83	39.50	6.80	0.00	0.90	0.00	0.00		
4	0.00	0.00	0.30	35.50	40.00	50.30	38.50	6.40	0.00	0.45	0.00	0.00		
5	0.00	0.00	0.00	35.00	40.00	50.02	37.50	6.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	35.00	38.00	50.83	36.50	6.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.90	34.00	36.50	52.90	35.50	6.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	4.00	32.00	40.00	54.10	35.00	6.40	0.00	0.00	0.00	0.00		
9	0.00	0.00	6.20	31.00	46.00	54.70	34.50	6.40	0.00	0.00	0.00	0.00		
10	0.00	0.00	7.00	29.00	50.06	55.30	33.50	6.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	8.00	25.50	42.00	59.00	32.00	5.80	0.00	0.00	0.00	0.00		
12	0.00	0.00	10.50	22.50	38.50	69.80	30.50	5.20	0.00	0.00	0.00	0.00		
13	0.00	0.00	12.80	20.00	36.00	72.40	28.50	5.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	11.70	17.60	33.50	74.80	23.50	4.60	0.00	0.00	0.00	0.00		
15	0.00	0.00	9.90	15.60	31.00	76.00	19.60	4.20	0.00	0.00	0.00	0.00		
16	0.00	0.00	9.00	14.00	27.50	75.60	18.80	3.80	0.00	0.00	0.00	0.00		
17	0.00	0.00	13.20	11.70	24.50	74.40	17.60	3.60	0.00	0.00	0.00	0.00		
18	0.00	0.00	23.00	8.80	21.50	72.40	17.20	3.20	0.00	0.00	0.00	0.15		
19	0.00	0.00	24.50	8.60	18.80	71.80	17.20	2.85	0.00	0.00	0.00	0.60		
20	0.00	0.00	23.50	8.20	15.20	70.40	16.40	2.55	0.00	0.00	0.00	1.95		
21	0.00	0.00	22.00	18.80	14.40	69.40	14.40	2.25	0.00	0.00	0.00	2.70		
22	0.00	0.00	23.00	26.50	13.60	67.20	12.40	2.10	0.00	0.00	0.00	3.40		
23	0.00	0.00	35.00	29.50	15.20	64.60	10.50	1.80	0.00	0.00	0.00	3.20		
24	0.00	0.00	50.02	31.50	16.40	61.40	9.90	1.65	0.00	0.00	0.00	3.20		
25	0.00	0.00	50.08	30.00	15.60	57.80	9.00	1.35	0.00	0.00	0.00	2.55		
26	0.00	0.00	48.00	27.50	15.60	54.80	9.30	1.05	0.00	0.00	0.00	2.25		
27	0.00	0.00	42.00	25.50	20.00	52.60	9.90	1.05	0.00	0.00	0.00	1.80		
28	0.00	0.00	38.00	29.00	50.80	50.92	10.20	0.90	0.00	0.00	0.00	1.80		
29	0.00	0.00	35.50	50.02	51.70	50.38	8.80	0.30	0.15	0.00		1.80		
30	0.00	0.00	34.00	50.32	51.90	50.02	8.20	0.15	0.60	0.00		1.80		
31		0.60		50.30	51.95		7.60		1.05	0.00		1.80		
Total	0.00	0.60	544.50	853.44	1039.31	1817.86	704.00	117.80	1.80	4.05	0.00	29.00	5112.36	CMSDAY
Mean	0.00	0.02	18.15	27.53	33.53	60.60	22.71	3.93	0.06	0.13	0.00	0.94	14.01	CMS
Max	0.00	0.60	50.08	50.32	51.95	76.00	41.00	7.20	1.05	1.35	0.00	3.40	76.00	CMS
Min	0.00	0.00	0.00	8.20	13.60	50.02	7.60	0.15	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.05	47.04	73.74	89.80	157.06	60.83	10.18	0.16	0.35	0.00	2.51	441.71	MCM

Momentary Peak 76.00 CMS. at 156.20 m. (MSL.) at 06.00 Hours , on Sep 15 , 2016

Runoff Yield 6.48 Liters/Second/Square KM. Momentary Peak Yield 35.190 Liters/Second/Square KM.

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank Ban Pho Chai.

	Ban Pho Chai	**Amphoe** Akat Amnuai	**Changwat** Sakon Nakhon
Drainge Area	1,448 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+141.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the automatic gage building.	**Elevation**	+149.186 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

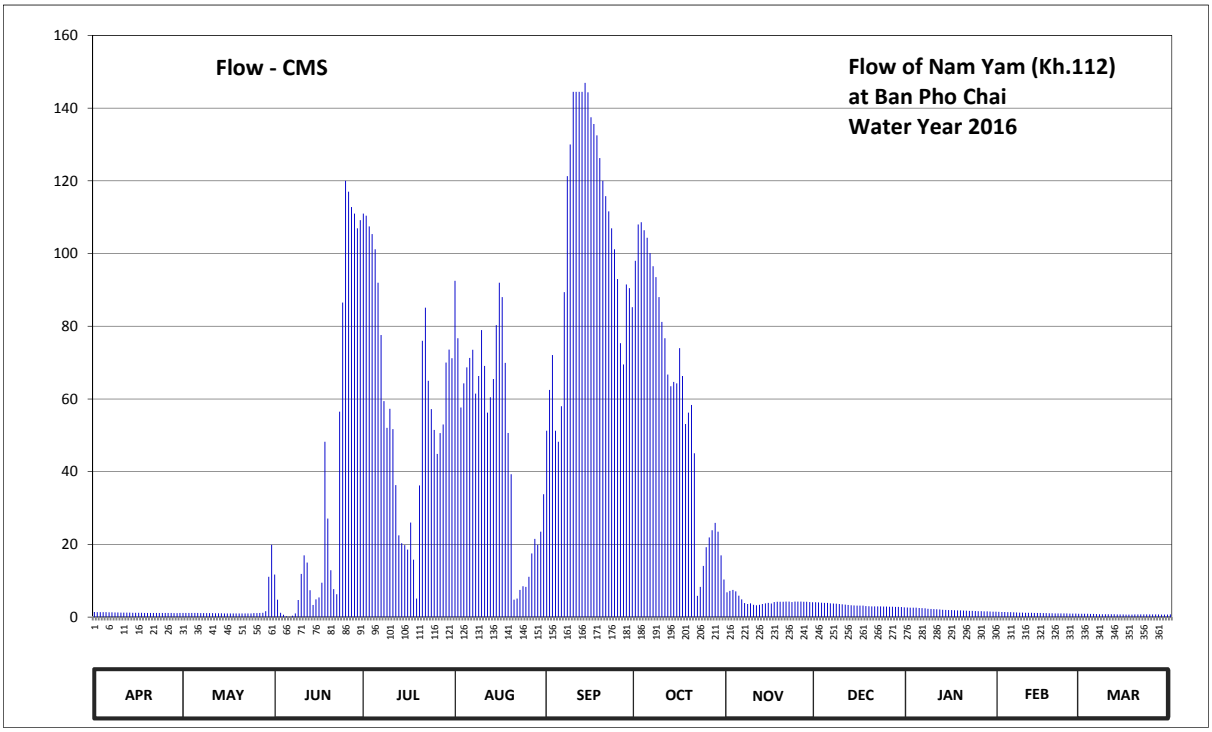
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.70	144.56	146.26	147.25	146.90	147.25	147.01	145.88	145.42	145.13	144.73	144.35	
2	144.69	144.55	145.56	147.24	146.56	147.40	147.20	145.92	145.41	145.12	144.71	144.34	
3	144.68	144.54	144.58	147.19	146.09	147.48	147.21	145.95	145.39	145.12	144.70	144.33	
4	144.68	144.53	144.10	147.15	146.27	147.25	147.17	145.91	145.38	145.12	144.69	144.32	
5	144.67	144.53	143.71	147.07	146.38	147.21	147.13	145.78	145.38	145.10	144.68	144.29	
6	144.66	144.53	143.54	146.89	146.44	147.34	147.05	145.58	145.36	145.09	144.66	144.27	
7	144.65	144.52	143.87	146.58	146.49	147.61	146.98	145.37	145.35	145.08	144.64	144.25	
8	144.64	144.52	144.43	146.14	146.20	147.72	146.92	145.32	145.34	145.06	144.62	144.24	
9	144.63	144.51	145.54	145.93	146.32	147.75	146.81	145.36	145.32	145.05	144.61	144.24	
10	144.62	144.50	146.27	146.08	146.61	147.80	146.66	145.28	145.30	145.04	144.59	144.23	
11	144.62	144.49	146.50	145.92	146.39	147.83	146.56	145.25	145.29	145.03	144.58	144.22	
12	144.62	144.48	146.42	145.46	146.05	147.84	146.33	145.28	145.27	145.02	144.57	144.21	
13	144.61	144.47	145.94	144.90	146.17	147.84	146.25	145.32	145.25	145.00	144.56	144.20	
14	144.60	144.46	145.27	144.79	146.30	147.83	146.28	145.36	145.24	144.99	144.55	144.19	
15	144.59	144.45	145.58	144.76	146.64	147.79	146.27	145.38	145.23	144.97	144.54	144.17	
16	144.58	144.44	145.68	144.69	146.89	147.68	146.50	145.35	145.23	144.96	144.52	144.16	
17	144.57	144.43	146.13	145.06	146.81	147.65	146.32	145.43	145.23	144.95	144.50	144.14	
18	144.56	144.42	147.21	144.52	146.41	147.60	145.96	145.44	145.21	144.93	144.48	144.13	
19	144.55	144.41	146.79	144.11	145.89	147.50	146.05	145.44	145.20	144.92	144.46	144.17	
20	144.54	144.43	146.32	146.04	145.56	147.40	146.11	145.44	145.19	144.89	144.44	144.18	
21	144.56	144.44	145.97	147.10	145.56	147.33	145.73	145.45	145.19	144.88	144.43	144.20	
22	144.55	144.44	145.83	147.23	145.62	147.26	145.77	145.45	145.19	144.85	144.43	144.19	
23	144.54	144.44	147.32	146.90	145.95	147.18	146.03	145.43	145.19	144.85	144.42	144.19	
24	144.54	144.44	147.60	146.73	146.05	147.07	146.38	145.45	145.18	144.83	144.41	144.19	
25	144.53	144.49	147.40	146.55	146.03	146.91	146.59	145.45	145.18	144.82	144.39	144.18	
26	144.53	144.50	147.35	146.33	146.23	146.53	146.66	145.45	145.17	144.81	144.38	144.17	
27	144.53	144.54	147.28	146.52	146.52	146.40	146.71	145.44	145.17	144.80	144.37	144.17	
28	144.52	144.58	147.25	146.60	146.65	146.88	146.76	145.44	145.16	144.79	144.36	144.16	
29	144.52	144.81	147.18	147.00	146.61	146.86	146.70	145.43	145.16	144.77		144.16	
30	144.55	146.23	147.22	147.06	146.70	146.75	146.50	145.42	145.15	144.75		144.16	
31		146.61		147.02	146.94		146.19		145.14	144.74		144.18	
Mean	144.59	144.62	146.00	146.22	146.33	147.36	146.54	145.48	145.25	144.95	144.54	144.21	
Max	144.70	146.61	147.60	147.25	146.94	147.84	147.21	145.95	145.42	145.13	144.73	144.35	147.84
Min	144.52	144.41	143.54	144.11	145.56	146.40	145.73	145.25	145.14	144.74	144.36	144.13	143.54

Annual Max Momentary Gage Height 147.87 m. (MSL.) , at 18.00 Hours , on Sep 13 , 2016

Zero Gage at Bottom Elevation 141.00 m. (MSL.) , River Bed 139.93 m. (MSL.)

Left Bank Elevation 150.71 m. (MSL.) ,

Right Bank Elevation 151.36 m. (MSL.) , Drainage Are 1448 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.16	11.70	111.00	92.50	51.25	98.03	6.80	4.10	2.65	1.46	0.92	
2	1.38	1.14	4.80	110.40	76.70	62.50	108.00	7.20	4.05	2.60	1.42	0.91	
3	1.36	1.13	1.18	107.48	57.65	72.10	108.60	7.50	3.95	2.60	1.40	0.90	
4	1.36	1.12	0.65	105.38	64.30	51.25	106.43	7.10	3.90	2.60	1.38	0.89	
5	1.34	1.12	0.22	101.18	68.70	48.25	104.33	5.90	3.90	2.50	1.36	0.86	
6	1.32	1.12	0.07	92.00	71.30	58.00	100.13	4.90	3.80	2.45	1.32	0.84	
7	1.30	1.11	0.40	77.60	73.55	89.40	96.50	3.85	3.75	2.40	1.28	0.81	
8	1.28	1.11	1.01	59.40	61.50	121.30	93.50	3.60	3.70	2.30	1.24	0.80	
9	1.26	1.10	4.70	52.05	66.30	130.00	88.00	3.80	3.60	2.25	1.22	0.80	
10	1.24	1.09	11.90	57.30	78.95	144.50	81.20	3.40	3.50	2.20	1.19	0.79	
11	1.24	1.08	17.00	51.70	69.10	144.50	76.70	3.25	3.45	2.15	1.18	0.78	
12	1.24	1.07	15.00	36.30	56.25	144.50	66.70	3.40	3.35	2.10	1.17	0.77	
13	1.22	1.06	7.40	22.50	60.45	144.50	63.50	3.60	3.25	2.00	1.16	0.76	
14	1.20	1.05	3.35	20.32	65.50	146.95	64.70	3.80	3.20	1.98	1.14	0.75	
15	1.19	1.03	4.90	19.80	80.30	144.37	64.30	3.90	3.15	1.94	1.13	0.73	
16	1.18	1.02	5.40	18.57	92.00	137.50	74.00	3.75	3.15	1.92	1.11	0.72	
17	1.17	1.01	9.45	26.00	88.00	135.63	66.30	4.15	3.15	1.90	1.09	0.69	
18	1.16	1.00	48.25	15.80	69.95	132.50	53.10	4.20	3.05	1.86	1.07	0.68	
19	1.14	0.99	27.10	5.10	50.65	126.25	56.25	4.20	3.00	1.84	1.05	0.73	
20	1.13	1.01	12.90	36.20	39.30	120.00	58.35	4.20	2.95	1.78	1.02	0.74	
21	1.16	1.02	7.70	76.00	4.80	115.80	45.05	4.25	2.95	1.76	1.01	0.76	
22	1.14	1.02	6.30	85.10	5.10	111.60	5.85	4.25	2.95	1.70	1.01	0.75	
23	1.13	1.02	56.50	65.00	7.50	106.95	8.30	4.15	2.95	1.70	1.00	0.75	
24	1.13	1.02	86.50	57.20	8.50	101.18	14.10	4.25	2.90	1.66	0.99	0.75	
25	1.12	1.08	120.00	51.50	8.30	93.00	19.25	4.25	2.90	1.64	0.97	0.74	
26	1.12	1.09	117.00	44.90	11.10	75.35	21.90	4.25	2.85	1.62	0.96	0.73	
27	1.12	1.13	112.80	50.60	17.50	69.50	23.90	4.20	2.85	1.60	0.95	0.73	
28	1.11	1.18	111.00	53.00	21.50	91.50	25.90	4.20	2.80	1.58	0.94	0.72	
29	1.11	1.62	106.95	70.00	19.90	90.50	23.50	4.15	2.80	1.54		0.72	
30	1.14	11.10	109.20	73.60	23.50	85.25	17.00	4.10	2.75	1.50		0.72	
31		19.90		71.20	33.80		10.35		2.70	1.48		0.74	
Total	36.39	62.70	1021.33	1824.18	1544.45	3145.88	1843.72	134.55	101.35	61.80	32.22	23.98	9832.55 CMSDAY
Mean	1.21	2.02	34.04	58.84	49.82	104.86	59.47	4.49	3.27	1.99	1.15	0.77	26.94 CMS
Max	1.40	19.90	120.00	111.00	92.50	146.95	108.60	7.50	4.10	2.65	1.46	0.92	146.95 CMS
Min	1.11	0.99	0.07	5.10	4.80	48.25	5.85	3.25	2.70	1.48	0.94	0.68	0.07 CMS
Runoff	3.14	5.42	88.24	157.61	133.44	271.80	159.30	11.63	8.76	5.34	2.78	2.07	849.53 MCM

Momentary Peak 144.50 CMS. at 147.87 m. (MSL.) at 18.00 Hours , on Sep 13 , 2016

Runoff Yield 18.60 Liters/Second/Square KM. Momentary Peak Yield 99.790 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban Lao Sombun	**Amphoe** Ban Muang	**Changwat** Sakon Nakhon
Drainge Area	2,852 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+143.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the automatic gage building.	**Elevation**	+156.671 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

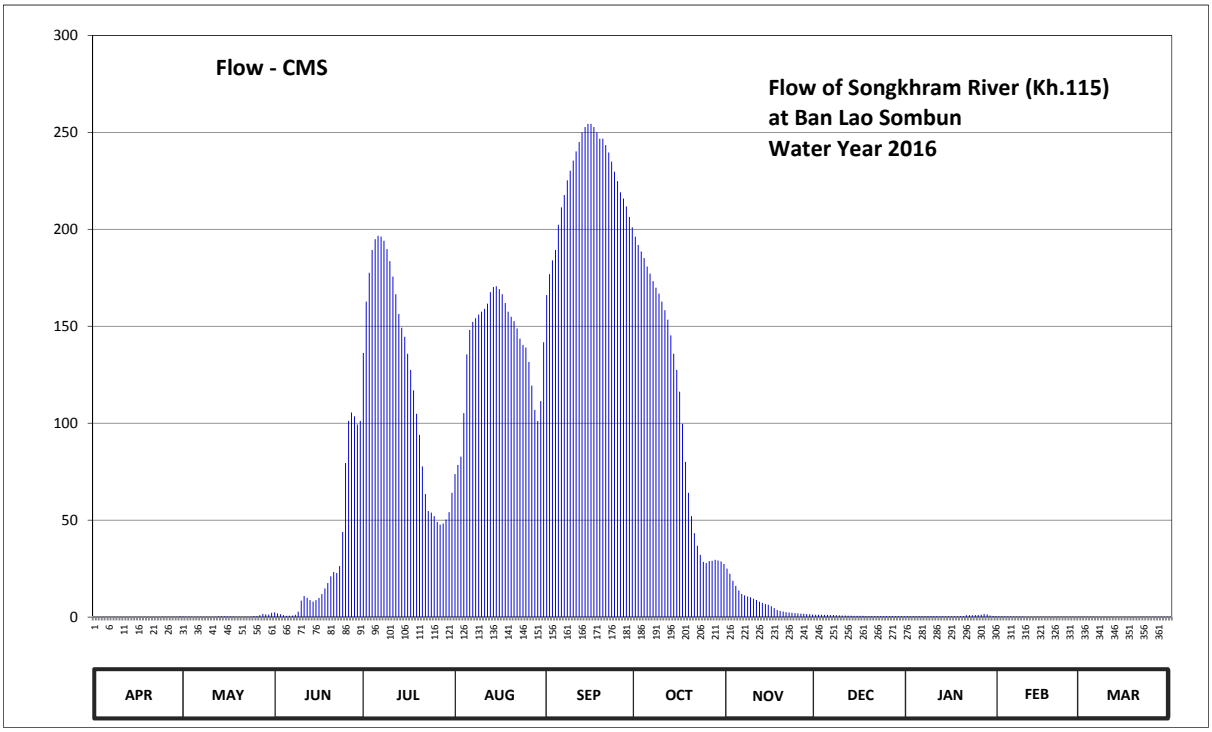
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.22	143.34	144.18	151.07	149.05	151.89	152.64	146.55	143.70	143.40	143.37	143.25	
2	143.23	143.31	143.97	151.80	149.24	152.17	152.54	146.35	143.69	143.40	143.35	143.25	
3	143.24	143.30	143.78	152.19	149.40	152.35	152.46	146.06	143.68	143.40	143.34	143.25	
4	143.23	143.28	143.59	152.48	150.16	152.48	152.38	145.81	143.67	143.39	143.33	143.25	
5	143.23	143.26	143.45	152.61	151.05	152.78	152.27	145.58	143.66	143.39	143.32	143.25	
6	143.23	143.25	143.48	152.65	151.41	152.98	152.18	145.40	143.64	143.39	143.31	143.24	
7	143.22	143.25	143.53	152.64	151.52	153.12	152.08	145.32	143.61	143.39	143.30	143.24	
8	143.22	143.25	143.69	152.59	151.57	153.28	151.99	145.26	143.58	143.38	143.29	143.24	
9	143.22	143.25	144.26	152.49	151.62	153.38	151.91	145.22	143.55	143.38	143.29	143.24	
10	143.22	143.25	145.05	152.34	151.66	153.48	151.80	145.15	143.53	143.38	143.28	143.24	
11	143.22	143.25	145.29	152.14	151.70	153.57	151.68	145.08	143.52	143.38	143.28	143.24	
12	143.22	143.25	145.20	151.90	151.77	153.66	151.55	144.99	143.50	143.37	143.27	143.24	
13	143.22	143.32	145.07	151.63	151.93	153.75	151.33	144.91	143.48	143.37	143.27	143.24	
14	143.22	143.35	145.00	151.44	152.00	153.80	151.06	144.84	143.47	143.36	143.26	143.24	
15	143.22	143.35	145.07	151.31	152.01	153.83	150.82	144.78	143.46	143.35	143.26	143.24	
16	143.22	143.34	145.19	151.06	151.97	153.83	150.50	144.68	143.45	143.35	143.26	143.24	
17	143.22	143.33	145.39	150.82	151.90	153.80	149.98	144.55	143.45	143.36	143.26	143.24	
18	143.22	143.30	145.68	150.52	151.78	153.75	149.30	144.42	143.43	143.37	143.26	143.24	
19	143.22	143.28	145.96	150.15	151.66	153.69	148.64	144.35	143.41	143.38	143.26	143.24	
20	143.22	143.26	146.24	149.79	151.59	153.69	148.08	144.27	143.40	143.41	143.26	143.24	
21	143.22	143.25	146.42	149.21	151.53	153.63	147.64	144.21	143.40	143.59	143.26	143.25	
22	143.23	143.25	146.38	148.61	151.43	153.56	147.29	144.14	143.39	143.60	143.26	143.25	
23	143.24	143.25	146.64	148.21	151.28	153.47	147.02	144.08	143.39	143.60	143.25	143.25	
24	143.25	143.30	147.67	148.17	151.19	153.37	146.78	144.01	143.39	143.61	143.25	143.25	
25	143.25	143.38	149.28	148.08	151.15	153.27	146.74	143.95	143.39	143.62	143.25	143.25	
26	143.25	143.40	150.03	147.93	150.94	153.15	146.81	143.91	143.39	143.70	143.25	143.25	
27	143.25	143.58	150.17	147.86	150.59	153.08	146.82	143.88	143.39	143.84	143.25	143.25	
28	143.25	143.86	150.11	147.89	150.21	152.99	146.85	143.84	143.39	143.75	143.25	143.25	
29	143.28	143.77	149.97	147.99	150.03	152.87	146.83	143.79	143.39	143.51		143.25	
30	143.35	143.74	150.03	148.18	150.35	152.75	146.80	143.74	143.39	143.44		143.25	
31		144.08		148.64	151.23		146.71		143.39	143.40		143.25	
Mean	143.23	143.38	145.99	150.46	151.13	153.25	149.73	144.77	143.49	143.46	143.28	143.25	
Max	143.35	144.08	150.17	152.65	152.01	153.83	152.64	146.55	143.70	143.84	143.37	143.25	153.83
Min	143.22	143.25	143.45	147.86	149.05	151.89	146.71	143.74	143.39	143.35	143.25	143.24	143.22

Annual Max Momentary Gage Height 153.83 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 143.00 m. (MSL.) , River Bed 142.95 m. (MSL.)

Left Bank Elevation 155.87 m. (MSL.) ,

Right Bank Elevation 156.93 m. (MSL.) , Drainage Are 2852 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	0.35	2.45	136.20	73.75	166.12	196.20	25.00	1.25	0.50	0.43	0.13		
2	0.08	0.28	1.93	162.75	78.50	176.80	191.95	22.37	1.23	0.50	0.38	0.13		
3	0.10	0.25	1.45	177.60	82.75	184.00	188.55	18.75	1.20	0.50	0.35	0.13		
4	0.08	0.20	0.98	189.40	105.20	189.40	185.20	16.10	1.18	0.48	0.33	0.13		
5	0.08	0.15	0.63	194.93	135.50	202.35	180.80	13.80	1.15	0.48	0.30	0.13		
6	0.08	0.13	0.70	196.63	148.13	211.35	177.20	12.00	1.10	0.48	0.28	0.10		
7	0.05	0.13	0.83	196.20	152.25	217.70	173.25	11.20	1.03	0.48	0.25	0.10		
8	0.05	0.13	1.23	194.08	154.13	225.30	169.87	10.60	0.95	0.45	0.23	0.10		
9	0.05	0.13	2.80	189.83	156.00	230.25	166.87	10.20	0.88	0.45	0.23	0.10		
10	0.05	0.13	8.50	183.60	157.50	235.45	162.75	9.50	0.83	0.45	0.20	0.10		
11	0.05	0.13	10.90	175.60	159.00	240.17	158.25	8.80	0.80	0.45	0.20	0.10		
12	0.05	0.13	10.00	166.50	161.62	245.05	153.38	7.93	0.75	0.43	0.18	0.10		
13	0.05	0.30	8.70	156.38	167.62	250.00	145.30	7.33	0.70	0.43	0.18	0.10		
14	0.05	0.38	8.00	149.25	170.25	252.75	135.85	6.80	0.68	0.40	0.15	0.10		
15	0.05	0.38	8.70	144.60	170.62	254.40	127.45	6.35	0.65	0.38	0.15	0.10		
16	0.05	0.35	9.90	135.85	169.12	254.40	116.25	5.60	0.63	0.38	0.15	0.10		
17	0.05	0.33	11.90	127.45	166.50	252.75	99.65	4.63	0.63	0.40	0.15	0.10		
18	0.05	0.25	14.80	116.95	162.00	250.00	80.00	3.65	0.58	0.43	0.15	0.10		
19	0.05	0.20	17.60	104.87	157.50	246.70	64.15	3.25	0.53	0.45	0.15	0.10		
20	0.05	0.15	21.00	93.95	154.88	246.70	52.10	2.85	0.50	0.53	0.15	0.10		
21	0.05	0.13	23.25	77.75	152.63	243.40	43.30	2.55	0.50	0.98	0.15	0.13		
22	0.08	0.13	22.75	63.48	148.88	239.65	36.82	2.35	0.48	1.00	0.15	0.13		
23	0.10	0.13	26.35	54.70	143.55	234.93	32.10	2.20	0.48	1.00	0.13	0.13		
24	0.13	0.25	43.90	53.90	140.40	229.75	28.45	2.03	0.48	1.03	0.13	0.13		
25	0.13	0.45	79.50	52.10	139.00	224.82	27.85	1.88	0.48	1.05	0.13	0.13		
26	0.13	0.50	101.15	49.10	131.65	219.12	28.90	1.78	0.48	1.25	0.13	0.13		
27	0.13	0.95	105.52	47.70	119.40	215.85	29.05	1.70	0.48	1.60	0.13	0.13		
28	0.13	1.65	103.57	48.30	106.82	211.80	29.50	1.60	0.48	1.38	0.13	0.13		
29	0.20	1.43	99.35	50.30	101.15	206.40	29.20	1.48	0.48	0.78		0.13		
30	0.38	1.35	101.15	54.10	111.37	201.00	28.75	1.35	0.48	0.60		0.13		
31		2.20		64.15	141.80		27.40		0.48	0.50		0.13		
Total	2.63	13.65	849.49	3808.20	4319.47	6758.36	3266.34	225.63	22.55	20.22	5.67	3.58	19295.79	CMSDAY
Mean	0.09	0.44	28.32	122.85	139.34	225.28	105.37	7.52	0.73	0.65	0.20	0.12	52.87	CMS
Max	0.38	2.20	105.52	196.63	170.62	254.40	196.20	25.00	1.25	1.60	0.43	0.13	254.40	CMS
Min	0.05	0.13	0.63	47.70	73.75	166.12	27.40	1.35	0.48	0.38	0.13	0.10	0.05	CMS
Runoff	0.23	1.18	73.40	329.03	373.20	583.92	282.21	19.49	1.95	1.75	0.49	0.31	1667.16	MCM

Momentary Peak 254.40 CMS. at 153.83 m. (MSL.) at 06.00 Hours , on Sep 15 , 2016

Runoff Yield 18.54 Liters/Second/Square KM. Momentary Peak Yield 89.200 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE ING RIVER BASIN

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

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

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

	Ban Nam Ing	**Amphoe** Khun Tan	**Changwat** Chiang Rai
Drainge Area	6,266 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+351.430 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream side at the approach of the bridge.	**Elevation**	+361.805 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

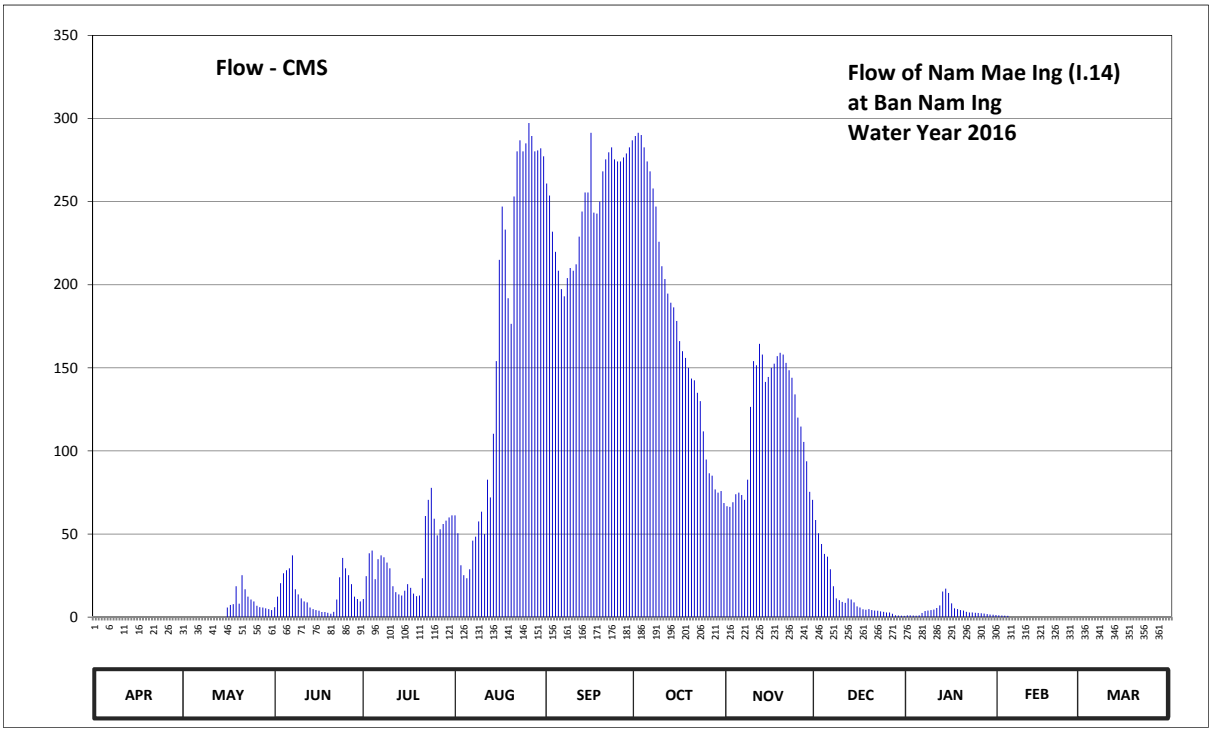
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.50	352.53	352.43	352.62	353.78	357.56	358.03	353.90	353.71	352.05	352.05	352.16	
2	352.51	352.55	352.66	352.91	353.51	357.44	358.06	353.89	353.51	352.05	352.03	352.22	
3	352.53	352.56	352.84	353.21	353.03	357.08	358.04	353.95	353.35	352.03	352.02	352.24	
4	352.55	352.55	352.94	353.25	352.92	356.88	357.92	354.05	353.20	352.02	352.01	352.26	
5	352.48	352.54	352.97	352.88	352.89	356.68	357.78	354.07	353.16	352.05	352.05	352.22	
6	352.47	352.54	352.99	353.12	352.98	356.48	357.68	354.04	352.98	352.21	352.26	352.18	
7	352.45	352.43	353.18	353.18	353.40	356.40	357.51	353.98	352.81	352.29	352.34	352.16	
8	352.41	352.42	352.77	353.15	353.46	356.60	357.33	354.23	352.63	352.31	352.39	352.14	
9	352.40	352.41	352.70	353.07	353.69	356.71	356.98	355.13	352.60	352.33	352.44	352.13	
10	352.38	352.39	352.63	352.99	353.83	356.68	356.73	355.68	352.56	352.35	352.45	352.12	
11	352.42	352.38	352.57	352.81	353.50	356.75	356.59	355.63	352.54	352.41	352.38	352.15	
12	352.42	352.44	352.55	352.73	354.23	357.03	356.43	355.88	352.63	352.48	352.33	352.18	
13	352.42	352.37	352.42	352.70	354.01	357.28	356.33	355.76	352.61	352.74	352.32	352.17	
14	352.41	352.37	352.37	352.68	354.80	357.47	356.28	355.43	352.55	352.78	352.30	352.18	
15	352.41	352.38	352.33	352.75	355.68	357.47	356.13	355.49	352.45	352.72	352.28	352.18	
16	352.41	352.42	352.30	352.83	356.80	358.06	355.91	355.60	352.42	352.53	352.27	352.19	
17	352.41	352.49	352.25	352.79	357.33	357.27	355.80	355.65	352.36	352.40	352.26	352.17	
18	352.41	352.51	352.25	352.71	357.10	357.26	355.72	355.74	352.34	352.37	352.24	352.16	
19	352.41	352.81	352.22	352.67	356.38	357.38	355.60	355.78	352.37	352.33	352.23	352.14	
20	352.41	352.52	352.17	352.68	356.10	357.68	355.47	355.76	352.33	352.31	352.23	352.11	
21	352.41	352.92	352.26	352.89	357.43	357.80	355.45	355.66	352.31	352.26	352.21	352.11	
22	352.43	352.77	352.61	353.77	357.88	357.87	355.30	355.57	352.30	352.23	352.20	352.11	
23	352.43	352.66	352.90	353.98	357.99	357.92	355.20	355.48	352.28	352.23	352.19	352.13	
24	352.47	352.61	353.14	354.13	357.88	357.80	354.83	355.28	352.26	352.22	352.18	352.08	
25	352.48	352.57	352.99	353.73	357.96	357.78	354.48	355.00	352.23	352.21	352.17	352.07	
26	352.49	352.47	352.92	353.48	358.15	357.78	354.31	354.89	352.23	352.20	352.16	352.06	
27	352.50	352.43	352.83	353.57	358.03	357.82	354.28	354.70	352.17	352.18	352.15	352.06	
28	352.52	352.42	352.66	353.65	357.88	357.86	354.11	354.46	352.05	352.15	352.14	352.06	
29	352.52	352.40	352.62	353.70	357.89	357.92	354.07	354.08	352.03	352.12		352.06	
30	352.53	352.37	352.57	353.75	357.91	357.99	354.09	353.98	352.02	352.10		352.06	
31		352.33		353.78	357.83		353.94		352.01	352.08		352.06	
Mean	352.45	352.50	352.63	353.17	355.69	357.36	356.01	354.96	352.55	352.28	352.22	352.14	
Max	352.55	352.92	353.18	354.13	358.15	358.06	358.06	355.88	353.71	352.78	352.45	352.26	358.15
Min	352.38	352.33	352.17	352.62	352.89	356.40	353.94	353.89	352.01	352.02	352.01	352.06	352.01

Annual Max Momentary Gage Height 358.41 m. (MSL.) , at 12.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 351.43 m. (MSL.) , River Bed 351.01 m. (MSL.)

Left Bank Elevation 362.05 m. (MSL.) ,

Right Bank Elevation 362.05 m. (MSL.) , Drainage Are 6266 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	5.96	10.90	61.20	260.92	289.45	66.75	58.40	1.05	1.05	0.00		
2	0.00	0.00	12.30	24.60	50.40	253.67	291.40	66.28	50.40	1.05	0.91	0.00		
3	0.00	0.00	20.40	38.40	31.20	231.92	290.10	69.13	44.00	0.91	0.84	0.00		
4	0.00	0.00	26.40	40.00	25.20	219.83	282.67	73.93	38.00	0.84	0.77	0.00		
5	0.00	0.00	28.20	22.80	23.40	208.40	274.21	74.89	36.40	1.05	0.00	0.00		
6	0.00	0.00	29.40	34.80	28.80	197.40	268.17	73.44	28.80	2.45	0.00	0.00		
7	0.00	0.00	37.20	37.20	46.00	193.00	257.90	70.55	18.60	3.65	0.00	0.00		
8	0.00	0.00	16.71	36.00	48.40	204.00	247.02	82.66	11.25	3.95	0.00	0.00		
9	0.00	0.00	13.70	32.80	57.60	210.05	225.88	126.50	10.20	4.25	0.00	0.00		
10	0.00	0.00	11.25	29.40	63.43	208.40	211.15	154.00	9.12	4.55	0.00	0.00		
11	0.00	0.00	9.39	18.60	50.00	212.25	203.45	151.50	8.58	5.52	0.00	0.00		
12	0.00	0.00	8.85	14.99	82.66	228.90	194.65	164.40	11.25	7.06	0.00	0.00		
13	0.00	0.00	5.74	13.70	71.98	244.00	189.15	158.00	10.55	15.42	0.00	0.00		
14	0.00	0.00	4.85	13.00	110.30	255.48	186.40	141.50	8.85	17.14	0.00	0.00		
15	0.00	0.00	4.25	15.85	154.00	255.48	178.15	144.50	6.40	14.56	0.00	0.00		
16	0.00	5.74	3.80	19.80	215.00	291.40	166.05	150.00	5.74	8.31	0.00	0.00		
17	0.00	7.28	3.05	17.57	247.02	243.40	160.00	152.50	4.70	5.30	0.00	0.00		
18	0.00	7.77	3.05	14.13	233.13	242.79	156.00	157.00	4.40	4.85	0.00	0.00		
19	0.00	18.60	2.60	12.65	191.90	250.04	150.00	159.00	4.85	4.25	0.00	0.00		
20	0.00	8.04	2.03	13.00	176.50	268.17	143.50	158.00	4.25	3.95	0.00	0.00		
21	0.00	25.20	3.20	23.40	253.06	275.42	142.50	153.00	3.95	3.20	0.00	0.00		
22	0.00	16.71	10.55	60.80	280.25	279.65	135.00	148.50	3.80	2.75	0.00	0.00		
23	0.00	12.30	24.00	70.55	286.90	282.67	130.00	144.00	3.50	2.75	0.00	0.00		
24	0.00	10.55	35.60	77.80	280.25	275.42	111.75	134.00	3.20	2.60	0.00	0.00		
25	0.00	9.39	29.40	59.20	285.08	274.21	94.78	120.00	2.75	2.45	0.00	0.00		
26	0.00	6.84	25.20	49.20	297.25	274.21	86.54	114.66	2.75	2.30	0.00	0.00		
27	0.00	5.96	19.80	52.80	289.45	276.63	85.08	105.45	2.03	2.12	0.00	0.00		
28	0.00	5.74	12.30	56.00	280.25	279.04	76.84	93.81	1.05	1.85	0.00	0.00		
29	0.00	5.30	10.90	58.00	280.85	282.67	74.89	75.38	0.91	1.58		0.00		
30	0.00	4.85	9.39	60.00	282.06	286.90	75.86	70.55	0.84	1.40		0.00		
31		4.25		61.20	277.23		68.65		0.77	1.26		0.00		
Total	0.00	154.52	429.47	1089.14	5060.75	7466.32	5447.19	3553.88	400.29	134.37	3.57	0.00	23739.50	CMSDAY
Mean	0.00	4.98	14.32	35.13	163.25	248.88	175.72	118.46	12.91	4.33	0.13	0.00	65.04	CMS
Max	0.00	25.20	37.20	77.80	297.25	291.40	291.40	164.40	58.40	17.14	1.05	0.00	297.25	CMS
Min	0.00	0.00	2.03	10.90	23.40	193.00	68.65	66.28	0.77	0.84	0.00	0.00	0.00	CMS
Runoff	0.00	13.35	37.11	94.10	437.25	645.09	470.64	307.06	34.59	11.61	0.31	0.00	2051.09	MCM

Momentary Peak 314.15 CMS. at 358.41 m. (MSL.) at 12.00 Hours , on Sep 16 , 2016

Runoff Yield 10.38 Liters/Second/Square KM. Momentary Peak Yield 50.140 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE ING RIVER BASIN

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

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

Location : on left bank at Ban Jae Dee Ngam.

	Ban Jae Dee Ngam	**Amphoe** Mueang	**Changwat** Phayao
Drainge Area	1,167 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+386.266 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	**Elevation**	+390.690 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

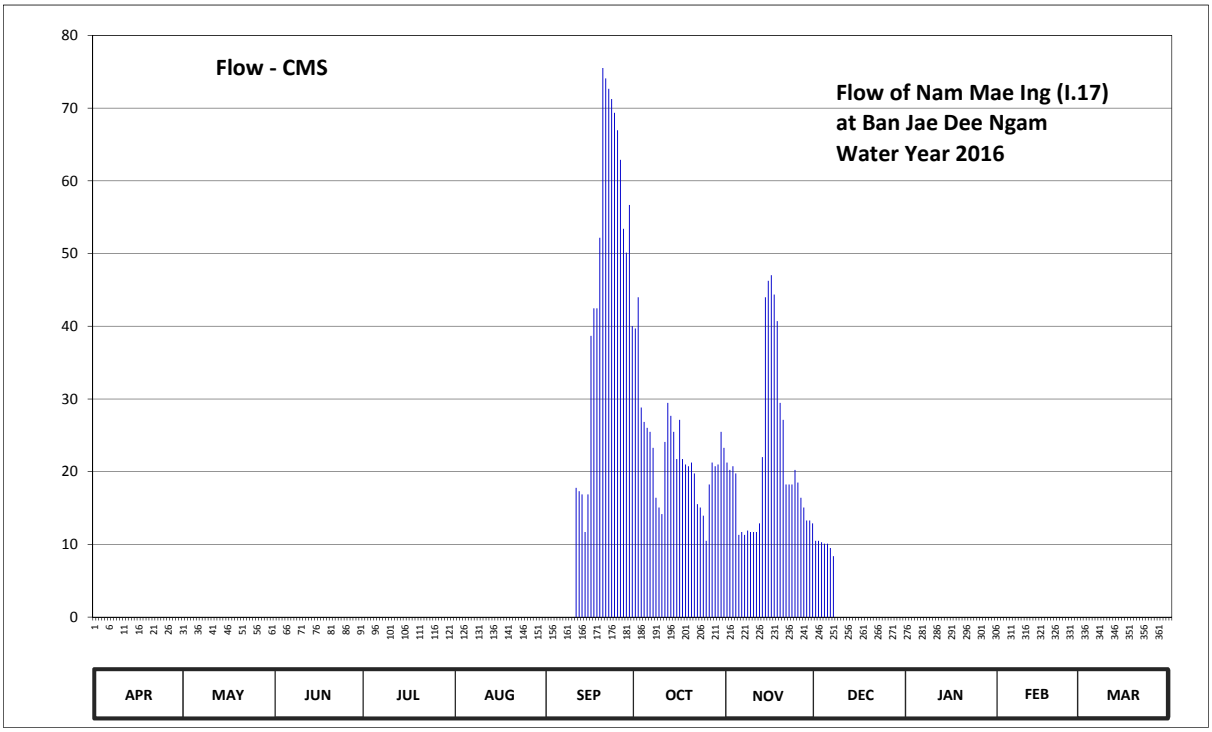
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	385.13	384.97	384.97	387.17	386.73	387.53	388.34	387.73	387.25	386.90	387.20	387.16	
2	385.09	384.97	385.07	387.21	386.72	387.47	388.46	387.69	387.25	386.97	387.13	387.19	
3	385.09	384.97	385.07	387.17	386.81	387.46	388.01	387.71	387.24	387.13	387.09	387.13	
4	385.06	384.97	385.07	387.20	386.79	387.41	387.94	387.67	387.23	387.14	387.09	387.05	
5	385.05	384.97	385.29	386.30	386.77	387.41	387.91	387.29	387.23	387.15	387.07	387.05	
6	384.97	384.97	385.33	386.30	386.75	387.42	387.89	387.31	387.20	387.15	387.07	387.05	
7	385.25	384.97	385.31	386.55	386.77	387.39	387.81	387.29	387.13	387.17	387.07	387.05	
8	385.19	384.97	385.45	386.63	386.79	387.34	387.53	387.32	387.15	387.21	387.07	387.05	
9	385.09	384.97	385.47	386.63	386.76	387.07	387.47	387.31	387.15	387.20	387.02	387.02	
10	385.06	384.97	385.47	386.65	386.81	387.07	387.43	387.31	387.15	387.18	386.97	387.02	
11	384.99	384.97	385.47	386.55	386.81	387.59	387.84	387.31	387.13	387.23	387.00	387.02	
12	384.97	384.97	385.47	386.55	386.80	387.57	388.03	387.37	387.13	387.25	387.00	387.00	
13	384.97	384.97	385.47	386.51	386.83	387.55	387.97	387.76	387.14	387.24	386.97	386.97	
14	384.97	384.97	387.22	386.50	386.79	387.31	387.89	388.46	387.36	387.21	386.97	387.17	
15	384.97	384.97	387.25	386.50	386.80	387.55	387.75	388.52	387.25	387.21	386.97	387.17	
16	384.97	384.97	387.25	386.50	386.79	388.31	387.95	388.54	387.25	387.28	386.97	387.15	
17	384.97	384.98	387.25	386.50	386.77	388.42	387.75	388.47	387.28	387.22	386.97	387.15	
18	384.97	385.02	387.29	386.55	386.78	388.42	387.72	388.37	387.33	387.52	386.97	387.15	
19	384.97	385.02	387.29	386.49	386.79	388.67	387.71	388.03	387.26	387.51	386.97	387.17	
20	384.97	385.02	387.29	386.59	386.85	389.19	387.73	387.95	387.23	387.47	386.97	387.17	
21	384.97	385.02	387.28	386.57	386.89	389.16	387.67	387.61	387.21	387.46	387.17	387.17	
22	384.97	385.02	387.23	386.57	386.91	389.13	387.49	387.61	387.17	387.42	386.87	387.14	
23	384.97	385.03	387.19	386.59	386.91	389.10	387.47	387.61	387.15	387.39	386.87	387.14	
24	384.97	385.04	387.19	386.57	386.91	389.06	387.42	387.69	387.13	387.35	386.87	387.14	
25	384.97	385.04	387.13	386.55	386.90	389.01	387.25	387.62	387.10	387.33	386.87	387.14	
26	384.97	385.04	387.15	386.55	386.89	388.92	387.61	387.53	387.05	387.29	386.87	387.12	
27	384.97	385.03	387.07	386.67	387.49	388.70	387.73	387.47	387.01	387.29	386.87	386.97	
28	384.97	385.03	387.10	386.89	387.47	388.62	387.71	387.39	386.87	387.29	386.87	386.37	
29	384.97	385.03	387.15	386.79	387.48	388.78	387.72	387.39	386.87	387.29		386.37	
30	384.97	385.04	387.15	386.75	387.50	388.35	387.89	387.37	386.87	387.29		386.37	
31		385.07		386.75	387.49		387.81		386.87	387.29		386.57	
Mean	385.01	385.00	386.38	386.65	386.92	388.10	387.77	387.69	387.15	387.26	386.99	387.01	
Max	385.25	385.07	387.29	387.21	387.50	389.19	388.46	388.54	387.36	387.52	387.20	387.19	389.19
Min	384.97	384.97	384.97	386.30	386.72	387.07	387.25	387.29	386.87	386.90	386.87	386.37	384.97

Annual Max Momentary Gage Height 389.20 m. (MSL.) , at 06.00 Hours , on Sep 20, 2016

Zero Gage at Bottom Elevation 386.27 m. (MSL.) , River Bed 384.60 m. (MSL.)

Left Bank Elevation 390.57 m. (MSL.) ,

Right Bank Elevation 390.57 m. (MSL.) , Drainage Are 1167 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	39.69	21.25	10.50	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	43.98	20.25	10.50	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	28.82	20.75	10.30	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	26.85	19.75	10.10	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	26.03	11.30	10.10	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	25.48	11.70	9.50	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	23.28	11.30	8.38	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	16.42	11.90	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	15.08	11.70	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	14.18	11.70	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	17.77	24.10	11.70	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	17.32	29.47	12.90	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	16.87	27.68	22.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	11.70	25.48	43.98	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	16.87	21.75	46.26	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	38.68	27.13	47.02	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	42.46	21.75	44.36	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	42.46	21.00	40.70	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	52.17	20.75	29.47	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	75.52	21.25	27.13	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	74.10	19.75	18.25	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	72.67	15.53	18.25	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	71.25	15.08	18.25	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	69.35	13.95	20.25	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	66.97	10.50	18.50	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	62.90	18.25	16.42	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	53.40	21.25	15.08	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	50.12	20.75	13.30	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	56.68	21.00	13.30	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	40.03	25.48	12.90	0.00	0.00		0.00	
31		0.00		0.00	0.00		23.28		0.00	0.00		0.00	
Total	0.00	0.00	0.00	0.00	0.00	949.29	704.99	641.62	69.38	0.00	0.00	0.00	2365.28 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	31.64	22.74	21.39	2.24	0.00	0.00	0.00	6.48 CMS
Max	0.00	0.00	0.00	0.00	0.00	75.52	43.98	47.02	10.50	0.00	0.00	0.00	75.52 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	10.50	11.30	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.00	82.02	60.91	55.44	5.99	0.00	0.00	0.00	204.36 MCM

Momentary Peak 76.00 CMS. at 389.20 m. (MSL.) at 06.00 Hours , on Sep 20 , 2016

Runoff Yield 5.55 Liters/Second/Square KM. Momentary Peak Yield 65.120 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

Location : on left bank at Ban Pang Rim Kon.

	Ban Pang Rim Kon	**Amphoe** Mueang	**Changwat** Chiang Rai
Drainge Area	49 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+461.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 66.50 meters from the top staff gage.		**Elevation** +465.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

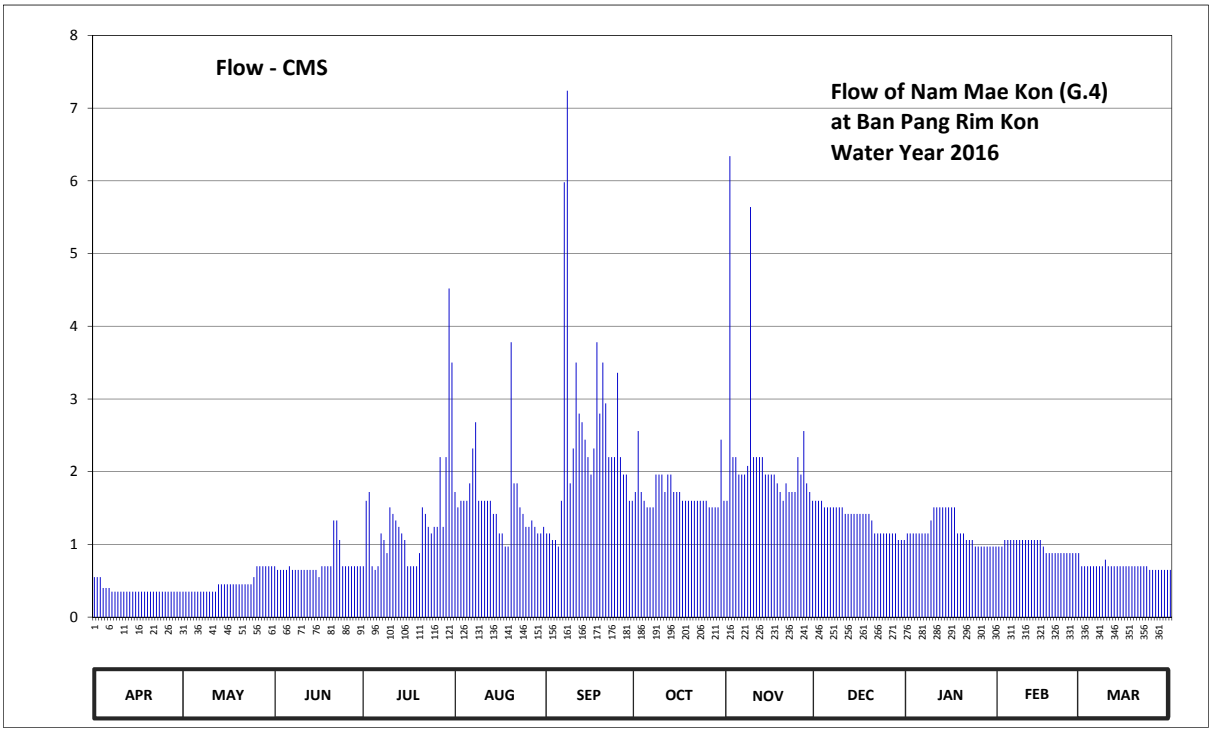
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.77	462.73	462.80	462.80	462.91	462.85	462.91	462.90	462.90	462.85	462.83	462.80	
2	462.77	462.73	462.79	462.90	462.89	462.85	462.98	463.23	462.90	462.85	462.83	462.80	
3	462.77	462.73	462.79	462.91	462.90	462.84	462.91	462.95	462.90	462.85	462.84	462.80	
4	462.74	462.73	462.79	462.80	462.90	462.84	462.90	462.95	462.89	462.85	462.84	462.80	
5	462.74	462.73	462.79	462.79	462.90	462.83	462.89	462.93	462.89	462.85	462.84	462.80	
6	462.74	462.73	462.80	462.80	462.92	462.90	462.89	462.93	462.89	462.85	462.84	462.80	
7	462.73	462.73	462.79	462.85	462.96	463.21	462.89	462.93	462.89	462.85	462.84	462.80	
8	462.73	462.73	462.79	462.84	462.99	463.28	462.93	462.94	462.89	462.85	462.84	462.80	
9	462.73	462.73	462.79	462.82	462.90	462.92	462.93	463.19	462.89	462.87	462.84	462.81	
10	462.73	462.73	462.79	462.89	462.90	462.96	462.93	462.95	462.89	462.89	462.84	462.80	
11	462.73	462.73	462.79	462.88	462.90	463.05	462.91	462.95	462.88	462.89	462.84	462.80	
12	462.73	462.73	462.79	462.87	462.90	463.00	462.93	462.95	462.88	462.89	462.84	462.80	
13	462.73	462.75	462.79	462.86	462.90	462.99	462.93	462.95	462.88	462.89	462.84	462.80	
14	462.73	462.75	462.79	462.85	462.88	462.97	462.91	462.93	462.88	462.89	462.84	462.80	
15	462.73	462.75	462.79	462.84	462.88	462.95	462.91	462.93	462.88	462.89	462.84	462.80	
16	462.73	462.75	462.77	462.80	462.85	462.93	462.91	462.93	462.88	462.89	462.83	462.80	
17	462.73	462.75	462.80	462.80	462.85	462.96	462.90	462.93	462.88	462.89	462.82	462.80	
18	462.73	462.75	462.80	462.80	462.83	463.07	462.90	462.92	462.88	462.85	462.82	462.80	
19	462.73	462.75	462.80	462.80	462.83	463.00	462.90	462.91	462.88	462.85	462.82	462.80	
20	462.73	462.75	462.80	462.82	463.07	463.05	462.90	462.90	462.87	462.85	462.82	462.80	
21	462.73	462.75	462.87	462.89	462.92	463.01	462.90	462.92	462.85	462.84	462.82	462.80	
22	462.73	462.75	462.87	462.88	462.92	462.95	462.90	462.91	462.85	462.84	462.82	462.80	
23	462.73	462.75	462.84	462.86	462.89	462.95	462.90	462.91	462.85	462.84	462.82	462.80	
24	462.73	462.75	462.80	462.85	462.88	462.95	462.90	462.91	462.85	462.83	462.82	462.79	
25	462.73	462.77	462.80	462.86	462.86	463.04	462.90	462.95	462.85	462.83	462.82	462.79	
26	462.73	462.80	462.80	462.86	462.86	462.95	462.89	462.93	462.85	462.83	462.82	462.79	
27	462.73	462.80	462.80	462.95	462.87	462.93	462.89	462.98	462.85	462.83	462.82	462.79	
28	462.73	462.80	462.80	462.86	462.86	462.93	462.89	462.92	462.85	462.83	462.82	462.79	
29	462.73	462.80	462.80	462.95	462.85	462.90	462.89	462.91	462.84	462.83		462.79	
30	462.73	462.80	462.80	463.12	462.85	462.90	462.97	462.90	462.84	462.83		462.79	
31		462.80		463.05	462.86		462.90		462.84	462.83		462.79	
Mean	462.73	462.75	462.80	462.87	462.89	462.97	462.91	462.95	462.87	462.85	462.83	462.80	
Max	462.77	462.80	462.87	463.12	463.07	463.28	462.98	463.23	462.90	462.89	462.84	462.81	463.28
Min	462.73	462.73	462.77	462.79	462.83	462.83	462.89	462.90	462.84	462.83	462.82	462.79	462.73

Annual Max Momentary Gage Height 463.45 m. (MSL.) , at 06.00 Hours , on Nov 2 , 2016

Zero Gage at Bottom Elevation 461.70 m. (MSL.) , River Bed 462.27 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.55	0.35	0.70	0.70	1.72	1.15	1.72	1.60	1.60	1.15	0.97	0.70		
2	0.55	0.35	0.65	1.60	1.51	1.15	2.56	6.34	1.60	1.15	0.97	0.70		
3	0.55	0.35	0.65	1.72	1.60	1.06	1.72	2.20	1.60	1.15	1.06	0.70		
4	0.40	0.35	0.65	0.70	1.60	1.06	1.60	2.20	1.51	1.15	1.06	0.70		
5	0.40	0.35	0.65	0.65	1.60	0.97	1.51	1.96	1.51	1.15	1.06	0.70		
6	0.40	0.35	0.70	0.70	1.84	1.60	1.51	1.96	1.51	1.15	1.06	0.70		
7	0.35	0.35	0.65	1.15	2.32	5.98	1.51	1.96	1.51	1.15	1.06	0.70		
8	0.35	0.35	0.65	1.06	2.68	7.24	1.96	2.08	1.51	1.15	1.06	0.70		
9	0.35	0.35	0.65	0.88	1.60	1.84	1.96	5.64	1.51	1.33	1.06	0.79		
10	0.35	0.35	0.65	1.51	1.60	2.32	1.96	2.20	1.51	1.51	1.06	0.70		
11	0.35	0.35	0.65	1.42	1.60	3.50	1.72	2.20	1.42	1.51	1.06	0.70		
12	0.35	0.35	0.65	1.33	1.60	2.80	1.96	2.20	1.42	1.51	1.06	0.70		
13	0.35	0.45	0.65	1.24	1.60	2.68	1.96	2.20	1.42	1.51	1.06	0.70		
14	0.35	0.45	0.65	1.15	1.42	2.44	1.72	1.96	1.42	1.51	1.06	0.70		
15	0.35	0.45	0.65	1.06	1.42	2.20	1.72	1.96	1.42	1.51	1.06	0.70		
16	0.35	0.45	0.55	0.70	1.15	1.96	1.72	1.96	1.42	1.51	0.97	0.70		
17	0.35	0.45	0.70	0.70	1.15	2.32	1.60	1.96	1.42	1.51	0.88	0.70		
18	0.35	0.45	0.70	0.70	0.97	3.78	1.60	1.84	1.42	1.15	0.88	0.70		
19	0.35	0.45	0.70	0.70	0.97	2.80	1.60	1.72	1.42	1.15	0.88	0.70		
20	0.35	0.45	0.70	0.88	3.78	3.50	1.60	1.60	1.33	1.15	0.88	0.70		
21	0.35	0.45	1.33	1.51	1.84	2.94	1.60	1.84	1.15	1.06	0.88	0.70		
22	0.35	0.45	1.33	1.42	1.84	2.20	1.60	1.72	1.15	1.06	0.88	0.70		
23	0.35	0.45	1.06	1.24	1.51	2.20	1.60	1.72	1.15	1.06	0.88	0.70		
24	0.35	0.45	0.70	1.15	1.42	2.20	1.60	1.72	1.15	0.97	0.88	0.65		
25	0.35	0.55	0.70	1.24	1.24	3.36	1.60	2.20	1.15	0.97	0.88	0.65		
26	0.35	0.70	0.70	1.24	1.24	2.20	1.51	1.96	1.15	0.97	0.88	0.65		
27	0.35	0.70	0.70	2.20	1.33	1.96	1.51	2.56	1.15	0.97	0.88	0.65		
28	0.35	0.70	0.70	1.24	1.24	1.96	1.51	1.84	1.15	0.97	0.88	0.65		
29	0.35	0.70	0.70	2.20	1.15	1.60	1.51	1.72	1.06	0.97		0.65		
30	0.35	0.70	0.70	4.52	1.15	1.60	2.44	1.60	1.06	0.97		0.65		
31		0.70		3.50	1.24		1.60		1.06	0.97		0.65		
Total	11.25	14.35	21.82	42.01	48.93	74.57	53.29	66.62	41.86	37.00	27.25	21.39	460.34	CMSDAY
Mean	0.37	0.46	0.73	1.36	1.58	2.49	1.72	2.22	1.35	1.19	0.97	0.69	1.26	CMS
Max	0.55	0.70	1.33	4.52	3.78	7.24	2.56	6.34	1.60	1.51	1.06	0.79	7.24	CMS
Min	0.35	0.35	0.55	0.65	0.97	0.97	1.51	1.60	1.06	0.97	0.88	0.65	0.35	CMS
Runoff	0.97	1.24	1.89	3.63	4.23	6.44	4.60	5.76	3.62	3.20	2.35	1.85	39.77	MCM

Momentary Peak 10.65 CMS. at 463.45 m. (MSL.) at 06.00 Hours , on Nov 2 , 2016

Runoff Yield 25.74 Liters/Second/Square KM. Momentary Peak Yield 217.350 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

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

	Ban Ton Yang	**Amphoe** Mae Lao	**Changwat** Chiang Rai
Drainge Area	2,909 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+405.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 8 meters from the top staff gage.	**Elevation**	+410.832 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 40 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

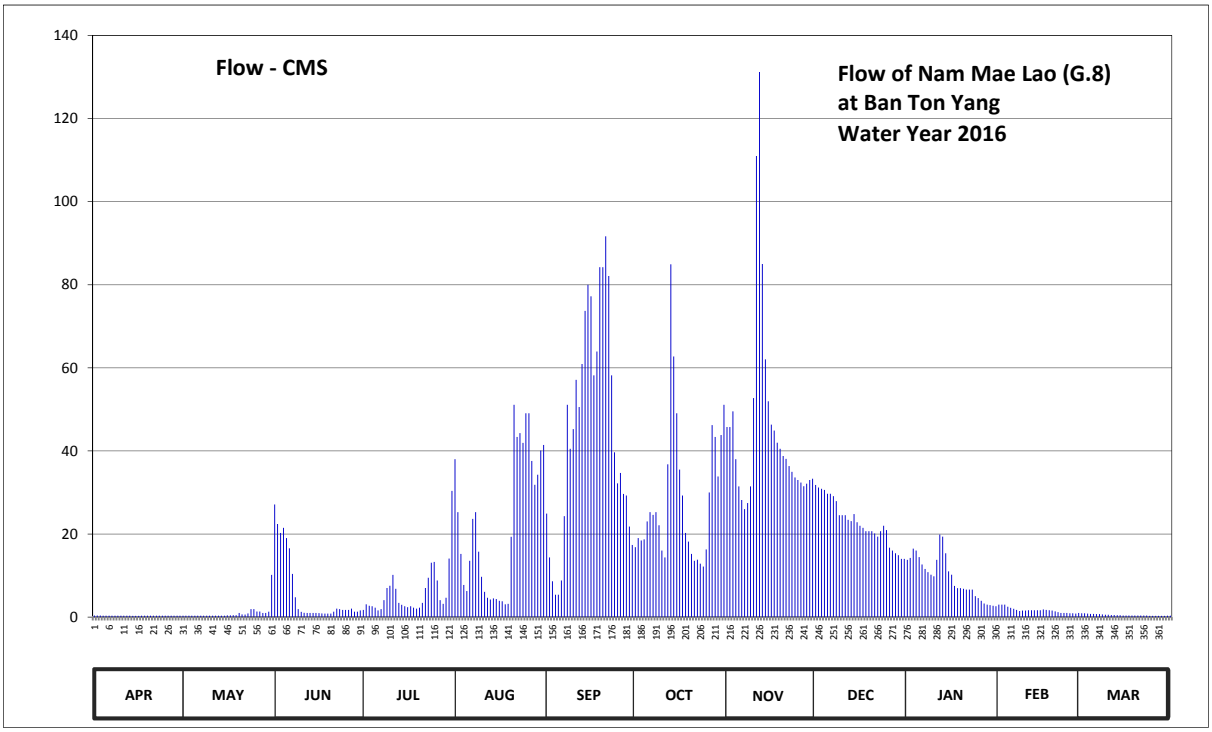
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	404.87	404.86	406.26	405.12	406.54	406.20	405.93	406.71	406.14	405.47	404.87	404.66	
2	404.87	404.86	406.12	405.24	406.21	405.84	406.01	406.71	406.12	405.49	404.87	404.66	
3	404.87	404.86	406.05	405.21	405.87	405.59	405.99	406.79	406.11	405.59	404.87	404.65	
4	404.86	404.86	406.09	405.20	405.54	405.41	406.00	406.54	406.10	405.57	404.83	404.64	
5	404.86	404.86	406.01	405.17	405.46	405.41	406.14	406.38	406.07	405.50	404.81	404.64	
6	404.86	404.86	405.92	405.11	405.81	405.60	406.21	406.29	406.07	405.42	404.79	404.63	
7	404.86	404.86	405.67	405.14	406.16	406.18	406.19	406.23	406.05	405.37	404.76	404.63	
8	404.86	404.86	405.37	405.32	406.21	406.82	406.21	406.27	406.01	405.33	404.73	404.62	
9	404.86	404.86	405.14	405.50	405.89	406.60	406.11	406.38	405.89	405.30	404.74	404.61	
10	404.86	404.86	405.05	405.53	405.64	406.70	405.90	406.85	405.89	405.28	404.74	404.61	
11	404.86	404.86	405.01	405.66	405.45	406.93	405.84	407.70	405.89	405.47	404.75	404.60	
12	404.86	404.86	405.00	405.49	405.36	406.81	406.51	407.93	405.85	405.72	404.75	404.60	
13	404.86	404.86	405.00	405.27	405.33	407.00	407.37	407.32	405.84	405.70	404.75	404.59	
14	404.85	404.86	405.00	405.23	405.35	407.21	407.03	406.92	405.90	405.54	404.75	404.59	
15	404.85	404.86	405.00	405.20	405.34	407.30	406.78	406.70	405.83	405.34	404.75	404.58	
16	404.85	404.88	404.99	405.18	405.31	407.26	406.48	406.56	405.80	405.30	404.77	404.58	
17	404.86	404.88	404.98	405.20	405.30	406.95	406.32	406.52	405.78	405.16	404.76	404.58	
18	404.86	404.89	404.97	405.17	405.24	407.05	406.05	406.44	405.75	405.13	404.75	404.58	
19	404.86	404.89	404.97	405.15	405.25	407.36	405.98	406.40	405.75	405.13	404.74	404.58	
20	404.86	405.00	404.97	405.17	406.02	407.36	405.87	406.35	405.75	405.12	404.72	404.58	
21	404.86	404.93	405.06	405.27	406.82	407.46	405.81	406.33	405.73	405.11	404.70	404.58	
22	404.86	404.92	405.15	405.50	406.66	407.33	405.82	406.28	405.70	405.11	404.67	404.58	
23	404.86	404.98	405.14	405.63	406.68	406.95	405.78	406.24	405.75	405.11	404.67	404.58	
24	404.86	405.14	405.12	405.79	406.63	406.58	405.75	406.20	405.80	405.02	404.67	404.56	
25	404.86	405.14	405.12	405.80	406.78	406.40	405.91	406.18	405.76	404.99	404.66	404.56	
26	404.86	405.07	405.12	405.60	406.78	406.46	406.34	406.16	405.60	404.94	404.66	404.56	
27	404.86	405.07	405.15	405.32	406.53	406.33	406.72	406.13	405.57	404.89	404.65	404.56	
28	404.86	405.00	405.06	405.25	406.39	406.32	406.66	406.15	405.54	404.87	404.67	404.56	
29	404.86	405.00	405.06	405.36	406.45	406.10	406.44	406.18	405.52	404.86		404.56	
30	404.86	405.06	405.11	405.83	406.59	405.95	406.67	406.19	405.48	404.85		404.57	
31		405.66		406.35	406.62		406.82		405.48	404.84		404.57	
Mean	404.86	404.95	405.29	405.39	406.01	406.58	406.25	406.53	405.82	405.24	404.74	404.60	
Max	404.87	405.66	406.26	406.35	406.82	407.46	407.37	407.93	406.14	405.72	404.87	404.66	407.93
Min	404.85	404.86	404.97	405.11	405.24	405.41	405.75	406.13	405.48	404.84	404.65	404.56	404.56

Annual Max Momentary Gage Height 408.10 m. (MSL.) , at 10.00 Hours , on Nov 12 , 2016

Zero Gage at Bottom Elevation 405.10 m. (MSL.) , River Bed 403.87 m. (MSL.)

Left Bank Elevation 410.61 m. (MSL.) ,

Right Bank Elevation 410.59 m. (MSL.) , Drainage Are 2909 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	0.34	27.09	1.72	38.01	24.90	16.81	45.73	31.80	13.78	3.01	0.92		
2	0.38	0.34	22.42	3.08	25.26	14.38	19.01	45.73	31.20	14.23	3.01	0.92		
3	0.38	0.34	20.25	2.72	15.19	8.62	18.43	49.53	30.90	16.47	3.01	0.85		
4	0.34	0.34	21.49	2.60	7.72	5.38	18.70	38.01	30.60	16.02	2.49	0.78		
5	0.34	0.34	19.01	2.27	6.28	5.38	23.04	31.47	29.70	14.45	2.23	0.78		
6	0.34	0.34	16.54	1.61	13.57	8.80	25.26	28.18	29.70	12.65	2.01	0.71		
7	0.34	0.34	10.38	1.94	23.66	24.28	24.59	25.99	29.10	11.60	1.74	0.71		
8	0.34	0.34	4.78	4.08	25.26	51.09	25.26	27.45	27.90	10.80	1.47	0.64		
9	0.34	0.34	1.94	7.00	15.73	40.50	22.11	31.47	24.52	10.20	1.56	0.57		
10	0.34	0.34	1.25	7.54	9.70	45.25	16.00	52.73	24.52	9.80	1.56	0.57		
11	0.34	0.34	1.05	10.15	6.10	57.09	14.38	111.00	24.52	13.78	1.65	0.50		
12	0.34	0.34	1.00	6.82	4.64	50.55	36.76	131.20	23.40	19.88	1.65	0.50		
13	0.34	0.34	1.00	3.44	4.22	60.90	84.90	85.00	23.12	19.35	1.65	0.45		
14	0.30	0.34	1.00	2.96	4.50	73.70	62.71	62.04	24.80	15.35	1.65	0.45		
15	0.30	0.34	1.00	2.60	4.36	80.00	49.05	51.95	22.84	11.00	1.65	0.40		
16	0.30	0.42	0.95	2.38	3.94	77.20	35.52	46.34	22.00	10.20	1.83	0.40		
17	0.34	0.42	0.90	2.60	3.80	58.18	29.28	44.88	21.47	7.50	1.74	0.40		
18	0.34	0.46	0.85	2.27	3.08	63.92	20.25	41.96	20.68	6.97	1.65	0.40		
19	0.34	0.46	0.85	2.05	3.20	84.20	18.16	40.50	20.68	6.97	1.56	0.40		
20	0.34	1.00	0.85	2.27	19.32	84.20	15.19	38.78	20.68	6.80	1.38	0.40		
21	0.34	0.65	1.30	3.44	51.09	91.65	13.57	38.08	20.15	6.62	1.20	0.40		
22	0.34	0.60	2.05	7.00	43.35	82.10	13.84	36.36	19.35	6.62	0.99	0.40		
23	0.34	0.90	1.94	9.47	44.30	58.18	12.85	34.98	20.68	6.62	0.99	0.40		
24	0.34	1.94	1.72	13.08	41.92	39.67	12.18	33.60	22.00	5.05	0.99	0.30		
25	0.34	1.94	1.72	13.30	49.05	32.20	16.27	33.00	20.94	4.57	0.92	0.30		
26	0.34	1.35	1.72	8.80	49.05	34.69	30.01	32.40	16.70	3.92	0.92	0.30		
27	0.34	1.35	2.05	4.08	37.59	29.64	46.20	31.50	16.02	3.27	0.85	0.30		
28	0.34	1.00	1.30	3.20	31.84	29.28	43.35	32.10	15.35	3.01	0.99	0.30		
29	0.34	1.00	1.30	4.64	34.28	21.80	33.86	33.00	14.90	2.88		0.30		
30	0.34	1.30	1.61	14.11	40.08	17.35	43.83	33.30	14.00	2.75		0.35		
31		10.15		30.38	41.45		51.09		14.00	2.62		0.35		
Total	10.20	30.04	171.31	183.60	701.54	1355.08	892.46	1368.26	708.22	295.73	46.35	15.45	5778.24	CMSDAY
Mean	0.34	0.97	5.71	5.92	22.63	45.17	28.79	45.61	22.85	9.54	1.66	0.50	15.83	CMS
Max	0.38	10.15	27.09	30.38	51.09	91.65	84.90	131.20	31.80	19.88	3.01	0.92	131.20	CMS
Min	0.30	0.34	0.85	1.61	3.08	5.38	12.18	25.99	14.00	2.62	0.85	0.30	0.30	CMS
Runoff	0.88	2.60	14.80	15.86	60.61	117.08	77.11	118.22	61.19	25.55	4.00	1.33	499.24	MCM

Momentary Peak 147.00 CMS. at 408.10 m. (MSL.) at 10.00 Hours , on Nov 12 , 2016

Runoff Yield 5.44 Liters/Second/Square KM. Momentary Peak Yield 50.530 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

Location : on right bank at the bridge on road.

	Ban Kariang Thung Phrao **Amphoe** Mae Suai **Changwat** Chiang Rai
Drainge Area	386 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+514.656 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 20 meters from the top staff gage. **Elevation** +522.091 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1998 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

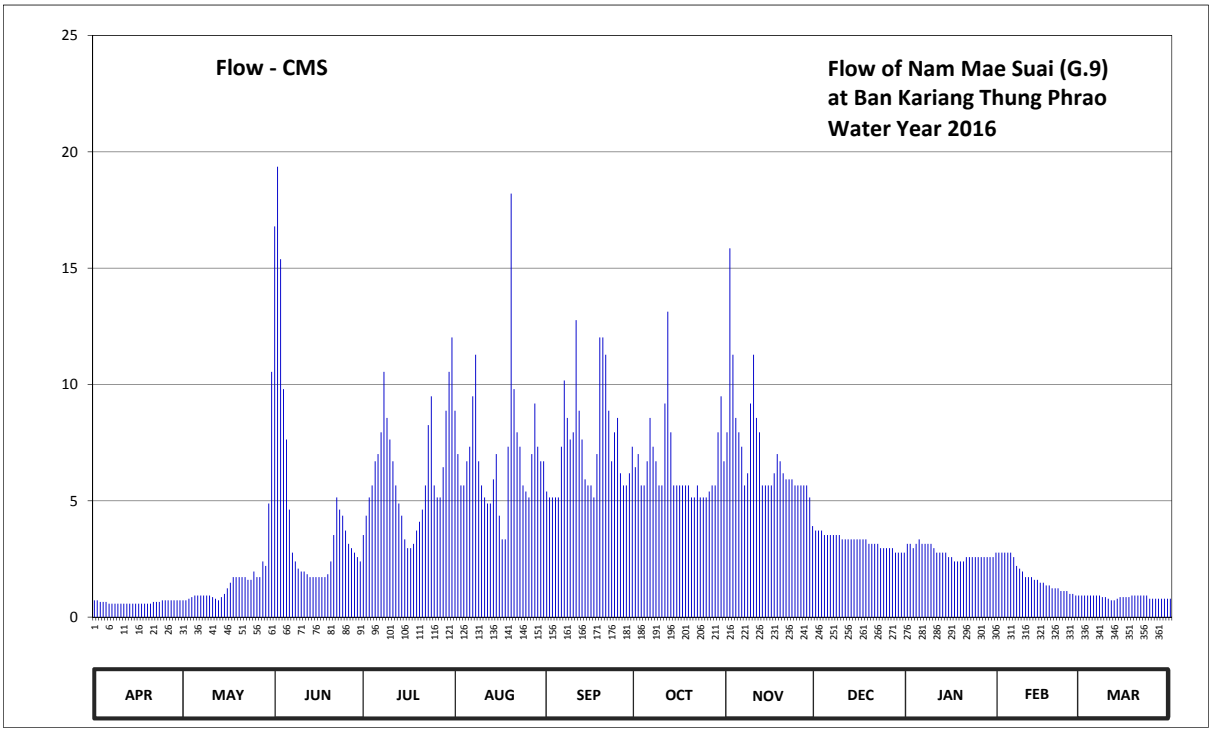
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.56	515.56	516.17	515.77	515.97	515.85	515.89	515.94	515.78	515.75	515.73	515.59	
2	515.56	515.56	516.22	515.81	515.91	515.84	515.91	516.15	515.78	515.75	515.73	515.59	
3	515.55	515.57	516.14	515.84	515.86	515.84	515.86	516.04	515.78	515.74	515.73	515.59	
4	515.55	515.58	516.00	515.86	515.86	515.84	515.86	515.96	515.77	515.75	515.73	515.59	
5	515.55	515.59	515.93	515.90	515.90	515.84	515.90	515.94	515.77	515.76	515.73	515.59	
6	515.54	515.59	515.82	515.91	515.92	515.92	515.96	515.92	515.77	515.75	515.72	515.59	
7	515.54	515.59	515.73	515.94	515.99	516.01	515.92	515.86	515.77	515.75	515.70	515.59	
8	515.54	515.59	515.71	516.02	516.04	515.96	515.90	515.88	515.77	515.75	515.69	515.58	
9	515.54	515.59	515.69	515.96	515.90	515.93	515.86	515.98	515.77	515.75	515.68	515.58	
10	515.54	515.59	515.68	515.93	515.86	515.94	515.86	516.04	515.76	515.74	515.66	515.57	
11	515.54	515.58	515.68	515.90	515.84	516.08	515.98	515.96	515.76	515.73	515.66	515.56	
12	515.54	515.57	515.67	515.86	515.83	515.97	516.09	515.94	515.76	515.73	515.66	515.56	
13	515.54	515.56	515.66	515.83	515.83	515.93	515.94	515.86	515.76	515.73	515.65	515.57	
14	515.54	515.58	515.66	515.81	515.87	515.87	515.86	515.86	515.76	515.73	515.65	515.58	
15	515.54	515.60	515.66	515.76	515.91	515.86	515.86	515.86	515.76	515.72	515.64	515.58	
16	515.54	515.62	515.66	515.74	515.81	515.86	515.86	515.86	515.76	515.72	515.64	515.58	
17	515.54	515.64	515.66	515.74	515.76	515.84	515.86	515.88	515.76	515.71	515.63	515.58	
18	515.54	515.66	515.66	515.75	515.76	515.91	515.86	515.91	515.76	515.71	515.63	515.59	
19	515.54	515.66	515.67	515.78	515.92	516.06	515.86	515.90	515.75	515.71	515.62	515.59	
20	515.54	515.66	515.71	515.80	516.20	516.06	515.84	515.88	515.75	515.71	515.62	515.59	
21	515.55	515.66	515.77	515.82	516.00	516.04	515.84	515.87	515.75	515.72	515.62	515.59	
22	515.55	515.66	515.84	515.86	515.94	515.97	515.86	515.87	515.75	515.72	515.61	515.59	
23	515.55	515.65	515.82	515.95	515.92	515.90	515.84	515.87	515.74	515.72	515.61	515.59	
24	515.56	515.65	515.81	515.99	515.86	515.94	515.84	515.86	515.74	515.72	515.61	515.57	
25	515.56	515.68	515.78	515.86	515.85	515.96	515.84	515.86	515.74	515.72	515.60	515.57	
26	515.56	515.66	515.75	515.84	515.84	515.88	515.85	515.86	515.74	515.72	515.60	515.57	
27	515.56	515.66	515.74	515.84	515.91	515.86	515.86	515.86	515.74	515.72	515.59	515.57	
28	515.56	515.71	515.73	515.89	515.98	515.86	515.86	515.86	515.73	515.72	515.59	515.57	
29	515.56	515.70	515.72	515.97	515.92	515.88	515.94	515.84	515.73	515.72		515.57	
30	515.56	515.83	515.71	516.02	515.90	515.92	515.99	515.79	515.73	515.72		515.57	
31		516.02		516.06	515.90		515.90		515.73	515.73		515.57	
Mean	515.55	515.64	515.78	515.87	515.90	515.92	515.89	515.91	515.76	515.73	515.65	515.58	
Max	515.56	516.02	516.22	516.06	516.20	516.08	516.09	516.15	515.78	515.76	515.73	515.59	516.22
Min	515.54	515.56	515.66	515.74	515.76	515.84	515.84	515.79	515.73	515.71	515.59	515.56	515.54

Annual Max Momentary Gage Height 516.28 m. (MSL.) , at 06.00 Hours , on Aug 20 , 2016

Zero Gage at Bottom Elevation 514.66 m. (MSL.) , River Bed 514.95 m. (MSL.)

Left Bank Elevation 521.61 m. (MSL.) ,

Right Bank Elevation 521.60 m. (MSL.) , Drainage Are 386 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.72	16.79	3.53	8.87	5.40	6.44	7.94	3.72	3.15	2.77	0.93	
2	0.72	0.72	19.36	4.36	7.01	5.14	7.01	15.85	3.72	3.15	2.77	0.93	
3	0.65	0.79	15.38	5.14	5.66	5.14	5.66	11.28	3.72	2.96	2.77	0.93	
4	0.65	0.86	9.80	5.66	5.66	5.14	5.66	8.56	3.53	3.15	2.77	0.93	
5	0.65	0.93	7.63	6.70	6.70	5.14	6.70	7.94	3.53	3.34	2.77	0.93	
6	0.58	0.93	4.62	7.01	7.32	7.32	8.56	7.32	3.53	3.15	2.58	0.93	
7	0.58	0.93	2.77	7.94	9.49	10.17	7.32	5.66	3.53	3.15	2.20	0.93	
8	0.58	0.93	2.39	10.54	11.28	8.56	6.70	6.18	3.53	3.15	2.08	0.86	
9	0.58	0.93	2.08	8.56	6.70	7.63	5.66	9.18	3.53	3.15	1.96	0.86	
10	0.58	0.93	1.96	7.63	5.66	7.94	5.66	11.28	3.34	2.96	1.72	0.79	
11	0.58	0.86	1.96	6.70	5.14	12.76	9.18	8.56	3.34	2.77	1.72	0.72	
12	0.58	0.79	1.84	5.66	4.88	8.87	13.13	7.94	3.34	2.77	1.72	0.72	
13	0.58	0.72	1.72	4.88	4.88	7.63	7.94	5.66	3.34	2.77	1.60	0.79	
14	0.58	0.86	1.72	4.36	5.92	5.92	5.66	5.66	3.34	2.77	1.60	0.86	
15	0.58	1.00	1.72	3.34	7.01	5.66	5.66	5.66	3.34	2.58	1.48	0.86	
16	0.58	1.24	1.72	2.96	4.36	5.66	5.66	5.66	3.34	2.58	1.48	0.86	
17	0.58	1.48	1.72	2.96	3.34	5.14	5.66	6.18	3.34	2.39	1.36	0.86	
18	0.58	1.72	1.72	3.15	3.34	7.01	5.66	7.01	3.34	2.39	1.36	0.93	
19	0.58	1.72	1.84	3.72	7.32	12.02	5.66	6.70	3.15	2.39	1.24	0.93	
20	0.58	1.72	2.39	4.10	18.20	12.02	5.14	6.18	3.15	2.39	1.24	0.93	
21	0.65	1.72	3.53	4.62	9.80	11.28	5.14	5.92	3.15	2.58	1.24	0.93	
22	0.65	1.72	5.14	5.66	7.94	8.87	5.66	5.92	3.15	2.58	1.12	0.93	
23	0.65	1.60	4.62	8.25	7.32	6.70	5.14	5.92	2.96	2.58	1.12	0.93	
24	0.72	1.60	4.36	9.49	5.66	7.94	5.14	5.66	2.96	2.58	1.12	0.79	
25	0.72	1.96	3.72	5.66	5.40	8.56	5.14	5.66	2.96	2.58	1.00	0.79	
26	0.72	1.72	3.15	5.14	5.14	6.18	5.40	5.66	2.96	2.58	1.00	0.79	
27	0.72	1.72	2.96	5.14	7.01	5.66	5.66	5.66	2.96	2.58	0.93	0.79	
28	0.72	2.39	2.77	6.44	9.18	5.66	5.66	5.66	2.77	2.58	0.93	0.79	
29	0.72	2.20	2.58	8.87	7.32	6.18	7.94	5.14	2.77	2.58		0.79	
30	0.72	4.88	2.39	10.54	6.70	7.32	9.49	3.91	2.77	2.58		0.79	
31		10.54		12.02	6.70		6.70		2.77	2.77		0.79	
Total	19.08	52.83	136.35	190.73	216.91	224.62	201.79	211.51	100.88	85.68	47.65	26.59	1514.62 CMSDAY
Mean	0.64	1.70	4.54	6.15	7.00	7.49	6.51	7.05	3.25	2.76	1.70	0.86	4.15 CMS
Max	0.72	10.54	19.36	12.02	18.20	12.76	13.13	15.85	3.72	3.34	2.77	0.93	19.36 CMS
Min	0.58	0.72	1.72	2.96	3.34	5.14	5.14	3.91	2.77	2.39	0.93	0.72	0.58 CMS
Runoff	1.65	4.56	11.78	16.48	18.74	19.41	17.43	18.27	8.72	7.40	4.12	2.30	130.86 MCM

Momentary Peak 22.84 CMS. at 516.28 m. (MSL.) at 06.00 Hours , on Aug 20 , 2016

Runoff Yield 10.75 Liters/Second/Square KM. Momentary Peak Yield 59.170 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

Location : on right bank at Ban Nong Phum.

	Ban Nong Phum	**Amphoe** Mae Suai	**Changwat** Chiang Rai
Drainge Area	2,614 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+433.473 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+439.133 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

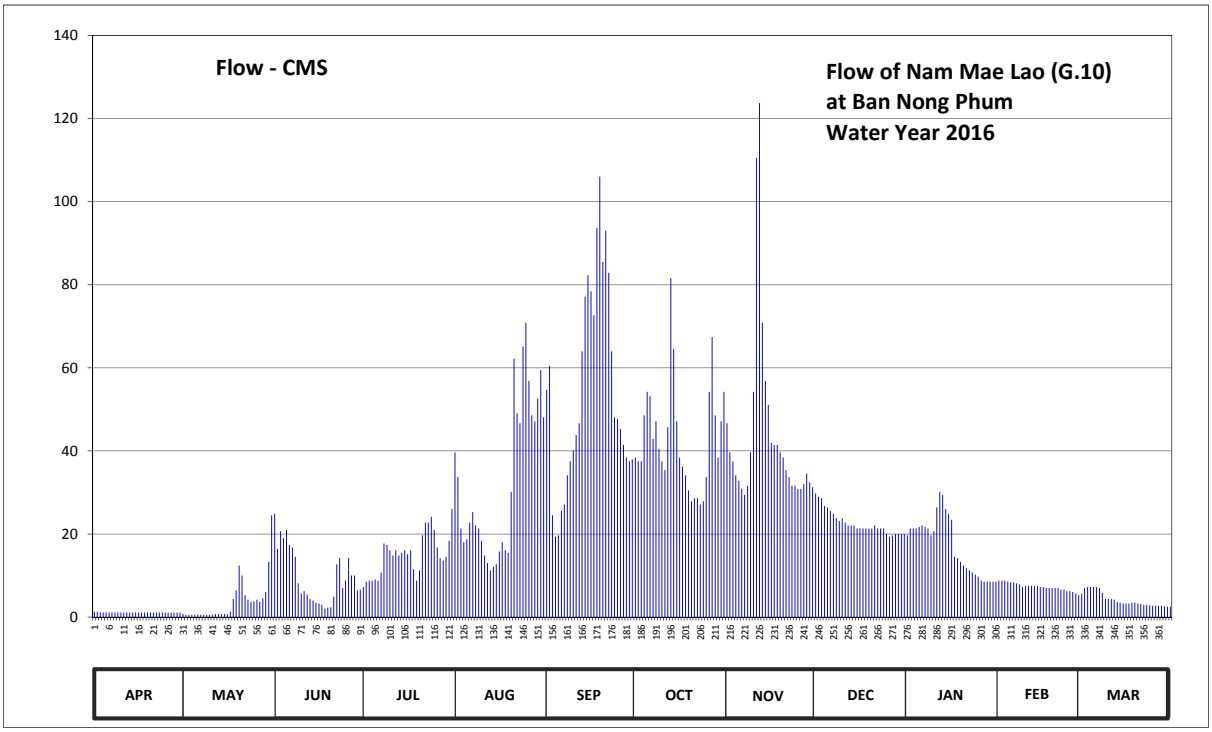
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.04	432.98	434.01	433.42	434.38	434.69	434.35	434.53	434.14	433.86	433.49	433.34	
2	433.04	432.94	433.76	433.48	434.24	434.80	434.33	434.38	434.12	433.91	433.49	433.41	
3	433.03	432.94	433.89	433.49	433.91	434.00	434.33	434.33	434.11	433.91	433.49	433.42	
4	433.02	432.94	433.84	433.49	433.81	433.85	434.57	434.25	434.06	433.91	433.48	433.42	
5	433.02	432.94	433.90	433.50	433.83	433.86	434.68	434.22	434.05	433.92	433.47	433.42	
6	433.02	432.94	433.79	433.49	433.95	434.03	434.66	434.17	434.03	433.93	433.47	433.42	
7	433.02	432.94	433.77	433.57	434.02	434.07	434.45	434.13	434.01	433.92	433.46	433.41	
8	433.02	432.94	433.70	433.80	433.93	434.25	434.54	434.19	433.98	433.91	433.45	433.35	
9	433.02	432.94	433.46	433.79	433.91	434.33	434.40	434.38	433.96	433.86	433.42	433.27	
10	433.02	432.94	433.34	433.75	433.82	434.39	434.33	434.68	433.98	433.89	433.43	433.27	
11	433.02	432.95	433.37	433.71	433.71	434.47	434.28	435.56	433.95	434.05	433.43	433.27	
12	433.02	432.97	433.33	433.75	433.65	434.53	434.51	435.73	433.93	434.15	433.43	433.26	
13	433.02	432.97	433.27	433.71	433.59	434.86	435.15	434.98	433.93	434.13	433.43	433.23	
14	433.02	432.97	433.25	433.73	433.62	435.08	434.87	434.73	433.93	434.04	433.43	433.22	
15	433.02	432.97	433.22	433.75	433.64	435.16	434.54	434.62	433.91	434.01	433.42	433.21	
16	433.02	432.97	433.21	433.72	433.74	435.10	434.35	434.43	433.91	433.97	433.42	433.21	
17	433.02	433.04	433.19	433.75	433.81	435.01	434.30	434.42	433.91	433.70	433.41	433.21	
18	433.02	433.27	433.11	433.60	433.75	435.33	434.25	434.42	433.91	433.69	433.41	433.22	
19	433.02	433.38	433.13	433.49	433.73	435.50	434.16	434.38	433.91	433.66	433.41	433.22	
20	433.02	433.63	433.14	433.59	434.15	435.21	434.09	434.35	433.91	433.63	433.41	433.21	
21	433.02	433.54	433.30	433.86	434.83	435.32	434.11	434.28	433.93	433.61	433.41	433.20	
22	433.02	433.32	433.64	433.95	434.58	435.17	434.11	434.24	433.91	433.59	433.39	433.19	
23	433.02	433.26	433.69	433.95	434.53	434.86	434.07	434.19	433.91	433.57	433.39	433.19	
24	433.02	433.23	433.41	433.99	434.88	434.56	434.09	434.19	433.91	433.55	433.37	433.18	
25	433.02	433.24	433.49	433.90	434.98	434.55	434.24	434.17	433.87	433.53	433.37	433.17	
26	433.02	433.26	433.69	433.77	434.73	434.50	434.68	434.17	433.85	433.49	433.36	433.17	
27	433.02	433.23	433.54	433.69	434.57	434.42	434.92	434.20	433.86	433.48	433.34	433.17	
28	433.02	433.28	433.54	433.67	434.54	434.35	434.57	434.26	433.87	433.48	433.32	433.17	
29	433.02	433.36	433.38	433.70	434.65	434.33	434.35	434.21	433.87	433.48		433.16	
30	433.02	433.66	433.39	433.82	434.78	434.34	434.54	434.18	433.87	433.48		433.15	
31		434.00		434.04	434.56		434.68		433.87	433.48		433.15	
Mean	433.02	433.16	433.49	433.71	434.16	434.63	434.44	434.43	433.95	433.77	433.42	433.25	
Max	433.04	434.00	434.01	434.04	434.98	435.50	435.15	435.73	434.14	434.15	433.49	433.42	435.73
Min	433.02	432.94	433.11	433.42	433.59	433.85	434.07	434.13	433.85	433.48	433.32	433.15	432.94

Annual Max Momentary Gage Height 436.02 m. (MSL.) , at 06.00 Hours , on Nov 12 , 2016

Zero Gage at Bottom Elevation 433.47 m. (MSL.) , River Bed 432.45 m. (MSL.)

Left Bank Elevation 438.91 m. (MSL.) ,

Right Bank Elevation 438.92 m. (MSL.) , Drainage Are 2614 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.78	24.87	7.24	39.65	54.73	38.38	46.67	29.75	19.68	8.78	5.66	
2	1.30	0.54	16.42	8.56	33.70	60.50	37.52	39.65	29.00	21.35	8.78	7.02	
3	1.20	0.54	20.67	8.78	21.35	24.50	37.52	37.52	28.62	21.35	8.78	7.24	
4	1.10	0.54	19.02	8.78	18.03	19.35	48.57	34.12	26.75	21.35	8.56	7.24	
5	1.10	0.54	21.00	9.00	18.69	19.68	54.20	32.85	26.37	21.70	8.34	7.24	
6	1.10	0.54	17.38	8.78	22.75	25.62	53.15	30.87	25.62	22.05	8.34	7.24	
7	1.10	0.54	16.74	10.75	25.25	27.12	42.88	29.37	24.87	21.70	8.12	7.02	
8	1.10	0.54	14.50	17.70	22.05	34.12	47.15	31.62	23.80	21.35	7.90	5.85	
9	1.10	0.54	8.12	17.38	21.35	37.52	40.50	39.65	23.10	19.68	7.24	4.36	
10	1.10	0.54	5.66	16.10	18.36	40.08	37.52	54.20	23.80	20.67	7.46	4.36	
11	1.10	0.60	6.23	14.82	14.82	43.83	35.40	110.50	22.75	26.37	7.46	4.36	
12	1.10	0.72	5.47	16.10	13.00	46.67	45.72	123.71	22.05	30.12	7.46	4.18	
13	1.10	0.72	4.36	14.82	11.25	63.95	81.60	70.85	22.05	29.37	7.46	3.64	
14	1.10	0.72	4.00	15.46	12.10	77.12	64.53	56.83	22.05	26.00	7.46	3.46	
15	1.10	0.72	3.46	16.10	12.70	82.24	47.15	51.05	21.35	24.87	7.24	3.28	
16	1.10	0.72	3.28	15.14	15.78	78.40	38.38	41.93	21.35	23.45	7.24	3.28	
17	1.10	1.30	2.98	16.10	18.03	72.64	36.25	41.45	21.35	14.50	7.02	3.28	
18	1.10	4.36	2.02	11.50	16.10	93.70	34.12	41.45	21.35	14.20	7.02	3.46	
19	1.10	6.42	2.26	8.78	15.46	106.00	30.50	39.65	21.35	13.30	7.02	3.46	
20	1.10	12.40	2.38	11.25	30.12	85.48	27.87	38.38	21.35	12.40	7.02	3.28	
21	1.10	10.00	4.90	19.68	62.23	93.02	28.62	35.40	22.05	11.80	7.02	3.10	
22	1.10	5.28	12.70	22.75	49.05	82.88	28.62	33.70	21.35	11.25	6.61	2.98	
23	1.10	4.18	14.20	22.75	46.67	63.95	27.12	31.62	21.35	10.75	6.61	2.98	
24	1.10	3.64	7.02	24.15	65.10	48.10	27.87	31.62	21.35	10.25	6.23	2.86	
25	1.10	3.82	8.78	21.00	70.85	47.62	33.70	30.87	20.01	9.75	6.23	2.74	
26	1.10	4.18	14.20	16.74	56.83	45.25	54.20	30.87	19.35	8.78	6.04	2.74	
27	1.10	3.64	10.00	14.20	48.57	41.45	67.40	32.00	19.68	8.56	5.66	2.74	
28	1.10	4.54	10.00	13.60	47.15	38.38	48.57	34.55	20.01	8.56	5.28	2.74	
29	1.10	6.04	6.42	14.50	52.62	37.52	38.38	32.42	20.01	8.56		2.62	
30	1.10	13.30	6.61	18.36	59.45	37.95	47.15	31.25	20.01	8.56		2.50	
31		24.50		26.00	48.10		54.20		20.01	8.56		2.50	
Total	33.50	117.44	295.65	466.87	1007.16	1629.37	1334.74	1316.62	703.86	530.84	204.38	129.41	7769.84	CMSDAY
Mean	1.12	3.79	9.86	15.06	32.49	54.31	43.06	43.89	22.71	17.12	7.30	4.17	21.29	CMS
Max	1.30	24.50	24.87	26.00	70.85	106.00	81.60	123.71	29.75	30.12	8.78	7.24	123.71	CMS
Min	1.10	0.54	2.02	7.24	11.25	19.35	27.12	29.37	19.35	8.56	5.28	2.50	0.54	CMS
Runoff	2.89	10.15	25.54	40.34	87.02	140.78	115.32	113.76	60.81	45.86	17.66	11.18	671.31	MCM

Momentary Peak 147.26 CMS. at 436.02 m. (MSL.) at 06.00 Hours , on Nov 12 , 2016

Runoff Yield 8.14 Liters/Second/Square KM. Momentary Peak Yield 56.340 Liters/Second/Square KM.

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

Location : on left bank at Ban Salee.

	Ban Don Salee	**Amphoe** Mae Suai	**Changwat** Chiang Rai
Drainge Area	1,918 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+462.835 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	**Elevation**	+468.695 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

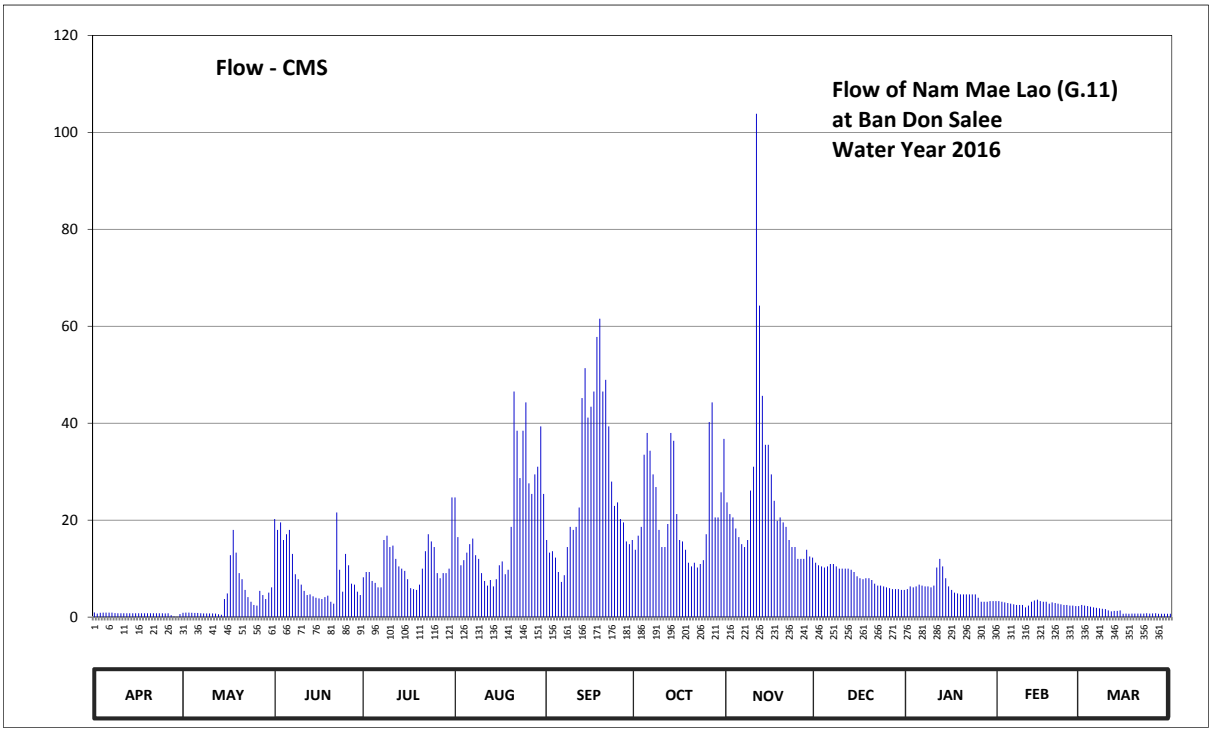
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	463.17	463.15	463.73	463.29	463.86	463.59	463.52	463.83	463.42	463.16	463.00	462.94	
2	463.07	463.16	463.66	463.34	463.61	463.50	463.62	463.76	463.40	463.19	462.99	462.93	
3	463.14	463.16	463.71	463.34	463.40	463.51	463.68	463.74	463.39	463.18	462.98	462.92	
4	463.16	463.15	463.59	463.25	463.44	463.46	464.09	463.67	463.38	463.19	462.97	462.91	
5	463.16	463.12	463.63	463.23	463.50	463.34	464.20	463.61	463.39	463.21	462.96	462.90	
6	463.16	463.12	463.66	463.18	463.56	463.24	464.11	463.56	463.41	463.20	462.95	462.89	
7	463.16	463.10	463.49	463.18	463.60	463.31	463.99	463.54	463.41	463.19	462.94	462.88	
8	463.11	463.08	463.32	463.59	463.48	463.54	463.92	463.59	463.39	463.19	462.94	462.87	
9	463.09	463.08	463.27	463.62	463.45	463.68	463.66	463.90	463.37	463.18	462.94	462.86	
10	463.09	463.08	463.21	463.54	463.33	463.66	463.54	464.03	463.37	463.20	462.90	462.83	
11	463.09	463.08	463.14	463.55	463.25	463.68	463.54	465.39	463.37	463.38	462.93	462.81	
12	463.09	463.06	463.09	463.45	463.20	463.80	463.70	464.74	463.37	463.45	462.99	462.82	
13	463.09	462.99	463.10	463.39	463.26	464.36	464.20	464.37	463.36	463.39	463.01	462.82	
14	463.09	462.95	463.07	463.37	463.19	464.49	464.16	464.14	463.34	463.28	463.02	462.83	
15	463.09	463.03	463.05	463.35	463.27	464.27	463.76	464.14	463.30	463.19	463.00	463.05	
16	463.09	463.11	463.04	463.27	463.40	464.32	463.59	463.99	463.28	463.15	462.99	463.06	
17	463.09	463.48	463.03	463.17	463.43	464.39	463.58	463.84	463.27	463.12	462.99	463.05	
18	463.09	463.66	463.06	463.16	463.32	464.62	463.52	463.72	463.28	463.11	462.96	463.06	
19	463.09	463.50	463.08	463.15	463.36	464.69	463.42	463.74	463.28	463.10	462.98	463.06	
20	463.09	463.33	462.99	463.21	463.68	464.39	463.39	463.71	463.26	463.10	462.97	463.06	
21	463.09	463.27	462.96	463.37	464.39	464.44	463.42	463.68	463.22	463.10	462.96	463.06	
22	463.09	463.15	463.77	463.51	464.21	464.23	463.38	463.59	463.20	463.10	462.95	463.06	
23	463.09	463.06	463.36	463.63	463.97	463.95	463.41	463.54	463.20	463.10	462.94	463.09	
24	463.09	462.99	463.13	463.58	464.21	463.81	463.44	463.54	463.19	463.10	462.94	463.06	
25	463.08	462.94	463.49	463.54	464.34	463.83	463.63	463.45	463.18	463.05	462.93	463.08	
26	463.09	462.93	463.40	463.33	463.94	463.73	464.25	463.45	463.17	462.99	462.93	463.09	
27	462.89	463.14	463.22	463.28	463.88	463.71	464.34	463.45	463.16	462.99	462.92	463.05	
28	462.73	463.09	463.21	463.33	463.99	463.58	463.74	463.52	463.16	462.99	462.92	463.04	
29	462.66	463.03	463.13	463.33	464.03	463.56	463.74	463.47	463.16	463.00		463.05	
30	463.01	463.12	463.09	463.37	464.23	463.59	463.89	463.46	463.15	463.00		463.05	
31		463.18		463.86	463.88		464.17		463.15	463.00		463.05	
Mean	463.07	463.14	463.29	463.38	463.67	463.88	463.76	463.81	463.29	463.15	462.96	462.98	
Max	463.17	463.66	463.77	463.86	464.39	464.69	464.34	465.39	463.42	463.45	463.02	463.09	465.39
Min	462.66	462.93	462.96	463.15	463.19	463.24	463.38	463.45	463.15	462.99	462.90	462.81	462.66

Annual Max Momentary Gage Height 465.47 m. (MSL.) , at 11.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 462.84 m. (MSL.) , River Bed 462.38 m. (MSL.)

Left Bank Elevation 468.84 m. (MSL.) ,

Right Bank Elevation 468.90 m. (MSL.) , Drainage Are 1918 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	0.90	20.22	8.21	24.70	15.91	13.88	23.65	11.22	5.78	3.30	2.52	
2	0.74	0.92	18.00	9.32	16.50	13.30	16.80	21.24	10.70	6.32	3.17	2.39	
3	0.88	0.92	19.54	9.32	10.70	13.59	18.60	20.56	10.47	6.14	3.04	2.26	
4	0.92	0.90	15.91	7.45	11.74	12.26	33.49	18.30	10.24	6.32	2.91	2.13	
5	0.92	0.84	17.10	7.07	13.30	9.32	38.00	16.50	10.47	6.69	2.78	2.00	
6	0.92	0.84	18.00	6.14	15.04	7.26	34.31	15.04	10.96	6.50	2.65	1.91	
7	0.92	0.80	13.04	6.14	16.20	8.63	29.43	14.46	10.96	6.32	2.52	1.82	
8	0.82	0.76	8.86	15.91	12.78	14.46	26.84	15.91	10.47	6.32	2.52	1.73	
9	0.78	0.76	7.83	16.80	12.00	18.60	18.00	26.10	10.01	6.14	2.52	1.64	
10	0.78	0.76	6.69	14.46	9.09	18.00	14.46	31.03	10.01	6.50	2.00	1.37	
11	0.78	0.76	5.42	14.75	7.45	18.60	14.46	103.85	10.01	10.24	2.39	1.19	
12	0.78	0.72	4.56	12.00	6.50	22.60	19.20	64.26	10.01	12.00	3.17	1.28	
13	0.78	0.58	4.70	10.47	7.64	45.20	38.00	45.65	9.78	10.47	3.44	1.28	
14	0.78	0.50	4.28	10.01	6.32	51.37	36.36	35.54	9.32	8.02	3.58	1.37	
15	0.78	3.72	4.00	9.55	7.83	41.15	21.24	35.54	8.40	6.32	3.30	0.70	
16	0.78	4.88	3.86	7.83	10.70	43.40	15.91	29.43	8.02	5.60	3.17	0.72	
17	0.78	12.78	3.72	5.96	11.48	46.55	15.62	24.00	7.83	5.06	3.17	0.70	
18	0.78	18.00	4.14	5.78	8.86	57.78	13.88	19.88	8.02	4.88	2.78	0.72	
19	0.78	13.30	4.42	5.60	9.78	61.56	11.22	20.56	8.02	4.70	3.04	0.72	
20	0.78	9.09	3.17	6.69	18.60	46.55	10.47	19.54	7.64	4.70	2.91	0.72	
21	0.78	7.83	2.78	10.01	46.55	48.94	11.22	18.60	6.88	4.70	2.78	0.72	
22	0.78	5.60	21.58	13.59	38.45	39.35	10.24	15.91	6.50	4.70	2.65	0.72	
23	0.78	4.14	9.78	17.10	28.69	27.95	10.96	14.46	6.50	4.70	2.52	0.78	
24	0.78	3.17	5.24	15.62	38.45	22.95	11.74	14.46	6.32	4.70	2.52	0.72	
25	0.76	2.52	13.04	14.46	44.30	23.65	17.10	12.00	6.14	4.00	2.39	0.76	
26	0.78	2.39	10.70	9.09	27.58	20.22	40.25	12.00	5.96	3.17	2.39	0.78	
27	0.38	5.42	6.88	8.02	25.40	19.54	44.30	12.00	5.78	3.17	2.26	0.70	
28	0.13	4.56	6.69	9.09	29.43	15.62	20.56	13.88	5.78	3.17	2.26	0.68	
29	0.06	3.72	5.24	9.09	31.03	15.04	20.56	12.52	5.78	3.30		0.70	
30	0.62	5.06	4.56	10.01	39.35	15.91	25.75	12.26	5.60	3.30		0.70	
31		6.14		24.70	25.40		36.77		5.60	3.30		0.70	
Total	22.27	123.28	273.95	330.24	611.84	815.26	689.62	739.13	259.40	177.23	78.13	37.13	4157.48	CMSDAY
Mean	0.74	3.98	9.13	10.65	19.74	27.18	22.25	24.64	8.37	5.72	2.79	1.20	11.39	CMS
Max	0.94	18.00	21.58	24.70	46.55	61.56	44.30	103.85	11.22	12.00	3.58	2.52	103.85	CMS
Min	0.06	0.50	2.78	5.60	6.32	7.26	10.24	12.00	5.60	3.17	2.00	0.68	0.06	CMS
Runoff	1.92	10.65	23.67	28.53	52.86	70.44	59.58	63.86	22.41	15.31	6.75	3.21	359.21	MCM

Momentary Peak 109.40 CMS. at 465.47 m. (MSL.) at 11.00 Hours , on Nov 11 , 2016

Runoff Yield 5.94 Liters/Second/Square KM. Momentary Peak Yield 57.040 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban Non Puai	**Amphoe** Ban Khwao	**Changwat** Chaiyaphum
Drainge Area	4,207 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+186.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of the station office.		**Elevation** +199.956 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1958 to date		
Rating Operation			
Period of Rating	1967 - 1971 , 1973, 1979, 1982 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1971 , 1973, 1979, 1982 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

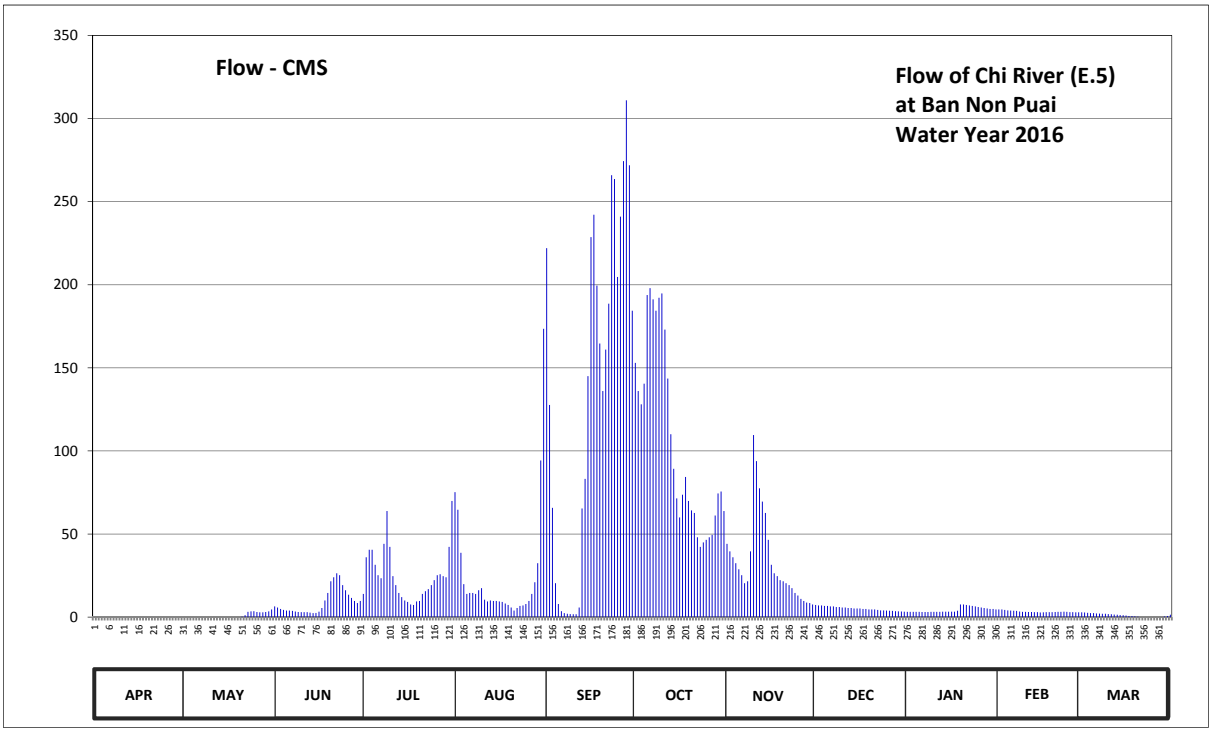
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	187.79	187.90	190.38	190.58	191.50	194.66	193.34	190.99	190.41	190.22	190.32	190.18	
2	187.79	187.89	190.36	190.90	191.22	192.81	193.00	190.94	190.40	190.22	190.32	190.16	
3	187.79	187.96	190.33	190.95	190.93	191.25	192.82	190.90	190.40	190.22	190.31	190.13	
4	187.79	188.03	190.31	190.95	190.68	190.69	193.09	190.86	190.39	190.22	190.30	190.10	
5	187.79	188.13	190.29	190.85	190.58	190.43	194.13	190.82	190.39	190.22	190.29	190.09	
6	187.79	188.15	190.29	190.77	190.59	190.26	194.21	190.77	190.38	190.21	190.28	190.05	
7	187.79	188.11	190.27	190.74	190.59	190.10	194.08	190.69	190.38	190.21	190.27	190.02	
8	187.79	188.08	190.24	190.99	190.58	190.00	193.95	190.71	190.37	190.21	190.24	189.99	
9	187.79	188.06	190.21	191.20	190.62	189.94	194.10	190.94	190.37	190.22	190.22	189.98	
10	187.80	188.09	190.19	190.97	190.64	189.89	194.15	192.39	190.36	190.22	190.22	189.94	
11	187.80	188.11	190.19	190.76	190.51	189.90	193.73	191.99	190.36	190.22	190.21	189.89	
12	187.81	188.12	190.19	190.67	190.48	190.36	193.15	191.56	190.35	190.22	190.21	189.85	
13	187.81	188.13	190.15	190.59	190.50	191.24	192.40	191.35	190.35	190.23	190.20	189.81	
14	187.82	188.16	190.10	190.54	190.49	191.71	191.87	191.17	190.34	190.23	190.19	189.77	
15	187.82	188.17	190.12	190.50	190.49	193.18	191.40	191.01	190.34	190.23	190.17	189.73	
16	187.83	188.17	190.23	190.47	190.48	194.78	191.10	190.85	190.34	190.23	190.18	189.67	
17	187.83	188.18	190.35	190.42	190.47	195.02	191.46	190.79	190.33	190.23	190.19	189.60	
18	187.84	188.18	190.50	190.41	190.44	194.24	191.74	190.76	190.33	190.28	190.19	189.59	
19	187.84	188.34	190.59	190.48	190.41	193.57	191.36	190.72	190.32	190.42	190.20	189.55	
20	187.85	188.88	190.71	190.49	190.36	193.00	191.21	190.71	190.32	190.42	190.21	189.48	
21	187.86	189.47	190.75	190.58	190.29	193.50	191.17	190.69	190.32	190.41	190.22	189.38	
22	187.88	189.74	190.79	190.61	190.35	194.03	191.02	190.67	190.31	190.40	190.22	189.36	
23	187.88	190.22	190.77	190.63	190.39	195.43	190.97	190.64	190.30	190.39	190.23	189.37	
24	187.89	190.25	190.67	190.67	190.40	195.39	191.00	190.59	190.30	190.38	190.22	189.37	
25	187.90	190.26	190.62	190.72	190.43	194.34	191.01	190.56	190.29	190.37	190.20	189.38	
26	187.90	190.21	190.57	190.77	190.49	195.00	191.02	190.52	190.28	190.36	190.19	189.38	
27	187.91	190.18	190.53	190.78	190.58	195.57	191.03	190.49	190.27	190.35	190.18	189.39	
28	187.91	190.18	190.49	190.76	190.70	196.16	191.13	190.46	190.26	190.34	190.18	189.40	
29	187.91	190.21	190.45	190.75	190.86	195.53	191.48	190.45	190.25	190.33		189.50	
30	187.91	190.25	190.49	190.97	192.00	193.95	191.51	190.42	190.24	190.33		189.59	
31		190.32		191.36	193.74		191.20		190.23	190.32		189.82	
Mean	187.84	188.84	190.40	190.74	190.74	192.86	192.22	190.88	190.33	190.29	190.23	189.73	
Max	187.91	190.32	190.79	191.36	193.74	196.16	194.21	192.39	190.41	190.42	190.32	190.18	196.16
Min	187.79	187.89	190.10	190.41	190.29	189.89	190.97	190.42	190.23	190.21	190.17	189.36	187.79

Annual Max Momentary Gage Height 196.26 m. (MSL.) , at 12.00 Hours, on Sep 28, 2016

Zero Gage at Bottom Elevation 186.10 m. (MSL.) , River Bed 185.45 m. (MSL.)

Left Bank Elevation 197.21 m. (MSL.) ,

Right Bank Elevation 197.79 m. (MSL.) , Drainage Are 4207 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.40	14.00	75.20	221.96	153.00	44.10	7.30	3.20	4.60	2.88	
2	0.00	0.00	5.80	36.00	64.56	127.64	136.00	39.60	7.00	3.20	4.60	2.76	
3	0.00	0.00	4.90	40.50	38.70	65.70	128.08	36.00	7.00	3.20	4.30	2.58	
4	0.00	0.00	4.30	40.50	19.80	20.40	140.50	32.40	6.70	3.20	4.00	2.40	
5	0.00	0.00	3.90	31.50	14.00	7.90	193.76	28.80	6.70	3.20	3.90	2.37	
6	0.00	0.00	3.90	25.20	14.50	3.60	197.92	25.20	6.40	3.10	3.80	2.23	
7	0.00	0.00	3.70	23.40	14.50	2.40	191.16	20.40	6.40	3.10	3.70	2.13	
8	0.00	0.00	3.40	44.10	14.00	2.06	184.40	21.60	6.10	3.10	3.40	2.02	
9	0.00	0.00	3.10	63.80	16.20	1.85	192.20	39.60	6.10	3.20	3.20	1.99	
10	0.00	0.00	2.94	42.30	17.40	1.68	194.80	109.60	5.80	3.20	3.20	1.85	
11	0.00	0.00	2.94	24.60	10.50	1.71	172.96	93.82	5.80	3.20	3.10	1.68	
12	0.00	0.00	2.94	19.20	9.40	5.80	143.50	77.48	5.50	3.20	3.10	1.54	
13	0.00	0.00	2.70	14.50	10.00	65.32	110.00	69.50	5.50	3.30	3.00	1.41	
14	0.00	0.00	2.40	12.00	9.70	83.18	89.26	62.66	5.20	3.30	2.94	1.27	
15	0.00	0.00	2.52	10.00	9.70	145.00	71.40	46.50	5.20	3.30	2.82	1.13	
16	0.00	0.00	3.30	9.10	9.40	228.68	60.00	31.50	5.20	3.30	2.88	0.93	
17	0.00	0.00	5.50	7.60	9.10	242.16	73.68	26.40	4.90	3.30	2.94	0.69	
18	0.00	0.00	10.00	7.30	8.20	199.48	84.32	24.60	4.90	3.80	2.94	0.65	
19	0.00	0.00	14.50	9.40	7.30	164.64	69.88	22.20	4.60	7.60	3.00	0.51	
20	0.00	0.00	21.60	9.70	5.80	136.00	64.18	21.60	4.60	7.60	3.10	0.27	
21	0.00	0.24	24.00	14.00	3.90	161.00	62.66	20.40	4.60	7.30	3.20	0.00	
22	0.00	1.17	26.40	15.60	5.50	188.56	48.00	19.20	4.30	7.00	3.20	0.00	
23	0.00	3.20	25.20	16.80	6.70	265.94	42.30	17.40	4.00	6.70	3.30	0.00	
24	0.00	3.50	19.20	19.20	7.00	263.62	45.00	14.50	4.00	6.40	3.20	0.00	
25	0.00	3.60	16.20	22.20	7.90	204.68	46.50	13.00	3.90	6.10	3.00	0.00	
26	0.00	3.10	13.50	25.20	9.70	241.00	48.00	11.00	3.80	5.80	2.94	0.00	
27	0.00	2.88	11.50	25.80	14.00	274.34	49.50	9.70	3.70	5.50	2.88	0.00	
28	0.00	2.88	9.70	24.60	21.00	310.92	61.14	8.80	3.60	5.20	2.88	0.00	
29	0.00	3.10	8.50	24.00	32.40	271.86	74.44	8.50	3.50	4.90		0.34	
30	0.00	3.50	9.70	42.30	94.20	184.40	75.58	7.60	3.40	4.90		0.65	
31		4.60		69.88	173.48		63.80		3.30	4.60		1.44	
Total	0.00	31.77	274.64	784.28	753.74	4093.48	3267.92	1003.66	159.00	138.00	93.12	35.72	10635.33 CMSDAY
Mean	0.00	1.02	9.15	25.30	24.31	136.45	105.42	33.46	5.13	4.45	3.33	1.15	29.14 CMS
Max	0.00	4.60	26.40	69.88	173.48	310.92	197.92	109.60	7.30	7.60	4.60	2.88	310.92 CMS
Min	0.00	0.00	2.40	7.30	3.90	1.68	42.30	7.60	3.30	3.10	2.82	0.00	0.00 CMS
Runoff	0.00	2.74	23.73	67.76	65.12	353.68	282.35	86.72	13.74	11.92	8.05	3.09	918.89 MCM

Momentary Peak 317.12 CMS, at 196.26 m. (MSL.), at 12.00 Hours, on Sep 28, 2016

Runoff Yield 6.93 Liters/Second/Square KM. Momentary Peak Yield 75.380 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban Tat Ton	**Amphoe** Mueang	**Changwat** Chaiyaphum
Drainge Area	378 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+192.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 2 meters from the sling pole.		**Elevation** +198.412 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Lam Pa Thao Dam situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

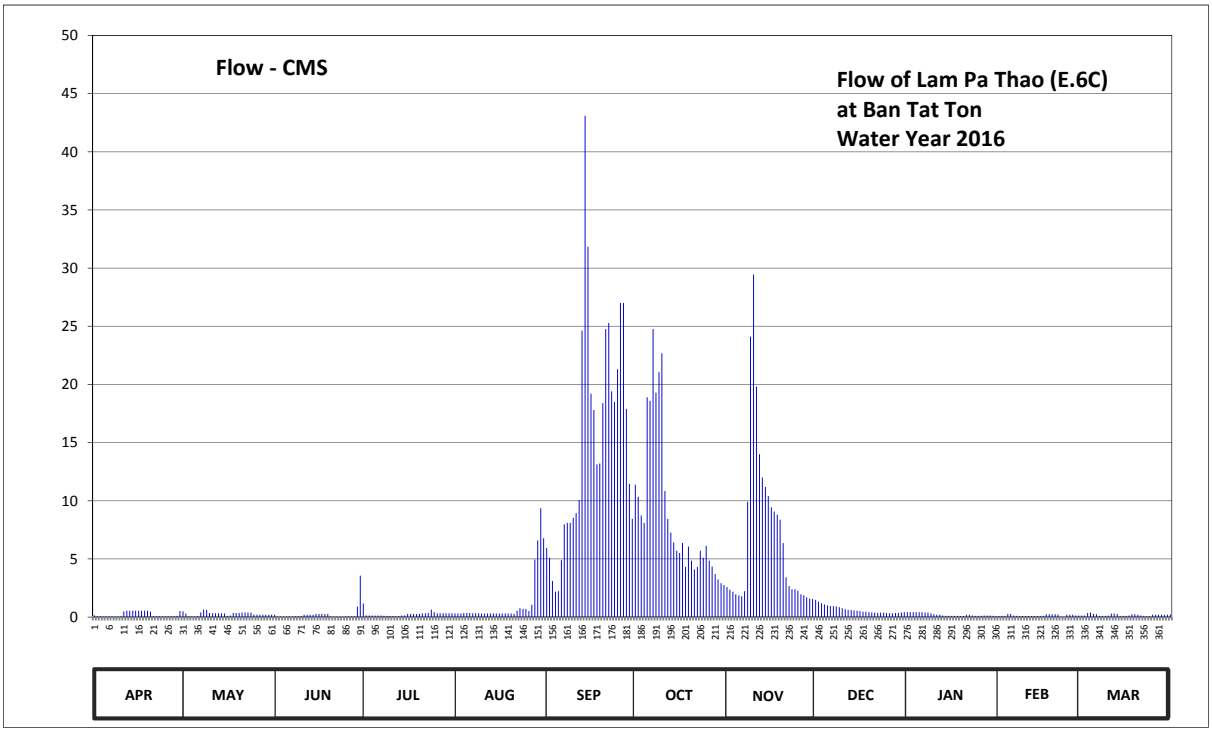
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.91	193.12	192.94	193.38	193.02	194.44	195.27	193.76	193.48	193.08	192.87	192.89	
2	192.85	193.01	192.83	192.91	193.02	194.30	195.12	193.70	193.43	193.08	192.88	192.89	
3	192.85	192.85	192.83	192.90	193.02	193.89	194.89	193.66	193.39	193.08	192.88	193.05	
4	192.83	192.84	192.83	192.89	193.04	193.66	194.80	193.60	193.35	193.08	192.99	193.06	
5	192.83	192.84	192.83	192.89	193.04	193.67	196.13	193.58	193.32	193.08	193.00	193.00	
6	192.83	192.86	192.83	192.89	193.04	194.26	196.10	193.56	193.30	193.08	192.89	192.97	
7	192.83	193.07	192.83	192.89	193.03	194.78	196.62	193.67	193.30	193.07	192.88	192.88	
8	192.83	193.18	192.85	192.88	193.03	194.80	196.17	195.06	193.29	193.07	192.87	192.88	
9	192.83	193.17	192.85	192.88	193.03	194.80	196.33	196.57	193.26	193.03	192.87	192.88	
10	192.85	193.04	192.86	192.87	193.01	194.86	196.46	196.94	193.22	192.97	192.87	192.89	
11	193.12	193.03	192.95	192.87	193.01	194.92	195.19	196.22	193.19	192.95	192.87	193.01	
12	193.14	193.03	192.95	192.86	193.02	195.08	194.85	195.60	193.17	192.95	192.87	193.01	
13	193.14	193.03	192.95	192.86	193.02	196.61	194.66	195.35	193.16	192.90	192.87	193.00	
14	193.14	193.03	192.95	192.89	193.02	197.77	194.52	195.24	193.15	192.88	192.87	192.88	
15	193.14	193.02	193.00	192.91	193.02	197.09	194.40	195.13	193.14	192.88	192.87	192.88	
16	193.14	192.88	193.00	193.00	193.02	196.16	194.37	194.99	193.13	192.88	192.88	192.88	
17	193.14	192.89	193.00	193.00	193.02	196.02	194.51	194.94	193.11	192.88	192.97	192.89	
18	193.14	193.04	193.00	193.00	193.02	195.49	194.14	194.90	193.10	192.88	192.97	192.98	
19	193.14	193.05	192.99	193.00	193.02	195.50	194.46	194.84	193.09	192.87	192.97	192.98	
20	193.11	193.05	192.83	193.00	193.02	196.08	194.25	194.51	193.07	192.87	192.97	192.95	
21	192.86	193.07	192.82	193.03	193.00	196.62	194.10	193.96	193.06	192.94	192.96	192.90	
22	192.85	193.07	192.82	193.03	193.14	196.66	194.14	193.78	193.05	192.95	192.81	192.88	
23	192.85	193.07	192.82	193.04	193.23	196.18	194.40	193.71	193.06	192.90	192.81	192.85	
24	192.85	193.06	192.82	193.18	193.20	196.09	194.30	193.71	193.06	192.88	192.95	192.86	
25	192.85	192.96	192.84	193.08	193.20	196.35	194.47	193.68	193.04	192.88	192.95	192.94	
26	192.85	192.95	192.84	193.03	193.13	196.78	194.25	193.60	193.03	192.88	192.94	192.94	
27	192.85	192.95	192.84	193.03	193.34	196.78	194.15	193.58	193.03	192.90	192.89	192.94	
28	192.86	192.95	192.84	193.03	194.27	196.03	194.02	193.54	193.04	192.90	192.89	192.94	
29	192.88	192.95	193.28	193.03	194.55	195.28	193.92	193.51	193.05	192.89		192.94	
30	193.13	192.95	193.99	193.03	194.98	194.85	193.84	193.50	193.07	192.88		192.94	
31		192.95		193.03	194.58		193.80		193.08	192.87		192.96	
Mean	192.95	193.00	192.93	192.98	193.26	195.53	194.79	194.41	193.17	192.95	192.90	192.93	
Max	193.14	193.18	193.99	193.38	194.98	197.77	196.62	196.94	193.48	193.08	193.00	193.06	197.77
Min	192.83	192.84	192.82	192.86	193.00	193.66	193.80	193.50	193.03	192.87	192.81	192.85	192.81

Annual Max Momentary Gage Height 197.87 m. (MSL.) , at 11.00 Hours, on Sep 14, 2016

Zero Gage at Bottom Elevation 192.70 m. (MSL.) , River Bed 191.81 m. (MSL.)

Left Bank Elevation 198.51 m. (MSL.) ,

Right Bank Elevation 198.56 m. (MSL.) , Drainage Are 378 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.50	0.20	1.17	0.31	5.94	11.39	2.59	1.48	0.42	0.10	0.13		
2	0.07	0.30	0.04	0.15	0.31	5.10	10.34	2.35	1.32	0.42	0.11	0.13		
3	0.07	0.07	0.04	0.14	0.31	3.11	8.73	2.19	1.19	0.42	0.11	0.36		
4	0.04	0.06	0.04	0.13	0.35	2.19	8.10	1.95	1.09	0.42	0.27	0.38		
5	0.04	0.06	0.04	0.13	0.35	2.23	18.90	1.87	1.00	0.42	0.28	0.28		
6	0.04	0.08	0.04	0.13	0.35	4.90	18.60	1.79	0.95	0.42	0.13	0.24		
7	0.04	0.40	0.04	0.13	0.33	7.98	24.76	2.23	0.95	0.40	0.11	0.11		
8	0.04	0.65	0.07	0.11	0.33	8.10	19.30	9.92	0.92	0.40	0.10	0.11		
9	0.04	0.62	0.07	0.11	0.33	8.10	21.06	24.11	0.85	0.33	0.10	0.11		
10	0.07	0.35	0.08	0.10	0.30	8.52	22.68	29.44	0.75	0.24	0.10	0.13		
11	0.50	0.33	0.21	0.10	0.30	8.94	10.83	19.82	0.67	0.21	0.10	0.30		
12	0.55	0.33	0.21	0.08	0.31	10.06	8.45	14.00	0.62	0.21	0.10	0.30		
13	0.55	0.33	0.21	0.08	0.31	24.63	7.26	12.00	0.60	0.14	0.10	0.28		
14	0.55	0.33	0.21	0.13	0.31	43.09	6.42	11.18	0.57	0.11	0.10	0.11		
15	0.55	0.31	0.28	0.15	0.31	31.84	5.70	10.41	0.55	0.11	0.10	0.11		
16	0.55	0.11	0.28	0.28	0.31	19.20	5.52	9.43	0.52	0.11	0.11	0.11		
17	0.55	0.13	0.28	0.28	0.31	17.80	6.36	9.08	0.47	0.11	0.24	0.13		
18	0.55	0.35	0.28	0.28	0.31	13.12	4.30	8.80	0.45	0.11	0.24	0.25		
19	0.55	0.36	0.27	0.28	0.31	13.20	6.06	8.38	0.43	0.10	0.24	0.25		
20	0.47	0.36	0.04	0.28	0.31	18.40	4.85	6.36	0.40	0.10	0.24	0.21		
21	0.08	0.40	0.03	0.33	0.28	24.76	4.10	3.42	0.38	0.20	0.22	0.14		
22	0.07	0.40	0.03	0.33	0.55	25.28	4.30	2.67	0.36	0.21	0.01	0.11		
23	0.07	0.40	0.03	0.35	0.77	19.40	5.70	2.39	0.38	0.14	0.01	0.07		
24	0.07	0.38	0.03	0.65	0.70	18.50	5.10	2.39	0.38	0.11	0.21	0.08		
25	0.07	0.22	0.06	0.42	0.70	21.30	6.12	2.27	0.35	0.11	0.21	0.20		
26	0.07	0.21	0.06	0.33	0.52	27.00	4.85	1.95	0.33	0.11	0.20	0.20		
27	0.07	0.21	0.06	0.33	1.06	27.00	4.35	1.87	0.33	0.14	0.13	0.20		
28	0.08	0.21	0.06	0.33	4.95	17.90	3.70	1.71	0.35	0.14	0.13	0.20		
29	0.11	0.21	0.90	0.33	6.60	11.46	3.24	1.59	0.36	0.13		0.20		
30	0.52	0.21	3.56	0.33	9.36	8.45	2.91	1.55	0.40	0.11		0.20		
31		0.21		0.33	6.78		2.75		0.42	0.10		0.22		
Total	7.18	9.09	7.75	8.30	38.63	457.50	276.73	209.71	19.82	6.70	4.10	5.85	1051.36	CMSDAY
Mean	0.24	0.29	0.26	0.27	1.25	15.25	8.93	6.99	0.64	0.22	0.15	0.19	2.88	CMS
Max	0.55	0.65	3.56	1.17	9.36	43.09	24.76	29.44	1.48	0.42	0.28	0.38	43.09	CMS
Min	0.04	0.06	0.03	0.08	0.28	2.19	2.75	1.55	0.33	0.10	0.01	0.07	0.01	CMS
Runoff	0.62	0.79	0.67	0.72	3.34	39.53	23.91	18.12	1.71	0.58	0.35	0.51	90.84	MCM

Momentary Peak 44.79 CMS, at 197.87 m. (MSL.), at 11.00 Hours, on Sep 14, 2016

Runoff Yield 7.62 Liters/Second/Square KM. Momentary Peak Yield 118.490 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

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

Drainge Area	10,878 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+151.100 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank about 25 meters from the top staff gage. **Elevation** +167.014 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1958 to date
Rating Operation	
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date
Rated by Flot	-
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

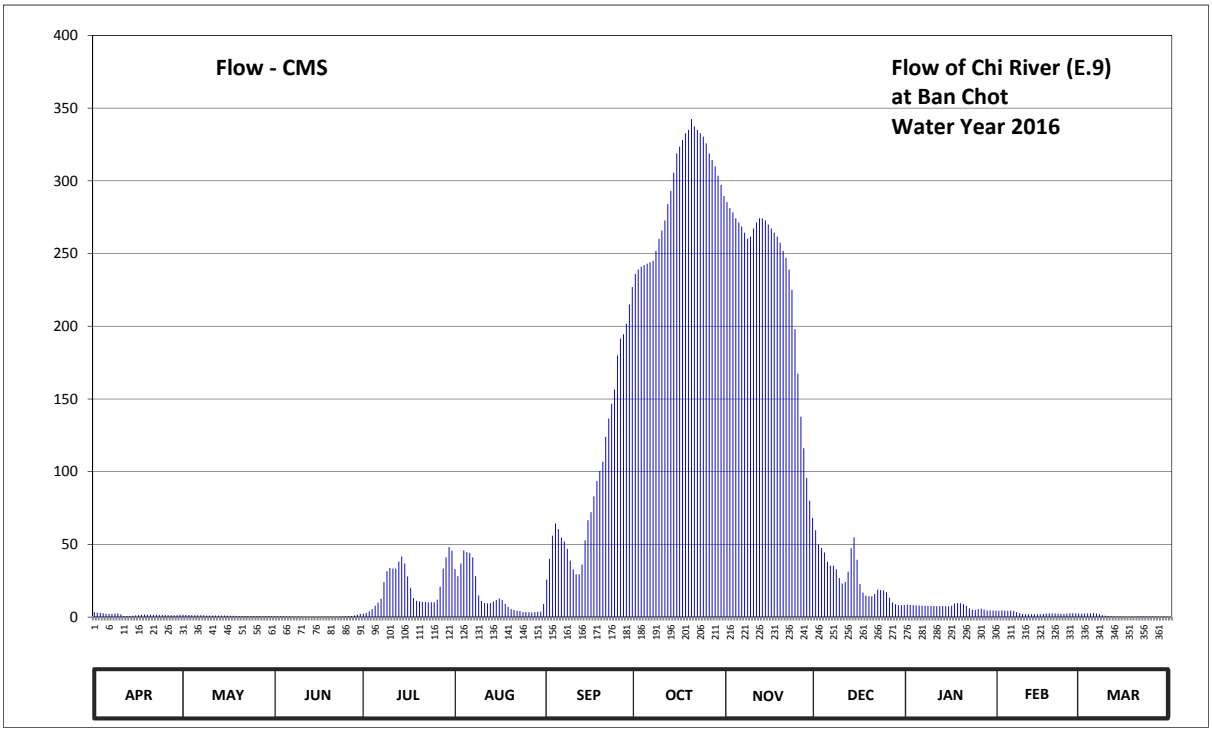
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.42	152.21	152.03	152.29	154.93	154.41	161.27	161.66	156.37	153.07	152.55	152.30	
2	152.39	152.19	152.01	152.35	154.58	155.34	161.30	161.63	155.89	153.04	152.57	152.30	
3	152.35	152.18	152.00	152.50	155.16	156.19	161.32	161.61	155.75	153.02	152.55	152.31	
4	152.33	152.17	151.99	152.68	155.66	156.59	161.33	161.58	155.58	153.00	152.55	152.32	
5	152.29	152.17	151.97	152.97	155.59	156.40	161.34	161.56	155.22	153.00	152.56	152.34	
6	152.28	152.17	151.96	153.20	155.57	156.13	161.35	161.54	155.08	152.98	152.52	152.31	
7	152.27	152.16	151.94	153.46	155.39	156.00	161.36	161.51	155.07	152.98	152.43	152.24	
8	152.30	152.16	151.92	154.30	154.58	155.72	161.42	161.48	154.92	152.96	152.34	152.17	
9	152.32	152.14	151.90	154.83	153.63	155.27	161.48	161.49	154.49	152.96	152.28	152.12	
10	152.24	152.14	151.88	154.98	153.31	154.91	161.52	161.53	154.22	152.95	152.24	152.07	
11	152.09	152.14	151.85	154.96	153.17	154.68	161.57	161.56	154.29	152.94	152.24	152.03	
12	152.07	152.13	151.83	154.95	153.14	154.68	161.65	161.58	154.80	152.94	152.24	151.98	
13	152.09	152.13	151.83	155.23	153.17	155.12	161.71	161.58	155.74	152.95	152.25	151.95	
14	152.12	152.13	151.85	155.43	153.27	156.04	161.77	161.57	156.14	152.93	152.25	151.93	
15	152.15	152.14	151.87	155.16	153.38	156.70	161.83	161.55	155.30	152.92	152.25	151.91	
16	152.18	152.12	151.89	154.57	153.48	156.96	161.85	161.53	154.20	152.97	152.28	151.90	
17	152.21	152.12	151.89	154.01	153.38	157.42	161.87	161.51	153.77	153.13	152.31	151.89	
18	152.23	152.11	151.89	153.51	153.11	157.86	161.89	161.49	153.63	153.17	152.31	151.91	
19	152.21	152.10	151.89	153.32	152.89	158.13	161.90	161.46	153.60	153.16	152.31	151.90	
20	152.20	152.09	151.88	153.28	152.69	158.37	161.93	161.42	153.59	153.09	152.32	151.94	
21	152.21	152.09	151.89	153.26	152.60	159.00	161.91	161.38	153.70	152.98	152.30	151.96	
22	152.20	152.08	151.91	153.24	152.55	159.38	161.90	161.30	153.93	152.76	152.29	151.96	
23	152.19	152.08	151.93	153.22	152.52	159.68	161.89	161.16	153.90	152.64	152.28	151.94	
24	152.18	152.09	151.99	153.22	152.43	159.96	161.88	160.84	153.88	152.61	152.30	151.93	
25	152.19	152.08	152.04	153.22	152.44	160.48	161.86	160.23	153.79	152.68	152.33	151.93	
26	152.18	152.06	152.06	153.40	152.42	160.71	161.83	159.42	153.52	152.73	152.33	151.93	
27	152.17	152.05	152.09	154.07	152.40	160.77	161.81	158.71	153.21	152.64	152.31	151.92	
28	152.16	152.03	152.14	154.95	152.43	160.91	161.79	157.94	153.08	152.58	152.31	151.91	
29	152.16	152.04	152.21	155.39	152.45	161.06	161.76	157.29	153.02	152.57		151.89	
30	152.19	152.06	152.27	155.79	152.47	161.18	161.73	156.77	153.01	152.56		151.90	
31		152.05		155.65	153.10		161.69		153.03	152.55		151.87	
Mean	152.22	152.12	151.96	153.98	153.48	157.54	161.67	160.86	154.38	152.89	152.35	152.03	
Max	152.42	152.21	152.27	155.79	155.66	161.18	161.93	161.66	156.37	153.17	152.57	152.34	161.93
Min	152.07	152.03	151.83	152.29	152.40	154.41	161.27	156.77	153.01	152.55	152.24	151.87	151.83

Annual Max Momentary Gage Height 161.94 m. (MSL.) , at 13.00 Hours, on Oct 20, 2016

Zero Gage at Bottom Elevation 151.10 m. (MSL.) , River Bed 148.74 m. (MSL.)

Left Bank Elevation 166.90 m. (MSL.) ,

Right Bank Elevation 166.59 m. (MSL.) , Drainage Are 10878 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.36	1.68	0.59	2.32	33.02	25.74	236.00	285.40	59.77	8.70	4.40	2.40	
2	3.12	1.52	0.53	2.80	28.12	40.12	239.00	281.20	50.02	8.40	4.56	2.40	
3	2.80	1.44	0.50	4.00	36.88	55.99	241.00	278.40	47.50	8.20	4.40	2.48	
4	2.64	1.36	0.47	5.44	45.88	64.39	242.00	274.20	44.44	8.00	4.40	2.56	
5	2.32	1.36	0.41	7.76	44.62	60.40	243.00	271.40	37.96	8.00	4.48	2.72	
6	2.24	1.36	0.38	10.00	44.26	54.73	244.00	268.60	35.44	7.84	4.16	2.48	
7	2.16	1.28	0.32	12.60	41.02	52.00	245.00	264.40	35.26	7.84	3.44	1.92	
8	2.40	1.28	0.26	24.20	28.12	46.96	251.80	260.20	32.88	7.68	2.72	1.36	
9	2.56	1.12	0.20	31.62	14.82	38.86	260.20	261.60	26.86	7.68	2.24	0.96	
10	1.92	1.12	0.16	33.72	11.10	32.74	265.80	267.20	23.08	7.60	1.92	0.71	
11	0.77	1.12	0.10	33.44	9.70	29.52	272.80	271.40	24.06	7.52	1.92	0.59	
12	0.71	1.04	0.06	33.30	9.40	29.52	284.00	274.20	31.20	7.52	1.92	0.44	
13	0.77	1.04	0.06	38.14	9.70	36.16	293.10	274.20	47.32	7.60	2.00	0.35	
14	0.96	1.04	0.10	41.74	10.70	52.84	305.70	272.80	54.94	7.44	2.00	0.29	
15	1.20	1.12	0.14	36.88	11.80	66.70	318.90	270.00	39.40	7.36	2.00	0.23	
16	1.44	0.96	0.18	27.98	12.80	72.16	323.50	267.20	22.80	7.76	2.24	0.20	
17	1.68	0.96	0.18	20.14	11.80	83.08	328.10	264.40	16.78	9.30	2.48	0.18	
18	1.84	0.88	0.18	13.14	9.10	93.64	332.70	261.60	14.82	9.70	2.48	0.23	
19	1.68	0.80	0.18	11.20	7.12	100.51	335.00	257.40	14.40	9.60	2.48	0.20	
20	1.60	0.77	0.16	10.80	5.52	106.99	342.50	251.80	14.26	8.90	2.56	0.32	
21	1.68	0.77	0.18	10.60	4.80	124.00	337.50	247.00	15.80	7.84	2.40	0.38	
22	1.60	0.74	0.23	10.40	4.40	136.54	335.00	239.00	19.02	6.08	2.32	0.38	
23	1.52	0.74	0.29	10.20	4.16	146.80	332.70	225.00	18.60	5.12	2.24	0.32	
24	1.44	0.77	0.47	10.20	3.44	156.60	330.40	198.00	18.32	4.88	2.40	0.29	
25	1.52	0.74	0.62	10.20	3.52	180.00	325.80	167.50	17.06	5.44	2.64	0.29	
26	1.44	0.68	0.68	12.00	3.36	191.50	318.90	137.86	13.28	5.84	2.64	0.29	
27	1.36	0.65	0.77	20.98	3.20	194.50	314.30	116.17	10.10	5.12	2.48	0.26	
28	1.28	0.59	1.12	33.30	3.44	201.80	309.90	95.56	8.80	4.64	2.48	0.23	
29	1.28	0.62	1.68	41.02	3.60	215.00	303.60	79.96	8.20	4.56		0.18	
30	1.52	0.68	2.16	48.22	3.76	227.00	297.30	68.17	8.10	4.48		0.20	
31		0.65		45.70	9.00		289.60		8.30	4.40		0.14	
Total	52.81	30.88	13.36	654.04	472.16	2916.79	9099.10	6951.82	818.77	221.04	78.40	25.98	21335.15 CMSDAY
Mean	1.76	1.00	0.45	21.10	15.23	97.23	293.52	231.73	26.41	7.13	2.80	0.84	58.45 CMS
Max	3.36	1.68	2.16	48.22	45.88	227.00	342.50	285.40	59.77	9.70	4.56	2.72	342.50 CMS
Min	0.71	0.59	0.06	2.32	3.20	25.74	236.00	68.17	8.10	4.40	1.92	0.14	0.06 CMS
Runoff	4.56	2.67	1.15	56.51	40.79	252.01	786.16	600.64	70.74	19.10	6.77	2.24	1843.36 MCM

Momentary Peak 345.00 CMS, at 161.94 m. (MSL.), at 13.00 Hours, on Oct 20, 2016

Runoff Yield 5.37 Liters/Second/Square KM. Momentary Peak Yield 31.720 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at Ban Tha Sa Bang.

Ban Tha Sa Baeng **Amphoe** Thung Khao Luang **Changwat** Roi Et

Drainge Area	41,187 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+122.200 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +132.496 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1974 to date
Rated by Flot	-
Rated by Current Meter	1974 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

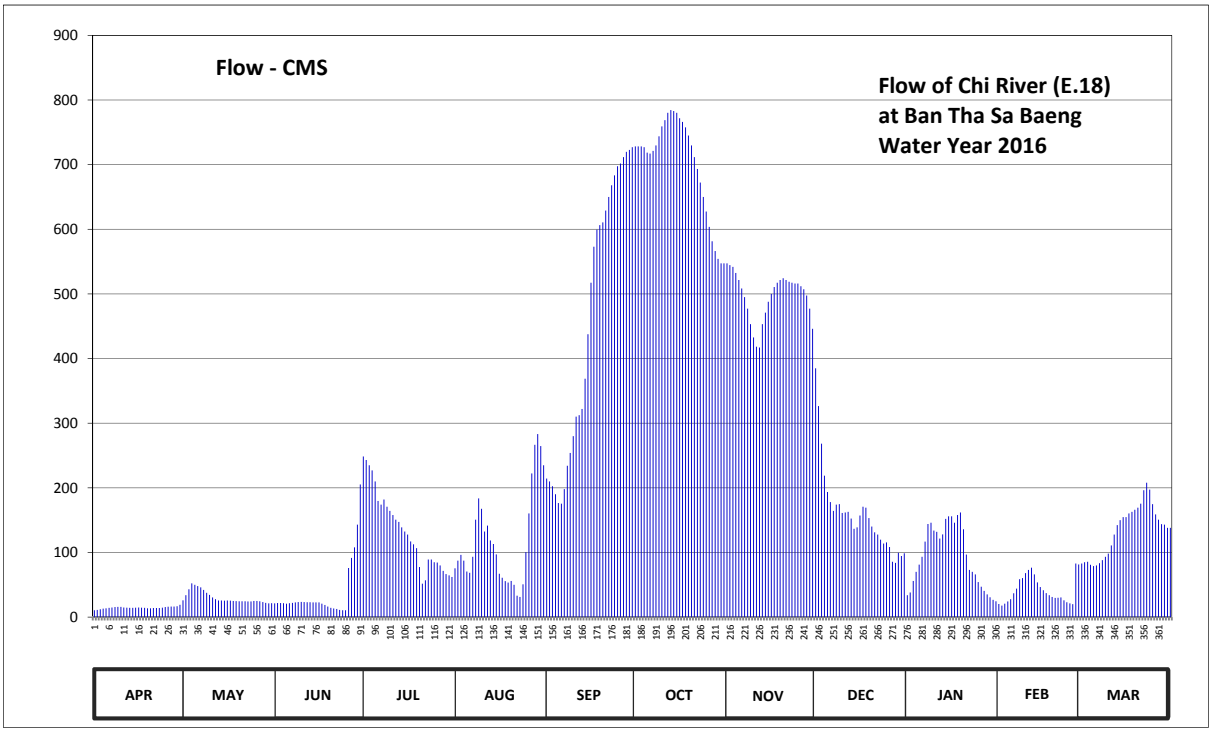
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.68	124.20	124.04	126.15	123.81	125.77	130.06	128.76	127.44	124.40	124.01	123.96	
2	123.70	124.40	124.06	126.09	124.04	125.72	130.06	128.74	126.93	124.50	123.93	124.00	
3	123.74	124.60	124.06	126.00	124.19	125.64	130.06	128.72	126.37	124.81	124.03	124.01	
4	123.77	124.76	124.05	125.91	124.04	125.50	130.05	128.65	125.82	124.96	124.14	123.92	
5	123.79	124.73	124.03	125.72	123.71	125.33	129.99	128.57	125.54	125.06	124.24	123.88	
6	123.81	124.70	124.05	125.37	123.67	125.32	129.98	128.47	125.35	125.16	124.47	123.90	
7	123.83	124.66	124.07	125.30	124.14	125.59	130.01	128.36	125.18	125.33	124.62	123.97	
8	123.85	124.58	124.09	125.40	125.01	125.99	130.07	128.21	125.30	125.48	124.84	124.05	
9	123.86	124.49	124.11	125.26	125.42	126.21	130.17	128.01	125.31	125.49	124.86	124.14	
10	123.86	124.41	124.12	125.18	125.22	126.50	130.28	127.84	125.14	125.43	124.94	124.22	
11	123.83	124.31	124.11	125.10	124.75	126.78	130.35	127.72	125.15	125.42	124.99	124.43	
12	123.82	124.24	124.10	125.01	124.88	126.80	130.43	127.71	125.16	125.36	125.02	124.68	
13	123.81	124.19	124.10	124.96	124.55	126.89	130.46	128.01	125.03	125.40	124.92	124.89	
14	123.81	124.19	124.09	124.84	124.47	127.30	130.45	128.16	124.81	125.52	124.78	125.00	
15	123.82	124.18	124.09	124.75	124.20	127.88	130.43	128.30	124.84	125.54	124.67	125.06	
16	123.83	124.19	124.09	124.68	123.64	128.54	130.37	128.40	125.09	125.54	124.57	125.06	
17	123.82	124.18	124.03	124.53	123.52	128.95	130.33	128.49	125.26	125.49	124.48	125.13	
18	123.81	124.17	123.96	124.46	123.40	129.14	130.27	128.54	125.24	125.55	124.40	125.16	
19	123.79	124.16	123.88	124.36	123.35	129.19	130.18	128.57	125.04	125.57	124.33	125.20	
20	123.79	124.15	123.81	123.85	123.41	129.22	130.07	128.59	124.86	125.44	124.29	125.24	
21	123.80	124.15	123.78	123.31	123.27	129.35	129.94	128.57	124.73	125.19	124.30	125.32	
22	123.80	124.15	123.75	123.43	122.88	129.50	129.81	128.55	124.68	124.99	124.31	125.57	
23	123.80	124.14	123.70	124.07	122.83	129.63	129.66	128.54	124.57	124.96	124.20	125.70	
24	123.82	124.14	123.67	124.07	123.29	129.74	129.50	128.53	124.48	124.92	124.10	125.58	
25	123.85	124.17	123.68	124.00	124.26	129.84	129.34	128.53	124.51	124.79	124.04	125.31	
26	123.87	124.17	123.82	123.99	125.13	129.87	129.17	128.50	124.39	124.68	124.00	125.11	
27	123.88	124.15	124.11	123.90	125.86	129.94	129.01	128.46	124.01	124.55	123.96	125.01	
28	123.88	124.11	124.38	123.73	126.35	130.00	128.90	128.38	123.98	124.43	123.93	124.91	
29	123.89	124.07	124.90	123.63	126.53	130.02	128.81	128.21	124.24	124.32		124.90	
30	123.97	124.04	125.67	123.59	126.33	130.05	128.76	127.95	124.16	124.22		124.83	
31		124.05		123.54	126.00		128.76		124.23	124.15		124.83	
Mean	123.82	124.28	124.08	124.65	124.39	127.87	129.86	128.37	125.06	125.05	124.41	124.74	
Max	123.97	124.76	125.67	126.15	126.53	130.05	130.46	128.76	127.44	125.57	125.02	125.70	130.46
Min	123.68	124.04	123.67	123.31	122.83	125.32	128.76	127.71	123.98	124.15	123.93	123.88	122.83

Annual Max Momentary Gage Height 130.47 m. (MSL.) , at 12.00 Hours, on Oct 13, 2016

Zero Gage at Bottom Elevation 122.20 m. (MSL.) , River Bed 120.73 m. (MSL.)

Left Bank Elevation 133.56 m. (MSL.) ,

Right Bank Elevation 133.31 m. (MSL.) , Drainage Are 41187 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.70	26.00	21.20	248.50	75.50	214.30	728.40	547.36	385.04	34.00	20.30	83.00	
2	11.00	34.00	21.80	243.10	87.40	209.80	728.40	544.64	326.44	38.00	17.90	85.00	
3	12.20	43.00	21.80	235.00	96.40	202.60	728.40	541.92	268.30	55.90	20.90	85.60	
4	13.10	52.20	21.50	226.90	87.40	190.00	727.00	532.40	218.80	70.00	24.20	81.00	
5	13.70	50.10	20.90	209.80	70.50	176.40	718.60	521.52	193.60	81.20	27.60	79.00	
6	14.30	48.00	21.50	179.60	68.50	175.60	717.20	508.40	178.00	93.20	36.80	80.00	
7	14.90	46.00	22.10	174.00	93.40	198.10	721.40	495.20	164.40	116.80	44.00	83.50	
8	15.50	42.00	22.70	182.00	150.80	234.10	729.80	477.20	174.00	144.00	58.60	88.00	
9	15.80	37.60	23.30	170.80	183.60	253.90	743.80	453.20	174.80	146.00	60.40	93.40	
10	15.80	34.40	23.60	164.40	167.60	280.00	759.20	432.80	161.20	134.00	68.00	98.20	
11	14.90	30.40	23.30	158.00	132.50	310.24	769.00	418.40	162.00	132.00	73.00	110.80	
12	14.60	27.60	23.00	150.80	141.60	312.40	780.20	417.20	162.80	121.60	76.40	127.60	
13	14.30	25.70	23.00	147.20	118.50	322.12	784.40	453.20	152.40	128.00	66.00	142.30	
14	14.30	25.70	22.70	138.80	113.20	368.80	783.00	471.20	136.70	152.00	53.60	150.00	
15	14.60	25.40	22.70	132.50	97.00	437.60	780.20	488.00	138.80	156.00	46.50	154.80	
16	14.90	25.70	22.70	127.60	67.00	517.44	771.80	500.00	157.20	156.00	41.50	154.80	
17	14.60	25.40	20.90	117.10	61.00	573.20	766.20	510.80	170.80	146.00	37.20	160.40	
18	14.30	25.10	18.80	112.60	55.60	599.60	757.80	517.44	169.20	158.00	34.00	162.80	
19	13.70	24.80	16.40	106.60	53.40	606.60	745.20	521.52	153.20	162.00	31.20	166.00	
20	13.70	24.50	14.30	77.50	56.04	610.80	729.80	524.24	140.20	136.00	29.60	169.20	
21	14.00	24.50	13.40	51.64	49.88	629.00	711.60	521.52	131.10	96.80	30.00	175.60	
22	14.00	24.50	12.50	56.92	33.20	650.00	693.40	518.80	127.60	73.00	30.40	196.30	
23	14.00	24.20	11.00	89.20	31.20	668.20	672.40	517.44	119.90	70.00	26.00	208.00	
24	14.60	24.20	10.55	89.20	50.76	683.60	650.00	516.08	113.80	66.00	23.00	197.20	
25	15.50	25.10	10.70	85.00	100.60	697.60	627.60	516.08	115.70	54.30	21.20	174.80	
26	16.10	25.10	76.00	84.50	160.40	701.80	603.80	512.00	108.40	47.00	20.00	158.80	
27	16.40	24.50	91.60	80.00	222.40	711.60	581.40	507.20	85.60	40.50	83.00	150.80	
28	16.40	23.30	107.80	71.50	266.50	720.00	566.40	497.60	84.00	35.20	81.50	143.70	
29	16.70	22.10	143.00	66.50	283.24	722.80	554.16	477.20	99.40	30.80		143.00	
30	19.10	21.20	205.30	64.50	264.70	727.00	547.36	446.00	94.60	26.80		138.10	
31		21.50		62.00	235.00		547.36		98.80	24.50		138.10	
Total	437.70	933.80	1110.05	4103.76	3674.82	13705.20	21725.28	14906.56	4966.78	2925.60	1182.80	4179.80	73852.15 CMSDAY
Mean	14.59	30.12	37.00	132.38	118.54	456.84	700.82	496.89	160.22	94.37	42.24	134.83	202.33 CMS
Max	19.10	52.20	205.30	248.50	283.24	727.00	784.40	547.36	385.04	162.00	83.00	208.00	784.40 CMS
Min	10.70	21.20	10.55	51.64	31.20	175.60	547.36	417.20	84.00	24.50	17.90	79.00	10.55 CMS
Runoff	37.82	80.68	95.91	354.56	317.50	1184.13	1877.06	1287.93	429.13	252.77	102.19	361.13	6380.83 MCM

Momentary Peak 785.80 CMS, at 130.47 m. (MSL.), at 12.00 Hours, on Oct 13, 2016

Runoff Yield 4.91 Liters/Second/Square KM. Momentary Peak Yield 19.080 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

Ban Maha Chana Chai **Amphoe** Maha Chana Chai **Changwat** Yasothon

Drainge Area	47,800 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+112.000 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +126.619 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1974 to date
Rated by Flot	-
Rated by Current Meter	1974 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Tat Noi barrage situated downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

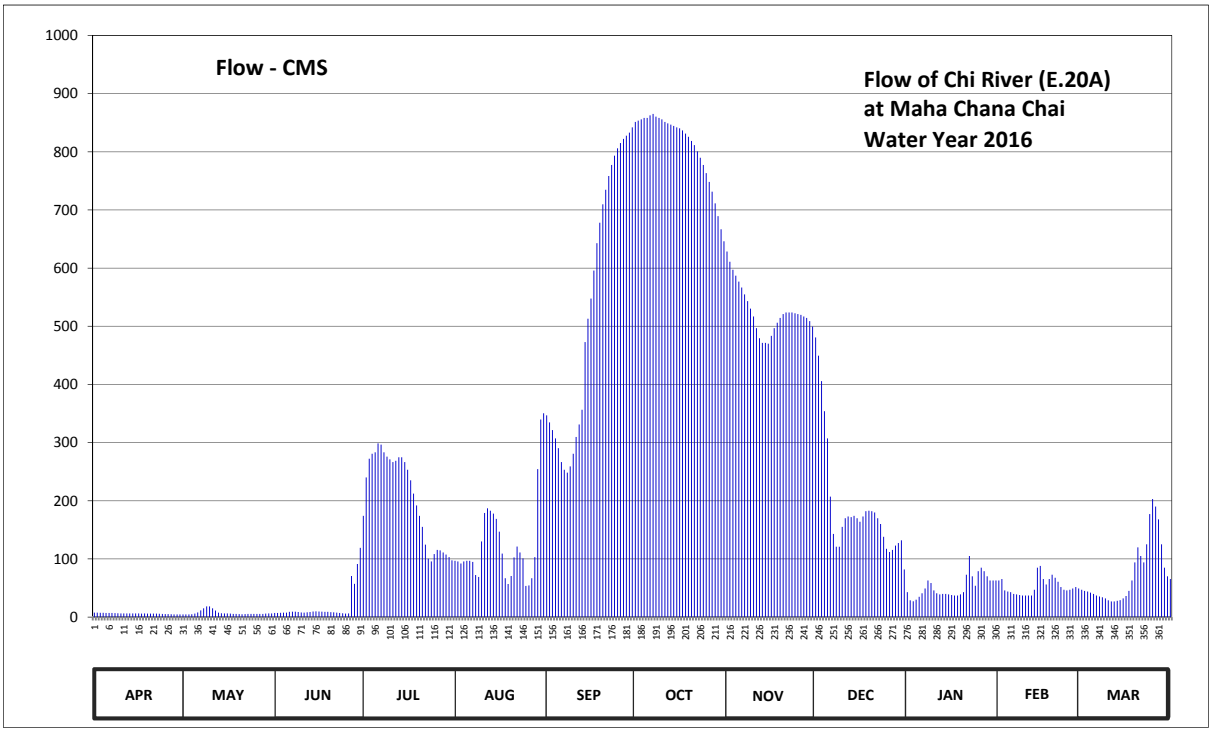
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.96	114.67	114.90	116.54	115.73	118.04	121.44	120.14	119.11	115.96	116.07	116.00	
2	114.96	114.67	114.92	117.15	115.72	117.94	121.45	120.03	118.87	115.77	116.08	115.98	
3	114.95	114.67	114.95	117.42	115.68	117.83	121.46	119.94	118.53	115.73	115.99	115.97	
4	114.93	114.70	114.96	117.49	115.72	117.71	121.47	119.87	118.10	115.80	115.97	115.95	
5	114.92	114.79	114.98	117.51	115.73	117.57	121.47	119.80	117.71	115.87	115.96	115.93	
6	114.91	115.00	115.05	117.64	115.73	117.37	121.49	119.73	116.87	115.94	115.93	115.90	
7	114.90	115.18	115.07	117.62	115.71	117.26	121.50	119.65	116.23	116.01	115.92	115.88	
8	114.88	115.36	115.07	117.51	115.44	117.22	121.48	119.57	116.00	116.07	115.91	115.86	
9	114.85	115.48	115.04	117.45	115.40	117.31	121.47	119.48	116.00	116.05	115.90	115.83	
10	114.84	115.48	115.00	117.41	116.10	117.49	121.46	119.38	116.35	115.99	115.90	115.77	
11	114.83	115.36	114.97	117.37	116.59	117.73	121.44	119.23	116.50	115.94	115.90	115.72	
12	114.83	115.16	115.01	117.39	116.67	117.91	121.43	119.10	116.53	115.92	115.90	115.72	
13	114.83	114.97	115.04	117.44	116.63	118.12	121.42	119.04	116.52	115.93	116.00	115.75	
14	114.84	114.86	115.08	117.44	116.58	119.05	121.41	119.04	116.54	115.93	116.15	115.78	
15	114.84	114.83	115.09	117.37	116.49	119.35	121.40	119.03	116.50	115.92	116.16	115.83	
16	114.84	114.82	115.08	117.26	116.27	119.60	121.39	119.13	116.44	115.91	116.08	115.89	
17	114.81	114.80	115.07	117.11	115.87	119.93	121.37	119.23	116.53	115.90	116.04	115.98	
18	114.82	114.76	115.05	116.92	115.37	120.23	121.34	119.30	116.62	115.90	116.08	116.07	
19	114.81	114.74	115.05	116.72	115.05	120.45	121.31	119.36	116.63	115.92	116.11	116.18	
20	114.81	114.73	115.03	116.54	114.97	120.64	121.27	119.41	116.62	115.96	116.09	116.24	
21	114.80	114.70	115.01	116.35	114.78	120.79	121.23	119.43	116.60	116.11	116.06	116.21	
22	114.79	114.71	114.97	116.04	114.67	120.93	121.17	119.43	116.50	116.21	116.02	116.18	
23	114.78	114.74	114.91	115.77	114.73	121.04	121.11	119.43	116.40	116.10	116.00	116.25	
24	114.76	114.75	114.86	115.72	114.79	121.13	121.04	119.42	116.18	116.03	115.99	116.57	
25	114.73	114.76	114.81	115.86	115.07	121.20	120.96	119.41	115.96	116.13	116.00	116.83	
26	114.71	114.75	114.82	115.94	115.19	121.25	120.87	119.40	115.90	116.15	116.01	116.70	
27	114.68	114.74	114.97	115.93	115.37	121.29	120.77	119.38	115.94	116.13	116.02	116.48	
28	114.67	114.75	115.23	115.89	115.80	121.32	120.65	119.36	116.02	116.10	116.01	116.25	
29	114.66	114.79	115.67	115.85	117.27	121.35	120.52	119.32	116.07	116.07		116.15	
30	114.66	114.82	115.98	115.80	117.98	121.40	120.38	119.25	116.12	116.07		116.10	
31		114.84		115.74	118.07		120.25		116.14	116.07		116.08	
Mean	114.82	114.88	115.05	116.78	115.84	119.35	121.21	119.44	116.68	115.99	116.01	116.07	
Max	114.96	115.48	115.98	117.64	118.07	121.40	121.50	120.14	119.11	116.21	116.16	116.83	121.50
Min	114.66	114.67	114.81	115.72	114.67	117.22	120.25	119.03	115.90	115.73	115.90	115.72	114.66

Annual Max Momentary Gage Height 121.50 m. (MSL.) , at 01.00 Hours, on Oct 7, 2016

Zero Gage at Bottom Elevation 112.00 m. (MSL.) , River Bed 110.02 m. (MSL.)

Left Bank Elevation 123.97 m. (MSL.) ,

Right Bank Elevation 124.08 m. (MSL.) , Drainage Are 47800 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.60	4.70	7.00	174.00	96.70	346.80	851.20	628.40	480.74	43.00	63.10	47.00	
2	7.60	4.70	7.20	240.00	95.80	334.80	853.50	610.80	449.36	28.80	65.40	45.00	
3	7.50	4.70	7.50	272.40	92.20	321.60	855.80	597.24	405.84	27.20	46.00	44.00	
4	7.30	5.00	7.60	280.80	95.80	307.20	858.10	587.02	354.00	30.00	44.00	42.00	
5	7.20	5.90	7.80	283.20	96.70	290.40	858.10	576.80	307.20	34.90	43.00	40.00	
6	7.10	8.00	9.00	298.80	96.70	266.40	862.70	566.58	207.00	41.00	40.00	37.00	
7	7.00	11.60	9.40	296.40	94.90	253.20	865.00	554.90	143.00	49.30	39.00	35.60	
8	6.80	15.20	9.40	283.20	72.20	248.40	860.40	543.22	121.00	63.10	38.00	34.20	
9	6.50	18.40	8.80	276.00	69.00	259.20	858.10	530.32	121.00	58.50	37.00	32.10	
10	6.40	18.40	8.00	271.20	130.00	280.80	855.80	516.92	155.00	46.00	37.00	28.80	
11	6.30	15.20	7.70	266.40	179.00	309.60	851.20	496.82	170.00	41.00	37.00	26.80	
12	6.30	11.20	8.20	268.80	187.00	331.20	848.90	479.40	173.00	39.00	37.00	26.80	
13	6.30	7.70	8.80	274.80	183.00	356.40	846.60	471.36	172.00	40.00	47.00	28.00	
14	6.40	6.60	9.60	274.80	178.00	472.70	844.30	471.36	174.00	40.00	85.00	29.20	
15	6.40	6.30	9.80	266.40	169.00	512.90	842.00	470.02	170.00	39.00	88.00	32.10	
16	6.40	6.20	9.60	253.20	147.00	547.60	840.20	483.42	164.00	38.00	65.40	36.30	
17	6.10	6.00	9.40	235.20	109.30	595.78	836.60	496.82	173.00	37.00	56.20	45.00	
18	6.20	5.60	9.00	212.40	66.90	642.80	831.20	506.20	182.00	37.00	65.40	63.10	
19	6.10	5.40	9.00	192.00	57.05	678.00	825.80	514.24	183.00	39.00	73.00	94.00	
20	6.10	5.30	8.60	174.00	70.57	709.52	818.60	520.94	182.00	43.00	67.70	120.00	
21	6.00	5.00	8.20	155.00	102.68	734.72	811.40	523.62	180.00	73.00	60.80	105.00	
22	5.90	5.10	7.70	124.60	121.27	758.24	800.60	523.62	170.00	105.00	51.60	94.00	
23	5.80	5.40	7.10	100.30	111.13	777.20	789.80	523.62	160.00	70.00	47.00	125.00	
24	5.60	5.50	6.60	95.80	100.99	793.40	777.20	522.28	138.00	53.90	46.00	177.00	
25	5.30	5.60	6.10	108.40	53.67	806.00	763.28	520.94	117.40	79.00	47.00	203.00	
26	5.10	5.50	6.20	115.60	54.36	815.00	748.16	519.60	112.00	85.00	49.30	190.00	
27	4.80	5.40	70.57	114.70	66.90	822.20	731.36	516.92	115.60	79.00	51.60	168.00	
28	4.70	5.50	57.10	111.10	103.00	827.60	711.20	514.24	122.80	70.00	49.30	125.00	
29	4.60	5.90	91.30	107.50	254.40	833.00	689.36	508.88	127.30	63.10		85.00	
30	4.60	6.20	119.20	103.00	339.60	842.00	666.80	499.50	132.00	63.10		70.00	
31		6.40		97.60	350.40		646.00		82.00	63.10		65.40	
Total	186.00	233.60	551.47	6327.60	3945.22	16074.66	25099.26	15796.00	5944.24	1619.00	1476.80	2294.40	79548.25 CMSDAY
Mean	6.20	7.54	18.38	204.12	127.27	535.82	809.65	526.53	191.75	52.23	52.74	74.01	217.94 CMS
Max	7.60	18.40	119.20	298.80	350.40	842.00	865.00	628.40	480.74	105.00	88.00	203.00	865.00 CMS
Min	4.60	4.70	6.10	95.80	53.67	248.40	646.00	470.02	82.00	27.20	37.00	26.80	4.60 CMS
Runoff	16.07	20.18	47.65	546.70	340.87	1388.85	2168.58	1364.77	513.58	139.88	127.60	198.24	6872.97 MCM

Momentary Peak 865.00 CMS, at 121.50 m. (MSL.), at 01.00 Hours, on Oct 7, 2016

Runoff Yield 4.56 Liters/Second/Square KM. Momentary Peak Yield 18.100 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

Ban Kaeng Ko **Amphoe** Mueang **Changwat** Chaiyaphum

Drainge Area	8,777 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+163.000 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	In front of the automatic gage buiding. **Elevation** +177.385 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1955 - 1957 , 1967 to date
Rating Operation	
Period of Rating	1968 - 1971 , 1973 - 1974 , 1982 to date
Rated by Flot	-
Rated by Current Meter	1968 - 1971 , 1973 - 1974 , 1982 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

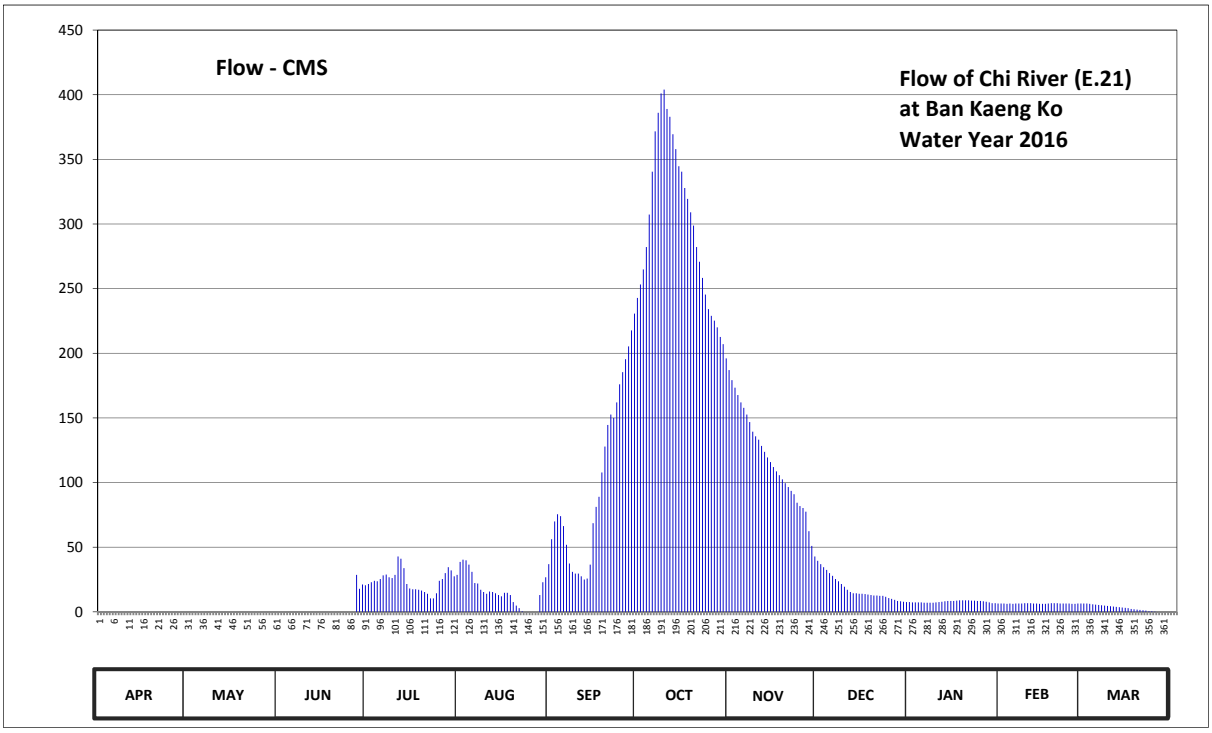
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.47	165.24	165.47	167.22	167.69	168.10	173.18	172.08	167.65	166.78	166.75	166.75	
2	165.47	165.24	165.47	167.26	167.73	168.41	173.29	171.97	167.59	166.78	166.74	166.74	
3	165.46	165.24	165.47	167.29	167.72	168.53	173.43	171.86	167.53	166.78	166.75	166.73	
4	165.45	165.24	165.47	167.28	167.64	168.50	173.59	171.75	167.46	166.78	166.74	166.72	
5	165.44	165.24	165.47	167.33	167.49	168.33	173.75	171.67	167.40	166.77	166.75	166.71	
6	165.43	165.24	165.47	167.41	167.24	168.00	173.89	171.57	167.33	166.77	166.75	166.70	
7	165.42	165.24	165.47	167.43	167.23	167.66	173.94	171.45	167.28	166.77	166.75	166.69	
8	165.41	165.24	165.47	167.37	167.09	167.49	173.99	171.28	167.22	166.77	166.76	166.68	
9	165.40	165.24	165.47	167.35	167.04	167.45	174.00	171.20	167.16	166.78	166.76	166.67	
10	165.39	165.24	165.47	167.42	167.00	167.45	173.95	171.14	167.09	166.79	166.76	166.66	
11	165.38	165.26	165.48	167.79	167.05	167.39	173.93	171.03	167.04	166.80	166.75	166.65	
12	165.37	165.28	165.52	167.75	167.04	167.32	173.88	170.92	167.01	166.81	166.75	166.64	
13	165.36	165.30	165.55	167.57	167.01	167.34	173.83	170.81	167.01	166.82	166.74	166.63	
14	165.35	165.33	165.58	167.22	166.97	167.64	173.77	170.71	167.00	166.82	166.74	166.62	
15	165.34	165.35	165.58	167.12	166.94	168.38	173.75	170.60	167.00	166.82	166.74	166.61	
16	165.33	165.36	165.58	167.10	167.02	169.03	173.69	170.49	166.99	166.83	166.75	166.59	
17	165.32	165.36	165.58	167.10	167.02	169.70	173.65	170.39	166.98	166.84	166.76	166.58	
18	165.31	165.37	165.58	167.09	166.97	170.46	173.60	170.28	166.97	166.84	166.76	166.57	
19	165.30	165.38	165.58	167.07	166.79	171.02	173.54	170.18	166.96	166.84	166.76	166.56	
20	165.29	165.39	165.58	167.04	166.69	171.40	173.43	170.06	166.96	166.84	166.75	166.55	
21	165.28	165.40	165.58	167.00	166.61	171.57	173.34	169.93	166.95	166.83	166.75	166.54	
22	165.27	165.41	165.59	166.89	166.52	171.52	173.23	169.80	166.95	166.83	166.75	166.52	
23	165.26	165.42	165.59	166.89	166.42	171.75	173.09	169.44	166.93	166.82	166.75	166.52	
24	165.25	165.43	165.59	167.01	166.38	172.02	172.96	169.16	166.90	166.82	166.74	166.51	
25	165.25	165.44	165.64	167.29	166.33	172.20	172.90	168.86	166.88	166.81	166.74	166.50	
26	165.24	165.45	166.49	167.33	166.20	172.39	172.85	168.57	166.85	166.80	166.75	166.49	
27	165.24	165.46	167.42	167.46	166.37	172.57	172.78	168.24	166.82	166.78	166.75	166.48	
28	165.24	165.47	167.11	167.59	166.97	172.75	172.68	167.98	166.81	166.76	166.75	166.48	
29	165.24	165.47	167.21	167.52	167.26	172.92	172.60	167.79	166.80	166.76		166.47	
30	165.24	165.47	167.19	167.39	167.37	173.06	172.40	167.71	166.79	166.75		166.47	
31		165.47		167.42	167.65		172.23		166.79	166.75		166.47	
Mean	165.34	165.34	165.79	167.29	167.01	169.75	173.39	170.30	167.07	166.80	166.75	166.60	
Max	165.47	165.47	167.42	167.79	167.73	173.06	174.00	172.08	167.65	166.84	166.76	166.75	174.00
Min	165.24	165.24	165.47	166.89	166.20	167.32	172.23	167.71	166.79	166.75	166.74	166.47	165.24

Annual Max Momentary Gage Height 174.00 m. (MSL.) , at 19.00 Hours, on Oct 8, 2016

Zero Gage at Bottom Elevation 163.00 m. (MSL.) , River Bed 163.10 m. (MSL.)

Left Bank Elevation 176.45 m. (MSL.) ,

Right Bank Elevation 175.46 m. (MSL.) , Drainage Are 8777 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	21.50	38.58	56.20	253.27	179.16	36.90	7.24	6.40	6.40		
2	0.00	0.00	0.00	22.90	40.26	69.86	264.90	173.44	34.45	7.24	6.12	6.12		
3	0.00	0.00	0.00	23.95	39.84	75.50	282.20	167.72	32.35	7.24	6.40	5.84		
4	0.00	0.00	0.00	23.60	36.48	74.00	307.30	162.00	29.90	7.24	6.12	5.56		
5	0.00	0.00	0.00	25.35	30.95	66.32	340.50	157.84	27.80	6.96	6.40	5.28		
6	0.00	0.00	0.00	28.15	22.20	51.80	371.70	152.64	25.35	6.96	6.40	5.00		
7	0.00	0.00	0.00	28.85	21.85	37.32	386.00	146.80	23.60	6.96	6.40	4.75		
8	0.00	0.00	0.00	26.75	17.06	30.95	401.00	139.32	21.50	6.96	6.68	4.50		
9	0.00	0.00	0.00	26.05	15.36	29.55	404.00	135.80	19.44	7.24	6.68	4.25		
10	0.00	0.00	0.00	28.50	14.00	29.55	389.00	133.16	17.06	7.52	6.68	4.00		
11	0.00	0.00	0.00	42.78	15.70	27.45	383.00	128.32	15.36	7.80	6.40	3.75		
12	0.00	0.00	0.00	41.10	15.36	25.00	369.40	123.80	14.34	8.08	6.40	3.50		
13	0.00	0.00	0.00	33.75	14.34	25.70	357.90	119.40	14.34	8.36	6.12	3.25		
14	0.00	0.00	0.00	21.50	12.98	36.48	344.70	115.85	14.00	8.36	6.12	3.00		
15	0.00	0.00	0.00	18.08	11.96	68.52	340.50	112.00	14.00	8.36	6.12	2.75		
16	0.00	0.00	0.00	17.40	14.68	81.15	327.90	108.70	13.66	8.64	6.40	2.25		
17	0.00	0.00	0.00	17.40	14.68	89.00	319.50	105.70	13.32	8.92	6.68	2.00		
18	0.00	0.00	0.00	17.06	12.98	107.80	309.00	102.40	12.98	8.92	6.68	1.75		
19	0.00	0.00	0.00	16.38	7.52	127.88	298.80	99.50	12.64	8.92	6.68	1.50		
20	0.00	0.00	0.00	15.36	4.75	144.60	282.20	96.50	12.64	8.92	6.40	1.25		
21	0.00	0.00	0.00	14.00	2.75	152.64	270.80	93.60	12.30	8.64	6.40	1.00		
22	0.00	0.00	0.00	10.32	0.50	150.04	258.30	91.00	12.30	8.64	6.40	0.50		
23	0.00	0.00	0.00	10.32	0.00	162.00	245.47	84.40	11.62	8.36	6.40	0.50		
24	0.00	0.00	0.00	14.34	0.00	176.04	234.20	81.80	10.60	8.36	6.12	0.25		
25	0.00	0.00	0.00	23.95	0.00	185.40	229.00	80.30	10.04	8.08	6.12	0.00		
26	0.00	0.00	0.00	25.35	0.00	195.46	225.25	77.50	9.20	7.80	6.40	0.00		
27	0.00	0.00	28.50	29.90	0.00	205.32	220.00	62.36	8.36	7.24	6.40	0.00		
28	0.00	0.00	17.74	34.45	12.98	217.75	212.60	50.92	8.08	6.68	6.40	0.00		
29	0.00	0.00	21.15	32.00	22.90	230.73	207.00	42.78	7.80	6.68		0.00		
30	0.00	0.00	20.46	27.45	26.75	242.87	196.00	39.42	7.52	6.40		0.00		
31		0.00		28.50	36.90		186.96		7.52	6.40		0.00		
Total	0.00	0.00	87.85	746.99	504.31	3172.88	9218.35	3364.13	510.97	240.12	178.92	78.95	18103.47	CMSDAY
Mean	0.00	0.00	2.93	24.10	16.27	105.76	297.37	112.14	16.48	7.75	6.39	2.55	49.60	CMS
Max	0.00	0.00	28.50	42.78	40.26	242.87	404.00	179.16	36.90	8.92	6.68	6.40	404.00	CMS
Min	0.00	0.00	0.00	10.32	0.00	25.00	186.96	39.42	7.52	6.40	6.12	0.00	0.00	CMS
Runoff	0.00	0.00	7.59	64.54	43.57	274.14	796.47	290.66	44.15	20.75	15.46	6.82	1564.14	MCM

Momentary Peak 404.00 CMS, at 174.00 m. (MSL.), at 19.00 Hours, on Oct 8, 2016

Runoff Yield 5.65 Liters/Second/Square KM. Momentary Peak Yield 46.030 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at Ban Tha Mao.

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

Drainge Area	13,638 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+150.900 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On left bank at the footpath of the bridge. **Elevation** +163.911 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1966 - 1972 , 1982 - 1987 , 1992 to date
Rated by Flot	-
Rated by Current Meter	1966 - 1972 , 1982 - 1987 , 1992 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Flow regulated by Ubonrat Dam about 35 kilometers above gage site and Nong Wai weir situated about 5 kilometers above gage site. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

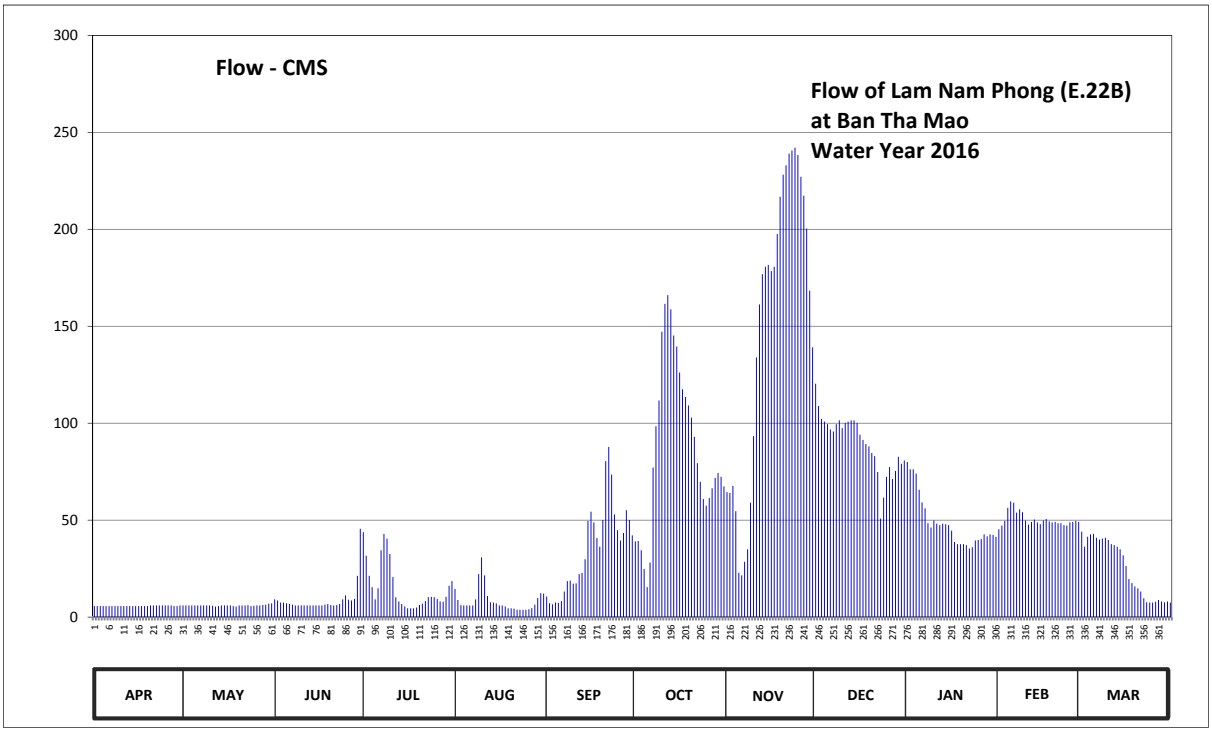
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.38	151.40	151.61	153.26	151.92	151.71	153.06	154.12	155.91	154.69	153.32	153.27	
2	151.38	151.40	151.57	152.73	151.59	151.48	153.07	154.10	155.59	154.56	153.40	152.94	
3	151.38	151.40	151.50	152.26	151.41	151.44	152.86	154.25	155.40	154.56	153.50	153.16	
4	151.38	151.40	151.50	151.97	151.40	151.50	152.42	153.71	155.36	154.48	153.78	153.21	
5	151.38	151.40	151.48	151.61	151.40	151.49	151.97	152.33	155.32	154.17	153.92	153.22	
6	151.38	151.40	151.45	151.94	151.40	151.55	152.57	152.27	155.24	153.90	153.89	153.14	
7	151.38	151.40	151.43	152.86	151.40	151.85	154.59	152.59	155.21	153.77	153.68	153.10	
8	151.38	151.40	151.40	153.22	151.61	152.13	155.29	152.88	155.32	153.45	153.75	153.12	
9	151.38	151.40	151.40	153.12	152.30	152.14	155.67	153.89	155.38	153.36	153.69	153.14	
10	151.38	151.40	151.40	152.77	152.69	152.06	156.63	155.14	155.26	153.51	153.51	153.09	
11	151.38	151.39	151.40	152.23	152.27	152.07	156.99	156.28	155.34	153.44	153.42	153.00	
12	151.38	151.36	151.40	151.68	151.72	152.30	157.10	156.98	155.36	153.41	153.48	152.98	
13	151.38	151.38	151.40	151.54	151.51	152.33	156.92	157.37	155.38	153.44	153.53	152.94	
14	151.38	151.40	151.40	151.45	151.50	152.65	156.58	157.46	155.38	153.43	153.47	152.88	
15	151.38	151.40	151.40	151.37	151.47	153.50	156.43	157.48	155.34	153.41	153.43	152.74	
16	151.38	151.40	151.40	151.30	151.40	153.70	156.07	157.41	155.16	153.29	153.51	152.49	
17	151.38	151.40	151.40	151.30	151.40	153.47	155.83	157.46	155.08	153.05	153.54	152.18	
18	151.38	151.38	151.43	151.30	151.37	153.13	155.72	157.82	155.02	153.00	153.49	152.08	
19	151.38	151.36	151.45	151.33	151.30	152.94	155.60	158.20	154.98	153.00	153.47	151.99	
20	151.40	151.40	151.42	151.42	151.30	153.52	155.42	158.41	154.86	153.00	153.48	151.94	
21	151.40	151.40	151.40	151.46	151.29	154.71	155.13	158.50	154.80	152.98	153.45	151.85	
22	151.40	151.40	151.41	151.55	151.25	154.97	154.67	158.58	154.51	152.90	153.45	151.65	
23	151.40	151.41	151.45	151.69	151.25	154.46	154.33	158.60	153.55	152.93	153.41	151.51	
24	151.40	151.38	151.61	151.70	151.25	153.64	153.97	158.62	154.00	153.08	153.40	151.50	
25	151.40	151.39	151.74	151.69	151.25	153.30	153.83	158.57	154.42	153.09	153.47	151.50	
26	151.40	151.40	151.60	151.62	151.27	153.08	153.99	158.39	154.60	153.11	153.48	151.53	
27	151.40	151.40	151.57	151.54	151.31	153.24	154.20	158.21	154.38	153.21	153.50	151.59	
28	151.38	151.42	151.62	151.53	151.43	153.73	154.40	157.88	154.53	153.17	153.48	151.54	
29	151.38	151.43	152.26	151.70	151.66	153.52	154.49	157.16	154.79	153.21		151.51	
30	151.40	151.46	153.33	152.01	151.80	153.19	154.42	156.42	154.66	153.20		151.54	
31		151.47		152.13	151.79		154.24		154.72	153.16		151.50	
Mean	151.39	151.40	151.56	151.91	151.55	152.83	154.79	156.37	155.00	153.45	153.53	152.38	
Max	151.40	151.47	153.33	153.26	152.69	154.97	157.10	158.62	155.91	154.69	153.92	153.27	158.62
Min	151.38	151.36	151.40	151.30	151.25	151.44	151.97	152.27	153.55	152.90	153.32	151.50	151.25

Annual Max Momentary Gage Height 158.62 m. (MSL.) , at 06.00 Hours, on Nov 24, 2016

Zero Gage at Bottom Elevation 150.90 m. (MSL.) , River Bed 150.16 m. (MSL.)

Left Bank Elevation 163.37 m. (MSL.) ,

Right Bank Elevation 163.00 m. (MSL.) , Drainage Are 13638 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.70	6.00	9.15	43.84	14.48	10.68	39.04	64.48	120.36	79.92	45.28	44.08	
2	5.70	6.00	8.55	31.66	8.85	7.20	39.28	64.00	108.84	76.28	47.20	36.28	
3	5.70	6.00	7.50	21.32	6.15	6.60	34.52	67.70	102.20	76.28	49.60	41.44	
4	5.70	6.00	7.50	15.43	6.00	7.50	24.84	54.64	100.84	74.04	56.32	42.64	
5	5.70	6.00	7.20	9.15	6.00	7.35	15.43	22.86	99.48	65.68	59.68	42.88	
6	5.70	6.00	6.75	14.86	6.00	8.25	28.14	21.54	96.76	59.20	58.96	40.96	
7	5.70	6.00	6.45	34.52	6.00	13.20	77.12	28.58	95.74	56.08	53.92	40.00	
8	5.70	6.00	6.00	42.88	9.15	18.60	98.46	34.96	99.48	48.40	55.60	40.48	
9	5.70	6.00	6.00	40.48	22.20	18.80	111.72	58.96	101.52	46.24	54.16	40.96	
10	5.70	6.00	6.00	32.54	30.78	17.20	147.20	93.36	97.44	49.84	49.84	39.76	
11	5.70	5.85	6.00	20.66	21.54	17.40	161.60	133.96	100.16	48.16	47.68	37.60	
12	5.70	5.40	6.00	10.20	10.86	22.20	166.00	161.20	100.84	47.44	49.12	37.16	
13	5.70	5.70	6.00	8.10	7.65	22.86	158.80	176.80	101.52	48.16	50.32	36.28	
14	5.70	6.00	6.00	6.75	7.50	29.90	145.22	180.70	101.52	47.92	48.88	34.96	
15	5.70	6.00	6.00	5.55	7.05	49.60	139.51	181.60	100.16	47.44	47.92	31.88	
16	5.70	6.00	6.00	4.50	6.00	54.40	126.19	178.45	94.04	44.56	49.84	26.38	
17	5.70	6.00	6.00	4.50	6.00	48.88	117.48	180.70	91.32	38.80	50.56	19.60	
18	5.70	5.70	6.45	4.50	5.55	40.72	113.52	197.54	89.28	37.60	49.36	17.60	
19	5.70	5.40	6.75	4.95	4.50	36.28	109.20	216.80	88.04	37.60	48.88	15.81	
20	6.00	6.00	6.30	6.30	4.50	50.08	102.88	228.14	84.68	37.60	49.12	14.86	
21	6.00	6.00	6.00	6.90	4.35	80.48	93.02	233.00	83.00	37.16	48.40	13.20	
22	6.00	6.00	6.15	8.25	3.75	87.76	79.36	239.08	74.88	35.40	48.40	9.75	
23	6.00	6.15	6.75	10.35	3.75	73.48	69.84	240.60	50.80	36.06	47.44	7.65	
24	6.00	5.70	9.15	10.50	3.75	52.96	60.88	242.12	61.60	39.52	47.20	7.50	
25	6.00	5.85	11.22	10.35	3.75	44.80	57.52	238.32	72.36	39.76	48.88	7.50	
26	6.00	6.00	9.00	9.30	4.05	39.52	61.36	227.06	77.40	40.24	49.12	7.95	
27	6.00	6.00	8.55	8.10	4.65	43.36	66.40	217.34	71.24	42.64	49.60	8.85	
28	5.70	6.30	9.30	7.95	6.45	55.12	71.80	200.36	75.44	41.68	49.12	8.10	
29	5.70	6.45	21.32	10.50	9.90	50.08	74.32	168.40	82.72	42.64		7.65	
30	6.00	6.90	45.52	16.20	12.30	42.16	72.36	139.14	79.08	42.40		8.10	
31		7.05		18.60	12.12		67.44		80.76	41.44		7.50	
Total	173.70	186.45	265.56	479.69	265.58	1057.42	2730.45	4492.39	2783.50	1506.18	1410.40	775.36	16126.68 CMSDAY
Mean	5.79	6.01	8.85	15.47	8.57	35.25	88.08	149.75	89.79	48.59	50.37	25.01	44.18 CMS
Max	6.00	7.05	45.52	43.84	30.78	87.76	166.00	242.12	120.36	79.92	59.68	44.08	242.12 CMS
Min	5.70	5.40	6.00	4.50	3.75	6.60	15.43	21.54	50.80	35.40	45.28	7.50	3.75 CMS
Runoff	15.01	16.11	22.94	41.45	22.95	91.36	235.91	388.14	240.49	130.13	121.86	66.99	1393.35 MCM

Momentary Peak 242.12 CMS, at 158.62 m. (MSL.), at 06.00 Hours, on Nov 24, 2016

Runoff Yield 3.24 Liters/Second/Square KM. Momentary Peak Yield 17.750 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Khai **Amphoe** Mueang **Changwat** Chaiyaphum

Drainge Area	6,282 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+176.200 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank about 20 meters from the automatic gage building. **Elevation** +185.546 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 - 1956 , 1967 to date
Rating Operation	
Period of Rating	1968 - 1974 , 1982 to date
Rated by Flot	-
Rated by Current Meter	1968 - 1974 , 1982 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

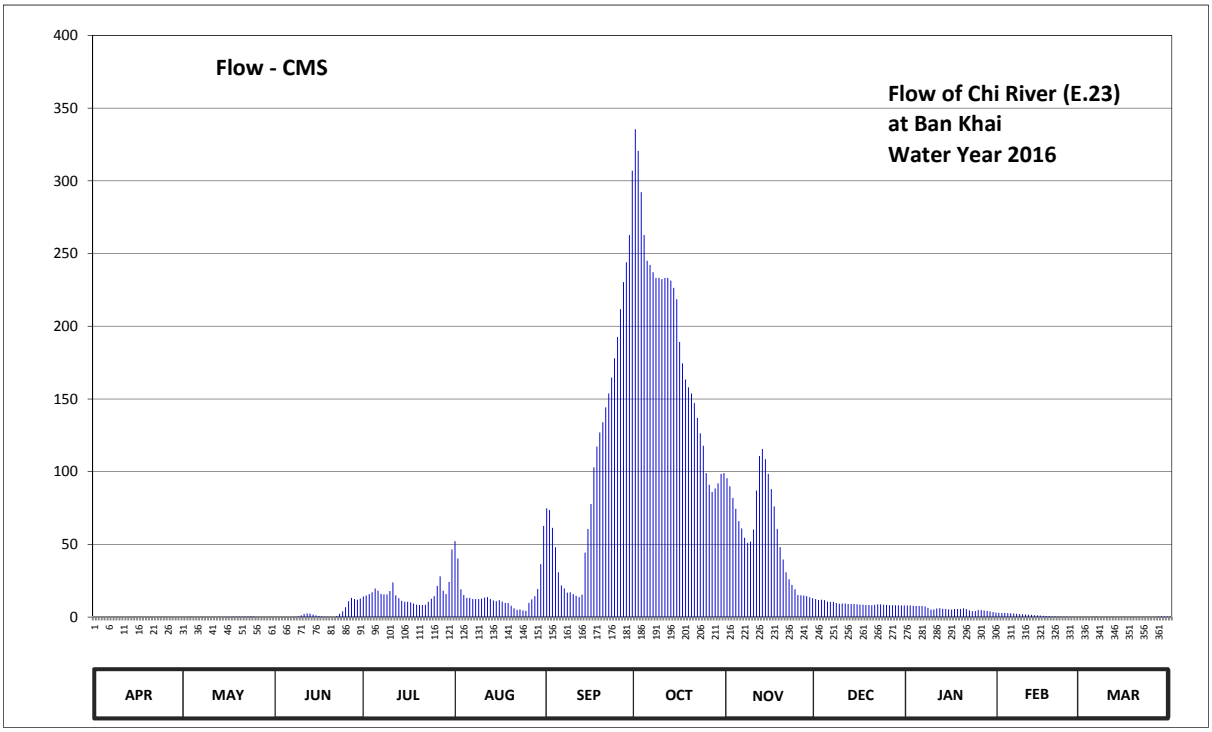
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.97	179.00	179.00	180.56	181.77	182.33	185.61	182.77	180.47	180.20	179.70	178.99	
2	178.97	179.01	179.01	180.59	181.45	182.30	185.53	182.66	180.44	180.20	179.68	179.00	
3	178.96	179.02	179.00	180.64	180.77	182.01	185.33	182.50	180.45	180.19	179.66	179.01	
4	178.94	179.02	178.99	180.70	180.61	181.66	185.11	182.32	180.43	180.18	179.64	179.01	
5	178.92	179.01	178.99	180.79	180.51	181.16	184.97	182.12	180.38	180.18	179.62	179.03	
6	178.92	179.00	178.99	180.74	180.51	180.86	184.94	182.00	180.36	180.18	179.60	179.04	
7	178.97	178.99	178.98	180.65	180.47	180.79	184.89	181.83	180.36	180.16	179.56	179.01	
8	178.96	178.98	179.03	180.63	180.47	180.69	184.85	181.74	180.31	180.09	179.52	178.99	
9	178.95	178.96	179.10	180.63	180.47	180.70	184.85	181.76	180.28	180.01	179.48	179.00	
10	178.93	178.95	179.29	180.73	180.49	180.64	184.84	181.98	180.29	180.02	179.44	179.00	
11	178.90	178.94	179.51	180.93	180.52	180.58	184.85	182.60	180.29	180.06	179.40	179.00	
12	178.89	178.95	179.60	180.60	180.54	180.54	184.85	183.07	180.27	180.08	179.37	178.98	
13	178.91	178.97	179.58	180.50	180.47	180.62	184.83	183.16	180.27	180.05	179.34	178.97	
14	178.92	179.00	179.45	180.41	180.42	181.56	184.78	183.03	180.27	180.04	179.30	178.96	
15	178.94	179.02	179.30	180.37	180.40	181.99	184.70	182.83	180.25	180.02	179.27	178.96	
16	178.93	179.02	179.19	180.37	180.43	182.40	184.36	182.62	180.24	180.01	179.23	178.94	
17	178.92	179.03	179.12	180.34	180.38	182.92	184.15	182.36	180.24	180.04	179.19	178.92	
18	178.90	179.04	179.08	180.29	180.32	183.19	183.99	181.99	180.22	180.04	179.16	178.90	
19	178.90	179.05	179.05	180.24	180.31	183.37	183.90	181.66	180.22	180.04	179.12	178.90	
20	178.89	179.04	179.03	180.22	180.19	183.50	183.83	181.43	180.21	180.07	179.10	178.90	
21	178.89	179.05	179.01	180.22	180.07	183.67	183.72	181.16	180.23	180.03	179.08	178.91	
22	178.89	179.08	179.17	180.23	179.99	183.83	183.55	181.00	180.25	179.96	179.06	178.92	
23	178.89	179.09	179.56	180.37	180.02	184.01	183.36	180.87	180.25	179.91	179.05	178.94	
24	178.88	179.10	179.90	180.48	179.96	184.20	183.20	180.77	180.23	179.92	179.04	178.97	
25	178.87	179.08	180.12	180.57	179.93	184.41	182.84	180.61	180.22	179.98	179.03	179.01	
26	178.86	179.02	180.39	180.85	180.32	184.63	182.68	180.60	180.21	179.98	179.02	179.03	
27	178.87	179.00	180.51	181.07	180.46	184.82	182.58	180.59	180.21	179.95	179.00	179.08	
28	178.93	179.00	180.47	180.74	180.57	184.96	182.63	180.57	180.21	179.92	179.00	179.10	
29	178.94	178.99	180.45	180.64	180.78	185.11	182.70	180.53	180.21	179.88		179.09	
30	178.96	178.98	180.49	180.94	181.34	185.44	182.83	180.50	180.20	179.81		179.08	
31		178.98		181.62	182.04		182.84		180.20	179.72		179.07	
Mean	178.92	179.01	179.45	180.60	180.55	182.63	184.13	181.79	180.28	180.03	179.31	178.99	
Max	178.97	179.10	180.51	181.62	182.04	185.44	185.61	183.16	180.47	180.20	179.70	179.10	185.61
Min	178.86	178.94	178.98	180.22	179.93	180.54	182.58	180.50	180.20	179.72	179.00	178.90	178.86

Annual Max Momentary Gage Height 185.63 m. (MSL.) , at 10.00 Hours, on Oct 1, 2016

Zero Gage at Bottom Elevation 176.20 m. (MSL.) , River Bed 177.33 m. (MSL.)

Left Bank Elevation 187.27 m. (MSL.) ,

Right Bank Elevation 187.62 m. (MSL.) , Drainage Are 6282 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	14.20	52.26	74.86	335.46	95.50	12.40	8.00	3.00	0.00	
2	0.00	0.04	0.04	14.80	40.25	73.60	320.58	90.00	11.80	8.00	2.90	0.00	
3	0.00	0.08	0.00	15.80	19.10	61.42	292.22	82.00	12.00	7.85	2.80	0.04	
4	0.00	0.08	0.00	17.00	15.20	48.08	262.74	74.44	11.60	7.70	2.70	0.04	
5	0.00	0.04	0.00	19.70	13.20	30.80	245.06	66.04	10.70	7.70	2.60	0.12	
6	0.00	0.00	0.00	18.20	13.20	21.80	242.12	61.00	10.40	7.70	2.50	0.16	
7	0.00	0.00	0.00	16.00	12.40	19.70	237.22	54.54	10.40	7.40	2.30	0.04	
8	0.00	0.00	0.12	15.60	12.40	16.80	233.30	51.12	9.65	6.35	2.10	0.00	
9	0.00	0.00	0.40	15.60	12.40	17.00	233.30	51.88	9.20	5.15	1.92	0.00	
10	0.00	0.00	1.16	17.90	12.80	15.80	232.32	60.24	9.35	5.30	1.76	0.00	
11	0.00	0.00	2.05	23.90	13.40	14.60	233.30	87.00	9.35	5.90	1.60	0.00	
12	0.00	0.00	2.50	15.00	13.80	13.80	233.30	110.78	9.05	6.20	1.48	0.00	
13	0.00	0.00	2.40	13.00	12.40	15.40	231.34	115.64	9.05	5.75	1.36	0.00	
14	0.00	0.00	1.80	11.20	11.40	44.28	226.44	108.62	9.05	5.60	1.20	0.00	
15	0.00	0.08	1.20	10.55	11.00	60.62	218.60	98.50	8.75	5.30	1.08	0.00	
16	0.00	0.08	0.76	10.55	11.60	77.80	189.20	88.00	8.60	5.15	0.92	0.00	
17	0.00	0.12	0.48	10.10	10.70	103.00	174.50	76.12	8.60	5.60	0.76	0.00	
18	0.00	0.16	0.32	9.35	9.80	117.26	163.40	60.62	8.30	5.60	0.64	0.00	
19	0.00	0.20	0.20	8.60	9.65	126.98	158.00	48.08	8.30	5.60	0.48	0.00	
20	0.00	0.16	0.12	8.30	7.85	134.00	153.80	39.55	8.15	6.05	0.40	0.00	
21	0.00	0.20	0.04	8.30	6.05	144.20	147.20	30.80	8.45	5.45	0.32	0.00	
22	0.00	0.32	0.68	8.45	4.90	153.80	137.00	26.00	8.75	4.60	0.24	0.00	
23	0.00	0.36	2.30	10.55	5.30	164.70	126.44	22.10	8.75	4.10	0.20	0.00	
24	0.00	0.40	4.00	12.60	4.60	178.00	117.80	19.10	8.45	4.20	0.16	0.00	
25	0.00	0.32	6.80	14.40	4.30	192.70	99.00	15.20	8.30	4.80	0.12	0.04	
26	0.00	0.08	10.85	21.50	9.80	211.74	91.00	15.00	8.15	4.80	0.08	0.12	
27	0.00	0.00	13.20	28.10	12.20	230.36	86.00	14.80	8.15	4.50	0.00	0.32	
28	0.00	0.00	12.40	18.20	14.40	244.08	88.50	14.40	8.15	4.20	0.00	0.40	
29	0.00	0.00	12.00	15.80	19.40	262.74	92.00	13.60	8.15	3.90		0.36	
30	0.00	0.00	12.80	24.20	36.40	306.96	98.50	13.00	8.00	3.55		0.32	
31		0.00		46.56	62.68		99.00		8.00	3.10		0.28	
Total	0.00	2.72	88.62	494.01	494.84	3176.88	5798.64	1703.67	286.00	175.10	35.62	2.24	12258.34 CMSDAY
Mean	0.00	0.09	2.95	15.94	15.96	105.90	187.05	56.79	9.23	5.65	1.27	0.07	33.58 CMS
Max	0.00	0.40	13.20	46.56	62.68	306.96	335.46	115.64	12.40	8.00	3.00	0.40	335.46 CMS
Min	0.00	0.00	0.00	8.30	4.30	13.80	86.00	13.00	8.00	3.10	0.00	0.00	0.00 CMS
Runoff	0.00	0.24	7.66	42.68	42.75	274.48	501.00	147.20	24.71	15.13	3.08	0.19	1059.12 MCM

Momentary Peak 339.18 CMS, at 185.63 m. (MSL.), at 10.00 Hours, on Oct 1, 2016

Runoff Yield 5.35 Liters/Second/Square KM. Momentary Peak Yield 53.990 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

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

Drainge Area	949 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+225.000 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	In front of the automatic gage buiding. **Elevation** +241.401 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1956 - 1958 , 1967 to date
Rating Operation	
Period of Rating	1978 to date
Rated by Flot	-
Rated by Current Meter	1978 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Ubonrat Dam.
	Stage-discharge relation defined by 49 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

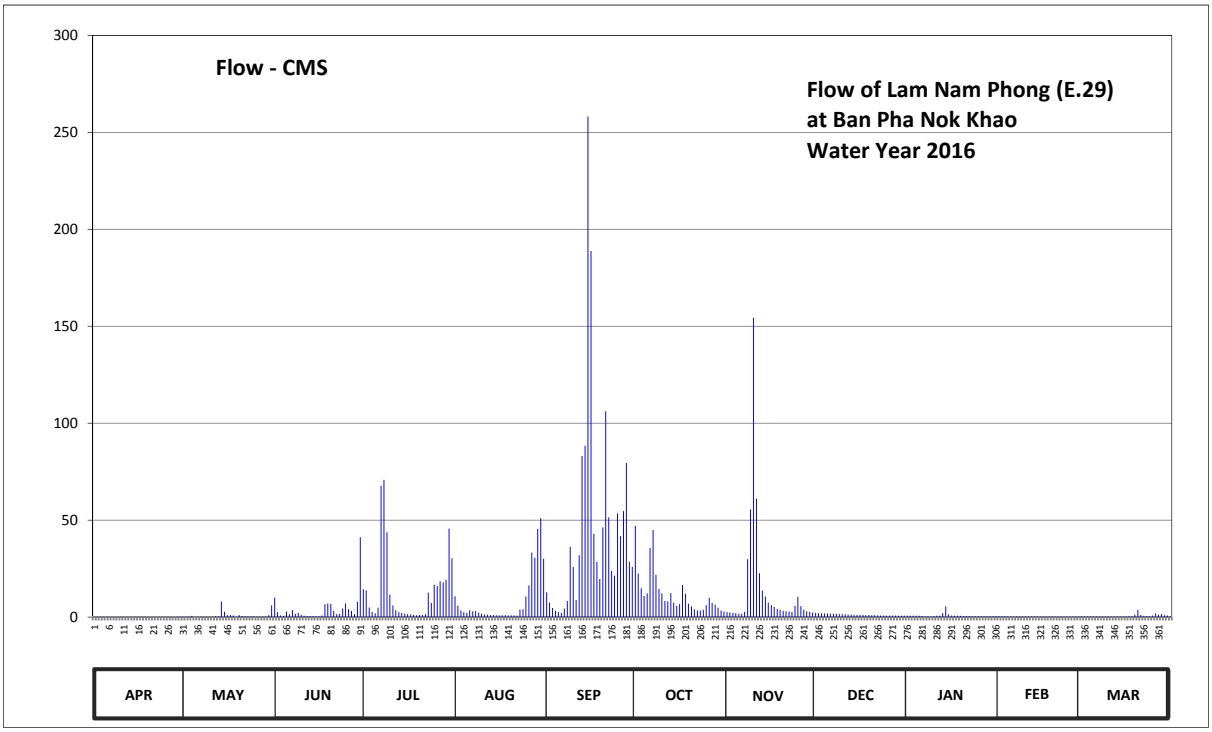
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.70	225.73	227.88	228.32	227.98	228.17	231.00	226.70	226.60	226.06	225.90	225.86	
2	225.74	225.72	226.69	228.27	227.32	227.55	229.10	226.65	226.55	226.05	225.90	225.86	
3	225.74	225.73	226.14	227.16	226.89	227.11	228.37	226.60	226.53	226.06	225.89	225.86	
4	225.72	226.04	226.04	226.73	226.69	226.84	227.99	226.54	226.51	226.06	225.85	225.86	
5	225.71		226.78	226.52	226.61	226.68	228.12	226.48	226.49	226.05	225.83	225.86	
6	225.71	225.80	226.33	227.14	226.91	226.57	230.21	226.44	226.46	226.00	225.84	225.85	
7	225.70	225.76	226.92	232.25	226.81	227.08	230.86	226.72	226.43	225.88	225.87	225.84	
8	225.70	225.75	226.44	232.41	226.85	227.66	229.04	229.74	226.44	225.87	225.87	225.85	
9	225.70	225.76	226.60	230.78	226.62	230.25	228.34	231.56	226.39	225.88	225.87	225.85	
10	225.71	225.74	226.24	228.05	226.44	229.40	228.12	234.94	226.36	225.93	225.87	225.85	
11	225.71	225.72	226.07	227.33	226.34	227.73	227.67	231.89	226.34	226.05	225.86	225.83	
12	225.70	225.90	225.99	226.91	226.27	229.91	227.64	229.11	226.31	226.06	225.86	225.83	
13	225.69	225.88	225.97	226.69	226.23	232.94	228.13	228.26	226.30	226.55	225.85	225.83	
14	225.70	227.64	225.93	226.55	226.21	233.13	227.55	227.96	226.26	227.25	225.85	225.83	
15	225.70	226.75	225.90	226.46	226.19	236.70	227.30	227.56	226.26	226.32	225.84	225.83	
16	225.69	226.18	225.89	226.39	226.17	235.58	227.46	227.36	226.25	226.12	225.84	225.85	
17	225.68	226.22	226.11	226.33	226.18	230.73	228.54	227.21	226.24	226.06	225.84	225.87	
18	225.68	226.09	227.45	226.26	226.18	229.63	228.10	227.03	226.20	226.05	225.84	225.85	
19	225.68		227.50	226.19	226.16	228.83	227.49	226.94	226.21	226.03	225.84	226.27	
20	225.68	226.22	227.47	226.23	226.17	230.95	227.25	226.86	226.19	225.99	225.84	226.95	
21	225.68	225.99	226.82	226.26	226.14	233.70	227.01	226.81	226.18	225.97	225.84	226.21	
22	225.68	225.90	226.39	226.37	226.13	231.30	226.90	226.77	226.17	225.94	225.83	226.02	
23	225.68	225.86	226.41	228.16	226.97	229.22	226.90	226.73	226.09	225.92	225.82	225.96	
24	225.67	225.87	227.07	227.53	227.01	229.00	226.95	227.29	226.13	225.91	225.83	225.91	
25	225.67	225.87	227.51	228.55	227.96	231.43	227.36	227.93	226.08	225.91	225.84	226.12	
26	225.68	225.84	227.00	228.48	228.51	230.65	227.87	227.28	226.12	225.91	225.83	226.49	
27	225.68	225.84	226.84	228.72	230.02	231.51	227.54	226.95	226.13	225.91	225.83	226.28	
28	225.68	225.84	226.40	228.66	229.81	232.79	227.40	226.80	226.10	225.92	225.83	226.39	
29	225.72	225.84	227.60	228.80	230.90	229.63	227.15	226.71	226.08	225.92		226.19	
30	225.74	226.18	230.61	230.91	231.27	229.40	226.88	226.65	226.08	225.91		226.11	
31		227.34		229.78	229.76		226.77		226.07	225.91		225.90	
Mean	225.70	226.03	226.77	227.91	227.28	230.07	227.97	227.75	226.28	226.05	225.85	226.00	
Max	225.74	227.64	230.61	232.41	231.27	236.70	231.00	234.94	226.60	227.25	225.90	226.95	236.70
Min	225.67	225.72	225.89	226.19	226.13	226.57	226.77	226.44	226.07	225.87	225.82	225.83	225.67

Annual Max Momentary Gage Height 237.43 m. (MSL.) , at 18.00 Hours, on Sep 15, 2016

Zero Gage at Bottom Elevation 225.00 m. (MSL.) , River Bed 227.72 m. (MSL.)

Left Bank Elevation 237.98 m. (MSL.) ,

Right Bank Elevation 238.09 m. (MSL.) , Drainage Are 949 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.13	10.04	14.33	10.84	12.77	47.00	2.60	2.20	0.72	0.40	0.32		
2	0.14	0.12	2.56	13.81	5.92	7.40	22.52	2.40	2.05	0.70	0.40	0.32		
3	0.14	0.13	0.88	4.96	3.45	4.66	14.85	2.20	1.99	0.72	0.38	0.32		
4	0.12	0.68	0.68	2.72	2.56	3.20	10.92	2.02	1.93	0.72	0.30	0.32		
5	0.11		2.92	1.96	2.24	2.52	12.25	1.84	1.87	0.70	0.26	0.32		
6	0.11	0.20	1.39	4.84	3.55	2.11	35.73	1.72	1.78	0.60	0.28	0.30		
7	0.10	0.16	3.60	67.75	3.05	4.48	44.90	2.68	1.69	0.36	0.34	0.28		
8	0.10	0.15	1.72	70.79	3.25	8.28	21.85	29.88	1.72	0.34	0.34	0.30		
9	0.10	0.16	2.20	43.70	2.28	36.25	14.54	55.52	1.57	0.36	0.34	0.30		
10	0.11	0.14	1.12	11.52	1.72	25.88	12.25	154.36	1.48	0.46	0.34	0.30		
11	0.11	0.12	0.74	5.98	1.42	8.84	8.36	61.13	1.42	0.70	0.32	0.26		
12	0.10	0.40	0.58	3.55	1.21	31.92	8.12	22.63	1.33	0.72	0.32	0.26		
13	0.09	0.36	0.54	2.56	1.09	83.06	12.35	13.70	1.30	2.05	0.30	0.26		
14	0.10	8.12	0.46	2.05	1.03	88.40	7.40	10.68	1.18	5.50	0.30	0.26		
15	0.10	2.80	0.40	1.78	0.98	258.20	5.80	7.48	1.18	1.36	0.28	0.26		
16	0.09	0.96	0.38	1.57	0.94	188.80	6.76	6.16	1.15	0.84	0.28	0.30		
17	0.08	1.06	0.82	1.39	0.96	42.95	16.62	5.26	1.12	0.72	0.28	0.34		
18	0.08	0.78	6.70	1.18	0.96	28.56	12.04	4.18	1.00	0.70	0.28	0.30		
19	0.08		7.00	0.98	0.92	19.63	6.94	3.70	1.03	0.66	0.28	1.21		
20	0.08	1.06	6.82	1.09	0.94	46.25	5.50	3.30	0.98	0.58	0.28	3.75		
21	0.08	0.58	3.10	1.18	0.88	106.10	4.06	3.05	0.96	0.54	0.28	1.03		
22	0.08	0.40	1.57	1.51	0.86	51.50	3.50	2.88	0.94	0.48	0.26	0.64		
23	0.08	0.32	1.63	12.66	3.85	23.86	3.50	2.72	0.78	0.44	0.24	0.52		
24	0.07	0.34	4.42	7.24	4.06	21.40	3.75	5.74	0.86	0.42	0.26	0.42		
25	0.07	0.34	7.08	16.72	10.68	53.45	6.16	10.44	0.76	0.42	0.28	0.84		
26	0.08	0.28	4.00	15.99	16.30	41.75	9.96	5.68	0.84	0.42	0.26	1.87		
27	0.08	0.28	3.20	18.49	33.26	54.67	7.32	3.75	0.86	0.42	0.26	1.24		
28	0.08	0.28	1.60	17.86	30.72	79.46	6.40	3.00	0.80	0.44	0.26	1.57		
29	0.12	0.28	7.80	19.32	45.50	28.56	4.90	2.64	0.76	0.44		0.98		
30	0.14	0.96	41.15	45.65	51.05	25.88	3.40	2.40	0.76	0.42		0.82		
31		6.04		30.36	30.12		2.88		0.74	0.42		0.40		
Total	2.92	27.63	127.10	445.49	276.59	1390.79	382.53	435.74	39.03	24.37	8.40	20.61	3181.20	CMSDAY
Mean	0.10	0.95	4.24	14.37	8.92	46.36	12.34	14.52	1.26	0.79	0.30	0.66	8.76	CMS
Max	0.14	8.12	41.15	70.79	51.05	258.20	47.00	154.36	2.20	5.50	0.40	3.75	258.20	CMS
Min	0.07	0.12	0.38	0.98	0.86	2.11	2.88	1.72	0.74	0.34	0.24	0.26	0.07	CMS
Runoff	0.25	2.39	10.98	38.49	23.90	120.16	33.05	37.65	3.37	2.11	0.73	1.78	274.86	MCM

Momentary Peak 312.40 CMS, at 237.43 m. (MSL.), at 18.00 Hours, on Sep 15, 2016

Runoff Yield 9.18 Liters/Second/Square KM. Momentary Peak Yield 329.190 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban Nong O	**Amphoe** Ban Khwao	**Changwat** Chaiyaphum
Drainge Area	2,867 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+198.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the measuring line.	**Elevation**	+211.424 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1968 to date		
Rated by Flot	-		
Rated by Current Meter	1968 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

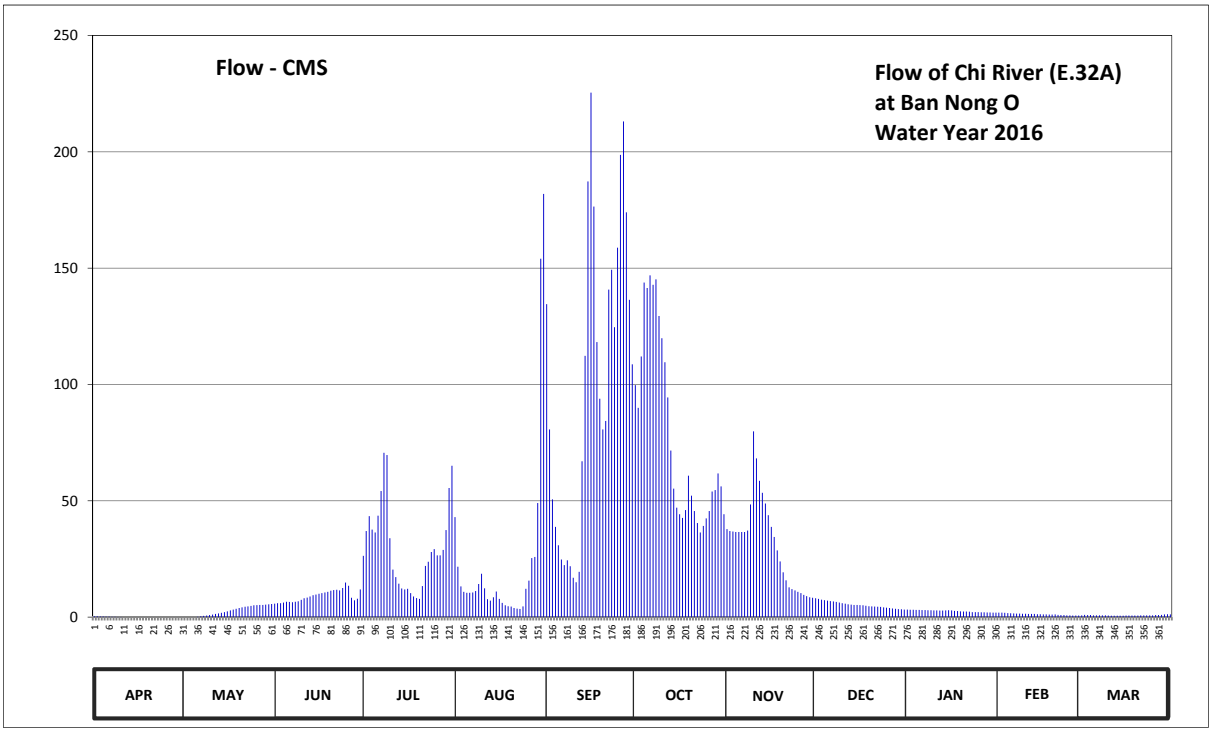
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.35	198.25	199.02	200.52	201.40	204.95	203.74	201.14	199.26	198.72	198.55	198.41	
2	198.35	198.25	199.04	201.10	200.23	203.06	203.39	201.10	199.23	198.71	198.55	198.43	
3	198.34	198.25	199.04	201.42	199.66	201.78	204.18	201.09	199.20	198.71	198.54	198.42	
4	198.34	198.26	199.07	201.13	199.48	201.19	205.23	201.08	199.18	198.70	198.53	198.42	
5	198.33	198.28	199.11	201.07	199.45	200.77	205.16	201.08	199.16	198.70	198.52	198.41	
6	198.33	198.32	199.10	201.43	199.45	200.42	205.32	201.08	199.14	198.69	198.51	198.41	
7	198.32	198.35	199.09	201.96	199.46	200.27	205.20	201.08	199.12	198.69	198.50	198.41	
8	198.32	198.38	199.11	202.65	199.51	200.40	205.27	201.11	199.10	198.68	198.50	198.41	
9	198.31	198.40	199.13	202.61	199.74	200.24	204.78	201.67	199.07	198.68	198.49	198.41	
10	198.31	198.42	199.19	200.94	200.04	199.93	204.46	203.03	199.04	198.67	198.49	198.40	
11	198.30	198.45	199.26	200.15	199.60	199.80	204.09	202.55	199.02	198.67	198.48	198.39	
12	198.30	198.48	199.29	199.95	199.22	200.09	203.55	202.15	198.99	198.66	198.48	198.39	
13	198.29	198.51	199.33	199.75	199.16	202.50	202.69	201.92	198.97	198.66	198.48	198.39	
14	198.29	198.54	199.37	199.59	199.30	204.19	202.01	201.69	198.96	198.67	198.47	198.39	
15	198.29	198.58	199.39	199.56	199.49	206.48	201.60	201.44	198.96	198.68	198.47	198.39	
16	198.28	198.62	199.42	199.58	199.23	207.46	201.46	201.19	198.95	198.67	198.46	198.40	
17	198.28	198.67	199.44	199.44	199.06	206.18	201.38	200.97	198.94	198.65	198.46	198.40	
18	198.27	198.72	199.46	199.33	198.94	204.40	201.55	200.65	198.92	198.64	198.45	198.40	
19	198.27	198.76	199.48	199.27	198.90	203.53	202.24	200.37	198.90	198.62	198.45	198.40	
20	198.27	198.80	199.52	199.23	198.88	203.06	201.86	200.08	198.89	198.61	198.46	198.40	
21	198.26	198.84	199.54	199.67	198.80	203.19	201.53	199.86	198.88	198.61	198.43	198.41	
22	198.26	198.87	199.55	200.25	198.77	205.14	201.27	199.63	198.87	198.60	198.42	198.41	
23	198.26	198.89	199.53	200.36	198.75	205.39	201.07	199.57	198.86	198.58	198.42	198.41	
24	198.26	198.91	199.61	200.61	198.89	204.62	201.21	199.53	198.84	198.58	198.41	198.41	
25	198.25	198.94	199.79	200.68	199.58	205.67	201.37	199.48	198.82	198.58	198.41	198.41	
26	198.25	198.95	199.68	200.53	199.85	206.78	201.53	199.44	198.80	198.57	198.40	198.42	
27	198.25	198.96	199.28	200.53	200.46	207.15	201.95	199.38	198.78	198.57	198.40	198.42	
28	198.25	198.96	199.17	200.66	200.49	206.11	201.98	199.34	198.76	198.56	198.40	198.43	
29	198.25	198.97	199.24	201.12	201.70	205.01	202.28	199.30	198.74	198.56		198.46	
30	198.25	198.99	199.56	202.02	205.53	204.06	202.05	199.28	198.73	198.55		198.47	
31		199.00		202.42	206.33		201.46		198.72	198.55		198.46	
Mean	198.29	198.63	199.33	200.63	199.98	203.46	202.80	200.71	198.96	198.64	198.47	198.41	
Max	198.35	199.00	199.79	202.65	206.33	207.46	205.32	203.03	199.26	198.72	198.55	198.47	207.46
Min	198.25	198.25	199.02	199.23	198.75	199.80	201.07	199.28	198.72	198.55	198.40	198.39	198.25

Annual Max Momentary Gage Height 207.61 m. (MSL.) , at 11.00 Hours, on Sep 16, 2016

Zero Gage at Bottom Elevation 198.00 m. (MSL.) , River Bed 197.35 m. (MSL.)

Left Bank Elevation 211.16 m. (MSL.) ,

Right Bank Elevation 211.18 m. (MSL.) , Drainage Are 2867 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	0.00	5.78	26.36	43.00	134.50	99.72	37.80	8.10	3.26	1.90	0.78		
2	0.35	0.00	5.96	37.00	21.68	80.68	89.92	37.00	7.80	3.18	1.90	0.94		
3	0.28	0.00	5.96	43.40	13.18	50.60	112.04	36.80	7.50	3.18	1.82	0.86		
4	0.28	0.00	6.23	37.60	10.84	38.80	143.82	36.60	7.30	3.10	1.74	0.86		
5	0.21	0.00	6.60	36.40	10.45	30.86	141.44	36.60	7.10	3.10	1.66	0.78		
6	0.21	0.14	6.50	43.60	10.45	24.72	146.88	36.60	6.90	3.02	1.58	0.78		
7	0.14	0.35	6.41	54.20	10.58	22.32	142.80	36.60	6.70	3.02	1.50	0.78		
8	0.14	0.56	6.60	70.60	11.23	24.40	145.18	37.20	6.50	2.94	1.50	0.78		
9	0.07	0.70	6.80	69.64	14.22	21.84	129.40	48.40	6.23	2.94	1.42	0.78		
10	0.07	0.86	7.40	33.92	18.64	16.88	119.88	79.84	5.96	2.86	1.42	0.70		
11	0.00	1.10	8.10	20.40	12.40	15.00	109.52	68.20	5.78	2.86	1.34	0.63		
12	0.00	1.34	8.40	17.20	7.70	19.44	94.40	58.60	5.51	2.78	1.34	0.63		
13	0.00	1.58	8.89	14.35	7.10	67.00	71.56	53.40	5.33	2.78	1.34	0.63		
14	0.00	1.82	9.41	12.27	8.50	112.32	55.24	48.80	5.24	2.86	1.26	0.63		
15	0.00	2.14	9.67	11.88	10.97	187.28	47.00	43.80	5.24	2.94	1.26	0.63		
16	0.00	2.46	10.06	12.14	7.80	225.40	44.20	38.80	5.15	2.86	1.18	0.70		
17	0.00	2.86	10.32	10.32	6.14	176.48	42.60	34.46	5.06	2.70	1.18	0.70		
18	0.00	3.26	10.58	8.89	5.06	118.20	46.00	28.70	4.88	2.62	1.10	0.70		
19	0.00	3.58	10.84	8.20	4.70	93.84	60.76	23.92	4.70	2.46	1.10	0.70		
20	0.00	3.90	11.36	7.80	4.54	80.68	52.20	19.28	4.62	2.38	1.18	0.70		
21	0.00	4.22	11.62	13.31	3.90	84.32	45.60	15.84	4.54	2.38	0.94	0.78		
22	0.00	4.46	11.75	22.00	3.66	140.76	40.40	12.79	4.46	2.30	0.86	0.78		
23	0.00	4.62	11.49	23.76	3.50	149.26	36.40	12.01	4.38	2.14	0.86	0.78		
24	0.00	4.79	12.53	27.98	4.62	124.60	39.20	11.49	4.22	2.14	0.78	0.78		
25	0.00	5.06	14.87	29.24	12.14	158.78	42.40	10.84	4.06	2.14	0.78	0.78		
26	0.00	5.15	13.44	26.54	15.70	198.64	45.60	10.32	3.90	2.06	0.70	0.86		
27	0.00	5.24	8.30	26.54	25.36	213.00	54.00	9.54	3.74	2.06	0.70	0.86		
28	0.00	5.24	7.20	28.88	25.84	173.96	54.60	9.02	3.58	1.98	0.70	0.94		
29	0.00	5.33	7.90	37.40	49.00	136.34	61.72	8.50	3.42	1.98		1.18		
30	0.00	5.51	11.88	55.48	154.02	108.68	56.20	8.30	3.34	1.90		1.26		
31		5.60		65.08	181.88		44.20		3.26	1.90		1.18		
Total	2.10	81.87	272.85	932.38	718.80	3029.58	2414.88	950.05	164.50	80.82	35.04	24.87	8707.74	CMSDAY
Mean	0.07	2.64	9.10	30.08	23.19	100.99	77.90	31.67	5.31	2.61	1.25	0.80	23.86	CMS
Max	0.35	5.60	14.87	70.60	181.88	225.40	146.88	79.84	8.10	3.26	1.90	1.26	225.40	CMS
Min	0.00	0.00	5.78	7.80	3.50	15.00	36.40	8.30	3.26	1.90	0.70	0.63	0.00	CMS
Runoff	0.18	7.07	23.57	80.56	62.10	261.76	208.65	82.08	14.21	6.98	3.03	2.15	752.35	MCM

Momentary Peak 231.40 CMS, at 207.61 m. (MSL.), at 11.00 Hours, on Sep 16, 2016

Runoff Yield 8.32 Liters/Second/Square KM. Momentary Peak Yield 80.710 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban Kaeng Yao	**Amphoe** Kuchinarai	**Changwat** Kalasin
Drainge Area	1,548 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+138.300 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+149.988 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1969 - 1977 , 1983 to date		
Rated by Flot	-		
Rated by Current Meter	1969 - 1977 , 1983 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 9 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

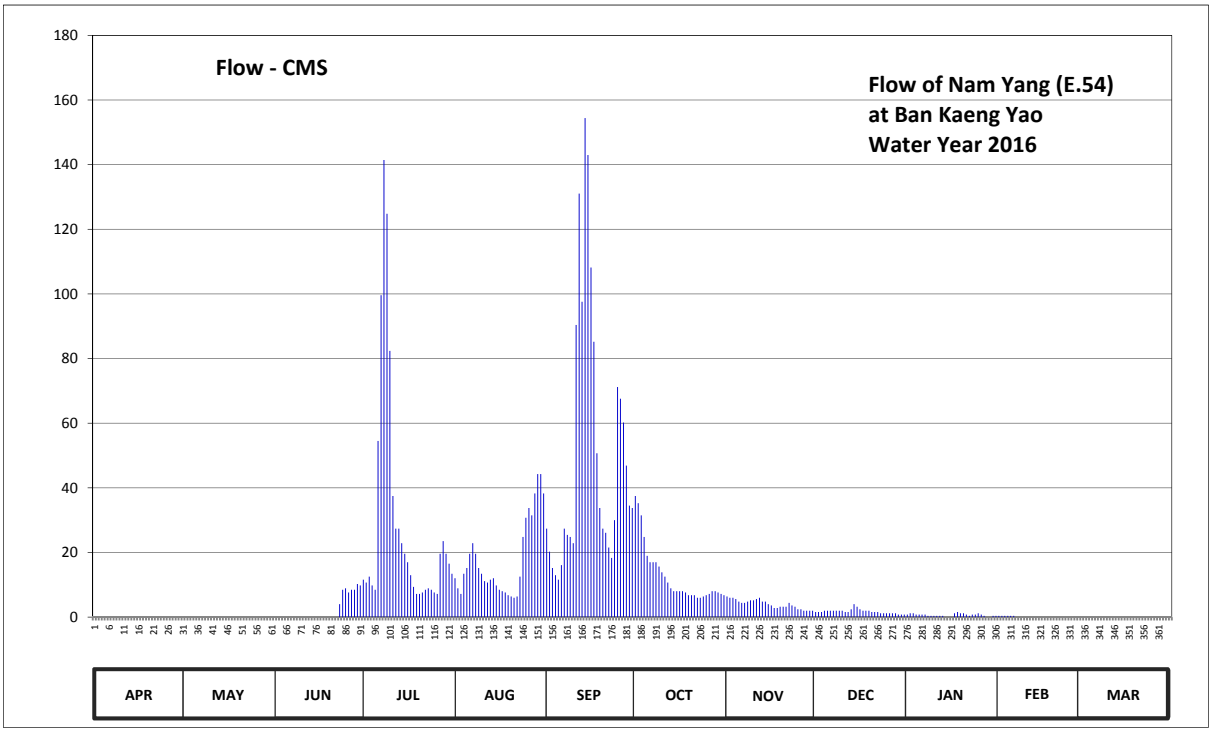
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.06	140.03	139.99	140.48	140.49	140.76	140.90	140.36	140.24	140.22	140.21	140.11	
2	140.06	140.03	140.02	140.46	140.42	140.65	140.87	140.35	140.24	140.23	140.21	140.10	
3	140.06	140.04	140.03	140.50	140.38	140.56	140.82	140.35	140.24	140.23	140.21	140.09	
4	140.06	140.04	140.03	140.44	140.52	140.51	140.72	140.34	140.25	140.22	140.21	140.09	
5	140.05	140.04	140.02	140.41	140.56	140.48	140.63	140.32	140.25	140.22	140.21	140.08	
6	140.04	140.04	140.03	141.10	140.64	140.58	140.60	140.31	140.25	140.22	140.21	140.08	
7	140.04	140.03	140.03	141.89	140.69	140.76	140.60	140.31	140.25	140.22	140.20	140.07	
8	140.03	140.02	140.04	142.72	140.64	140.73	140.60	140.32	140.25	140.21	140.20	140.07	
9	140.03	140.02	140.03	142.40	140.56	140.72	140.57	140.33	140.25	140.21	140.19	140.07	
10	140.02	140.02	140.02	141.46	140.52	140.69	140.53	140.33	140.25	140.21	140.19	140.07	
11	140.02	140.01	140.00	140.90	140.47	141.66	140.50	140.34	140.24	140.21	140.18	140.05	
12	140.01	140.01	139.99	140.76	140.46	142.52	140.46	140.35	140.24	140.21	140.18	140.04	
13	140.00	140.00	139.98	140.76	140.48	141.84	140.42	140.32	140.26	140.21	140.17	140.04	
14	140.00	139.99	139.98	140.69	140.49	142.97	140.40	140.32	140.30	140.20	140.17	140.03	
15	140.00	139.98	139.99	140.64	140.44	142.75	140.40	140.30	140.28	140.20	140.17	140.03	
16	139.99	139.98	140.01	140.60	140.41	142.08	140.40	140.29	140.26	140.20	140.17	140.03	
17	139.98	139.97	140.03	140.51	140.40	141.53	140.40	140.27	140.25	140.23	140.17	140.03	
18	139.97	139.97	140.04	140.43	140.39	141.06	140.39	140.27	140.25	140.24	140.17	140.03	
19	139.97	139.96	140.04	140.38	140.37	140.85	140.37	140.28	140.25	140.23	140.15	140.04	
20	139.99	139.97	140.03	140.38	140.36	140.76	140.37	140.28	140.24	140.23	140.14	140.05	
21	140.01	140.00	140.02	140.39	140.35	140.74	140.37	140.28	140.24	140.22	140.14	140.04	
22	140.01	140.00	140.08	140.41	140.36	140.67	140.35	140.31	140.24	140.21	140.14	140.04	
23	140.01	140.00	140.30	140.42	140.50	140.62	140.35	140.29	140.23	140.22	140.14	140.05	
24	140.01	140.00	140.41	140.41	140.72	140.80	140.36	140.28	140.23	140.22	140.13	140.04	
25	140.01	140.00	140.42	140.39	140.81	141.26	140.37	140.26	140.23	140.23	140.13	140.04	
26	140.00	140.00	140.39	140.38	140.85	141.23	140.38	140.26	140.23	140.22	140.12	140.04	
27	139.99	140.00	140.41	140.64	140.82	141.16	140.40	140.25	140.23	140.21	140.11	140.04	
28	139.98	139.99	140.41	140.70	140.91	141.02	140.40	140.25	140.23	140.20	140.11	140.03	
29	139.99	139.98	140.45	140.64	140.99	140.86	140.39	140.25	140.22	140.20		140.03	
30	140.00	139.97	140.44	140.59	140.99	140.85	140.38	140.25	140.22	140.21		140.02	
31		139.96		140.52	140.91		140.37		140.22	140.21		140.02	
Mean	140.01	140.00	140.12	140.75	140.58	141.12	140.49	140.30	140.24	140.22	140.17	140.05	
Max	140.06	140.04	140.45	142.72	140.99	142.97	140.90	140.36	140.30	140.24	140.21	140.11	142.97
Min	139.97	139.96	139.98	140.38	140.35	140.48	140.35	140.25	140.22	140.20	140.11	140.02	139.96

Annual Max Momentary Gage Height 143.18 m. (MSL.) , at 18.00 Hours, on Sep 14, 2016

Zero Gage at Bottom Elevation 138.30 m. (MSL.) , River Bed 137.89 m. (MSL.)

Left Bank Elevation 147.05 m. (MSL.) ,

Right Bank Elevation 147.05 m. (MSL.) , Drainage Are 1,548 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	11.60	12.05	27.40	37.50	6.40	1.60	0.80	0.40	0.00	
2	0.00	0.00	0.00	10.70	8.90	20.25	35.25	6.00	1.60	1.20	0.40	0.00	
3	0.00	0.00	0.00	12.50	7.20	15.20	31.50	6.00	1.60	1.20	0.40	0.00	
4	0.00	0.00	0.00	9.80	13.40	12.95	24.80	5.60	2.00	0.80	0.40	0.00	
5	0.00	0.00	0.00	8.45	15.20	11.60	18.95	4.80	2.00	0.80	0.40	0.00	
6	0.00	0.00	0.00	54.50	19.60	16.10	17.00	4.40	2.00	0.80	0.40	0.00	
7	0.00	0.00	0.00	99.60	22.85	27.40	17.00	4.40	2.00	0.80	0.00	0.00	
8	0.00	0.00	0.00	141.44	19.60	25.45	17.00	4.80	2.00	0.40	0.00	0.00	
9	0.00	0.00	0.00	124.80	15.20	24.80	15.65	5.20	2.00	0.40	0.00	0.00	
10	0.00	0.00	0.00	82.40	13.40	22.85	13.85	5.20	2.00	0.40	0.00	0.00	
11	0.00	0.00	0.00	37.50	11.15	90.40	12.50	5.60	1.60	0.40	0.00	0.00	
12	0.00	0.00	0.00	27.40	10.70	131.04	10.70	6.00	1.60	0.40	0.00	0.00	
13	0.00	0.00	0.00	27.40	11.60	97.60	8.90	4.80	2.40	0.40	0.00	0.00	
14	0.00	0.00	0.00	22.85	12.05	154.44	8.00	4.80	4.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	19.60	9.80	143.00	8.00	4.00	3.20	0.00	0.00	0.00	
16	0.00	0.00	0.00	17.00	8.45	108.16	8.00	3.60	2.40	0.00	0.00	0.00	
17	0.00	0.00	0.00	12.95	8.00	85.20	8.00	2.80	2.00	1.20	0.00	0.00	
18	0.00	0.00	0.00	9.35	7.60	50.70	7.60	2.80	2.00	1.60	0.00	0.00	
19	0.00	0.00	0.00	7.20	6.80	33.75	6.80	3.20	2.00	1.20	0.00	0.00	
20	0.00	0.00	0.00	7.20	6.40	27.40	6.80	3.20	1.60	1.20	0.00	0.00	
21	0.00	0.00	0.00	7.60	6.00	26.10	6.80	3.20	1.60	0.80	0.00	0.00	
22	0.00	0.00	0.00	8.45	6.40	21.55	6.00	4.40	1.60	0.40	0.00	0.00	
23	0.00	0.00	4.00	8.90	12.50	18.30	6.00	3.60	1.20	0.80	0.00	0.00	
24	0.00	0.00	8.45	8.45	24.80	30.00	6.40	3.20	1.20	0.80	0.00	0.00	
25	0.00	0.00	8.90	7.60	30.75	71.20	6.80	2.40	1.20	1.20	0.00	0.00	
26	0.00	0.00	7.60	7.20	33.75	67.60	7.20	2.40	1.20	0.80	0.00	0.00	
27	0.00	0.00	8.45	19.60	31.50	60.20	8.00	2.00	1.20	0.40	0.00	0.00	
28	0.00	0.00	8.45	23.50	38.25	46.90	8.00	2.00	1.20	0.00	0.00	0.00	
29	0.00	0.00	10.25	19.60	44.25	34.50	7.60	2.00	0.80	0.00		0.00	
30	0.00	0.00	9.80	16.55	44.25	33.75	7.20	2.00	0.80	0.40		0.00	
31		0.00		13.40	38.25		6.80		0.80	0.40		0.00	
Total	0.00	0.00	65.90	885.09	550.65	1535.79	390.60	120.80	54.40	20.00	2.40	0.00	3625.63	CMSDAY
Mean	0.00	0.00	2.20	28.55	17.76	51.19	12.60	4.03	1.75	0.65	0.09	0.00	9.93	CMS
Max	0.00	0.00	10.25	141.44	44.25	154.44	37.50	6.40	4.00	1.60	0.40	0.00	154.44	CMS
Min	0.00	0.00	0.00	7.20	6.00	11.60	6.00	2.00	0.80	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	5.69	76.47	47.58	132.69	33.75	10.44	4.70	1.73	0.21	0.00	313.25	MCM

Momentary Peak 165.36 CMS, at 143.18 m. (MSL.), at 18.00 Hours, on Sep 14, 2016

Runoff Yield 6.42 Liters/Second/Square KM. Momentary Peak Yield 106.820 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

Ban Na Klang **Amphoe** Na Wang **Changwat** Nong Bua Lamphu

Drainge Area	362 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+254.500 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank downstream side at the footpath of the bridge. **Elevation** +261.680 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1979 - 1980 , 1997 to date
Rated by Flot	-
Rated by Current Meter	1979 - 1980 , 1997 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +258.620 m.(MSL.), records are channel flow only.
General Description	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

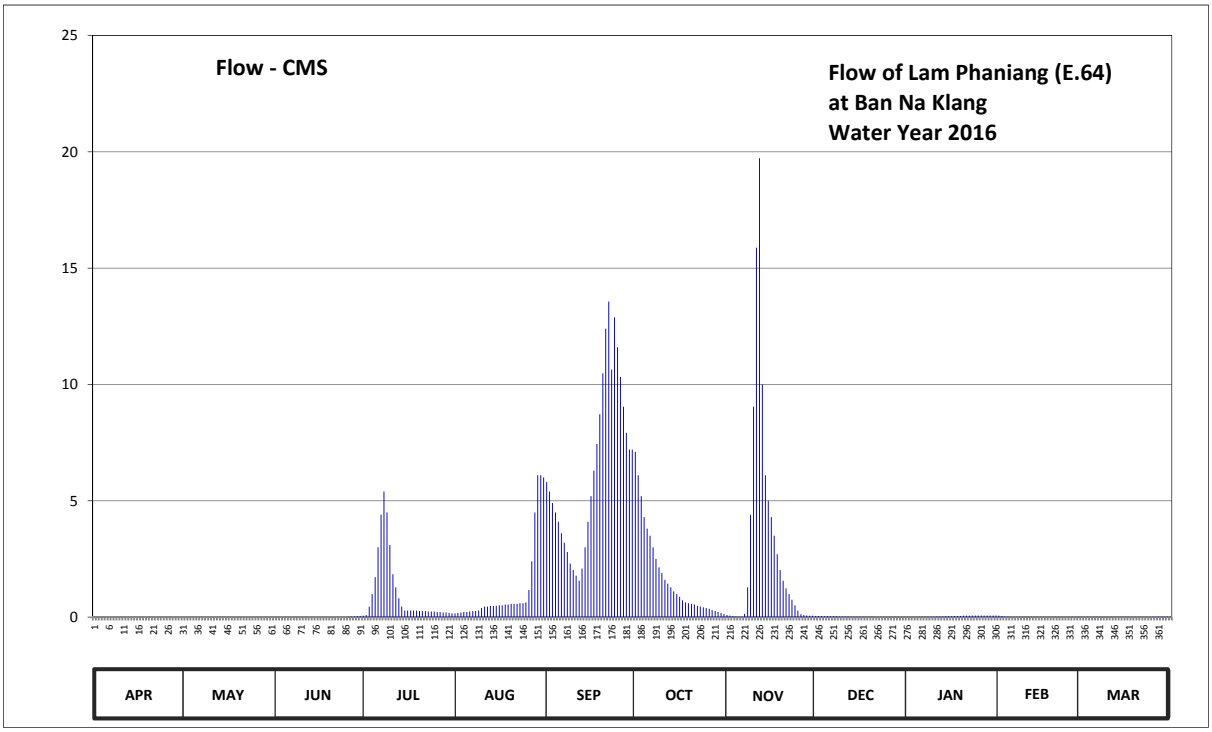
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	255.92	255.72	255.69	257.19	257.43	258.36	258.49	257.37	257.17	256.87	257.22	256.87	
2	255.90	255.71	255.73	257.37	257.44	258.32	258.39	257.27	257.15	256.88	257.13	256.87	
3	255.89	255.71	255.78	257.55	257.45	258.27	258.30	257.17	257.13	256.90	257.04	256.87	
4	255.88	255.70	255.83	257.73	257.46	258.23	258.21	257.07	257.12	256.92	256.95	256.88	
5	255.87	255.70	255.87	257.92	257.46	258.19	258.16	256.97	257.11	256.93	256.88	256.88	
6	255.86	255.69	255.92	258.08	257.47	258.14	258.13	257.01	257.10	256.95	256.88	256.88	
7	255.86	255.69	255.97	258.22	257.48	258.10	258.08	257.42	257.09	256.97	256.88	256.88	
8	255.85	255.68	256.01	258.32	257.48	258.06	258.03	257.82	257.08	256.98	256.88	256.89	
9	255.85	255.68	256.06	258.23	257.49	258.01	257.99	258.22	257.07	257.00	256.88	256.89	
10	255.84	255.67	256.11	258.09	257.53	257.97	257.95	258.64	257.05	257.02	256.88	256.89	
11	255.84	255.67	256.16	257.94	257.55	257.93	257.90	259.04	257.04	257.04	256.88	256.89	
12	255.83	255.66	256.20	257.82	257.55	257.89	257.86	259.19	257.03	257.05	256.88	256.90	
13	255.83	255.66	256.25	257.67	257.56	257.98	257.82	258.70	257.02	257.07	256.88	256.90	
14	255.82	255.65	256.30	257.55	257.56	258.08	257.77	258.39	257.01	257.09	256.88	256.90	
15	255.82	255.65	256.34	257.49	257.56	258.19	257.73	258.28	257.00	257.10	256.88	256.90	
16	255.81	255.64	256.39	257.49	257.57	258.30	257.69	258.21	256.99	257.12	256.88	256.91	
17	255.81	255.63	256.44	257.49	257.57	258.41	257.64	258.13	256.98	257.14	256.88	256.91	
18	255.80	255.62	256.48	257.49	257.58	258.52	257.61	258.05	256.97	257.15	256.87	256.91	
19	255.80	255.62	256.53	257.49	257.58	258.62	257.60	257.97	256.96	257.17	256.87	256.92	
20	255.79	255.61	256.58	257.48	257.59	258.73	257.59	257.89	256.95	257.19	256.87	256.92	
21	255.79	255.61	256.63	257.48	257.59	258.85	257.58	257.81	256.94	257.21	256.87	256.93	
22	255.78	255.60	256.67	257.48	257.59	258.92	257.56	257.73	256.93	257.22	256.87	256.93	
23	255.78	255.60	256.72	257.47	257.60	258.74	257.55	257.65	256.92	257.24	256.87	256.93	
24	255.77	255.59	256.77	257.47	257.60	258.88	257.54	257.57	256.91	257.26	256.87	256.94	
25	255.77	255.59	256.81	257.47	257.61	258.80	257.53	257.49	256.90	257.26	256.87	256.94	
26	255.76	255.60	256.91	257.46	257.79	258.72	257.52	257.41	256.90	257.26	256.87	256.94	
27	255.75	255.62	257.00	257.46	258.02	258.64	257.50	257.33	256.89	257.25	256.87	256.95	
28	255.74	255.64	257.05	257.45	258.23	258.56	257.48	257.25	256.89	257.25	256.87	256.95	
29	255.73	255.65	257.09	257.45	258.39	258.50	257.46	257.19	256.88	257.25		256.95	
30	255.72	255.66	257.12	257.44	258.39	258.50	257.44	257.18	256.88	257.24		256.95	
31		255.67		257.43	258.38		257.42		256.87	257.24		256.95	
Mean	255.82	255.65	256.38	257.63	257.66	258.38	257.79	257.78	257.00	257.10	256.91	256.91	
Max	255.92	255.72	257.12	258.32	258.39	258.92	258.49	259.19	257.17	257.26	257.22	256.95	259.19
Min	255.72	255.59	255.69	257.19	257.43	257.89	257.42	256.97	256.87	256.87	256.87	256.87	255.59

Annual Max Momentary Gage Height 259.34 m. (MSL.) , at 08.00 Hours, on Nov 12, 2016

Zero Gage at Bottom Elevation 254.50 m. (MSL.) , River Bed 254.40 m. (MSL.)

Left Bank Elevation 258.61 m. (MSL.) ,

Right Bank Elevation 259.04 m. (MSL.) , Drainage Are 362 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.06	0.16	5.80	7.10	0.09	0.05	0.01	0.06	0.01		
2	0.00	0.00	0.00	0.09	0.18	5.40	6.10	0.07	0.05	0.01	0.05	0.01		
3	0.00	0.00	0.00	0.45	0.20	4.90	5.20	0.05	0.05	0.01	0.03	0.01		
4	0.00	0.00	0.00	0.99	0.22	4.50	4.30	0.03	0.04	0.01	0.02	0.01		
5	0.00	0.00	0.00	1.72	0.22	4.10	3.80	0.02	0.04	0.01	0.01	0.01		
6	0.00	0.00	0.00	3.00	0.24	3.60	3.50	0.02	0.04	0.02	0.01	0.01		
7	0.00	0.00	0.00	4.40	0.26	3.20	3.00	0.14	0.04	0.02	0.01	0.01		
8	0.00	0.00	0.00	5.40	0.26	2.80	2.50	1.28	0.04	0.02	0.01	0.01		
9	0.00	0.00	0.00	4.50	0.28	2.30	2.14	4.40	0.03	0.02	0.01	0.01		
10	0.00	0.00	0.00	3.10	0.39	2.02	1.90	9.04	0.03	0.02	0.01	0.01		
11	0.00	0.00	0.00	1.84	0.45	1.78	1.60	15.88	0.03	0.03	0.01	0.01		
12	0.00	0.00	0.00	1.28	0.45	1.56	1.44	19.72	0.03	0.03	0.01	0.01		
13	0.00	0.00	0.00	0.81	0.48	2.08	1.28	10.00	0.02	0.03	0.01	0.01		
14	0.00	0.00	0.00	0.45	0.48	3.00	1.11	6.10	0.02	0.04	0.01	0.01		
15	0.00	0.00	0.00	0.28	0.48	4.10	0.99	5.00	0.02	0.04	0.01	0.01		
16	0.00	0.00	0.00	0.28	0.51	5.20	0.87	4.30	0.02	0.04	0.01	0.01		
17	0.00	0.00	0.00	0.28	0.51	6.30	0.72	3.50	0.02	0.05	0.01	0.01		
18	0.00	0.00	0.00	0.28	0.54	7.44	0.63	2.70	0.02	0.05	0.01	0.01		
19	0.00	0.00	0.00	0.28	0.54	8.72	0.60	2.02	0.02	0.05	0.01	0.01		
20	0.00	0.00	0.00	0.26	0.57	10.48	0.57	1.56	0.02	0.06	0.01	0.01		
21	0.00	0.00	0.00	0.26	0.57	12.40	0.54	1.24	0.01	0.06	0.01	0.01		
22	0.00	0.00	0.00	0.26	0.57	13.56	0.48	0.99	0.01	0.06	0.01	0.01		
23	0.00	0.00	0.00	0.24	0.60	10.64	0.45	0.75	0.01	0.07	0.01	0.01		
24	0.00	0.00	0.00	0.24	0.60	12.88	0.42	0.51	0.01	0.07	0.01	0.01		
25	0.00	0.00	0.00	0.24	0.63	11.60	0.39	0.28	0.01	0.07	0.01	0.01		
26	0.00	0.00	0.01	0.22	1.17	10.32	0.36	0.12	0.01	0.07	0.01	0.01		
27	0.00	0.00	0.02	0.22	2.40	9.04	0.30	0.09	0.01	0.07	0.01	0.02		
28	0.00	0.00	0.03	0.20	4.50	7.92	0.26	0.07	0.01	0.07	0.01	0.02		
29	0.00	0.00	0.04	0.20	6.10	7.20	0.22	0.06	0.01	0.07		0.02		
30	0.00	0.00	0.04	0.18	6.10	7.20	0.18	0.06	0.01	0.07		0.02		
31		0.00		0.16	6.00		0.14		0.01	0.07		0.02		
Total	0.00	0.00	0.14	32.17	36.66	192.04	53.09	90.09	0.74	1.32	0.40	0.36	407.01	CMSDAY
Mean	0.00	0.00	0.00	1.04	1.18	6.40	1.71	3.00	0.02	0.04	0.01	0.01	1.12	CMS
Max	0.00	0.00	0.04	5.40	6.10	13.56	7.10	19.72	0.05	0.07	0.06	0.02	19.72	CMS
Min	0.00	0.00	0.00	0.06	0.16	1.56	0.14	0.02	0.01	0.01	0.01	0.01	0.00	CMS
Runoff	0.00	0.00	0.01	2.78	3.17	16.59	4.59	7.78	0.06	0.11	0.03	0.03	35.17	MCM

Momentary Peak 24.48 CMS, at 259.34 m. (MSL.), at 08.00 Hours, on Nov 12, 2016

Runoff Yield 3.08 Liters/Second/Square KM. Momentary Peak Yield 67.620 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at the bridge.

Ban Muang Lat **Amphoe** Chang Han **Changwat** Roi Et

Drainge Area	31,879 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+126.900 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank at the abutment of the bridge. **Elevation** +143.406 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +137.850 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

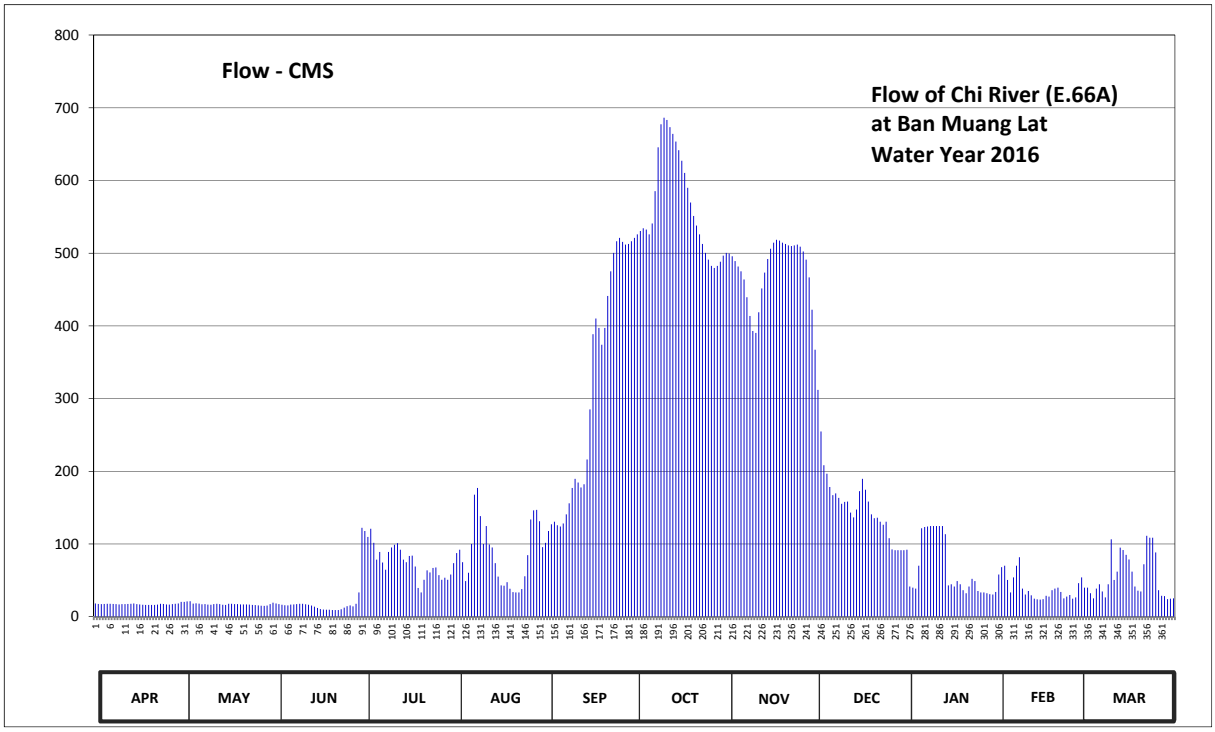
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.47	130.55	130.48	131.44	130.87	131.44	136.70	136.42	134.26	130.93	131.08	130.92	
2	130.43	130.57	130.41	131.29	130.96	131.60	136.75	136.38	133.56	130.92	131.09	130.92	
3	130.42	130.58	130.36	131.50	130.62	131.66	136.79	136.31	132.91	130.91	130.99	130.82	
4	130.43	130.46	130.32	131.14	130.08	131.58	136.77	136.23	132.73	131.09	130.84	130.69	
5	130.44	130.49	130.30	130.69	130.32	131.55	136.70	136.16	132.44	131.51	131.01	130.91	
6	130.44	130.46	130.38	130.90	131.11	131.62	136.86	136.04	132.26	131.54	131.09	130.95	
7	130.43	130.40	130.39	130.61	132.27	131.83	137.26	135.76	132.30	131.55	131.13	130.86	
8	130.41	130.41	130.42	130.41	132.42	132.08	137.74	135.46	132.20	131.56	130.91	130.72	
9	130.39	130.38	130.45	130.90	131.79	132.42	137.98	135.22	132.07	131.56	130.79	130.95	
10	130.41	130.36	130.44	131.02	131.11	132.62	138.04	135.19	132.11	131.56	130.87	131.23	
11	130.42	130.42	130.40	131.09	131.56	132.54	138.02	135.52	132.12	131.56	130.77	130.99	
12	130.43	130.44	130.36	131.13	131.10	132.43	137.95	135.90	131.87	131.56	130.68	131.05	
13	130.45	130.42	130.29	130.96	131.02	132.50	137.88	136.14	131.76	131.36	130.65	131.17	
14	130.47	130.36	130.18	130.69	130.59	133.03	137.80	136.34	131.94	130.94	130.64	131.16	
15	130.42	130.34	130.07	130.62	130.21	133.94	137.71	136.49	132.35	130.95	130.66	131.14	
16	130.39	130.44	129.95	130.79	129.95	135.17	137.60	136.58	132.62	130.93	130.76	131.12	
17	130.36	130.45	129.89	130.80	129.94	135.42	137.47	136.62	132.38	130.98	130.74	131.05	
18	130.34	130.42	129.88	130.50	130.05	135.27	137.30	136.61	132.12	130.95	130.89	130.93	
19	130.34	130.41	129.88	129.87	129.84	135.00	137.13	136.58	131.83	130.89	130.91	130.88	
20	130.34	130.39	129.85	129.72	129.73	135.27	136.97	136.56	131.74	130.82	130.92	130.86	
21	130.35	130.39	129.85	130.12	129.72	135.78	136.83	136.54	131.75	130.93	130.85	131.10	
22	130.38	130.39	129.85	130.39	129.72	136.16	136.70	136.53	131.66	131.00	130.69	131.32	
23	130.44	130.37	129.93	130.33	129.83	136.43	136.56	136.54	131.59	130.98	130.74	131.27	
24	130.43	130.35	130.09	130.46	130.22	136.60	136.43	136.55	131.66	130.87	130.78	131.27	
25	130.39	130.33	130.23	130.47	130.81	136.65	136.33	136.52	131.26	130.84	130.68	131.15	
26	130.38	130.30	130.30	130.25	131.71	136.59	136.24	136.45	130.97	130.84	130.72	130.89	
27	130.41	130.27	130.21	130.12	131.92	136.55	136.21	136.33	130.95	130.82	130.96	130.76	
28	130.44	130.25	130.44	130.18	131.93	136.56	136.24	136.07	130.95	130.80	131.01	130.75	
29	130.48	130.29	130.84	130.12	131.67	136.60	136.30	135.56	130.95	130.79		130.66	
30	130.55	130.41	131.52	130.27	131.03	136.65	136.39	134.92	130.95	130.85		130.68	
31		130.52		130.59	131.14		136.43		130.96	131.03		130.69	
Mean	130.42	130.41	130.27	130.62	130.81	134.12	137.03	136.15	131.97	131.09	130.85	130.96	
Max	130.55	130.58	131.52	131.50	132.42	136.65	138.04	136.62	134.26	131.56	131.13	131.32	138.04
Min	130.34	130.25	129.85	129.72	129.72	131.44	136.21	134.92	130.95	130.79	130.64	130.66	129.72

Annual Max Momentary Gage Height 138.05 m. (MSL.) , at 16.00 Hours, on Oct 10, 2016

Zero Gage at Bottom Elevation 126.90 m. (MSL.) , River Bed 126.84 m. (MSL.)

Left Bank Elevation 137.84 m. (MSL.) ,

Right Bank Elevation 140.61 m. (MSL.) , Drainage Are 31,879 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.05	20.25	18.20	117.76	87.50	117.76	525.80	499.48	311.84	41.50	68.00	40.00	
2	17.45	20.95	17.15	109.66	92.00	127.00	530.50	495.72	254.80	40.00	70.00	40.00	
3	17.30	21.30	16.40	121.00	75.00	130.60	534.26	489.14	208.24	38.50	50.50	32.20	
4	17.45	17.90	15.80	101.56	48.84	125.80	532.38	481.62	196.72	70.00	33.40	25.15	
5	17.60	18.35	15.50	78.50	60.36	124.00	525.80	475.04	178.28	121.60	54.00	38.50	
6	17.60	17.90	16.70	89.00	99.94	128.20	540.84	463.76	167.12	123.40	70.00	44.50	
7	17.45	17.00	16.85	74.50	167.74	140.80	585.20	439.36	169.60	124.00	81.84	34.60	
8	17.15	17.15	17.30	64.68	177.04	155.96	645.68	413.56	163.40	124.60	38.50	26.60	
9	16.85	16.70	17.75	89.00	138.40	177.04	677.36	392.92	155.34	124.60	30.45	44.50	
10	17.15	16.40	17.60	95.08	99.94	189.68	686.40	390.34	157.82	124.60	35.20	106.42	
11	17.30	17.30	17.00	98.86	124.60	184.56	683.20	418.72	158.44	124.60	29.35	50.50	
12	17.45	17.60	16.40	101.02	99.40	177.66	673.40	451.40	143.20	124.60	24.80	62.00	
13	17.75	17.30	15.35	92.00	95.08	182.00	664.16	473.16	136.60	113.44	23.75	94.96	
14	18.05	16.40	13.70	78.50	73.50	216.16	653.60	491.96	147.40	43.00	23.40	91.68	
15	17.30	16.10	12.05	75.00	55.08	285.20	641.72	506.06	172.70	44.50	24.10	85.12	
16	16.85	17.60	10.40	83.50	42.90	388.62	627.20	514.52	189.68	41.50	28.80	78.56	
17	16.40	17.75	9.68	84.00	42.48	410.12	610.40	518.28	174.56	49.00	27.70	62.00	
18	16.10	17.30	9.56	69.00	47.40	397.22	590.00	517.34	158.44	44.50	36.40	41.50	
19	16.10	17.15	9.56	39.54	38.28	374.00	569.60	514.52	140.80	36.40	38.50	35.80	
20	16.10	16.85	9.20	33.24	33.66	397.22	551.18	512.64	135.40	32.20	40.00	34.60	
21	16.25	16.85	9.20	50.76	33.24	441.08	538.02	510.76	136.00	41.50	34.00	72.00	
22	16.70	16.85	9.20	63.72	33.24	475.04	525.80	509.82	130.60	52.00	25.15	111.28	
23	17.60	16.55	10.16	60.84	37.86	500.42	512.64	510.76	126.40	49.00	27.70	108.58	
24	17.45	16.25	12.35	67.08	55.56	516.40	500.42	511.70	130.60	35.20	29.90	108.58	
25	16.85	15.95	14.45	67.56	84.50	521.10	491.02	508.88	108.04	33.40	24.80	88.40	
26	16.70	15.50	15.50	57.00	133.60	515.46	482.56	502.30	92.50	33.40	26.60	36.40	
27	17.15	15.05	14.15	50.76	146.20	511.70	479.74	491.02	91.50	32.20	46.00	28.80	
28	17.60	14.75	17.60	53.64	146.80	512.64	482.56	466.58	91.50	31.00	54.00	28.25	
29	18.20	15.35	33.40	50.76	131.20	516.40	488.20	422.16	91.50	30.45		24.10	
30	20.25	17.15	122.20	57.96	95.62	521.10	496.66	367.28	91.50	34.00		24.80	
31		19.20		73.50	101.56		500.42		92.00	58.00		25.15	
Total	518.20	534.70	550.36	2348.98	2698.52	9460.94	17546.72	14260.80	4702.52	2016.69	1096.84	1725.53	57460.80	CMSDAY
Mean	17.27	17.25	18.35	75.77	87.05	315.36	566.02	475.36	151.69	65.05	39.17	55.66	157.43	CMS
Max	20.25	21.30	122.20	121.00	177.04	521.10	686.40	518.28	311.84	124.60	81.84	111.28	686.40	CMS
Min	16.10	14.75	9.20	33.24	33.24	117.76	479.74	367.28	91.50	30.45	23.40	24.10	9.20	CMS
Runoff	44.77	46.20	47.55	202.95	233.15	817.43	1516.04	1232.13	406.30	174.24	94.77	149.09	4964.61	MCM

Momentary Peak 688.00 CMS, at 138.05 m. (MSL.), at 16.00 Hours, on Oct 10, 2016

Runoff Yield 4.94 Liters/Second/Square KM. Momentary Peak Yield 21.580 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban Khong Po	**Amphoe** Mueang	**Changwat** Nong Bua Lamphu
Drainge Area	1,364 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+194.700 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream site at the footpath of the bridge.	**Elevation**	+201.740 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation +198.470 m.(MSL.), records are channel flow only.		
General Description	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

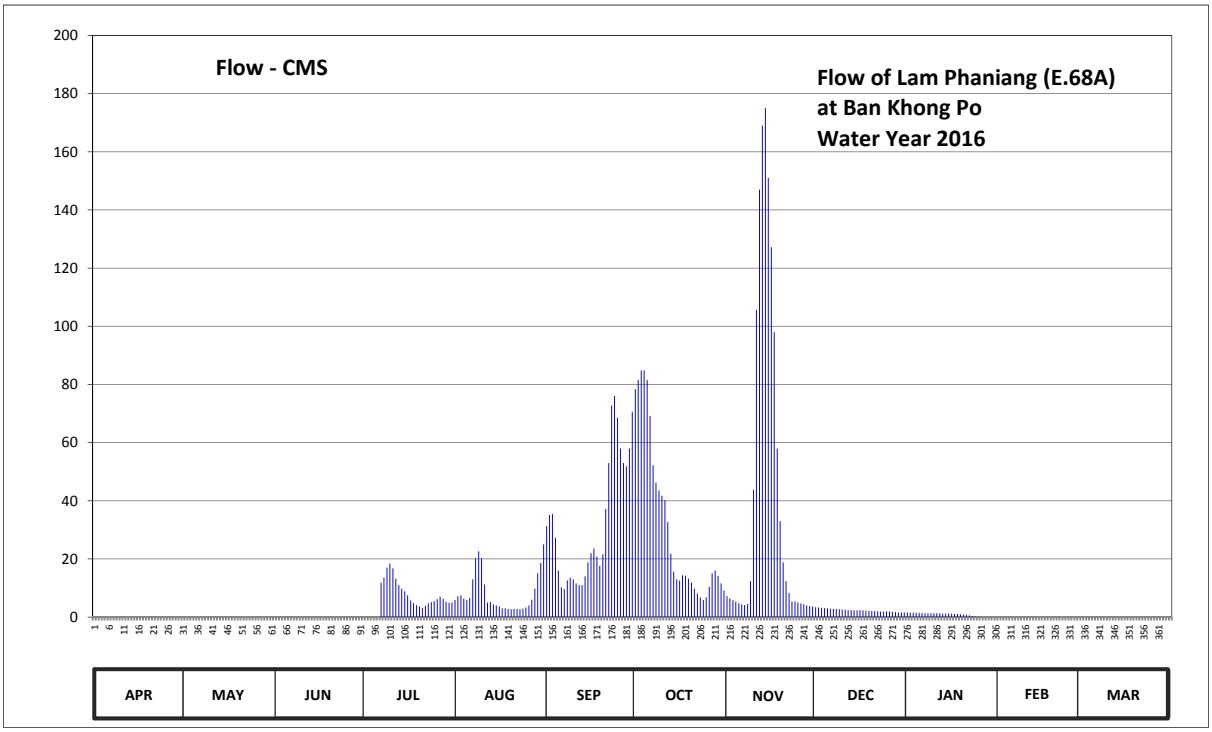
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	195.24	194.93	194.97	195.52	197.19	198.44	199.48	197.28	196.94	196.76	196.53	196.44	
2	195.22	194.93	194.95	195.39	197.28	198.57	199.52	197.23	196.93	196.76	196.54	196.43	
3	195.21	194.93	194.94	195.08	197.30	198.58	199.56	197.18	196.92	196.76	196.53	196.42	
4	195.20	194.93	194.93	195.07	197.22	198.29	199.56	197.13	196.91	196.75	196.53	196.41	
5	195.19	194.93	194.91	195.16	197.18	197.75	199.52	197.08	196.90	196.75	196.52	196.40	
6	195.18	194.93	194.89	196.44	197.24	197.46	199.36	197.04	196.89	196.74	196.52	196.38	
7	195.17	194.93	194.88	197.54	197.60	197.43	199.08	197.02	196.88	196.73	196.51	196.37	
8	195.16	194.93	194.86	197.63	197.96	197.58	198.93	197.05	196.88	196.73	196.51	196.35	
9	195.15	194.93	194.84	197.80	198.08	197.63	198.85	197.57	196.87	196.73	196.50	196.33	
10	195.14	194.93	194.85	197.87	197.96	197.60	198.79	198.86	196.86	196.73	196.50	196.32	
11	195.13	194.93	194.92	197.79	197.51	197.53	198.74	199.77	196.85	196.73	196.50	196.30	
12	195.12	194.93	194.93	197.61	197.10	197.50	198.49	200.06	196.84	196.73	196.50	196.29	
13	195.11	194.93	194.90	197.50	197.12	197.50	198.04	200.17	196.84	196.72	196.49	196.28	
14	195.10	194.93	194.85	197.44	197.04	197.65	197.73	200.20	196.83	196.72	196.49	196.27	
15	195.09	194.93	194.90	197.39	197.00	197.89	197.60	200.08	196.83	196.72	196.49	196.26	
16	195.08	194.93	194.90	197.30	196.97	198.05	197.58	199.94	196.84	196.72	196.49	196.24	
17	195.07	194.94	194.93	197.17	196.90	198.13	197.67	199.70	196.83	196.71	196.49	196.23	
18	195.06	194.94	194.97	197.08	196.90	197.99	197.66	199.20	196.82	196.71	196.48	196.22	
19	195.05	194.94	194.96	197.01	196.88	197.83	197.61	198.50	196.82	196.70	196.48	196.20	
20	195.04	194.94	194.95	196.96	196.87	198.03	197.54	197.89	196.81	196.69	196.48	196.18	
21	195.02	194.94	194.94	196.92	196.88	198.64	197.44	197.57	196.81	196.68	196.48	196.17	
22	195.01	194.94	194.92	196.99	196.88	199.10	197.34	197.35	196.80	196.66	196.47	196.16	
23	194.99	194.94	194.91	197.07	196.87	199.41	197.25	197.14	196.79	196.64	196.47	196.14	
24	194.97	194.94	194.90	197.11	196.89	199.45	197.19	197.14	196.79	196.62	196.47	196.13	
25	194.96	194.94	194.90	197.15	196.93	199.35	197.25	197.10	196.80	196.61	196.47	196.12	
26	194.95	194.94	194.92	197.21	197.00	199.20	197.47	197.07	196.79	196.59	196.47	196.11	
27	194.95	194.94	194.95	197.27	197.20	199.10	197.70	197.04	196.78	196.58	196.46	196.10	
28	194.94	194.94	194.98	197.22	197.44	199.07	197.75	197.00	196.77	196.57	196.45	196.09	
29	194.94	194.95	195.01	197.13	197.70	199.20	197.66	196.98	196.76	196.56		196.09	
30	194.93	194.95	195.17	197.09	197.88	199.38	197.53	196.96	196.76	196.55		196.08	
31		194.96		197.10	198.20		197.41		196.76	196.54		196.08	
Mean	195.08	194.94	194.93	196.94	197.26	198.31	198.17	198.01	196.84	196.68	196.49	196.24	
Max	195.24	194.96	195.17	197.87	198.20	199.45	199.56	200.20	196.94	196.76	196.54	196.44	200.20
Min	194.93	194.93	194.84	195.07	196.87	197.43	197.19	196.96	196.76	196.54	196.45	196.08	194.84

Annual Max Momentary Gage Height 200.22 m. (MSL.) , at 06.00 Hours, on Nov 14, 2016

Zero Gage at Bottom Elevation 194.70 m. (MSL.) , River Bed 193.09 m. (MSL.)

Left Bank Elevation 198.46 m. (MSL.) ,

Right Bank Elevation 199.05 m. (MSL.) , Drainage Are 1364 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	5.90	31.32	78.40	7.20	3.40	1.60	0.00	0.00	
2	0.00	0.00	0.00	0.00	7.20	35.10	81.60	6.45	3.30	1.60	0.00	0.00	
3	0.00	0.00	0.00	0.00	7.50	35.40	84.80	5.80	3.20	1.60	0.00	0.00	
4	0.00	0.00	0.00	0.00	6.30	27.25	84.80	5.30	3.10	1.50	0.00	0.00	
5	0.00	0.00	0.00	0.00	5.80	16.00	81.60	4.80	3.00	1.50	0.00	0.00	
6	0.00	0.00	0.00	0.00	6.60	10.20	69.20	4.40	2.90	1.40	0.00	0.00	
7	0.00	0.00	0.00	11.80	13.00	9.60	52.20	4.20	2.80	1.30	0.00	0.00	
8	0.00	0.00	0.00	13.60	20.20	12.60	46.20	4.50	2.80	1.30	0.00	0.00	
9	0.00	0.00	0.00	17.00	22.60	13.60	43.50	12.40	2.70	1.30	0.00	0.00	
10	0.00	0.00	0.00	18.40	20.20	13.00	41.70	43.80	2.60	1.30	0.00	0.00	
11	0.00	0.00	0.00	16.80	11.20	11.60	40.20	105.70	2.50	1.30	0.00	0.00	
12	0.00	0.00	0.00	13.20	5.00	11.00	32.72	147.00	2.40	1.30	0.00	0.00	
13	0.00	0.00	0.00	11.00	5.20	11.00	21.80	169.00	2.40	1.20	0.00	0.00	
14	0.00	0.00	0.00	9.80	4.40	14.00	15.60	175.00	2.30	1.20	0.00	0.00	
15	0.00	0.00	0.00	8.85	4.00	18.80	13.00	151.00	2.30	1.20	0.00	0.00	
16	0.00	0.00	0.00	7.50	3.70	22.00	12.60	127.20	2.40	1.20	0.00	0.00	
17	0.00	0.00	0.00	5.70	3.00	23.60	14.40	98.00	2.30	1.10	0.00	0.00	
18	0.00	0.00	0.00	4.80	3.00	20.80	14.20	58.00	2.20	1.10	0.00	0.00	
19	0.00	0.00	0.00	4.10	2.80	17.60	13.20	33.00	2.20	1.00	0.00	0.00	
20	0.00	0.00	0.00	3.60	2.70	21.60	11.80	18.80	2.10	0.90	0.00	0.00	
21	0.00	0.00	0.00	3.20	2.80	37.20	9.80	12.40	2.10	0.80	0.00	0.00	
22	0.00	0.00	0.00	3.90	2.80	53.00	8.10	8.25	2.00	0.60	0.00	0.00	
23	0.00	0.00	0.00	4.70	2.70	72.80	6.75	5.40	1.90	0.40	0.00	0.00	
24	0.00	0.00	0.00	5.10	2.90	76.00	5.90	5.40	1.90	0.20	0.00	0.00	
25	0.00	0.00	0.00	5.50	3.30	68.50	6.75	5.00	2.00	0.10	0.00	0.00	
26	0.00	0.00	0.00	6.15	4.00	58.00	10.40	4.70	1.90	0.00	0.00	0.00	
27	0.00	0.00	0.00	7.05	6.00	53.00	15.00	4.40	1.80	0.00	0.00	0.00	
28	0.00	0.00	0.00	6.30	9.80	51.80	16.00	4.00	1.70	0.00	0.00	0.00	
29	0.00	0.00	0.00	5.30	15.00	58.00	14.20	3.80	1.60	0.00		0.00	
30	0.00	0.00	0.00	4.90	18.60	70.60	11.60	3.60	1.60	0.00		0.00	
31		0.00		5.00	25.00		9.20		1.60	0.00		0.00	
Total	0.00	0.00	0.00	203.25	253.20	974.97	967.22	1238.50	73.00	28.00	0.00	0.00	3738.14	CMSDAY
Mean	0.00	0.00	0.00	6.56	8.17	32.50	31.20	41.28	2.35	0.90	0.00	0.00	10.24	CMS
Max	0.00	0.00	0.00	18.40	25.00	76.00	84.80	175.00	3.40	1.60	0.00	0.00	175.00	CMS
Min	0.00	0.00	0.00	0.00	2.70	9.60	5.90	3.60	1.60	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	17.56	21.88	84.24	83.57	107.01	6.31	2.42	0.00	0.00	322.98	MCM

Momentary Peak 180.00 CMS, at 200.22 m. (MSL.), at 06.00 Hours, on Nov 14, 2016

Runoff Yield 7.51 Liters/Second/Square KM. Momentary Peak Yield 131.960 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

	Ban Kut Kwang	**Amphoe** Phon Thong	**Changwat** Roi Et
Drainge Area	2,647 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+131.000 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+144.037 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

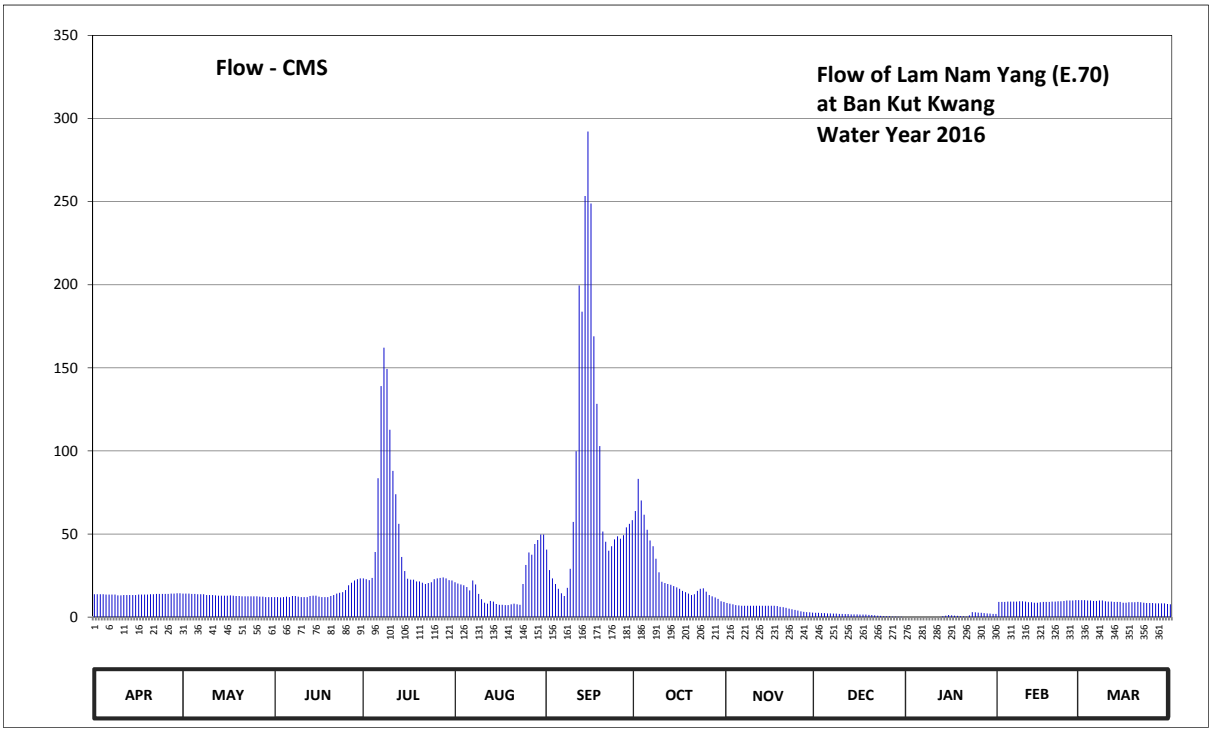
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.44	131.46	131.36	131.82	131.73	132.37	133.02	131.19	130.87	130.69	131.22	131.27	
2	131.44	131.46	131.36	131.80	131.70	132.01	133.48	131.17	130.87	130.68	131.22	131.27	
3	131.44	131.46	131.35	131.78	131.68	131.82	133.17	131.15	130.86	130.68	131.22	131.26	
4	131.44	131.45	131.36	131.83	131.66	131.69	132.96	131.13	130.86	130.68	131.23	131.26	
5	131.43	131.45	131.37	132.33	131.62	131.58	132.71	131.12	130.85	130.67	131.23	131.25	
6	131.43	131.44	131.36	133.49	131.54	131.47	132.53	131.11	130.85	130.66	131.23	131.25	
7	131.43	131.44	131.39	134.63	131.77	131.39	132.43	131.11	130.84	130.65	131.23	131.26	
8	131.43	131.44	131.39	135.05	131.68	131.60	132.21	131.11	130.84	130.64	131.24	131.26	
9	131.41	131.42	131.37	134.82	131.45	132.03	131.96	131.11	130.83	130.63	131.24	131.24	
10	131.41	131.42	131.36	134.13	131.30	132.84	131.74	131.11	130.83	130.63	131.23	131.23	
11	131.42	131.42	131.36	133.59	131.20	133.86	131.71	131.11	130.82	130.66	131.21	131.23	
12	131.42	131.41	131.36	133.26	131.17	135.65	131.69	131.11	130.82	130.69	131.21	131.22	
13	131.42	131.40	131.39	132.81	131.25	135.40	131.67	131.11	130.81	130.73	131.20	131.22	
14	131.42	131.40	131.40	132.24	131.23	136.49	131.64	131.11	130.81	130.76	131.20	131.22	
15	131.42	131.40	131.40	131.99	131.16	137.06	131.61	131.11	130.81	130.78	131.21	131.20	
16	131.43	131.40	131.37	131.81	131.14	136.42	131.58	131.11	130.80	130.77	131.22	131.20	
17	131.43	131.41	131.36	131.79	131.14	135.16	131.53	131.11	130.80	130.76	131.22	131.21	
18	131.43	131.40	131.36	131.79	131.13	134.43	131.50	131.10	130.80	130.75	131.22	131.21	
19	131.43	131.39	131.36	131.75	131.13	133.93	131.46	131.08	130.79	130.74	131.23	131.21	
20	131.44	131.39	131.39	131.75	131.15	132.68	131.42	131.07	130.78	130.73	131.23	131.22	
21	131.44	131.38	131.42	131.72	131.17	132.51	131.44	131.05	130.77	130.72	131.24	131.21	
22	131.45	131.38	131.46	131.69	131.15	132.35	131.53	131.03	130.76	130.77	131.24	131.20	
23	131.45	131.38	131.48	131.71	131.14	132.43	131.58	131.01	130.75	130.90	131.25	131.19	
24	131.45	131.38	131.50	131.73	131.69	132.55	131.59	130.99	130.74	130.89	131.26	131.19	
25	131.45	131.38	131.55	131.80	132.10	132.60	131.51	130.96	130.73	130.88	131.26	131.19	
26	131.45	131.38	131.66	131.82	132.32	132.56	131.42	130.93	130.73	130.87	131.26	131.18	
27	131.46	131.37	131.72	131.83	132.28	132.62	131.38	130.91	130.72	130.86	131.27	131.18	
28	131.46	131.37	131.77	131.84	132.47	132.75	131.35	130.90	130.72	130.85	131.27	131.18	
29	131.47	131.36	131.80	131.82	132.54	132.81	131.31	130.89	130.71	130.84		131.18	
30	131.47	131.36	131.82	131.78	132.63	132.87	131.24	130.88	130.71	130.83		131.16	
31		131.36		131.77	132.63		131.22		130.70	130.83		131.15	
Mean	131.44	131.41	131.45	132.39	131.61	133.20	131.86	131.06	130.79	130.75	131.23	131.22	
Max	131.47	131.46	131.82	135.05	132.63	137.06	133.48	131.19	130.87	130.90	131.27	131.27	137.06
Min	131.41	131.36	131.35	131.69	131.13	131.39	131.22	130.88	130.70	130.63	131.20	131.15	130.63

Annual Max Momentary Gage Height 137.14 m. (MSL.) , at 01.00 Hours, on Sep 15, 2016

Zero Gage at Bottom Elevation 131.00 m. (MSL.) , River Bed 129.82 m. (MSL.)

Left Bank Elevation 140.11 m. (MSL.) ,

Right Bank Elevation 139.16 m. (MSL.) , Drainage Are 2647 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.74	14.16	12.06	23.32	20.98	40.58	63.84	8.49	2.55	0.00	9.12	10.17		
2	13.74	14.16	12.06	22.80	20.20	28.34	83.16	8.07	2.55	0.00	9.12	10.17		
3	13.74	14.16	11.85	22.28	19.68	23.32	70.14	7.65	2.40	0.00	9.12	9.96		
4	13.74	13.95	12.06	23.58	19.16	19.94	61.56	7.23	2.40	0.00	9.33	9.96		
5	13.53	13.95	12.27	39.22	18.12	17.08	52.56	7.02	2.25	0.00	9.33	9.75		
6	13.53	13.74	12.06	83.58	16.04	14.37	46.08	6.81	2.25	0.00	9.33	9.75		
7	13.53	13.74	12.69	139.02	22.02	12.69	42.62	6.81	2.10	0.00	9.33	9.96		
8	13.53	13.74	12.69	162.10	19.68	17.60	35.14	6.81	2.10	0.00	9.54	9.96		
9	13.11	13.32	12.27	149.28	13.95	29.02	26.96	6.81	1.95	0.00	9.54	9.54		
10	13.11	13.32	12.06	112.76	10.80	57.24	21.24	6.81	1.95	0.00	9.33	9.33		
11	13.32	13.32	12.06	87.96	8.70	99.84	20.46	6.81	1.80	0.00	8.91	9.33		
12	13.32	13.11	12.06	73.92	8.07	199.60	19.94	6.81	1.80	0.00	8.91	9.12		
13	13.32	12.90	12.69	56.16	9.75	183.80	19.42	6.81	1.65	0.45	8.70	9.12		
14	13.32	12.90	12.90	36.16	9.33	253.36	18.64	6.81	1.65	0.90	8.70	9.12		
15	13.32	12.90	12.90	27.74	7.86	292.20	17.86	6.81	1.65	1.20	8.91	8.70		
16	13.53	12.90	12.27	23.06	7.44	248.88	17.08	6.81	1.50	1.05	9.12	8.70		
17	13.53	13.11	12.06	22.54	7.44	168.92	15.78	6.81	1.50	0.90	9.12	8.91		
18	13.53	12.90	12.06	22.54	7.23	128.36	15.00	6.60	1.50	0.75	9.12	8.91		
19	13.53	12.69	12.06	21.50	7.23	102.92	14.16	6.18	1.35	0.60	9.33	8.91		
20	13.74	12.69	12.69	21.50	7.65	51.48	13.32	5.97	1.20	0.45	9.33	9.12		
21	13.74	12.48	13.32	20.72	8.07	45.36	13.74	5.55	1.05	0.30	9.54	8.91		
22	13.95	12.48	14.16	19.94	7.65	39.90	15.78	5.13	0.90	1.05	9.54	8.70		
23	13.95	12.48	14.58	20.46	7.44	42.62	17.08	4.71	0.75	3.00	9.75	8.49		
24	13.95	12.48	15.00	20.98	19.94	46.80	17.34	4.35	0.60	2.85	9.96	8.49		
25	13.95	12.48	16.30	22.80	31.40	48.60	15.26	3.90	0.45	2.70	9.96	8.49		
26	13.95	12.48	19.16	23.32	38.88	47.16	13.32	3.45	0.45	2.55	9.96	8.28		
27	14.16	12.27	20.72	23.58	37.52	49.32	12.48	3.15	0.30	2.40	10.17	8.28		
28	14.16	12.27	22.02	23.84	43.98	54.00	11.85	3.00	0.30	2.25	10.17	8.28		
29	14.37	12.06	22.80	23.32	46.44	56.16	11.01	2.85	0.15	2.10		8.28		
30	14.37	12.06	23.32	22.28	49.68	58.32	9.54	2.70	0.15	1.95		7.86		
31		12.06		22.02	49.68		9.12		0.00	1.95		7.65		
Total	410.31	403.26	427.20	1414.28	602.01	2477.78	821.48	177.72	43.20	29.40	262.29	280.20	7349.13	CMSDAY
Mean	13.68	13.01	14.24	45.62	19.42	82.59	26.50	5.92	1.39	0.95	9.37	9.04	20.13	CMS
Max	14.37	14.16	23.32	162.10	49.68	292.20	83.16	8.49	2.55	3.00	10.17	10.17	292.20	CMS
Min	13.11	12.06	11.85	19.94	7.23	12.69	9.12	2.70	0.00	0.00	8.70	7.65	0.00	CMS
Runoff	35.45	34.84	36.91	122.19	52.01	214.08	70.98	15.36	3.73	2.54	22.66	24.21	634.96	MCM

Momentary Peak 297.80 CMS, at 137.14 m. (MSL.), at 01.00 Hours, on Sep 15, 2016

Runoff Yield 7.61 Liters/Second/Square KM. Momentary Peak Yield 112.500 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Chiang School.

	Ban Chiang	**Amphoe** Phak Di Chumphon	**Changwat** Chaiyaphum
Drainge Area	323 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+234.100 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation**	+243.534 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +239.200 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

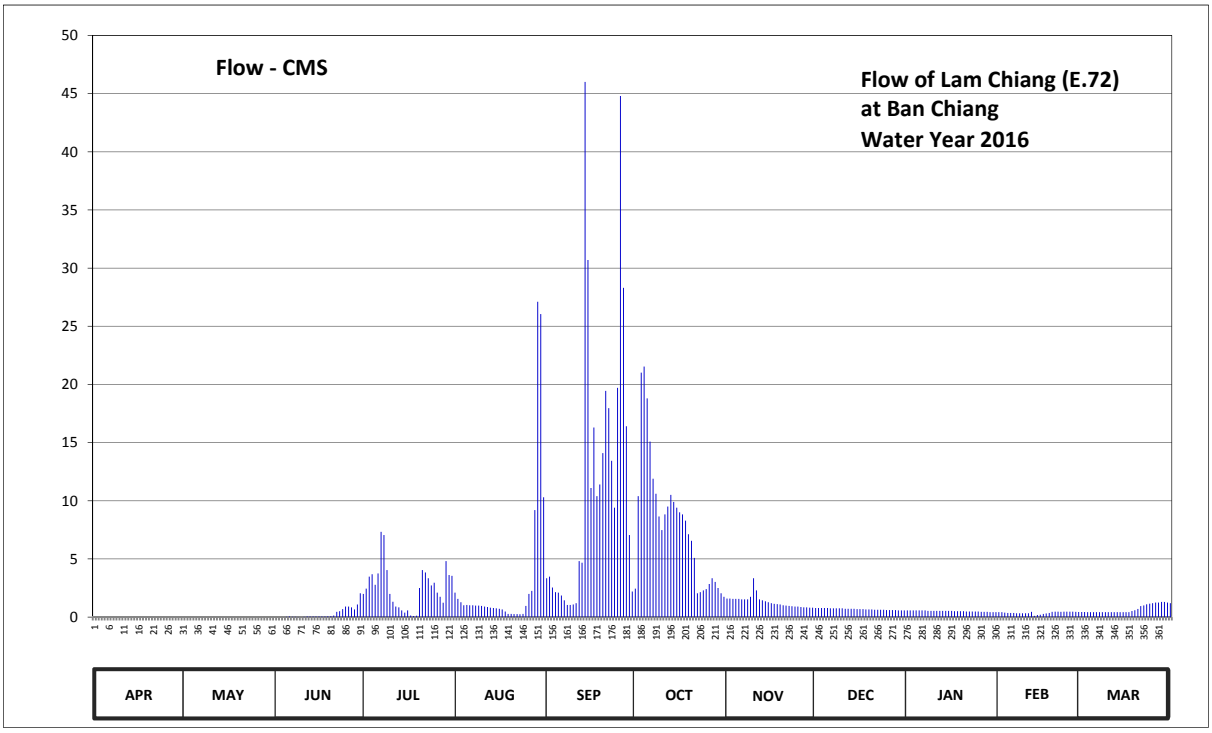
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.33	234.13	234.29	235.08	235.10	235.32	235.17	235.00	234.76	234.69	234.64	235.44	
2	234.32	234.13	234.30	235.17	234.99	235.34	236.23	235.00	234.76	234.69	234.64	235.44	
3	234.31	234.13	234.31	235.34	234.92	235.19	237.17	234.99	234.76	234.69	234.63	235.43	
4	234.30	234.13	234.36	235.37	234.84	235.11	237.21	234.99	234.76	234.69	234.62	235.43	
5	234.29	234.13	234.42	235.23	234.85	235.10	237.00	234.99	234.76	234.69	234.62	235.43	
6	234.28	234.13	234.45	235.38	234.84	235.05	236.68	234.98	234.75	234.69	234.62	235.42	
7	234.27	234.13	234.43	235.89	234.84	234.96	236.38	234.98	234.75	234.69	234.61	235.42	
8	234.26	234.13	234.42	235.85	234.83	234.85	236.25	234.98	234.75	234.68	234.61	235.42	
9	234.25	234.13	234.41	235.42	234.83	234.85	236.05	235.03	234.75	234.68	234.61	235.43	
10	234.23	234.13	234.40	235.08	234.82	234.86	235.91	235.32	234.75	234.68	234.61	235.43	
11	234.23	234.13	234.42	234.93	234.80	234.90	236.07	235.14	234.74	234.68	234.61	235.42	
12	234.23	234.13	234.45	234.80	234.79	235.53	236.14	234.98	234.74	234.68	234.65	235.42	
13	234.22	234.13	234.45	234.78	234.77	235.51	236.24	234.96	234.74	234.68	234.82	235.42	
14	234.22	234.13	234.46	234.69	234.76	238.70	236.18	234.94	234.74	234.68	234.96	235.42	
15	234.21	234.13	234.46	234.63	234.75	237.84	236.13	234.92	234.73	234.68	235.02	235.42	
16	234.21	234.13	234.46	234.69	234.74	236.30	236.09	234.90	234.73	234.68	235.14	235.43	
17	234.20	234.13	234.46	234.52	234.72	236.79	236.07	234.88	234.73	234.67	235.22	235.43	
18	234.20	234.13	234.46	234.50	234.66	236.23	236.01	234.87	234.72	234.67	235.32	235.52	
19	234.19	234.13	234.47	234.51	234.59	236.33	235.86	234.86	234.72	234.67	235.45	235.59	
20	234.19	234.13	234.48	235.18	234.59	236.59	235.78	234.84	234.72	234.67	235.47	235.65	
21	234.18	234.14	234.52	235.42	234.58	237.05	235.57	234.83	234.71	234.66	235.46	235.73	
22	234.17	234.14	234.65	235.39	234.58	236.93	235.09	234.82	234.71	234.66	235.45	235.74	
23	234.17	234.14	234.67	235.32	234.57	236.53	235.11	234.81	234.71	234.66	235.46	235.76	
24	234.16	234.14	234.73	235.22	234.59	236.13	235.14	234.80	234.71	234.66	235.47	235.77	
25	234.16	234.14	234.80	235.26	234.82	237.07	235.16	234.80	234.70	234.66	235.46	235.78	
26	234.15	234.14	234.80	235.10	235.08	238.64	235.24	234.79	234.70	234.65	235.46	235.79	
27	234.15	234.14	234.78	235.03	235.13	237.68	235.32	234.78	234.70	234.65	235.45	235.79	
28	234.14	234.14	234.72	234.91	236.11	236.80	235.27	234.78	234.70	234.65	235.44	235.80	
29	234.13	234.14	234.86	235.53	237.60	235.85	235.18	234.77	234.69	234.64		235.80	
30	234.13	234.21	235.09	235.36	237.53	235.12	235.09	234.77	234.69	234.64		235.79	
31		234.25		235.35	236.22		235.03		234.69	234.64		235.78	
Mean	234.22	234.14	234.53	235.13	235.06	236.11	235.87	234.92	234.73	234.67	235.02	235.57	
Max	234.33	234.25	235.09	235.89	237.60	238.70	237.21	235.32	234.76	234.69	235.47	235.80	238.70
Min	234.13	234.13	234.29	234.50	234.57	234.85	235.03	234.77	234.69	234.64	234.61	235.42	234.13

Annual Max Momentary Gage Height 240.00 m. (MSL.) , at 18.00 Hours, on Sep 14, 2016

Zero Gage at Bottom Elevation 234.10 m. (MSL.) , River Bed 233.93 m. (MSL.)

Left Bank Elevation 243.31 m. (MSL.) ,

Right Bank Elevation 239.10 m. (MSL.) , Drainage Are 323 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	2.00	2.10	3.34	2.45	1.60	0.78	0.57	0.42	0.44	
2	0.00	0.00	0.00	2.45	1.56	3.48	10.40	1.60	0.78	0.57	0.42	0.44	
3	0.00	0.00	0.00	3.48	1.28	2.55	21.01	1.56	0.78	0.57	0.39	0.43	
4	0.00	0.00	0.00	3.69	1.02	2.15	21.53	1.56	0.78	0.57	0.36	0.43	
5	0.00	0.00	0.02	2.78	1.05	2.10	18.80	1.56	0.78	0.57	0.36	0.43	
6	0.00	0.00	0.05	3.76	1.02	1.85	15.08	1.52	0.75	0.57	0.36	0.42	
7	0.00	0.00	0.03	7.33	1.02	1.44	11.90	1.52	0.75	0.57	0.33	0.42	
8	0.00	0.00	0.02	7.05	0.99	1.05	10.60	1.52	0.75	0.54	0.33	0.42	
9	0.00	0.00	0.01	4.04	0.99	1.05	8.65	1.75	0.75	0.54	0.33	0.43	
10	0.00	0.00	0.00	2.00	0.96	1.08	7.48	3.34	0.75	0.54	0.33	0.43	
11	0.00	0.00	0.02	1.32	0.90	1.20	8.83	2.30	0.72	0.54	0.33	0.42	
12	0.00	0.00	0.05	0.90	0.87	4.81	9.50	1.52	0.72	0.54	0.45	0.42	
13	0.00	0.00	0.05	0.84	0.81	4.67	10.50	1.44	0.72	0.54	0.11	0.42	
14	0.00	0.00	0.06	0.57	0.78	46.00	9.90	1.36	0.72	0.54	0.18	0.42	
15	0.00	0.00	0.06	0.39	0.75	30.70	9.40	1.28	0.69	0.54	0.21	0.42	
16	0.00	0.00	0.06	0.57	0.72	11.10	9.01	1.20	0.69	0.54	0.27	0.43	
17	0.00	0.00	0.06	0.14	0.66	16.29	8.83	1.14	0.69	0.51	0.31	0.43	
18	0.00	0.00	0.06	0.10	0.48	10.40	8.29	1.11	0.66	0.51	0.36	0.52	
19	0.00	0.00	0.07	0.12	0.28	11.40	7.12	1.08	0.66	0.51	0.45	0.59	
20	0.00	0.00	0.08	2.50	0.28	14.09	6.56	1.02	0.66	0.51	0.47	0.70	
21	0.00	0.00	0.14	4.04	0.26	19.45	5.09	0.99	0.63	0.48	0.46	0.95	
22	0.00	0.00	0.45	3.83	0.26	17.96	2.05	0.96	0.63	0.48	0.45	1.00	
23	0.00	0.00	0.51	3.34	0.24	13.43	2.15	0.93	0.63	0.48	0.46	1.10	
24	0.00	0.00	0.69	2.72	0.28	9.40	2.30	0.90	0.63	0.48	0.47	1.15	
25	0.00	0.00	0.90	2.96	0.96	19.71	2.40	0.90	0.60	0.48	0.46	1.20	
26	0.00	0.00	0.90	2.10	2.00	44.80	2.84	0.87	0.60	0.45	0.46	1.25	
27	0.00	0.00	0.84	1.75	2.25	28.30	3.34	0.84	0.60	0.45	0.45	1.25	
28	0.00	0.00	0.66	1.24	9.20	16.40	3.02	0.84	0.60	0.45	0.44	1.30	
29	0.00	0.00	1.08	4.81	27.10	7.05	2.50	0.81	0.57	0.42		1.30	
30	0.00	0.00	2.05	3.62	26.05	2.20	2.05	0.81	0.57	0.42		1.25	
31		0.00		3.55	10.30		1.75		0.57	0.42		1.20	
Total	0.00	0.00	8.92	79.99	97.42	349.45	245.33	39.83	21.21	15.90	10.42	22.01	890.48 CMSDAY
Mean	0.00	0.00	0.30	2.58	3.14	11.65	7.91	1.33	0.68	0.51	0.37	0.71	2.44 CMS
Max	0.00	0.00	2.05	7.33	27.10	46.00	21.53	3.34	0.78	0.57	0.47	1.30	46.00 CMS
Min	0.00	0.00	0.00	0.10	0.24	1.05	1.75	0.81	0.57	0.42	0.11	0.42	0.00 CMS
Runoff	0.00	0.00	0.77	6.91	8.42	30.19	21.20	3.44	1.83	1.37	0.90	1.90	76.94 MCM

Momentary Peak 75.00 CMS, at 240.00 m. (MSL.), at 18.00 Hours, on Sep 14, 2016

Runoff Yield 7.55 Liters/Second/Square KM. Momentary Peak Yield 232.200 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

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

Drainge Area	251 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+247.200 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank about 2 meters from the top staff gage. **Elevation** +254.832 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The local weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

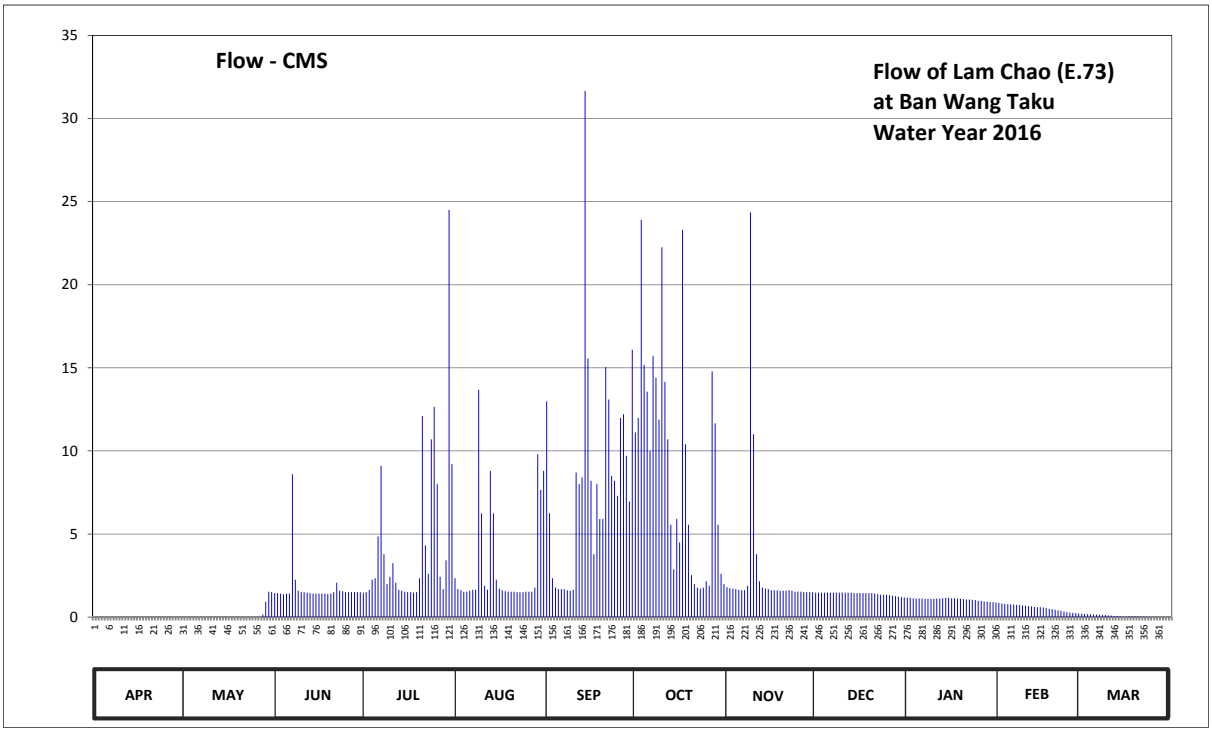
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.64	248.28	249.58	249.59	249.76	250.48	250.31	249.70	249.59	249.48	249.33	249.00	
2	248.63	248.29	249.58	249.60	249.66	249.95	250.39	249.68	249.59	249.48	249.31	248.99	
3	248.62	248.29	249.57	249.65	249.64	249.76	251.28	249.67	249.59	249.47	249.30	248.98	
4	248.61	248.28	249.56	249.75	249.61	249.69	250.66	249.66	249.59	249.46	249.29	248.97	
5	248.60	248.28	249.57	249.76	249.61	249.66	250.53	249.65	249.59	249.46	249.28	248.96	
6	248.58	248.27	249.57	249.91	249.63	249.66	250.20	249.64	249.59	249.46	249.28	248.95	
7	248.57	248.27	250.06	250.11	249.65	249.66	250.70	249.64	249.59	249.45	249.27	248.94	
8	248.55	248.26	249.75	249.86	249.65	249.64	250.60	249.71	249.59	249.45	249.26	248.93	
9	248.53	248.25	249.63	249.72	250.54	249.63	250.38	251.31	249.59	249.45	249.25	248.92	
10	248.48	248.24	249.60	249.77	249.95	249.65	251.17	250.30	249.59	249.45	249.24	248.91	
11	248.38	248.24	249.60	249.83	249.71	250.07	250.58	249.86	249.59	249.46	249.23	248.90	
12	248.30	248.24	249.59	249.73	249.65	250.00	250.27	249.74	249.59	249.46	249.22	248.88	
13	248.30	248.24	249.58	249.65	250.08	250.04	249.93	249.69	249.59	249.47	249.21	248.86	
14	248.30	248.25	249.57	249.63	249.95	251.77	249.81	249.67	249.58	249.48	249.20	248.85	
15	248.29	248.25	249.57	249.61	249.75	250.69	249.94	249.66	249.58	249.48	249.20	248.83	
16	248.29	248.25	249.57	249.60	249.67	250.02	249.90	249.64	249.58	249.47	249.19	248.83	
17	248.29	248.25	249.57	249.60	249.64	249.86	251.24	249.64	249.58	249.47	249.17	248.85	
18	248.28	248.25	249.57	249.59	249.62	250.00	250.24	249.64	249.58	249.46	249.15	248.85	
19	248.28	248.25	249.56	249.60	249.61	249.94	249.93	249.63	249.58	249.45	249.14	248.84	
20	248.29	248.25	249.57	249.76	249.61	249.94	249.78	249.63	249.58	249.44	249.12	248.84	
21	248.29	248.26	249.60	250.40	249.61	250.65	249.72	249.63	249.57	249.43	249.10	248.83	
22	248.29	248.25	249.73	249.89	249.60	250.49	249.69	249.64	249.56	249.43	249.09	248.83	
23	248.29	248.25	249.63	249.79	249.60	250.05	249.67	249.63	249.55	249.42	249.07	248.82	
24	248.29	248.24	249.62	250.27	249.60	250.02	249.69	249.61	249.55	249.41	249.05	248.81	
25	248.29	248.24	249.60	250.45	249.61	249.98	249.74	249.61	249.55	249.39	249.04	248.80	
26	248.28	248.23	249.60	250.00	249.61	250.39	249.71	249.61	249.54	249.39	249.03	248.79	
27	248.28	248.26	249.60	249.77	249.61	250.41	250.63	249.60	249.53	249.37	249.02	248.79	
28	248.29	248.95	249.60	249.66	249.69	250.17	250.36	249.60	249.52	249.36	249.01	248.79	
29	248.28	249.36	249.60	249.84	250.18	249.97	249.93	249.60	249.51	249.35		248.78	
30	248.28	249.61	249.60	251.32	249.99	250.73	249.79	249.60	249.50	249.35		248.77	
31		249.60		250.12	250.08		249.72		249.49	249.34		248.77	
Mean	248.39	248.40	249.61	249.87	249.75	250.10	250.21	249.73	249.57	249.44	249.18	248.87	
Max	248.64	249.61	250.06	251.32	250.54	251.77	251.28	251.31	249.59	249.48	249.33	249.00	251.77
Min	248.28	248.23	249.56	249.59	249.60	249.63	249.67	249.60	249.49	249.34	249.01	248.77	248.23

Annual Max Momentary Gage Height 252.30 m. (MSL.) , at 18.00 Hours, on Nov 9, 2016

Zero Gage at Bottom Elevation 247.20 m. (MSL.) , River Bed 247.65 m. (MSL.)

Left Bank Elevation 258.45 m. (MSL.) ,

Right Bank Elevation 256.38 m. (MSL.) , Drainage Are 251 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.44	1.47	2.34	12.98	11.11	1.80	1.47	1.16	0.86	0.20		
2	0.00	0.00	1.44	1.50	1.68	6.25	11.99	1.74	1.47	1.16	0.82	0.19		
3	0.00	0.00	1.41	1.65	1.62	2.34	23.90	1.71	1.47	1.14	0.80	0.18		
4	0.00	0.00	1.38	2.25	1.53	1.77	15.18	1.68	1.47	1.12	0.78	0.17		
5	0.00	0.00	1.41	2.34	1.53	1.68	13.56	1.65	1.47	1.12	0.76	0.16		
6	0.00	0.00	1.41	4.85	1.59	1.68	10.00	1.62	1.47	1.12	0.76	0.15		
7	0.00	0.00	8.60	9.10	1.65	1.68	15.70	1.62	1.47	1.10	0.74	0.14		
8	0.00	0.00	2.25	3.78	1.65	1.62	14.40	1.89	1.47	1.10	0.72	0.13		
9	0.00	0.00	1.59	1.98	13.68	1.59	11.88	24.35	1.47	1.10	0.70	0.12		
10	0.00	0.00	1.50	2.43	6.25	1.65	22.25	11.00	1.47	1.10	0.68	0.11		
11	0.00	0.00	1.50	3.24	1.89	8.70	14.16	3.78	1.47	1.12	0.66	0.10		
12	0.00	0.00	1.47	2.07	1.65	8.00	10.70	2.16	1.47	1.12	0.64	0.08		
13	0.00	0.00	1.44	1.65	8.80	8.40	5.55	1.77	1.47	1.14	0.62	0.06		
14	0.00	0.00	1.41	1.59	6.25	31.66	2.88	1.71	1.44	1.16	0.60	0.05		
15	0.00	0.00	1.41	1.53	2.25	15.57	5.90	1.68	1.44	1.16	0.60	0.03		
16	0.00	0.00	1.41	1.50	1.71	8.20	4.50	1.62	1.44	1.14	0.58	0.03		
17	0.00	0.00	1.41	1.50	1.62	3.78	23.30	1.62	1.44	1.14	0.54	0.05		
18	0.00	0.00	1.41	1.47	1.56	8.00	10.40	1.62	1.44	1.12	0.50	0.05		
19	0.00	0.00	1.38	1.50	1.53	5.90	5.55	1.59	1.44	1.10	0.48	0.04		
20	0.00	0.00	1.41	2.34	1.53	5.90	2.52	1.59	1.44	1.08	0.44	0.04		
21	0.00	0.00	1.50	12.10	1.53	15.05	1.98	1.59	1.41	1.06	0.40	0.03		
22	0.00	0.00	2.07	4.32	1.50	13.09	1.77	1.62	1.38	1.06	0.38	0.03		
23	0.00	0.00	1.59	2.61	1.50	8.50	1.71	1.59	1.35	1.04	0.34	0.02		
24	0.00	0.00	1.56	10.70	1.50	8.20	1.77	1.53	1.35	1.02	0.30	0.01		
25	0.00	0.00	1.50	12.65	1.53	7.30	2.16	1.53	1.35	0.98	0.28	0.00		
26	0.00	0.00	1.50	8.00	1.53	11.99	1.89	1.53	1.32	0.98	0.26	0.00		
27	0.00	0.00	1.50	2.43	1.53	12.21	14.79	1.50	1.29	0.94	0.24	0.00		
28	0.00	0.15	1.50	1.68	1.77	9.70	11.66	1.50	1.26	0.92	0.22	0.00		
29	0.00	0.92	1.50	3.42	9.80	6.95	5.55	1.50	1.23	0.90		0.00		
30	0.00	1.53	1.50	24.50	7.65	16.09	2.61	1.50	1.20	0.90		0.00		
31		1.50		9.20	8.80		1.98		1.18	0.88		0.00		
Total	0.00	4.10	52.40	141.35	100.95	246.43	283.30	83.59	43.51	33.18	15.70	2.17	1006.68	CMSDAY
Mean	0.00	0.13	1.75	4.56	3.26	8.21	9.14	2.79	1.40	1.07	0.56	0.07	2.76	CMS
Max	0.00	1.53	8.60	24.50	13.68	31.66	23.90	24.35	1.47	1.16	0.86	0.20	31.66	CMS
Min	0.00	0.00	1.38	1.47	1.50	1.59	1.71	1.50	1.18	0.88	0.22	0.00	0.00	CMS
Runoff	0.00	0.35	4.53	12.21	8.72	21.29	24.48	7.22	3.76	2.87	1.36	0.19	86.98	MCM

Momentary Peak 41.00 CMS, at 252.30 m. (MSL.), at 18.00 Hours, on Nov 9, 2016

Runoff Yield 10.99 Liters/Second/Square KM. Momentary Peak Yield 163.350 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Na Charoen.

	Ban Na Charoen	**Amphoe** Nong Bua Daeng	**Changwat** Chaiyaphum
Drainge Area	744 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+222.700 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation**	+236.237 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

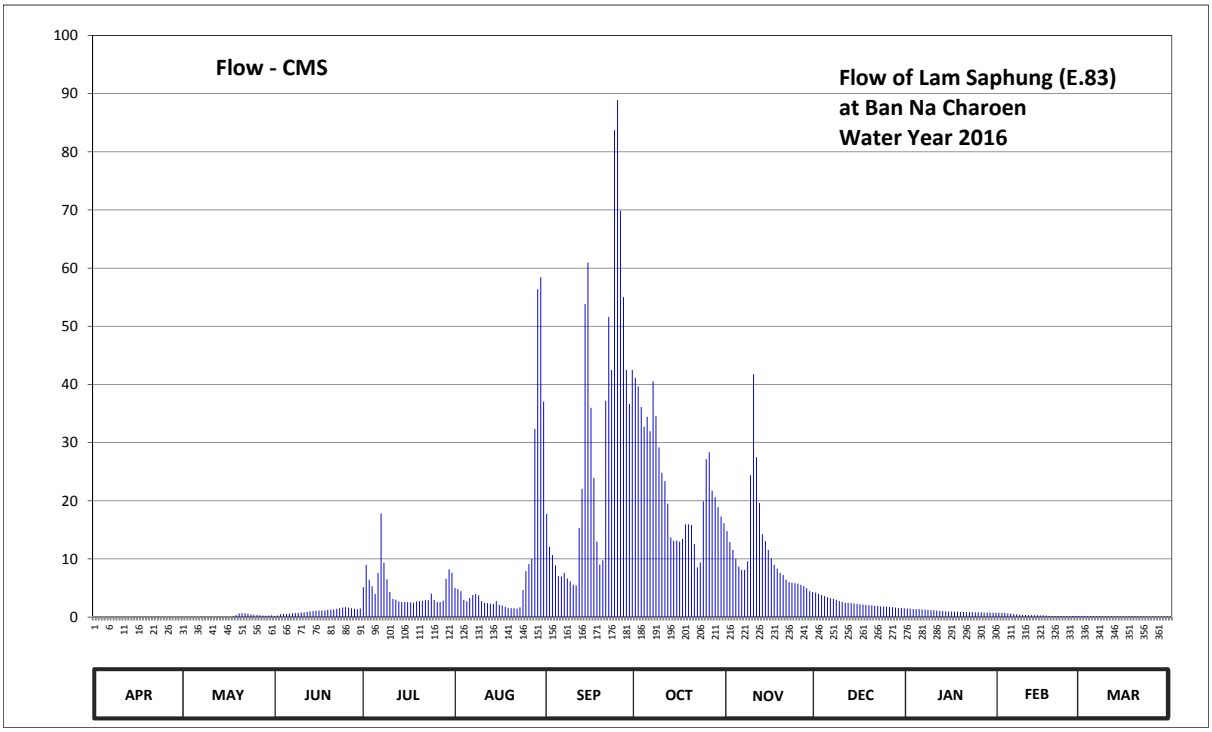
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	222.70	222.70	223.11	224.55	224.52	226.24	228.19	225.93	224.36	223.63	223.38	223.07	
2	222.70	222.70	223.13	225.18	224.48	225.60	228.09	225.70	224.32	223.62	223.37	223.07	
3	222.70	222.70	223.24	224.79	224.41	225.42	227.84	225.53	224.28	223.60	223.35	223.07	
4	222.70	222.70	223.27	224.58	224.09	225.17	227.58	225.33	224.24	223.59	223.32	223.07	
5	222.70	222.70	223.28	224.32	224.03	224.89	227.71	225.14	224.20	223.58	223.30	223.06	
6	222.70	222.70	223.30	224.98	224.17	224.88	227.52	225.06	224.17	223.57	223.28	223.06	
7	222.70	222.70	223.33	226.25	224.28	224.98	228.15	225.06	224.13	223.56	223.25	223.05	
8	222.70	222.70	223.34	225.23	224.31	224.82	227.72	225.27	224.09	223.55	223.21	223.05	
9	222.70	222.70	223.36	224.80	224.27	224.74	227.29	226.88	224.04	223.54	223.18	223.04	
10	222.70	222.70	223.39	224.39	224.04	224.63	226.92	228.23	224.00	223.53	223.18	223.04	
11	222.70	222.70	223.41	224.13	223.96	224.61	226.79	227.15	223.96	223.51	223.17	223.04	
12	222.70	222.70	223.43	224.10	223.93	225.99	226.42	226.43	223.95	223.49	223.17	223.04	
13	222.70	222.70	223.46	224.02	223.90	226.67	225.80	225.87	223.93	223.48	223.17	223.04	
14	222.70	222.71	223.48	223.99	223.89	228.96	225.73	225.72	223.91	223.46	223.17	223.04	
15	222.70	222.76	223.50	223.99	224.04	229.38	225.73	225.53	223.89	223.45	223.15	223.04	
16	222.70	222.79	223.51	223.99	223.83	227.83	225.71	225.34	223.87	223.45	223.15	223.03	
17	222.70	222.85	223.52	223.98	223.80	226.84	225.77	225.19	223.85	223.44	223.13	223.03	
18	222.70	223.00	223.52	223.96	223.72	225.71	226.06	225.09	223.83	223.44	223.11	223.03	
19	222.70	223.16	223.55	224.02	223.65	225.19	226.06	224.98	223.82	223.43	223.10	223.03	
20	222.70	223.32	223.55	224.04	223.65	225.30	226.05	224.92	223.80	223.43	223.10	223.03	
21	222.70	223.34	223.57	224.06	223.64	227.92	225.66	224.79	223.78	223.42	223.10	223.03	
22	222.70	223.33	223.61	224.08	223.62	228.83	225.12	224.72	223.77	223.42	223.09	223.02	
23	222.70	223.29	223.65	224.08	223.69	228.28	225.24	224.70	223.75	223.42	223.08	223.02	
24	222.70	223.22	223.68	224.33	224.45	230.61	226.46	224.69	223.74	223.41	223.07	223.02	
25	222.70	223.20	223.70	224.09	225.03	230.87	227.12	224.67	223.73	223.41	223.07	223.02	
26	222.70	223.18	223.68	223.99	225.20	229.88	227.22	224.63	223.71	223.41	223.08	223.02	
27	222.70	223.16	223.64	223.99	225.33	229.03	226.64	224.58	223.70	223.40	223.08	223.02	
28	222.70	223.14	223.61	224.05	227.55	228.28	226.53	224.51	223.68	223.40	223.08	223.02	
29	222.70	223.12	223.58	224.81	229.11	227.88	226.36	224.41	223.66	223.40		223.02	
30	222.70	223.13	223.63	225.07	229.23	228.28	226.20	224.38	223.65	223.39		223.01	
31		223.15		224.99	227.91		226.08		223.64	223.39		223.01	
Mean	222.70	222.93	223.47	224.41	224.70	226.92	226.64	225.35	223.92	223.48	223.17	223.04	
Max	222.70	223.34	223.70	226.25	229.23	230.87	228.19	228.23	224.36	223.63	223.38	223.07	230.87
Min	222.70	222.70	223.11	223.96	223.62	224.61	225.12	224.38	223.64	223.39	223.07	223.01	222.70

Annual Max Momentary Gage Height 231.49 m. (MSL.) , at 18.00 Hours, on Sep 24, 2016

Zero Gage at Bottom Elevation 222.70 m. (MSL.) , River Bed 223.00 m. (MSL.)

Left Bank Elevation 233.17 m. (MSL.) ,

Right Bank Elevation 232.20 m. (MSL.) , Drainage Are 744 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.22	5.15	5.00	17.70	41.15	14.77	4.20	1.49	0.76	0.17		
2	0.00	0.00	0.26	8.96	4.80	12.10	39.65	12.90	4.00	1.46	0.74	0.17		
3	0.00	0.00	0.48	6.44	4.45	10.66	36.12	11.54	3.80	1.40	0.70	0.17		
4	0.00	0.00	0.54	5.30	2.96	8.89	32.74	10.01	3.60	1.37	0.64	0.17		
5	0.00	0.00	0.56	4.00	2.72	7.04	34.43	8.68	3.40	1.34	0.60	0.16		
6	0.00	0.00	0.60	7.58	3.28	6.98	31.96	8.12	3.28	1.31	0.56	0.16		
7	0.00	0.00	0.66	17.80	3.80	7.58	40.55	8.12	3.12	1.28	0.50	0.15		
8	0.00	0.00	0.68	9.31	3.95	6.62	34.56	9.59	2.96	1.25	0.42	0.15		
9	0.00	0.00	0.72	6.50	3.75	6.14	29.18	24.38	2.76	1.22	0.36	0.14		
10	0.00	0.00	0.78	4.35	2.76	5.55	24.82	41.75	2.60	1.19	0.36	0.14		
11	0.00	0.00	0.83	3.12	2.48	5.45	23.39	27.50	2.48	1.13	0.34	0.14		
12	0.00	0.00	0.89	3.00	2.39	15.31	19.50	19.60	2.45	1.07	0.34	0.14		
13	0.00	0.00	0.98	2.68	2.30	22.07	13.70	14.26	2.39	1.04	0.34	0.14		
14	0.00	0.00	1.04	2.57	2.27	53.82	13.14	13.06	2.33	0.98	0.34	0.14		
15	0.00	0.00	1.10	2.57	2.76	60.96	13.14	11.54	2.27	0.95	0.30	0.14		
16	0.00	0.00	1.13	2.57	2.09	35.99	12.98	10.08	2.21	0.95	0.30	0.13		
17	0.00	0.00	1.16	2.54	2.00	23.94	13.46	9.03	2.15	0.92	0.26	0.13		
18	0.00	0.10	1.16	2.48	1.76	12.98	15.94	8.33	2.09	0.92	0.22	0.13		
19	0.00	0.32	1.25	2.68	1.55	9.03	15.94	7.58	2.06	0.89	0.20	0.13		
20	0.00	0.64	1.25	2.76	1.55	9.80	15.85	7.22	2.00	0.89	0.20	0.13		
21	0.00	0.68	1.31	2.84	1.52	37.18	12.58	6.44	1.94	0.86	0.20	0.13		
22	0.00	0.66	1.43	2.92	1.46	51.61	8.54	6.02	1.91	0.86	0.19	0.12		
23	0.00	0.58	1.55	2.92	1.67	42.50	9.38	5.90	1.85	0.86	0.18	0.12		
24	0.00	0.44	1.64	4.05	4.65	83.70	19.90	5.85	1.82	0.83	0.17	0.12		
25	0.00	0.40	1.70	2.96	7.91	88.90	27.14	5.75	1.79	0.83	0.17	0.12		
26	0.00	0.36	1.64	2.57	9.10	69.84	28.34	5.55	1.73	0.83	0.18	0.12		
27	0.00	0.32	1.52	2.57	10.01	55.01	21.74	5.30	1.70	0.80	0.18	0.12		
28	0.00	0.28	1.43	2.80	32.35	42.50	20.60	4.95	1.64	0.80	0.18	0.12		
29	0.00	0.24	1.34	6.56	56.37	36.64	18.90	4.45	1.58	0.80		0.12		
30	0.00	0.26	1.49	8.19	58.41	42.50	17.30	4.30	1.55	0.78		0.11		
31		0.30		7.64	37.04		16.12		1.52	0.78		0.11		
Total	0.00	5.58	31.34	148.38	279.11	888.99	702.74	332.57	75.18	32.08	9.93	4.24	2510.14	CMSDAY
Mean	0.00	0.18	1.04	4.79	9.00	29.63	22.67	11.09	2.43	1.03	0.35	0.14	6.88	CMS
Max	0.00	0.68	1.70	17.80	58.41	88.90	41.15	41.75	4.20	1.49	0.76	0.17	88.90	CMS
Min	0.00	0.00	0.22	2.48	1.46	5.45	8.54	4.30	1.52	0.78	0.17	0.11	0.00	CMS
Runoff	0.00	0.48	2.71	12.82	24.12	76.81	60.72	28.73	6.50	2.77	0.86	0.37	216.88	MCM

Momentary Peak 101.30 CMS, at 231.49 m. (MSL.), at 18.00 Hours, on Sep 24, 2016

Runoff Yield 9.24 Liters/Second/Square KM. Momentary Peak Yield 136.160 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Nang Dad Khok.

	Ban Nang Dad Khok	**Amphoe** Nong Bua Daeng	**Changwat** Chaiyaphum
Drainge Area	508 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+237.600 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation**	+246.755 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

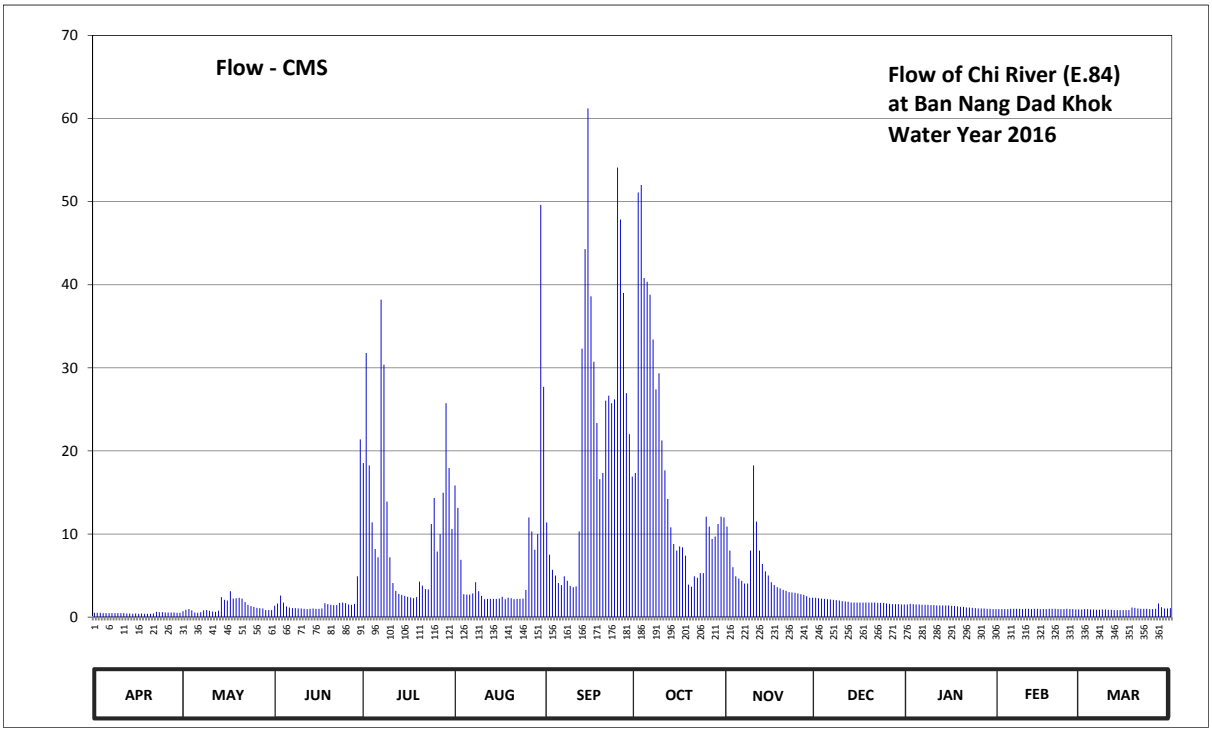
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.13	239.18	239.34	241.27	241.09	240.74	241.19	240.69	239.58	239.38	239.24	239.23	
2	239.13	239.22	239.41	242.13	240.91	240.35	242.97	240.40	239.57	239.40	239.24	239.24	
3	239.13	239.24	239.65	241.25	240.29	240.17	243.00	240.20	239.56	239.39	239.24	239.24	
4	239.12	239.20	239.44	240.74	239.69	240.10	242.58	240.09	239.55	239.38	239.24	239.23	
5	239.12	239.14	239.32	240.42	239.68	240.00	242.56	240.06	239.54	239.38	239.25	239.23	
6	239.12	239.13	239.29	240.32	239.68	239.95	242.49	240.03	239.53	239.37	239.25	239.22	
7	239.12	239.15	239.27	242.46	239.71	240.09	242.22	239.99	239.52	239.37	239.25	239.22	
8	239.12	239.20	239.27	242.05	240.01	240.03	241.86	239.99	239.51	239.37	239.25	239.23	
9	239.12	239.21	239.26	240.96	239.78	239.93	241.99	240.40	239.50	239.36	239.24	239.23	
10	239.12	239.19	239.26	240.32	239.64	239.90	241.45	241.25	239.48	239.36	239.25	239.22	
11	239.12	239.17	239.25	240.00	239.54	239.92	241.21	240.75	239.47	239.35	239.25	239.22	
12	239.11	239.16	239.24	239.79	239.55	240.63	240.98	240.40	239.46	239.35	239.24	239.21	
13	239.11	239.19	239.25	239.70	239.55	242.16	240.68	240.24	239.44	239.35	239.25	239.21	
14	239.10	239.60	239.26	239.67	239.55	242.73	240.48	240.15	239.44	239.35	239.25	239.21	
15	239.11	239.52	239.25	239.64	239.55	243.24	240.40	240.10	239.44	239.35	239.24	239.21	
16	239.10	239.50	239.25	239.61	239.56	242.48	240.45	240.01	239.44	239.34	239.24	239.21	
17	239.11	239.78	239.26	239.59	239.61	242.07	240.44	239.95	239.44	239.33	239.24	239.21	
18	239.10	239.56	239.42	239.57	239.54	241.59	240.34	239.90	239.44	239.32	239.25	239.29	
19	239.10	239.57	239.39	239.60	239.58	241.14	239.96	239.86	239.44	239.31	239.25	239.28	
20	239.10	239.58	239.37	240.02	239.57	241.19	239.91	239.82	239.44	239.31	239.25	239.26	
21	239.11	239.56	239.36	239.94	239.54	241.77	240.09	239.79	239.44	239.29	239.24	239.25	
22	239.16	239.45	239.36	239.84	239.55	241.81	240.07	239.75	239.43	239.29	239.24	239.25	
23	239.15	239.37	239.43	239.83	239.55	241.75	240.13	239.74	239.43	239.28	239.24	239.25	
24	239.15	239.33	239.44	240.72	239.56	241.78	240.13	239.73	239.43	239.27	239.25	239.24	
25	239.14	239.31	239.42	240.99	239.82	243.07	240.81	239.71	239.41	239.26	239.24	239.24	
26	239.14	239.28	239.38	240.39	240.80	242.86	240.69	239.69	239.40	239.26	239.24	239.25	
27	239.14	239.27	239.37	240.60	240.63	242.50	240.54	239.67	239.39	239.26	239.23	239.41	
28	239.14	239.26	239.40	241.03	240.41	241.83	240.57	239.63	239.39	239.25	239.23	239.30	
29	239.13	239.21	240.09	241.75	240.60	241.50	240.72	239.58	239.39	239.25		239.26	
30	239.13	239.21	241.46	241.23	242.92	241.16	240.81	239.58	239.38	239.24		239.26	
31		239.21		240.66	241.88		240.80		239.38	239.24		239.27	
Mean	239.12	239.32	239.44	240.52	240.04	241.28	241.05	240.04	239.46	239.32	239.24	239.24	
Max	239.16	239.78	241.46	242.46	242.92	243.24	243.00	241.25	239.58	239.40	239.25	239.41	243.24
Min	239.10	239.13	239.24	239.57	239.54	239.90	239.91	239.58	239.38	239.24	239.23	239.21	239.10

Annual Max Momentary Gage Height 243.45 m. (MSL.) , at 06.00 Hours, on Sep 15, 2016

Zero Gage at Bottom Elevation 237.60 m. (MSL.) , River Bed 238.24 m. (MSL.)

Left Bank Elevation 243.70 m. (MSL.) ,

Right Bank Elevation 243.70 m. (MSL.) , Drainage Are 508 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.52	0.72	1.36	18.55	15.85	11.40	17.35	10.90	2.32	1.52	0.96	0.92		
2	0.52	0.88	1.64	31.78	13.15	7.50	51.10	8.00	2.28	1.60	0.96	0.96		
3	0.52	0.96	2.60	18.25	6.90	5.70	52.00	6.00	2.24	1.56	0.96	0.96		
4	0.48	0.80	1.76	11.40	2.76	5.00	40.80	4.91	2.20	1.52	0.96	0.92		
5	0.48	0.56	1.28	8.20	2.72	4.10	40.35	4.64	2.16	1.52	1.00	0.92		
6	0.48	0.52	1.16	7.20	2.72	3.85	38.80	4.37	2.12	1.48	1.00	0.88		
7	0.48	0.60	1.08	38.20	2.84	4.91	33.40	4.05	2.08	1.48	1.00	0.88		
8	0.48	0.80	1.08	30.38	4.19	4.37	27.40	4.05	2.04	1.48	1.00	0.92		
9	0.48	0.84	1.04	13.90	3.12	3.75	29.35	8.00	2.00	1.44	0.96	0.92		
10	0.48	0.76	1.04	7.20	2.56	3.60	21.25	18.25	1.92	1.44	1.00	0.88		
11	0.48	0.68	1.00	4.10	2.16	3.70	17.65	11.50	1.88	1.40	1.00	0.88		
12	0.44	0.64	0.96	3.16	2.20	10.30	14.20	8.00	1.84	1.40	0.96	0.84		
13	0.44	0.76	1.00	2.80	2.20	32.30	10.80	6.40	1.76	1.40	1.00	0.84		
14	0.40	2.40	1.04	2.68	2.20	44.28	8.80	5.50	1.76	1.40	1.00	0.84		
15	0.44	2.08	1.00	2.56	2.20	61.20	8.00	5.00	1.76	1.40	0.96	0.84		
16	0.40	2.00	1.00	2.44	2.24	38.60	8.50	4.19	1.76	1.36	0.96	0.84		
17	0.44	3.12	1.04	2.36	2.44	30.73	8.40	3.85	1.76	1.32	0.96	0.84		
18	0.40	2.24	1.68	2.28	2.16	23.35	7.40	3.60	1.76	1.28	1.00	1.16		
19	0.40	2.28	1.56	2.40	2.32	16.60	3.90	3.44	1.76	1.24	1.00	1.12		
20	0.40	2.32	1.48	4.28	2.28	17.35	3.65	3.28	1.76	1.24	1.00	1.04		
21	0.44	2.24	1.44	3.80	2.16	26.05	4.91	3.16	1.76	1.16	0.96	1.00		
22	0.64	1.80	1.44	3.36	2.20	26.65	4.73	3.00	1.72	1.16	0.96	1.00		
23	0.60	1.48	1.72	3.32	2.20	25.75	5.30	2.96	1.72	1.12	0.96	1.00		
24	0.60	1.32	1.76	11.20	2.24	26.20	5.30	2.92	1.72	1.08	1.00	0.96		
25	0.56	1.24	1.68	14.35	3.28	54.10	12.10	2.84	1.64	1.04	0.96	0.96		
26	0.56	1.12	1.52	7.90	12.00	47.84	10.90	2.76	1.60	1.04	0.96	1.00		
27	0.56	1.08	1.48	10.00	10.30	39.00	9.40	2.68	1.56	1.04	0.92	1.64		
28	0.56	1.04	1.60	14.95	8.10	26.95	9.70	2.52	1.56	1.00	0.92	1.20		
29	0.52	0.84	4.91	25.75	10.00	22.00	11.20	2.32	1.56	1.00		1.04		
30	0.52	0.84	21.40	17.95	49.60	16.90	12.10	2.32	1.52	0.96		1.04		
31		0.84		10.60	27.70		12.00		1.52	0.96		1.08		
Total	14.72	39.80	64.75	337.30	208.99	644.03	540.74	155.41	57.04	40.04	27.28	30.32	2160.42	CMSDAY
Mean	0.49	1.28	2.16	10.88	6.74	21.47	17.44	5.18	1.84	1.29	0.97	0.98	5.92	CMS
Max	0.64	3.12	21.40	38.20	49.60	61.20	52.00	18.25	2.32	1.60	1.00	1.64	61.20	CMS
Min	0.40	0.52	0.96	2.28	2.16	3.60	3.65	2.32	1.52	0.96	0.92	0.84	0.40	CMS
Runoff	1.27	3.44	5.59	29.14	18.06	55.64	46.72	13.43	4.93	3.46	2.36	2.62	186.66	MCM

Momentary Peak 73.50 CMS, at 243.45 m. (MSL.), at 06.00 Hours, on Sep 15, 2016

Runoff Yield 11.65 Liters/Second/Square KM. Momentary Peak Yield 144.690 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Non Han.

	Ban Non Han	**Amphoe** Chum Pae	**Changwat** Khon Kaen
Drainge Area	1,218 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+224.800 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation**	+235.165 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

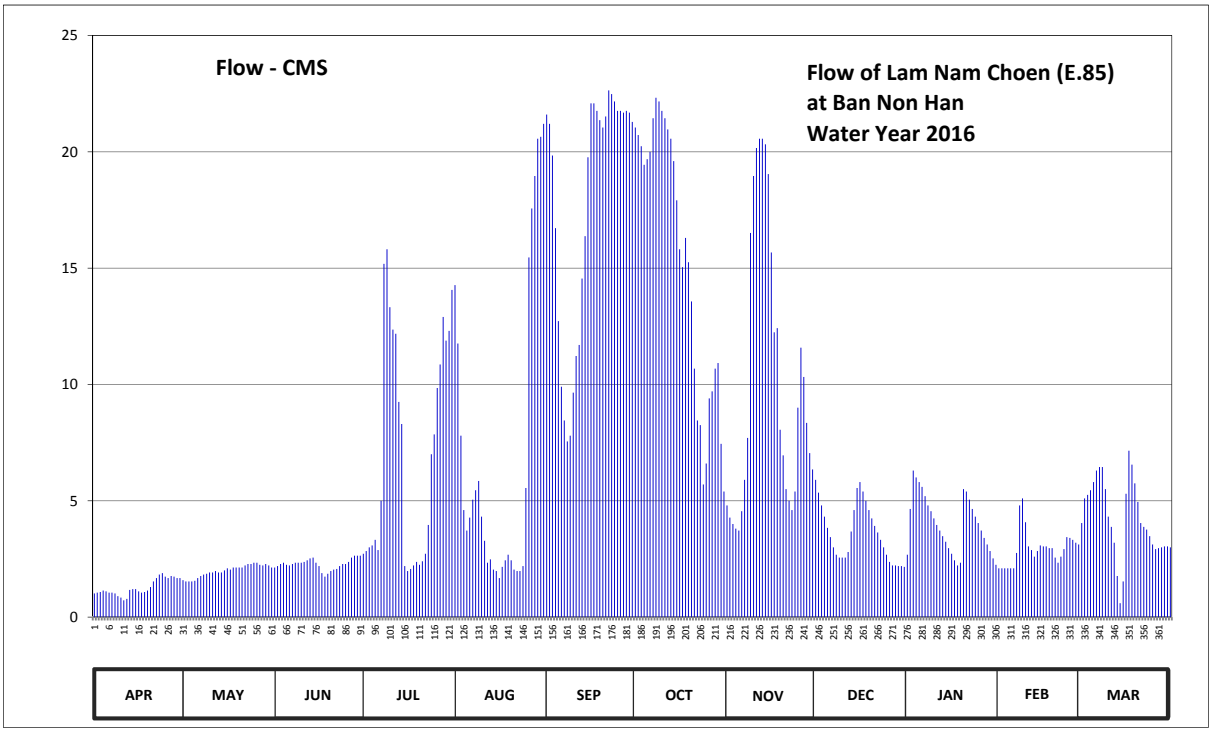
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.14	226.33	226.51	226.68	228.91	229.90	229.83	227.18	227.40	226.67	226.50	227.01	
2	226.15	226.31	226.53	226.71	228.51	229.85	229.79	227.07	227.29	227.15	226.50	227.24	
3	226.16	226.31	226.56	226.75	227.78	229.68	229.73	227.00	227.18	227.48	226.50	227.27	
4	226.18	226.31	226.58	226.77	227.14	229.26	229.63	226.95	227.08	227.42	226.50	227.31	
5	226.17	226.32	226.55	226.83	226.93	228.67	229.66	226.93	226.96	227.38	226.50	227.38	
6	226.15	226.36	226.54	226.72	227.07	228.20	229.70	227.13	226.86	227.34	226.50	227.48	
7	226.15	226.39	226.56	227.22	227.23	227.91	229.88	227.40	226.75	227.26	226.69	227.51	
8	226.14	226.41	226.58	229.04	227.31	227.73	229.99	227.76	226.67	227.18	227.18	227.51	
9	226.10	226.42	226.58	229.13	227.39	227.78	229.97	229.23	226.64	227.13	227.24	227.32	
10	226.08	226.44	226.58	228.77	227.08	228.15	229.92	229.57	226.64	227.06	227.02	227.08	
11	226.04	226.44	226.59	228.61	226.82	228.42	229.88	229.72	226.64	226.99	226.76	226.97	
12	226.06	226.46	226.61	228.58	226.58	228.50	229.82	229.77	226.70	226.93	226.72	226.80	
13	226.19	226.44	226.63	228.07	226.62	228.95	229.77	229.77	226.92	226.87	226.65	226.39	
14	226.20	226.44	226.64	227.88	226.48	229.21	229.65	229.74	227.14	226.81	226.71	226.00	
15	226.20	226.47	226.58	226.53	226.46	229.67	229.43	229.58	227.33	226.74	226.77	226.31	
16	226.17	226.50	226.53	226.46	226.36	229.96	229.13	229.11	227.38	226.68	226.76	227.28	
17	226.15	226.48	226.43	226.49	226.52	229.96	229.02	228.59	227.30	226.61	226.76	227.65	
18	226.16	226.51	226.38	226.54	226.61	229.92	229.20	228.62	227.22	226.54	226.74	227.53	
19	226.18	226.51	226.42	226.59	226.67	229.87	229.05	227.83	227.14	226.58	226.74	227.37	
20	226.23	226.51	226.46	226.55	226.61	229.83	228.81	227.61	227.06	227.32	226.64	227.21	
21	226.31	226.51	226.48	226.60	226.48	229.89	228.33	227.32	226.98	227.30	226.58	227.01	
22	226.36	226.54	226.49	226.68	226.46	230.03	227.91	227.22	226.91	227.23	226.65	226.97	
23	226.41	226.56	226.53	226.99	226.46	230.01	227.87	227.14	226.83	227.15	226.73	226.94	
24	226.43	226.56	226.56	227.62	226.53	229.97	227.36	227.30	226.75	227.08	226.86	226.87	
25	226.38	226.58	226.56	227.79	227.33	229.92	227.54	228.02	226.67	227.01	226.85	226.78	
26	226.36	226.58	226.59	228.19	229.08	229.92	228.10	228.48	226.59	226.93	226.83	226.73	
27	226.39	226.55	226.64	228.36	229.38	229.91	228.16	228.27	226.54	226.85	226.80	226.74	
28	226.38	226.54	226.66	228.70	229.57	229.92	228.33	227.89	226.54	226.78	226.78	226.75	
29	226.36	226.56	226.66	228.53	229.77	229.91	228.37	227.63	226.53	226.71		226.76	
30	226.36	226.54	226.66	228.60	229.78	229.86	227.71	227.49	226.53	226.63		226.76	
31		226.51		228.88	229.85		227.30		226.52	226.55		226.75	
Mean	226.22	226.46	226.56	227.54	227.48	229.36	228.99	228.11	226.89	226.98	226.73	227.02	
Max	226.43	226.58	226.66	229.13	229.85	230.03	229.99	229.77	227.40	227.48	227.24	227.65	230.03
Min	226.04	226.31	226.38	226.46	226.36	227.73	227.30	226.93	226.52	226.54	226.50	226.00	226.00

Annual Max Momentary Gage Height 230.06 m. (MSL.) , at 17.00 Hours, on Sep 16, 2016

Zero Gage at Bottom Elevation 224.80 m. (MSL.) , River Bed 225.77 m. (MSL.)

Left Bank Elevation 233.83 m. (MSL.) ,

Right Bank Elevation 232.80 m. (MSL.) , Drainage Are 1218 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.02	1.59	2.13	2.72	14.27	21.60	21.04	4.80	5.90	2.68	2.10	4.04	
2	1.05	1.53	2.19	2.84	11.76	21.20	20.72	4.28	5.35	4.65	2.10	5.10	
3	1.08	1.53	2.28	3.00	7.80	19.84	20.24	4.00	4.80	6.30	2.10	5.25	
4	1.14	1.53	2.34	3.08	4.60	16.72	19.44	3.80	4.32	6.00	2.10	5.45	
5	1.11	1.56	2.25	3.32	3.72	12.72	19.68	3.72	3.84	5.80	2.10	5.80	
6	1.05	1.68	2.22	2.88	4.28	9.90	20.00	4.55	3.44	5.60	2.10	6.30	
7	1.05	1.77	2.28	5.00	5.05	8.45	21.44	5.90	3.00	5.20	2.76	6.45	
8	1.02	1.83	2.34	15.18	5.45	7.55	22.32	7.70	2.68	4.80	4.80	6.45	
9	0.90	1.86	2.34	15.81	5.85	7.80	22.16	16.51	2.56	4.55	5.10	5.50	
10	0.84	1.92	2.34	13.32	4.32	9.65	21.76	18.96	2.56	4.24	4.08	4.32	
11	0.72	1.92	2.37	12.36	3.28	11.22	21.44	20.16	2.56	3.96	3.04	3.88	
12	0.78	1.98	2.44	12.18	2.34	11.70	20.96	20.56	2.80	3.72	2.88	3.20	
13	1.17	1.92	2.52	9.25	2.48	14.55	20.56	20.56	3.68	3.48	2.60	1.77	
14	1.20	1.92	2.56	8.30	2.04	16.37	19.60	20.32	4.60	3.24	2.84	0.60	
15	1.20	2.01	2.34	2.19	1.98	19.76	17.91	19.04	5.55	2.96	3.08	1.53	
16	1.11	2.10	2.19	1.98	1.68	22.08	15.81	15.67	5.80	2.72	3.04	5.30	
17	1.05	2.04	1.89	2.07	2.16	22.08	15.04	12.24	5.40	2.44	3.04	7.15	
18	1.08	2.13	1.74	2.22	2.44	21.76	16.30	12.42	5.00	2.22	2.96	6.55	
19	1.14	2.13	1.86	2.37	2.68	21.36	15.25	8.05	4.60	2.34	2.96	5.75	
20	1.29	2.13	1.98	2.25	2.44	21.04	13.57	6.95	4.24	5.50	2.56	4.95	
21	1.53	2.13	2.04	2.40	2.04	21.52	10.68	5.50	3.92	5.40	2.34	4.04	
22	1.68	2.22	2.07	2.72	1.98	22.64	8.45	5.00	3.64	5.05	2.60	3.88	
23	1.83	2.28	2.19	3.96	1.98	22.48	8.25	4.60	3.32	4.65	2.92	3.76	
24	1.89	2.28	2.28	7.00	2.19	22.16	5.70	5.40	3.00	4.32	3.44	3.48	
25	1.74	2.34	2.28	7.85	5.55	21.76	6.60	9.00	2.68	4.04	3.40	3.12	
26	1.68	2.34	2.37	9.85	15.46	21.76	9.40	11.58	2.37	3.72	3.32	2.92	
27	1.77	2.25	2.56	10.86	17.56	21.68	9.70	10.32	2.22	3.40	3.20	2.96	
28	1.74	2.22	2.64	12.90	18.96	21.76	10.68	8.35	2.22	3.12	3.12	3.00	
29	1.68	2.28	2.64	11.88	20.56	21.68	10.92	7.05	2.19	2.84		3.04	
30	1.68	2.22	2.64	12.30	20.64	21.28	7.45	6.35	2.19	2.52		3.04	
31		2.13		14.06	21.20		5.40		2.16	2.25		3.00	
Total	38.22	61.77	68.31	218.10	218.74	536.07	478.47	303.34	112.59	123.71	82.68	131.58	2373.58 CMSDAY
Mean	1.27	1.99	2.28	7.04	7.06	17.87	15.43	10.11	3.63	3.99	2.95	4.24	6.50 CMS
Max	1.89	2.34	2.64	15.81	21.20	22.64	22.32	20.56	5.90	6.30	5.10	7.15	22.64 CMS
Min	0.72	1.53	1.74	1.98	1.68	7.55	5.40	3.72	2.16	2.22	2.10	0.60	0.60 CMS
Runoff	3.30	5.34	5.90	18.84	18.90	46.32	41.34	26.21	9.73	10.69	7.14	11.37	205.08 MCM

Momentary Peak 22.88 CMS, at 230.06 m. (MSL.), at 17.00 Hours, on Sep 16, 2016

Runoff Yield 5.34 Liters/Second/Square KM. Momentary Peak Yield 18.780 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban Don Khanuan	**Amphoe** Kosum Phisai	**Changwat** Maha Sarakham
Drainge Area	29,265 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+138.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+151.082 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 30 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

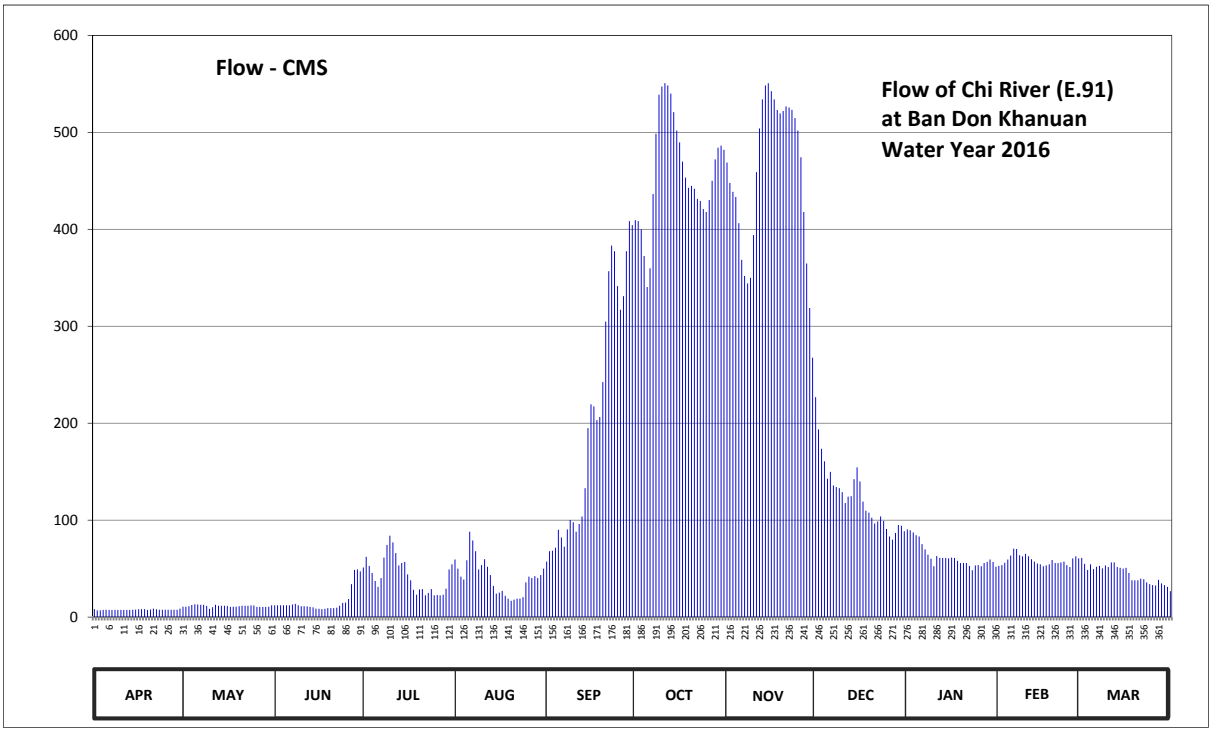
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.41	139.51	139.57	140.78	140.98	140.93	146.12	146.68	143.99	141.68	140.82	141.02	
2	139.35	139.51	139.57	141.05	140.75	141.19	146.11	146.49	143.50	141.66	140.84	140.87	
3	139.35	139.53	139.57	140.82	140.54	141.20	146.03	146.40	143.20	141.61	140.90	140.72	
4	139.37	139.58	139.57	140.64	140.46	141.27	145.75	146.35	143.00	141.55	140.98	140.86	
5	139.38	139.61	139.57	140.42	140.96	141.67	145.42	146.09	142.69	141.52	141.08	140.74	
6	139.37	139.60	139.57	140.24	141.63	141.50	145.62	145.71	142.81	141.35	141.25	140.80	
7	139.37	139.59	139.60	140.50	141.43	141.29	146.38	145.54	142.57	141.23	141.24	140.82	
8	139.37	139.59	139.63	141.03	141.19	141.68	146.95	145.46	142.54	141.10	141.09	140.76	
9	139.37	139.54	139.57	141.33	140.73	141.89	147.29	145.52	142.52	141.00	141.06	140.83	
10	139.37	139.42	139.53	141.54	140.84	141.84	147.36	145.97	142.45	140.81	141.12	140.79	
11	139.37	139.49	139.53	141.39	140.99	141.63	147.39	146.59	142.25	141.07	141.06	140.91	
12	139.37	139.59	139.52	141.14	140.80	141.80	147.37	147.00	142.37	141.02	140.99	140.91	
13	139.37	139.55	139.50	140.83	140.58	141.97	147.30	147.25	142.38	141.02	140.93	140.79	
14	139.38	139.55	139.48	140.89	140.27	142.52	147.14	147.37	142.68	141.02	140.88	140.77	
15	139.39	139.55	139.43	140.92	140.01	143.52	146.98	147.39	142.89	141.01	140.86	140.75	
16	139.40	139.54	139.42	140.60	140.04	143.88	146.87	147.32	142.64	141.03	140.81	140.77	
17	139.41	139.50	139.41	140.44	140.10	143.85	146.69	147.25	142.28	141.02	140.83	140.64	
18	139.41	139.51	139.42	140.14	139.93	143.64	146.54	147.16	142.09	140.95	140.86	140.44	
19	139.37	139.51	139.45	139.97	139.83	143.69	146.44	147.13	142.05	140.89	140.97	140.44	
20	139.39	139.53	139.45	140.15	139.75	144.21	146.46	147.15	141.94	140.89	140.89	140.44	
21	139.43	139.55	139.45	140.16	139.80	145.04	146.43	147.19	141.81	140.89	140.89	140.48	
22	139.40	139.55	139.47	139.95	139.83	145.59	146.33	147.18	141.86	140.82	140.91	140.47	
23	139.38	139.55	139.55	140.03	139.84	145.86	146.31	147.16	141.97	140.71	140.93	140.38	
24	139.38	139.56	139.67	140.16	139.89	145.80	146.23	147.09	141.87	140.83	140.84	140.33	
25	139.38	139.56	139.68	139.95	140.38	145.43	146.20	146.98	141.69	140.84	140.79	140.30	
26	139.38	139.50	139.82	139.96	140.54	145.17	146.32	146.73	141.52	140.81	141.01	140.29	
27	139.38	139.50	140.33	139.95	140.50	145.32	146.51	146.20	141.45	140.89	141.06	140.45	
28	139.38	139.50	140.72	139.97	140.55	145.80	146.71	145.67	141.60	140.92	141.01	140.35	
29	139.38	139.50	140.73	140.18	140.50	146.11	146.82	145.19	141.78	140.98		140.30	
30	139.43	139.51	140.68	140.73	140.58	146.07	146.84	144.56	141.76	140.92		140.24	
31		139.57		140.86	140.75		146.80		141.64	140.80		140.09	
Mean	139.38	139.54	139.68	140.54	140.48	143.38	146.57	146.53	142.32	141.06	140.96	140.60	
Max	139.43	139.61	140.73	141.54	141.63	146.11	147.39	147.39	143.99	141.68	141.25	141.02	147.39
Min	139.35	139.42	139.41	139.95	139.75	140.93	145.42	144.56	141.45	140.71	140.79	140.09	139.35

Annual Max Momentary Gage Height 147.40 m. (MSL.) , at 24.00 Hours, on Nov 14, 2016

Zero Gage at Bottom Elevation 138.00 m. (MSL.) , River Bed 138.30 m. (MSL.)

Left Bank Elevation 150.19 m. (MSL.) ,

Right Bank Elevation 149.51 m. (MSL.) , Drainage Are 29,265 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.25	10.75	12.25	51.18	59.38	57.33	409.48	468.80	226.92	90.48	52.82	61.02	
2	7.00	10.75	12.25	62.25	49.95	67.99	408.44	447.96	193.60	89.56	53.64	54.87	
3	7.00	11.25	12.25	52.82	41.82	68.40	400.12	438.60	173.60	87.26	56.10	48.72	
4	7.40	12.50	12.25	45.62	38.78	71.62	372.50	433.40	160.80	84.50	59.38	54.46	
5	7.60	13.25	12.25	37.26	58.56	90.02	340.48	406.36	142.82	83.12	63.48	49.54	
6	7.40	13.00	12.25	31.20	88.18	82.20	359.76	368.58	149.78	75.30	70.70	52.00	
7	7.40	12.75	13.00	40.30	78.98	72.54	436.52	351.92	135.86	69.78	70.24	52.82	
8	7.40	12.75	13.75	61.43	67.99	90.48	498.50	344.24	134.12	64.30	63.89	50.36	
9	7.40	11.50	12.25	74.38	49.13	100.14	538.80	349.96	132.96	60.20	62.66	53.23	
10	7.40	8.50	11.25	84.04	53.64	97.84	547.20	394.06	128.90	52.41	65.12	51.59	
11	7.40	10.25	11.25	77.14	59.79	88.18	550.80	458.90	117.70	63.07	62.66	56.51	
12	7.40	12.75	11.00	65.94	52.00	96.00	548.40	504.00	124.26	61.02	59.79	56.51	
13	7.40	11.75	10.50	53.23	43.34	103.82	540.00	534.00	124.84	61.02	57.33	51.59	
14	7.60	11.75	10.00	55.69	32.10	132.96	520.80	548.40	142.24	61.02	55.28	50.77	
15	7.80	11.75	8.75	56.92	24.30	194.96	501.80	550.80	154.42	60.61	54.46	49.95	
16	8.00	11.50	8.50	44.10	25.20	219.44	489.70	542.40	139.92	61.43	52.41	50.77	
17	8.25	10.50	8.25	38.02	27.00	217.40	469.90	534.00	119.20	61.02	53.23	45.62	
18	8.25	10.75	8.50	28.20	21.90	203.12	453.40	523.20	109.70	58.15	54.46	38.02	
19	7.40	10.75	9.25	23.10	18.90	206.52	442.76	519.60	107.70	55.69	58.97	38.02	
20	7.80	11.25	9.25	28.50	16.75	242.47	444.84	522.00	102.44	55.69	55.69	38.02	
21	8.75	11.75	9.25	28.80	18.00	304.76	441.72	526.80	96.46	55.69	55.69	39.54	
22	8.00	11.75	9.75	22.50	18.90	356.82	431.32	525.60	98.76	52.82	56.51	39.16	
23	7.60	11.75	11.75	24.90	19.20	383.28	429.24	523.20	103.82	48.31	57.33	35.80	
24	7.60	12.00	14.75	28.80	20.70	377.40	420.92	514.80	99.22	53.23	53.64	34.05	
25	7.60	12.00	15.00	22.50	35.80	341.42	417.80	501.80	90.94	53.64	51.59	33.00	
26	7.60	10.50	18.60	22.80	41.82	316.98	430.28	474.30	83.12	52.41	60.61	32.70	
27	7.60	10.50	34.05	22.50	40.30	331.08	450.10	417.80	79.90	55.69	62.66	38.40	
28	7.60	10.50	48.72	23.10	42.20	377.40	472.10	364.66	86.80	56.92	60.61	34.75	
29	7.60	10.50	49.13	29.40	40.30	408.44	484.20	318.86	95.08	59.38		33.00	
30	8.75	10.75	47.14	49.13	43.34	404.28	486.40	267.56	94.16	56.92		31.20	
31		12.25		54.46	49.95		482.00		88.64	52.00		26.70	
Total	230.25	354.25	477.14	1340.21	1278.20	6105.29	14220.28	13676.56	3838.68	1952.64	1640.95	1382.69	46497.14	CMSDAY
Mean	7.67	11.43	15.90	43.23	41.23	203.51	458.72	455.89	123.83	62.99	58.61	44.60	127.39	CMS
Max	8.75	13.25	49.13	84.04	88.18	408.44	550.80	550.80	226.92	90.48	70.70	61.02	550.80	CMS
Min	7.00	8.50	8.25	22.50	16.75	57.33	340.48	267.56	79.90	48.31	51.59	26.70	7.00	CMS
Runoff	19.89	30.61	41.22	115.79	110.44	527.50	1228.63	1181.65	331.66	168.71	141.78	119.46	4017.35	MCM

Momentary Peak 552.00 CMS, at 147.40 m. (MSL.), at 24.00 Hours, on Nov 14, 2016

Runoff Yield 4.35 Liters/Second/Square KM. Momentary Peak Yield 18.860 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at the bridge.

	Ban Tha Ngam	**Amphoe** Selaphum	**Changwat** Roi Et
Drainge Area	3,359 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+124.500 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +136.964 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +133.340 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

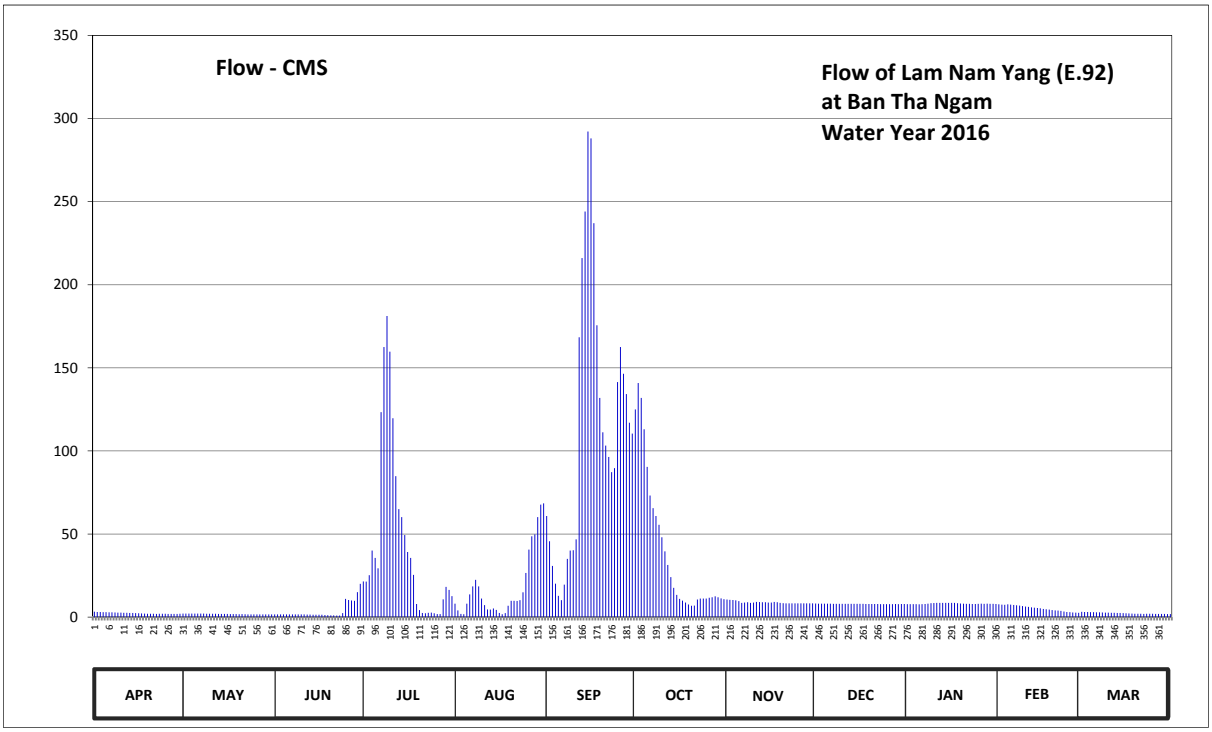
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.13	126.92	126.79	128.60	127.61	130.56	132.15	127.86	127.62	127.58	127.57	127.12	
2	127.11	126.92	126.79	128.59	127.20	129.93	132.43	127.84	127.61	127.58	127.55	127.11	
3	127.11	126.92	126.79	128.85	126.87	129.19	132.28	127.83	127.61	127.58	127.54	127.11	
4	127.10	126.92	126.79	129.65	126.82	128.51	131.92	127.81	127.61	127.58	127.57	127.10	
5	127.10	126.92	126.79	129.43	127.61	128.02	131.36	127.76	127.61	127.57	127.55	127.10	
6	127.08	126.92	126.79	129.12	128.08	127.82	130.93	127.66	127.61	127.58	127.53	127.08	
7	127.07	126.92	126.79	132.12	128.40	128.47	130.72	127.68	127.60	127.59	127.51	127.07	
8	127.06	126.92	126.79	132.75	128.66	129.40	130.56	127.69	127.60	127.61	127.49	127.06	
9	127.04	126.91	126.79	132.99	128.40	129.65	130.38	127.66	127.60	127.64	127.46	127.04	
10	127.03	126.90	126.79	132.71	127.91	129.66	130.05	127.68	127.60	127.65	127.43	127.03	
11	127.02	126.89	126.78	132.05	127.52	129.99	129.63	127.71	127.60	127.66	127.42	127.02	
12	127.01	126.89	126.77	131.22	127.26	132.83	129.22	127.70	127.60	127.66	127.39	127.01	
13	127.00	126.88	126.75	130.70	127.25	133.36	128.77	127.69	127.60	127.66	127.37	127.00	
14	126.99	126.88	126.73	130.54	127.32	133.64	128.34	127.69	127.60	127.66	127.35	126.99	
15	126.98	126.87	126.72	130.12	127.23	134.03	128.06	127.68	127.60	127.66	127.33	126.98	
16	126.96	126.87	126.73	129.61	126.99	134.00	127.90	127.68	127.60	127.66	127.29	126.96	
17	126.95	126.85	126.72	129.43	126.82	133.57	127.79	127.71	127.60	127.66	127.27	126.95	
18	126.92	126.85	126.68	128.86	126.98	132.92	127.68	127.69	127.59	127.64	127.25	126.92	
19	126.90	126.84	126.63	127.59	127.48	132.28	127.56	127.66	127.59	127.62	127.22	126.90	
20	126.89	126.83	126.61	127.22	127.78	131.88	127.48	127.64	127.59	127.61	127.20	126.89	
21	126.89	126.84	126.60	126.99	127.78	131.68	127.49	127.63	127.59	127.60	127.19	126.89	
22	126.88	126.81	126.59	126.97	127.77	131.51	127.86	127.63	127.59	127.60	127.17	126.88	
23	126.89	126.79	126.59	127.01	127.82	131.28	127.91	127.63	127.58	127.59	127.14	126.89	
24	126.89	126.79	126.98	127.03	128.16	131.34	127.91	127.63	127.58	127.59	127.11	126.89	
25	126.89	126.79	127.90	126.97	128.94	132.44	127.91	127.63	127.58	127.60	127.09	126.89	
26	126.88	126.79	127.83	126.84	129.68	132.75	127.94	127.63	127.58	127.61	127.05	126.88	
27	126.87	126.79	127.80	126.84	130.08	132.52	127.96	127.63	127.58	127.60	127.03	126.88	
28	126.87	126.79	127.78	127.87	130.14	132.32	128.00	127.63	127.59	127.61	127.02	126.87	
29	126.88	126.79	128.17	128.38	130.54	132.00	127.96	127.63	127.58	127.60		126.87	
30	126.89	126.78	128.50	128.26	130.79	131.86	127.92	127.63	127.59	127.60		126.86	
31		126.78		128.01	130.81		127.88		127.59	127.59		126.86	
Mean	126.98	126.86	126.99	129.14	128.15	131.31	129.10	127.69	127.60	127.61	127.32	126.97	
Max	127.13	126.92	128.50	132.99	130.81	134.03	132.43	127.86	127.62	127.66	127.57	127.12	134.03
Min	126.87	126.78	126.59	126.84	126.82	127.82	127.48	127.63	127.58	127.57	127.02	126.86	126.59

Annual Max Momentary Gage Height 134.10 m. (MSL.) , at 19.00 Hours, on Sep 15, 2016

Zero Gage at Bottom Elevation 124.50 m. (MSL.) , River Bed 123.85 m. (MSL.)

Left Bank Elevation 133.33 m. (MSL.) ,

Right Bank Elevation 136.60 m. (MSL.) , Drainage Are 3359 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	2.10	1.64	21.50	8.10	60.80	124.95	10.60	8.20	7.80	7.70	3.20	
2	3.10	2.10	1.64	21.35	4.00	45.60	140.80	10.40	8.10	7.80	7.50	3.10	
3	3.10	2.10	1.64	25.25	1.90	30.80	131.92	10.30	8.10	7.80	7.40	3.10	
4	3.00	2.10	1.64	40.00	1.74	20.15	113.00	10.10	8.10	7.80	7.70	3.00	
5	3.00	2.10	1.64	35.60	8.10	12.80	90.40	9.60	8.10	7.70	7.50	3.00	
6	2.90	2.10	1.64	29.40	13.70	10.20	73.20	8.60	8.10	7.80	7.30	2.90	
7	2.85	2.10	1.64	123.36	18.50	19.55	65.60	8.80	8.00	7.90	7.10	2.85	
8	2.80	2.10	1.64	162.50	22.40	35.00	60.80	8.90	8.00	8.10	6.90	2.80	
9	2.70	2.05	1.64	181.20	18.50	40.00	55.50	8.60	8.00	8.40	6.60	2.70	
10	2.65	2.00	1.64	159.70	11.15	40.20	48.00	8.80	8.00	8.50	6.30	2.65	
11	2.60	1.97	1.61	119.65	7.20	46.80	39.60	9.10	8.00	8.60	6.20	2.60	
12	2.55	1.97	1.58	84.80	4.60	168.40	31.40	9.00	8.00	8.60	5.90	2.55	
13	2.50	1.93	1.51	65.00	4.50	216.00	24.05	8.90	8.00	8.60	5.70	2.50	
14	2.45	1.93	1.45	60.20	5.20	244.00	17.60	8.90	8.00	8.60	5.50	2.45	
15	2.40	1.90	1.41	49.40	4.30	292.20	13.40	8.80	8.00	8.60	5.30	2.40	
16	2.30	1.90	1.45	39.20	2.45	288.00	11.00	8.80	8.00	8.60	4.90	2.30	
17	2.25	1.84	1.41	35.60	1.74	237.00	9.90	9.10	8.00	8.60	4.70	2.25	
18	2.10	1.84	1.28	25.40	2.40	175.60	8.80	8.90	7.90	8.40	4.50	2.10	
19	2.00	1.80	1.12	7.90	6.80	131.92	7.60	8.60	7.90	8.20	4.20	2.00	
20	1.97	1.77	1.06	4.20	9.80	111.20	6.80	8.40	7.90	8.10	4.00	1.97	
21	1.97	1.80	1.02	2.45	9.80	103.20	6.90	8.30	7.90	8.00	3.90	1.97	
22	1.93	1.71	0.99	2.35	9.70	96.40	10.60	8.30	7.90	8.00	3.70	1.93	
23	1.97	1.64	0.99	2.55	10.20	87.20	11.15	8.30	7.80	7.90	3.40	1.97	
24	1.97	1.64	2.40	2.65	14.90	89.60	11.15	8.30	7.80	7.90	3.10	1.97	
25	1.97	1.64	11.00	2.35	26.60	141.40	11.15	8.30	7.80	8.00	2.95	1.97	
26	1.93	1.64	10.30	1.80	40.60	162.50	11.60	8.30	7.80	8.10	2.75	1.93	
27	1.90	1.64	10.00	1.80	48.60	146.40	11.90	8.30	7.80	8.00	2.65	1.93	
28	1.90	1.64	9.80	10.70	49.80	134.20	12.50	8.30	7.90	8.10	2.60	1.90	
29	1.93	1.64	15.05	18.20	60.20	117.00	11.90	8.30	7.80	8.00		1.90	
30	1.97	1.61	20.00	16.40	67.70	110.40	11.30	8.30	7.90	8.00		1.87	
31		1.61		12.65	68.40		10.80		7.90	7.90		1.87	
Total	71.96	57.91	111.83	1365.11	563.58	3414.52	1195.27	266.20	246.70	252.40	147.95	73.63	7767.06 CMSDAY
Mean	2.40	1.87	3.73	44.04	18.18	113.82	38.56	8.87	7.96	8.14	5.28	2.38	21.28 CMS
Max	3.30	2.10	20.00	181.20	68.40	292.20	140.80	10.60	8.20	8.60	7.70	3.20	292.20 CMS
Min	1.90	1.61	0.99	1.80	1.74	10.20	6.80	8.30	7.80	7.70	2.60	1.87	0.99 CMS
Runoff	6.22	5.00	9.66	117.95	48.69	295.01	103.27	23.00	21.31	21.81	12.78	6.36	671.07 MCM

Momentary Peak 302.00 CMS, at 134.10 m. (MSL.), at 19.00 Hours, on Sep 15, 2016

Runoff Yield 6.34 Liters/Second/Square KM. Momentary Peak Yield 89.910 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at Wang Yang Barrage.

Ban - **Amphoe** Chiang Khwan **Changwat** Roi Et

Drainge Area	40,780 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+125.000 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank near the relate. **Elevation** +134.953 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2013 to date
Rating Operation	
Period of Rating	2013 to date
Rated by Flot	-
Rated by Current Meter	2013 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

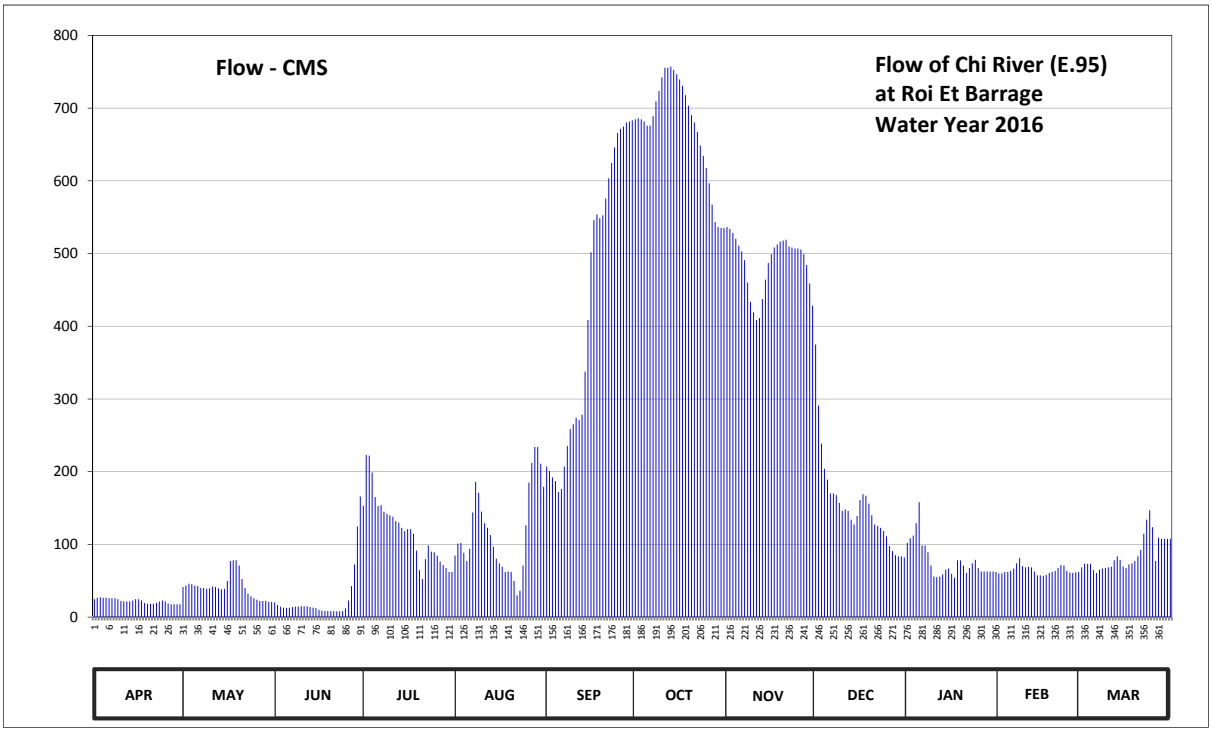
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.92	126.18	125.85	127.53	126.78	128.07	131.81	130.75	129.53	126.99	126.47	126.58	
2	125.95	126.21	125.79	128.22	126.98	128.01	131.82	130.73	128.83	127.06	126.47	126.64	
3	125.96	126.25	125.73	128.21	126.99	127.92	131.81	130.69	128.36	127.10	126.50	126.64	
4	125.95	126.24	125.70	127.99	126.83	127.87	131.79	130.63	128.04	127.29	126.50	126.64	
5	125.95	126.21	125.69	127.65	126.69	127.72	131.75	130.56	127.89	127.58	126.52	126.53	
6	125.94	126.20	125.70	127.53	126.90	127.76	131.75	130.50	127.70	126.95	126.56	126.48	
7	125.94	126.16	125.72	127.54	127.44	128.07	131.84	130.41	127.70	126.95	126.65	126.54	
8	125.94	126.16	125.74	127.45	127.86	128.33	131.98	130.18	127.68	126.84	126.74	126.56	
9	125.92	126.14	125.74	127.42	127.71	128.54	132.08	129.98	127.57	126.61	126.60	126.57	
10	125.88	126.15	125.75	127.40	127.45	128.60	132.21	129.87	127.46	126.40	126.58	126.58	
11	125.87	126.19	125.75	127.38	127.29	128.68	132.30	129.79	127.48	126.39	126.59	126.59	
12	125.87	126.18	125.75	127.32	127.22	128.65	132.30	129.81	127.46	126.40	126.58	126.70	
13	125.87	126.15	125.72	127.30	127.11	128.72	132.31	130.01	127.34	126.45	126.51	126.77	
14	125.89	126.13	125.70	127.22	126.93	129.23	132.28	130.21	127.27	126.54	126.43	126.71	
15	125.92	126.14	125.68	127.17	126.73	129.79	132.24	130.38	127.39	126.56	126.43	126.59	
16	125.92	126.31	125.62	127.20	126.65	130.49	132.19	130.47	127.61	126.46	126.42	126.57	
17	125.89	126.69	125.60	127.20	126.59	130.82	132.13	130.54	127.69	126.38	126.44	126.63	
18	125.84	126.70	125.58	127.13	126.50	130.88	132.04	130.57	127.67	126.70	126.48	126.65	
19	125.82	126.70	125.58	126.87	126.51	130.84	131.94	130.60	127.56	126.70	126.50	126.69	
20	125.82	126.61	125.58	126.53	126.50	130.87	131.85	130.61	127.40	126.61	126.52	126.77	
21	125.82	126.35	125.57	126.35	126.31	131.04	131.78	130.62	127.27	126.48	126.57	126.88	
22	125.84	126.16	125.56	126.72	126.00	131.24	131.69	130.55	127.25	126.57	126.62	127.13	
23	125.87	126.04	125.56	126.95	126.10	131.39	131.56	130.54	127.22	126.65	126.61	127.34	
24	125.89	125.98	125.58	126.85	126.61	131.54	131.46	130.53	127.17	126.71	126.52	127.47	
25	125.87	125.94	125.67	126.84	127.26	131.68	131.34	130.53	127.09	126.57	126.49	127.23	
26	125.83	125.91	125.89	126.78	127.85	131.72	131.19	130.52	126.94	126.51	126.48	126.69	
27	125.81	125.88	126.20	126.68	128.12	131.74	130.98	130.47	126.86	126.51	126.49	127.07	
28	125.81	125.88	126.63	126.62	128.32	131.78	130.80	130.36	126.79	126.51	126.50	127.05	
29	125.81	125.88	127.24	126.57	128.32	131.79	130.75	130.17	126.77	126.51		127.05	
30	125.81	125.86	127.66	126.50	128.11	131.80	130.74	129.94	126.77	126.51		127.05	
31		125.86		126.50	127.79		130.74		126.75	126.50		127.05	
Mean	125.88	126.18	125.85	127.15	127.11	129.85	131.72	130.38	127.50	126.68	126.53	126.79	
Max	125.96	126.70	127.66	128.22	128.32	131.80	132.31	130.75	129.53	127.58	126.74	127.47	132.31
Min	125.81	125.86	125.56	126.35	126.00	127.72	130.74	129.79	126.75	126.38	126.42	126.48	125.56

Annual Max Momentary Gage Height 132.31 m. (MSL.) , at 01.00 Hours, on Oct 13, 2016

Zero Gage at Bottom Elevation 125.00 m. (MSL.) , River Bed 123.57 m. (MSL.)

Left Bank Elevation 133.80 m. (MSL.) ,

Right Bank Elevation 134.41 m. (MSL.) , Drainage Are 40,780 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.71	41.43	20.21	153.00	84.40	207.00	684.64	536.50	374.90	102.10	60.07	68.40	
2	26.64	43.36	16.60	223.20	101.20	201.00	686.08	533.82	290.96	108.40	60.07	73.20	
3	27.29	45.93	14.20	222.10	102.10	192.00	684.64	528.46	238.60	112.00	62.00	73.20	
4	26.64	45.29	13.00	199.00	88.40	187.00	681.76	520.42	204.00	129.10	62.00	73.20	
5	26.64	43.36	12.60	165.00	77.20	172.00	676.00	511.04	189.00	158.00	63.60	64.40	
6	26.00	42.71	13.00	153.00	94.00	176.00	676.00	503.00	170.00	98.50	66.80	60.71	
7	26.00	40.14	13.80	154.00	144.00	207.00	688.96	490.94	170.00	98.50	74.00	65.20	
8	26.00	40.14	14.60	145.00	186.00	235.30	709.12	460.12	168.00	89.20	81.20	66.80	
9	24.71	38.86	14.60	142.00	171.00	258.48	723.52	433.40	157.00	70.80	70.00	67.60	
10	22.14	39.50	15.00	140.00	145.00	265.20	742.28	419.10	146.00	55.57	68.40	68.40	
11	21.50	42.07	15.00	138.00	129.10	274.16	755.60	408.70	148.00	54.93	69.20	69.20	
12	21.50	41.43	15.00	132.00	122.80	270.80	755.60	411.30	146.00	55.57	68.40	78.00	
13	21.50	39.50	13.80	130.00	112.90	278.64	757.08	437.34	134.00	58.79	62.80	83.60	
14	22.79	38.21	13.00	122.80	96.70	337.60	752.64	464.14	127.30	65.20	57.50	78.80	
15	24.71	38.86	12.20	118.30	80.40	408.70	746.72	486.92	139.00	66.80	57.50	69.20	
16	24.71	49.79	9.80	121.00	74.00	501.66	739.36	498.98	161.00	59.43	56.86	67.60	
17	22.79	77.20	9.00	121.00	69.20	545.88	730.72	508.36	169.00	54.29	58.14	72.40	
18	19.57	78.00	8.40	114.70	62.00	553.92	717.76	512.38	167.00	78.00	60.71	74.00	
19	18.29	78.00	8.40	91.60	62.80	548.56	703.36	516.40	156.00	78.00	62.00	77.20	
20	18.29	70.80	8.40	64.40	62.00	552.58	690.40	517.74	140.00	70.80	63.60	83.60	
21	18.29	52.36	8.10	52.36	49.79	575.60	680.32	519.08	127.30	60.71	67.60	92.40	
22	19.57	40.14	7.80	79.60	29.86	603.60	667.36	509.70	125.50	67.60	71.60	114.70	
23	21.50	32.43	7.80	98.50	36.29	624.60	648.64	508.36	122.80	74.00	70.80	134.00	
24	22.79	28.57	8.40	90.00	70.80	645.76	634.40	507.02	118.30	78.80	63.60	147.00	
25	21.50	26.00	11.80	89.20	126.40	665.92	617.60	507.02	111.10	67.60	61.36	123.70	
26	18.93	24.07	22.79	84.40	185.00	671.68	596.60	505.68	97.60	62.80	60.71	77.20	
27	17.64	22.14	42.71	76.40	212.20	674.56	567.32	498.98	90.80	62.80	61.36	109.30	
28	17.64	22.14	72.40	71.60	234.20	680.32	543.20	484.24	85.20	62.80	62.00	107.50	
29	17.64	22.14	124.60	67.60	234.20	681.76	536.50	458.78	83.60	62.80		107.50	
30	17.64	20.86	166.00	62.00	211.10	683.20	535.16	428.20	83.60	62.80		107.50	
31		20.86		62.00	179.00		535.16		82.00	62.00		107.50	
Total	665.56	1286.29	733.01	3683.76	3634.04	12880.48	20864.50	14626.12	4723.56	2388.69	1803.88	2663.01	69952.90 CMSDAY
Mean	22.19	41.49	24.43	118.83	117.23	429.35	673.05	487.54	152.37	77.05	64.42	85.90	191.65 CMS
Max	27.29	78.00	166.00	223.20	234.20	683.20	757.08	536.50	374.90	158.00	81.20	147.00	757.08 CMS
Min	17.64	20.86	7.80	52.36	29.86	172.00	535.16	408.70	82.00	54.29	56.86	60.71	7.80 CMS
Runoff	57.50	111.14	63.33	318.28	313.98	1112.87	1802.69	1263.70	408.12	206.38	155.86	230.08	6043.93 MCM

Momentary Peak 757.08 CMS, at 132.31 m. (MSL.), at 01.00 Hours, on Oct 13, 2016

Runoff Yield 4.70 Liters/Second/Square KM. Momentary Peak Yield 18.560 Liters/Second/Square KM.

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

	Ban -	**Amphoe** Mueang	**Changwat** Yasothon
Drainge Area	46,766 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+117.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the automatic gage building.		**Elevation** +127.055 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +124.02 m.(MSL.), records are channel flow only.		
General Description	Records very good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

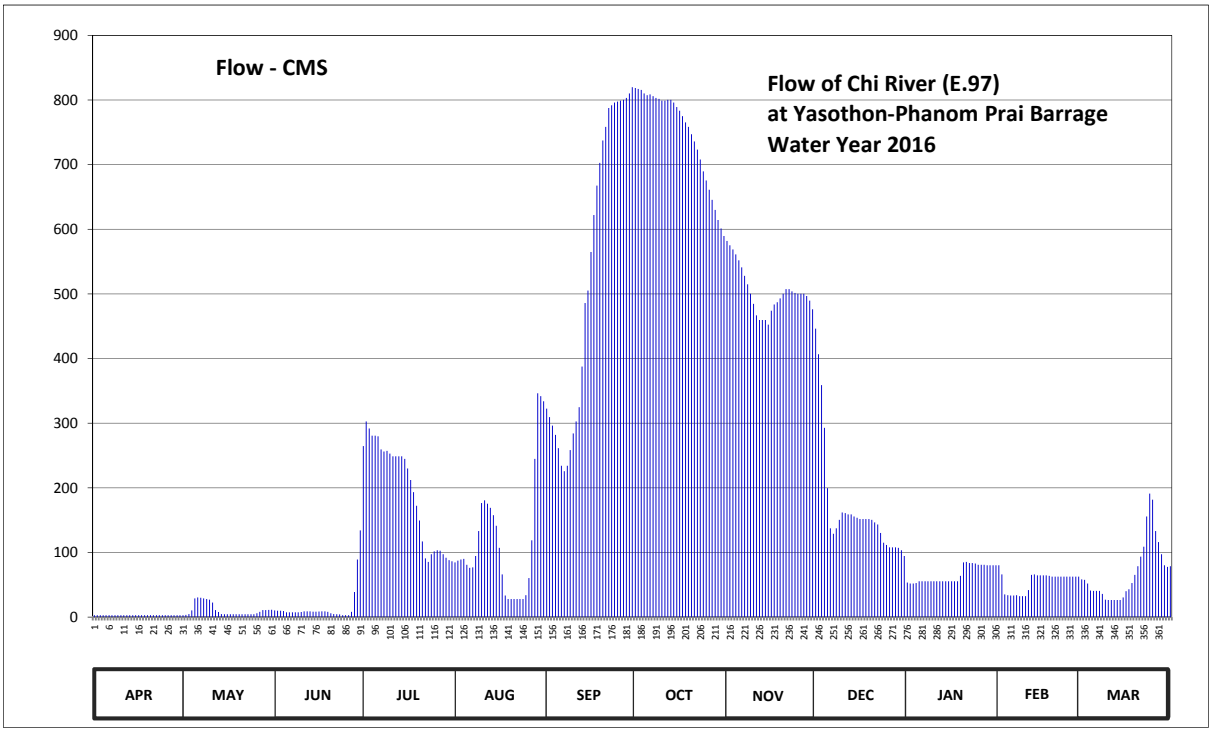
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.55	117.55	117.85	120.93	119.14	121.46	125.39	123.63	122.52	118.72	119.09	118.79	
2	117.55	117.57	117.83	121.28	119.17	121.34	125.38	123.58	122.19	118.70	118.90	118.78	
3	117.55	117.64	117.83	121.18	119.19	121.22	125.37	123.53	121.78	118.70	118.42	118.70	
4	117.55	117.85	117.81	121.08	119.20	121.09	125.33	123.47	121.19	118.71	118.40	118.52	
5	117.55	118.30	117.75	121.08	119.10	120.90	125.31	123.40	120.31	118.75	118.39	118.51	
6	117.55	118.33	117.75	121.07	119.04	120.64	125.32	123.31	119.71	118.75	118.39	118.51	
7	117.55	118.32	117.75	120.88	119.05	120.56	125.30	123.20	119.63	118.75	118.40	118.51	
8	117.55	118.30	117.75	120.85	119.25	120.64	125.28	123.09	119.71	118.75	118.37	118.43	
9	117.55	118.28	117.75	120.86	119.67	120.87	125.27	122.97	119.84	118.75	118.37	118.26	
10	117.55	118.26	117.76	120.82	120.09	121.11	125.25	122.84	119.95	118.75	118.37	118.25	
11	117.55	118.16	117.80	120.78	120.13	121.28	125.25	122.69	119.94	118.75	118.53	118.25	
12	117.55	117.86	117.80	120.78	120.08	121.48	125.26	122.63	119.92	118.75	118.89	118.25	
13	117.55	117.76	117.80	120.78	120.02	122.03	125.26	122.63	119.92	118.75	118.90	118.25	
14	117.55	117.63	117.78	120.78	119.91	122.85	125.23	122.63	119.89	118.75	118.88	118.25	
15	117.55	117.62	117.78	120.74	119.75	123.01	125.18	122.57	119.87	118.75	118.88	118.33	
16	117.55	117.62	117.79	120.60	119.39	123.50	125.14	122.75	119.85	118.75	118.88	118.50	
17	117.55	117.62	117.80	120.43	118.90	123.94	125.08	122.83	119.85	118.75	118.88	118.55	
18	117.55	117.62	117.80	120.25	118.39	124.29	125.01	122.86	119.85	118.75	118.87	118.71	
19	117.55	117.62	117.77	120.05	118.28	124.56	124.96	122.91	119.85	118.87	118.85	118.89	
20	117.55	117.62	117.70	119.83	118.28	124.81	124.88	122.97	119.84	119.14	118.85	119.07	
21	117.55	117.62	117.63	119.50	118.28	124.96	124.80	123.03	119.80	119.15	118.85	119.24	
22	117.55	117.62	117.62	119.21	118.28	125.17	124.71	123.03	119.77	119.13	118.85	119.41	
23	117.55	117.62	117.61	119.15	118.28	125.20	124.60	123.00	119.64	119.13	118.85	119.89	
24	117.55	117.62	117.55	119.28	118.28	125.23	124.46	122.98	119.48	119.12	118.85	120.23	
25	117.55	117.62	117.55	119.33	118.40	125.24	124.35	122.97	119.44	119.10	118.85	120.14	
26	117.55	117.70	117.55	119.35	118.82	125.25	124.24	122.97	119.40	119.10	118.85	119.67	
27	117.55	117.77	117.77	119.34	119.52	125.26	124.12	122.97	119.40	119.10	118.85	119.49	
28	117.55	117.86	118.48	119.28	120.74	125.28	124.00	122.94	119.40	119.09	118.85	119.28	
29	117.55	117.86	119.19	119.22	121.67	125.33	123.88	122.88	119.39	119.09		119.09	
30	117.55	117.87	119.68	119.18	121.63	125.40	123.78	122.77	119.35	119.09		119.06	
31		117.88		119.16	121.56		123.69		119.25	119.09		119.07	
Mean	117.55	117.82	117.88	120.23	119.40	123.13	124.87	123.00	120.00	118.89	118.73	118.87	
Max	117.55	118.33	119.68	121.28	121.67	125.40	125.39	123.63	122.52	119.15	119.09	120.23	125.40
Min	117.55	117.55	117.55	119.15	118.28	120.56	123.69	122.57	119.25	118.70	118.37	118.25	117.55

Annual Max Momentary Gage Height 125.43 m. (MSL.) , at 23.00 Hours, on Sep 30, 2016

Zero Gage at Bottom Elevation 117.00 m. (MSL.) , River Bed 111.42 m. (MSL.)

Left Bank Elevation 126.82 m. (MSL.) ,

Right Bank Elevation 124.01 m. (MSL.) , Drainage Are 46,766 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	3.00	10.50	264.65	84.60	322.60	818.60	581.90	446.40	53.40	80.20	58.30	
2	3.00	3.40	9.90	302.80	87.30	309.40	817.20	575.40	406.80	52.00	66.00	57.60	
3	3.00	4.80	9.90	291.80	89.10	296.20	815.80	568.90	358.92	52.00	35.20	52.00	
4	3.00	10.50	9.30	280.80	90.00	281.90	810.20	561.10	292.90	52.70	34.00	41.20	
5	3.00	29.00	7.50	280.80	81.00	261.50	807.40	552.00	199.55	55.50	33.50	40.60	
6	3.00	30.50	7.50	279.70	76.20	234.20	808.80	541.20	137.28	55.50	33.50	40.60	
7	3.00	30.00	7.50	259.40	77.00	225.80	806.00	528.00	129.08	55.50	34.00	40.60	
8	3.00	29.00	7.50	256.25	94.50	234.20	803.20	514.80	137.28	55.50	32.50	35.80	
9	3.00	28.00	7.50	257.30	133.18	258.35	801.80	500.40	150.60	55.50	32.50	27.00	
10	3.00	27.00	7.80	253.10	176.45	284.10	799.00	484.80	161.88	55.50	32.50	26.50	
11	3.00	22.40	9.00	248.90	180.65	302.80	799.00	466.80	160.85	55.50	41.80	26.50	
12	3.00	10.80	9.00	248.90	175.40	324.80	800.40	459.60	158.80	55.50	65.30	26.50	
13	3.00	7.80	9.00	248.90	169.10	387.60	800.40	459.60	158.80	55.50	66.00	26.50	
14	3.00	4.60	8.40	248.90	157.78	486.00	796.20	459.60	155.73	55.50	64.60	26.50	
15	3.00	4.40	8.40	244.70	141.38	505.20	789.20	452.40	153.68	55.50	64.60	30.50	
16	3.00	4.40	8.70	230.00	107.10	565.00	783.60	474.00	151.63	55.50	64.60	40.00	
17	3.00	4.40	9.00	212.15	66.00	622.20	775.20	483.60	151.63	55.50	64.60	43.00	
18	3.00	4.40	9.00	193.25	33.50	667.70	765.40	487.20	151.63	55.50	63.90	52.70	
19	3.00	4.40	8.10	172.25	28.00	702.80	758.40	493.20	151.63	63.90	62.50	65.30	
20	3.00	4.40	6.00	149.58	28.00	737.40	747.20	500.40	150.60	84.60	62.50	78.60	
21	3.00	4.40	4.60	117.00	28.00	758.40	736.00	507.60	146.50	85.50	62.50	93.60	
22	3.00	4.40	4.40	90.90	28.00	787.80	723.40	507.60	143.43	83.70	62.50	108.90	
23	3.00	4.40	4.20	85.50	28.00	792.00	708.00	504.00	130.10	83.70	62.50	155.73	
24	3.00	4.40	3.00	97.20	28.00	796.20	689.80	501.60	115.20	82.80	62.50	191.15	
25	3.00	4.40	3.00	101.70	34.00	797.60	675.50	500.40	111.60	81.00	62.50	181.70	
26	3.00	6.00	3.00	103.50	60.40	799.00	661.20	500.40	108.00	81.00	62.50	133.18	
27	3.00	8.10	8.10	102.60	118.80	800.40	645.60	500.40	108.00	81.00	62.50	116.10	
28	3.00	10.80	38.80	97.20	244.70	803.20	630.00	496.80	108.00	80.20	62.50	97.20	
29	3.00	10.80	89.10	91.80	346.38	810.20	614.40	489.60	107.10	80.20		80.20	
30	3.00	11.10	134.20	88.20	341.82	820.00	601.40	476.40	103.50	80.20		77.80	
31		11.40		86.40	333.84		589.70		94.50	80.20		78.60	
Total	90.00	347.40	461.90	5986.13	3668.18	15974.55	23178.00	15129.70	5241.60	2035.10	1534.30	2150.46	75797.32 CMSDAY
Mean	3.00	11.21	15.40	193.10	118.33	532.49	747.68	504.32	169.08	65.65	54.80	69.37	207.66 CMS
Max	3.00	30.50	134.20	302.80	346.38	820.00	818.60	581.90	446.40	85.50	80.20	191.15	820.00 CMS
Min	3.00	3.00	3.00	85.50	28.00	225.80	589.70	452.40	94.50	52.00	32.50	26.50	3.00 CMS
Runoff	7.78	30.02	39.91	517.20	316.93	1380.20	2002.58	1307.21	452.87	175.83	132.56	185.80	6548.89 MCM

Momentary Peak 824.20 CMS, at 125.43 m. (MSL.), at 23.00 Hours, on Sep 30, 2016

Runoff Yield 4.44 Liters/Second/Square KM. Momentary Peak Yield 17.620 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Ban Dan Taka.

	Ban Dan Taka	**Amphoe** Chaloem Phra Kiat	**Changwat** Nakhon Ratchasima
Drainge Area	4,724 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+161.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath.	**Elevation**	+169.284 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

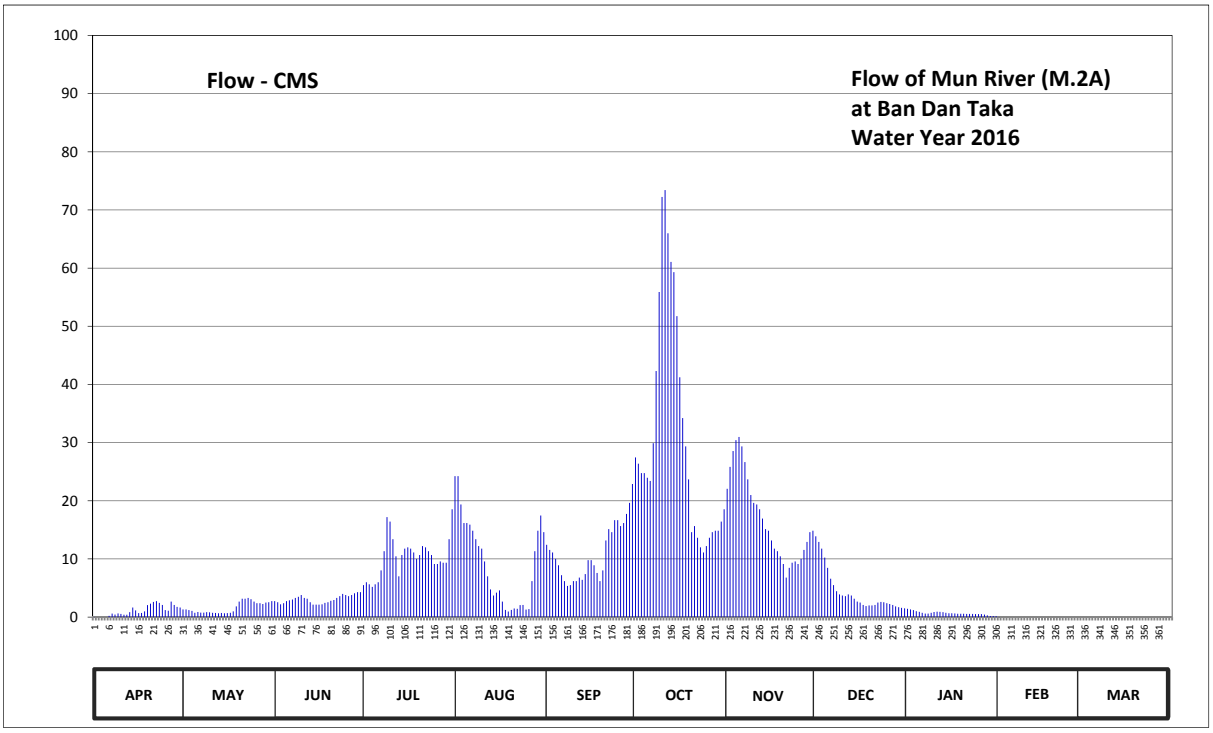
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.81	162.23	162.52	162.78	163.56	163.11	163.68	163.48	163.17	162.26	161.81	161.41	
2	161.78	162.23	162.49	162.81	163.56	163.07	163.64	163.62	163.13	162.23	161.77	161.41	
3	161.76	162.20	162.42	162.79	163.38	163.05	163.58	163.72	163.08	162.20	161.73	161.42	
4	161.75	162.16	162.46	162.76	163.26	163.00	163.58	163.79	163.01	162.14	161.68	161.40	
5	161.76	162.05	162.52	162.79	163.26	162.95	163.55	163.81	162.93	162.10	161.65	161.39	
6	161.87	162.09	162.54	162.81	163.25	162.87	163.53	163.75	162.84	162.05	161.64	161.38	
7	162.00	162.06	162.56	162.91	163.21	162.82	163.77	163.65	162.78	162.00	161.63	161.37	
8	161.95	162.06	162.60	163.06	163.15	162.77	164.23	163.54	162.71	162.00	161.61	161.38	
9	162.01	162.08	162.62	163.30	163.10	162.78	164.71	163.44	162.66	162.05	161.61	161.39	
10	161.98	162.07	162.65	163.27	163.08	162.82	165.17	163.39	162.64	162.09	161.60	161.40	
11	161.94	162.05	162.60	163.15	162.98	162.82	165.20	163.38	162.63	162.11	161.60	161.39	
12	161.94	162.04	162.58	163.02	162.86	162.85	165.01	163.35	162.66	162.10	161.59	161.39	
13	162.08	162.02	162.49	162.86	162.73	162.83	164.87	163.29	162.64	162.08	161.57	161.40	
14	162.31	162.04	162.41	163.03	162.64	162.88	164.82	163.22	162.58	162.05	161.54	161.40	
15	162.18	162.02	162.41	163.08	162.69	162.99	164.57	163.21	162.51	162.02	161.54	161.41	
16	162.03	162.03	162.41	163.09	162.72	162.99	164.19	163.14	162.48	162.02	161.53	161.41	
17	162.04	162.05	162.42	163.08	162.51	162.95	163.93	163.08	162.40	162.01	161.53	161.41	
18	162.13	162.13	162.47	163.05	162.21	162.89	163.75	163.06	162.36	161.99	161.52	161.41	
19	162.39	162.35	162.49	163.00	162.12	162.82	163.54	163.02	162.38	161.99	161.51	161.40	
20	162.44	162.51	162.53	163.03	162.21	162.91	163.20	162.96	162.38	161.99	161.50		
21	162.50	162.58	162.55	163.10	162.27	163.14	163.24	162.85	162.40	161.98	161.49	161.42	
22	162.52	162.58	162.60	163.09	162.26	163.22	163.16	162.93	162.48	161.98	161.49	161.42	
23	162.47	162.60	162.63	163.06	162.39	163.20	163.09	162.97	162.50	161.98	161.48	161.42	
24	162.40	162.57	162.67	163.03	162.40	163.28	163.05	162.98	162.49	161.97	161.47	161.43	
25	162.20	162.51	162.65	162.96	162.22	163.28	163.10	162.96	162.46	161.97	161.44	161.43	
26	162.17	162.46	162.63	162.96	162.24	163.24	163.16	163.00	162.43	161.97	161.43	161.44	
27	162.51	162.46	162.65	162.98	162.82	163.26	163.20	163.07	162.40	161.95	161.43	161.44	
28	162.40	162.43	162.68	162.97	163.06	163.32	163.21	163.13	162.35	161.90	161.42	161.45	
29	162.33	162.48	162.70	162.97	163.21	163.39	163.21	163.20	162.32	161.86		161.45	
30	162.31	162.49	162.70	163.15	163.31	163.51	163.27	163.21	162.30	161.86		161.47	
31		162.52		163.35	163.20		163.35		162.28	161.85		161.47	
Mean	162.13	162.26	162.55	163.01	162.83	163.03	163.79	163.27	162.59	162.02	161.56	161.41	
Max	162.52	162.60	162.70	163.35	163.56	163.51	165.20	163.81	163.17	162.26	161.81	161.47	165.20
Min	161.75	162.02	162.41	162.76	162.12	162.77	163.05	162.85	162.28	161.85	161.42	161.37	161.37

Annual Max Momentary Gage Height 165.25 m. (MSL.) , at 22.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 161.00 m. (MSL.) , River Bed 158.98 m. (MSL.)

Left Bank Elevation 169.01 m. (MSL.) ,

Right Bank Elevation 169.02 m. (MSL.) , Drainage Are 4,724 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	1.32	2.74	5.50	24.22	12.44	27.46	22.06	13.88	1.44	0.03	0.00	
2	0.00	1.32	2.55	6.00	24.22	11.54	26.38	25.84	12.92	1.32	0.00	0.00	
3	0.00	1.20	2.20	5.65	19.36	11.10	24.76	28.54	11.76	1.20	0.00	0.00	
4	0.00	1.08	2.40	5.20	16.16	10.00	24.76	30.43	10.22	1.02	0.00	0.00	
5	0.00	0.75	2.74	5.65	16.16	8.90	23.95	30.97	8.46	0.90	0.00	0.00	
6	0.21	0.87	2.88	6.00	15.90	7.20	23.41	29.35	6.60	0.75	0.00	0.00	
7	0.60	0.78	3.02	8.02	14.86	6.20	29.89	26.65	5.50	0.60	0.00	0.00	
8	0.45	0.78	3.30	11.32	13.40	5.35	42.31	23.68	4.45	0.60	0.00	0.00	
9	0.63	0.84	3.50	17.20	12.20	5.50	55.90	20.98	3.90	0.75	0.00	0.00	
10	0.54	0.81	3.80	16.42	11.76	6.20	72.23	19.63	3.70	0.87	0.00	0.00	
11	0.42	0.75	3.30	13.40	9.56	6.20	73.40	19.36	3.60	0.93	0.00	0.00	
12	0.42	0.72	3.16	10.44	7.00	6.80	65.99	18.55	3.90	0.90	0.00	0.00	
13	0.84	0.66	2.55	7.00	4.75	6.40	61.05	16.94	3.70	0.84	0.00	0.00	
14	1.65	0.72	2.15	10.66	3.70	7.40	59.30	15.12	3.16	0.75	0.00	0.00	
15	1.14	0.66	2.15	11.76	4.20	9.78	51.73	14.86	2.67	0.66	0.00	0.00	
16	0.69	0.69	2.15	11.98	4.60	9.78	41.23	13.16	2.50	0.66	0.00	0.00	
17	0.72	0.75	2.20	11.76	2.67	8.90	34.21	11.76	2.10	0.63	0.00	0.00	
18	0.99	0.99	2.45	11.10	1.24	7.60	29.35	11.32	1.90	0.57	0.00	0.00	
19	2.05	1.85	2.55	10.00	0.96	6.20	23.68	10.44	2.00	0.57	0.00	0.00	
20	2.30	2.67	2.81	10.66	1.24	8.02	14.60	9.12	2.00	0.57	0.00		
21	2.60	3.16	2.95	12.20	1.48	13.16	15.64	6.80	2.10	0.54	0.00	0.00	
22	2.74	3.16	3.30	11.98	1.44	15.12	13.64	8.46	2.50	0.54	0.00	0.00	
23	2.45	3.30	3.60	11.32	2.05	14.60	11.98	9.34	2.60	0.54	0.00	0.00	
24	2.10	3.09	4.00	10.66	2.10	16.68	11.10	9.56	2.55	0.51	0.00	0.00	
25	1.20	2.67	3.80	9.12	1.28	16.68	12.20	9.12	2.40	0.51	0.00	0.00	
26	1.11	2.40	3.60	9.12	1.36	15.64	13.64	10.00	2.25	0.51	0.00	0.00	
27	2.67	2.40	3.80	9.56	6.20	16.16	14.60	11.54	2.10	0.45	0.00	0.00	
28	2.10	2.25	4.10	9.34	11.32	17.74	14.86	12.92	1.85	0.30	0.00	0.00	
29	1.75	2.50	4.30	9.34	14.86	19.63	14.86	14.60	1.70	0.18		0.00	
30	1.65	2.55	4.30	13.40	17.47	22.87	16.42	14.86	1.60	0.18		0.00	
31		2.74		18.55	14.60		18.55		1.52	0.15		0.00	
Total	34.05	50.43	92.35	320.31	282.32	329.79	963.08	505.96	132.09	20.94	0.03	0.00	2731.35	CMSDAY
Mean	1.14	1.63	3.08	10.33	9.11	10.99	31.07	16.87	4.26	0.68	0.00	0.00	7.50	CMS
Max	2.74	3.30	4.30	18.55	24.22	22.87	73.40	30.97	13.88	1.44	0.03	0.00	73.40	CMS
Min	0.00	0.66	2.15	5.20	0.96	5.35	11.10	6.80	1.52	0.15	0.00	0.00	0.00	CMS
Runoff	2.94	4.36	7.98	27.67	24.39	28.49	83.21	43.71	11.41	1.81	0.00	0.00	235.99	MCM

Momentary Peak 75.40 CMS. at 165.25 m. (MSL.) at 22.00 Hours , on Oct 10 , 2016

Runoff Yield 1.58 Liters/Second/Square KM. Momentary Peak Yield 15.960 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

	Ban Phong Sawai	**Amphoe** Tha Tum	**Changwat** Surin
Drainge Area	34,654 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+117.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		**Elevation** +128.995 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1996-1997, 2005 to date		
Rating Operation			
Period of Rating	1996-1997, 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1996-1997, 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 46 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

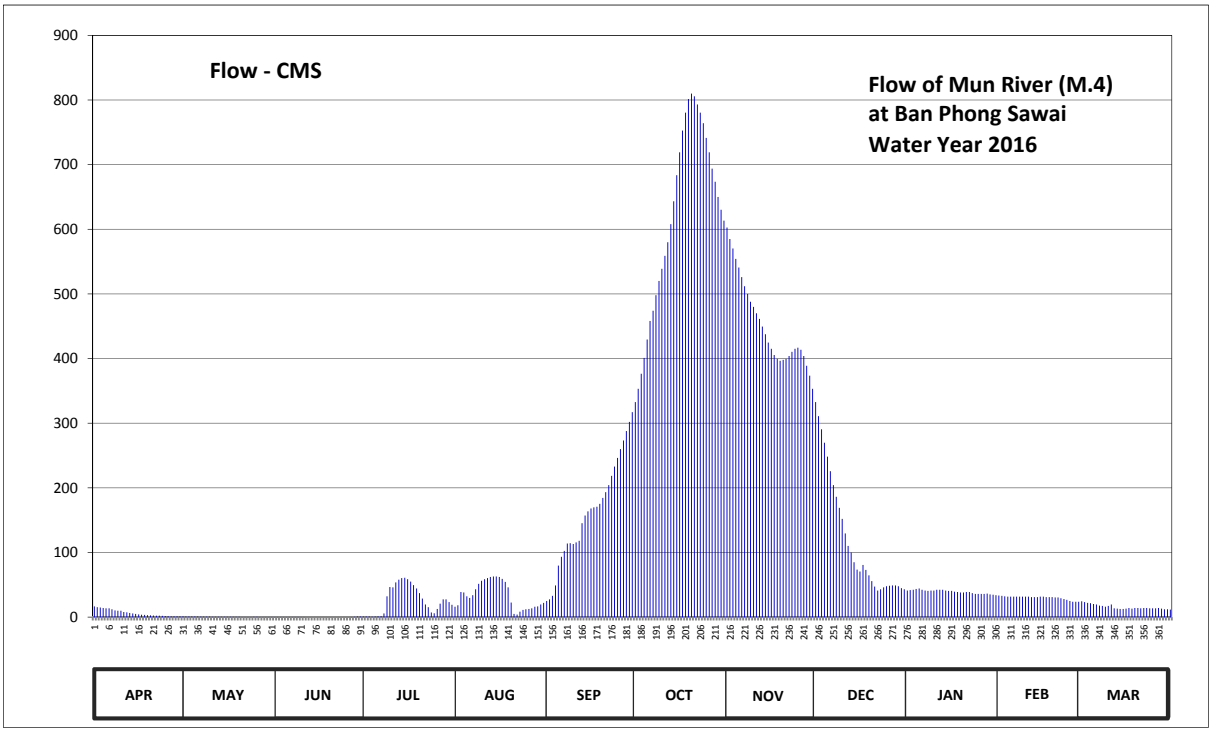
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.86	117.24	117.05	117.21	117.85	118.00	121.97	123.51	121.97	118.27	118.14	117.99	
2	117.84	117.21	117.05	117.19	117.89	118.04	122.14	123.44	121.76	118.28	118.13	117.97	
3	117.83	117.19	117.04	117.17	118.23	118.13	122.31	123.38	121.55	118.29	118.12	117.95	
4	117.82	117.17	117.03	117.15	118.22	118.40	122.48	123.31	121.32	118.31	118.11	117.94	
5	117.81	117.19	117.03	117.17	118.12	118.91	122.66	123.25	121.08	118.32	118.11	117.92	
6	117.81	117.18	117.05	117.22	118.08	119.14	122.83	123.18	120.83	118.29	118.11	117.91	
7	117.78	117.16	117.05	117.28	118.15	119.29	122.92	123.11	120.59	118.27	118.11	117.88	
8	117.75	117.14	117.05	117.62	118.30	119.48	123.04	123.05	120.39	118.26	118.11	117.87	
9	117.74	117.15	117.04	118.12	118.44	119.49	123.15	122.99	120.20	118.27	118.11	117.85	
10	117.74	117.13	117.03	118.36	118.52	119.47	123.24	122.95	120.01	118.27	118.11	117.87	
11	117.70	117.12	117.03	118.35	118.56	119.51	123.33	122.90	119.72	118.29	118.11	117.91	
12	117.68	117.10	117.02	118.48	118.59	119.55	123.42	122.85	119.42	118.29	118.10	117.81	
13	117.65	117.09	117.02	118.55	118.62	119.93	123.53	122.78	119.25	118.29	118.10	117.80	
14	117.62	117.12	117.01	118.59	118.63	120.07	123.65	122.71	119.00	118.27	118.10	117.79	
15	117.60	117.12	117.01	118.60	118.63	120.14	123.77	122.63	118.81	118.26	118.11	117.79	
16	117.56	117.12	117.00	118.56	118.62	120.19	123.87	122.57	118.76	118.26	118.11	117.80	
17	117.54	117.11	117.00	118.50	118.57	120.21	123.96	122.51	118.93	118.24	118.10	117.82	
18	117.52	117.10	116.99	118.41	118.49	120.22	124.03	122.47	118.80	118.23	118.10	117.80	
19	117.49	117.09	116.99	118.32	118.35	120.27	124.08	122.45	118.66	118.22	118.10	117.82	
20	117.46	117.08	116.98	118.20	117.96	120.37	124.10	122.46	118.51	118.22	118.09	117.82	
21	117.44	117.07	116.97	118.06	117.60	120.47	124.09	122.47	118.37	118.23	118.09	117.81	
22	117.42	117.07	116.98	117.91	117.55	120.59	124.06	122.50	118.27	118.23	118.07	117.82	
23	117.41	117.07	116.99	117.84	117.71	120.75	124.03	122.54	118.30	118.20	118.05	117.82	
24	117.38	117.07	117.00	117.67	117.76	120.91	123.99	122.57	118.35	118.18	118.03	117.81	
25	117.33	117.09	117.01	117.63	117.78	121.06	123.93	122.58	118.38	118.18	118.00	117.81	
26	117.29	117.08	117.02	117.79	117.79	121.21	123.87	122.56	118.39	118.18	117.98	117.81	
27	117.26	117.07	117.03	117.93	117.81	121.36	123.80	122.50	118.40	118.18	117.98	117.82	
28	117.24	117.07	117.09	118.04	117.85	121.52	123.74	122.40	118.40	118.19	117.98	117.80	
29	117.22	117.06	117.17	118.04	117.86	121.67	123.67	122.29	118.38	118.17		117.78	
30	117.23	117.05	117.21	117.97	117.91	121.82	123.61	122.14	118.33	118.16		117.78	
31		117.06		117.90	117.95		123.55		118.30	118.15		117.77	
Mean	117.57	117.12	117.03	117.93	118.14	120.01	123.45	122.77	119.40	118.24	118.08	117.84	
Max	117.86	117.24	117.21	118.60	118.63	121.82	124.10	123.51	121.97	118.32	118.14	117.99	124.10
Min	117.22	117.05	116.97	117.15	117.55	118.00	121.97	122.14	118.27	118.15	117.98	117.77	116.97

Annual Max Momentary Gage Height 124.10 m. (MSL.) , at 06.00 Hours , on Oct 20 , 2016

Zero Gage at Bottom Elevation 117.00 m. (MSL.) , River Bed 116.11 m. (MSL.)

Left Bank Elevation 128.76 m. (MSL.) ,

Right Bank Elevation 129.27 m. (MSL.) , Drainage Are 34,654 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.60	1.20	0.25	1.05	16.00	25.00	332.70	602.70	332.70	41.20	33.40	24.40	
2	15.40	1.05	0.25	0.95	18.40	27.40	353.20	585.00	311.00	41.80	32.80	23.20	
3	14.80	0.95	0.20	0.85	38.80	32.80	376.40	570.40	290.50	42.40	32.20	22.00	
4	14.20	0.85	0.15	0.75	38.20	49.00	401.00	554.30	269.80	43.60	31.60	21.40	
5	13.60	0.95	0.15	0.85	32.20	79.60	429.60	541.00	248.20	44.20	31.60	20.20	
6	13.60	0.90	0.25	1.10	29.80	93.40	458.10	526.00	225.70	42.40	31.60	19.60	
7	12.00	0.80	0.25	1.40	34.00	102.40	474.00	512.00	204.10	41.20	31.60	17.80	
8	10.50	0.70	0.25	5.60	43.00	113.80	498.00	500.00	186.10	40.60	31.60	17.20	
9	10.00	0.75	0.20	32.20	51.40	114.40	520.00	488.00	169.00	41.20	31.60	16.00	
10	10.00	0.65	0.15	46.60	56.20	113.20	538.80	480.00	151.90	41.20	31.60	17.20	
11	8.00	0.60	0.15	46.00	58.60	115.60	558.90	470.00	129.40	42.40	31.60	19.60	
12	7.40	0.50	0.10	53.80	60.40	118.00	580.00	461.50	110.20	42.40	31.00	13.60	
13	6.50	0.45	0.10	58.00	62.20	145.40	608.10	449.60	100.00	42.40	31.00	13.00	
14	5.60	0.60	0.05	60.40	62.80	157.30	643.50	437.70	85.00	41.20	31.00	12.50	
15	5.00	0.60	0.05	61.00	62.80	163.60	683.80	424.80	73.60	40.60	31.60	12.50	
16	4.20	0.60	0.00	58.60	62.20	168.10	719.20	415.20	70.60	40.60	31.60	13.00	
17	3.80	0.55	0.00	55.00	59.20	169.90	752.80	405.60	80.80	39.40	31.00	14.20	
18	3.40	0.50	0.00	49.60	54.40	170.80	780.60	399.50	73.00	38.80	31.00	13.00	
19	2.90	0.45	0.00	44.20	46.00	175.30	801.60	396.50	64.60	38.20	31.00	14.20	
20	2.60	0.40	0.00	37.00	22.60	184.30	810.00	398.00	55.60	38.20	30.40	14.20	
21	2.40	0.35	0.00	28.60	5.00	193.30	805.80	399.50	47.20	38.80	30.40	13.60	
22	2.20	0.35	0.00	19.60	4.00	204.10	793.20	404.00	41.20	38.80	29.20	14.20	
23	2.10	0.35	0.00	15.40	8.50	218.50	780.60	410.40	43.00	37.00	28.00	14.20	
24	1.90	0.35	0.00	7.10	11.00	232.90	764.20	415.20	46.00	35.80	26.80	13.60	
25	1.65	0.45	0.05	5.90	12.00	246.40	741.40	416.80	47.80	35.80	25.00	13.60	
26	1.45	0.40	0.10	12.50	12.50	259.90	719.20	413.60	48.40	35.80	23.80	13.60	
27	1.30	0.35	0.15	20.80	13.60	273.40	694.00	404.00	49.00	35.80	23.80	14.20	
28	1.20	0.35	0.45	27.40	16.00	287.80	673.60	389.00	49.00	36.40	23.80	13.00	
29	1.10	0.30	0.85	27.40	16.60	302.00	650.10	373.60	47.80	35.20		12.00	
30	1.15	0.25	1.05	23.20	19.60	317.00	630.30	353.20	44.80	34.60		12.00	
31		0.30		19.00	22.00		613.50		43.00	34.00		11.50	
Total	196.55	17.85	5.20	821.85	1050.00	4854.60	19186.20	13597.10	3739.00	1222.00	841.60	484.30	46016.25	CMSDAY
Mean	6.55	0.58	0.17	26.51	33.87	161.82	618.91	453.24	120.61	39.42	30.06	15.62	126.07	CMS
Max	16.60	1.20	1.05	61.00	62.80	317.00	810.00	602.70	332.70	44.20	33.40	24.40	810.00	CMS
Min	1.10	0.25	0.00	0.75	4.00	25.00	332.70	353.20	41.20	34.00	23.80	11.50	0.00	CMS
Runoff	16.98	1.54	0.45	71.01	90.72	419.44	1657.69	1174.79	323.05	105.58	72.71	41.84	3975.80	MCM

Momentary Peak 810.00 CMS. at 124.10 m. (MSL.) at 06.00 Hours , on Oct 20 , 2016

Runoff Yield 3.64 Liters/Second/Square KM. Momentary Peak Yield 23.370 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

Ban Mueang Kong **Amphoe** Rasi Salai **Changwat** Si Sa Ket

Drainge Area	45,295 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+110.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank downstream side at the footpath of the bridge. **Elevation** +124.814 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1972 to date
Rated by Flot	-
Rated by Current Meter	1972 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site. Stage-discharge relation defined by 86 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

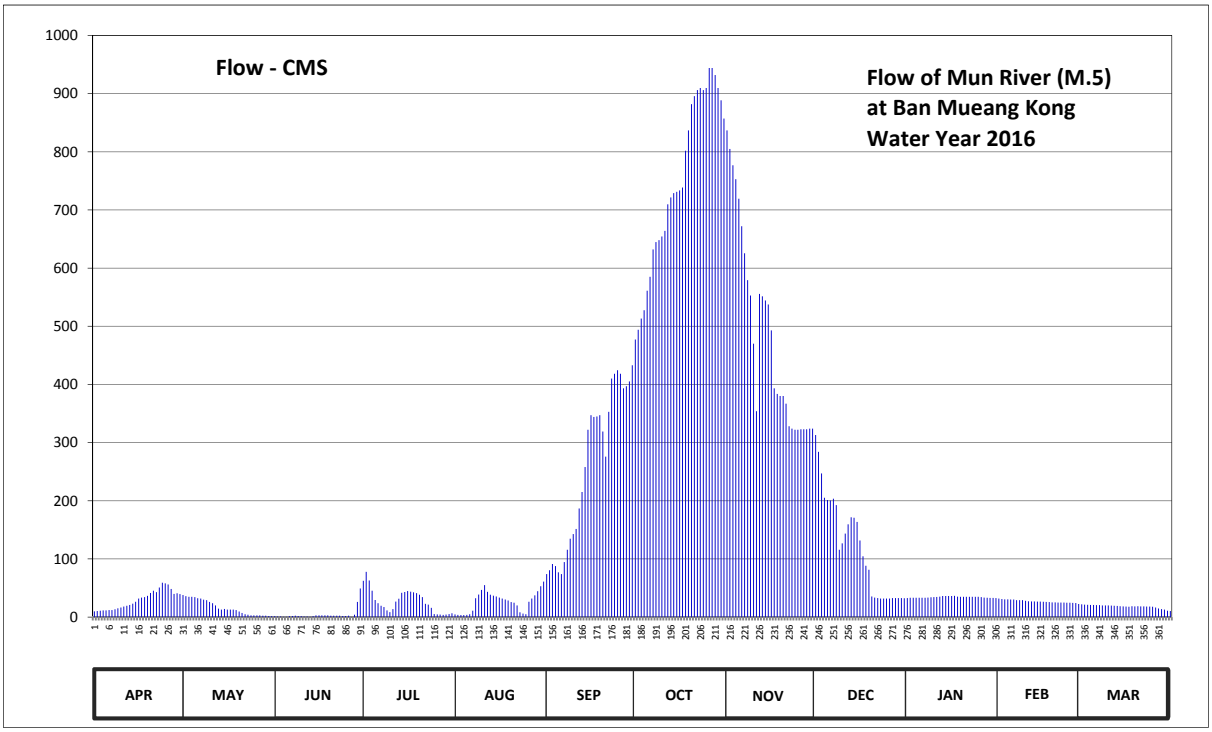
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.20	110.76	110.03	112.22	110.48	111.48	115.81	117.84	114.33	111.42	111.40	111.07	
2	110.21	110.72	110.02	112.41	110.42	111.61	115.95	117.73	114.04	111.44	111.37	111.05	
3	110.22	110.70	110.02	112.23	110.41	111.76	116.11	117.62	113.67	111.44	111.35	111.04	
4	110.23	110.70	110.01	111.85	110.41	111.71	116.23	117.52	113.24	111.44	111.35	111.03	
5	110.23	110.69	110.01	111.31	110.42	111.54	116.48	117.38	113.19	111.44	111.34	111.03	
6	110.24	110.65	110.03	111.13	110.50	111.48	116.65	117.18	113.18	111.44	111.34	111.02	
7	110.24	110.64	110.04	110.98	110.70	111.81	116.95	116.91	113.22	111.44	111.30	111.02	
8	110.27	110.60	110.05	110.91	111.41	112.11	117.03	116.61	113.08	111.45	111.30	111.00	
9	110.30	110.58	110.04	110.72	111.63	112.36	117.05	116.42	112.11	111.47	111.30	111.00	
10	110.33	110.52	110.03	110.62	111.89	112.46	117.09	115.75	112.26	111.48	111.27	111.00	
11	110.36	110.48	110.02	110.79	112.10	112.57	117.14	114.74	112.47	111.49	111.24	110.99	
12	110.39	110.40	110.02	111.22	111.78	113.01	117.34	116.44	112.67	111.51	111.23	110.98	
13	110.42	110.29	110.01	111.39	111.62	113.35	117.39	116.41	112.82	111.54	111.23	110.97	
14	110.46	110.26	110.03	111.73	111.56	113.78	117.42	116.36	112.81	111.54	111.22	110.96	
15	110.53	110.28	110.06	111.77	111.52	114.42	117.43	116.31	112.72	111.54	111.22	110.95	
16	110.64	110.26	110.06	111.83	111.45	114.67	117.44	115.94	112.32	111.54	111.21	110.94	
17	110.67	110.26	110.06	111.79	111.40	114.64	117.46	115.11	111.95	111.55	111.20	110.93	
18	110.69	110.26	110.06	111.75	111.34	114.65	117.72	115.03	111.72	111.51	111.19	110.96	
19	110.73	110.24	110.06	111.71	111.29	114.67	117.84	115.00	111.62	111.50	111.18	110.95	
20	110.83	110.19	110.05	111.62	111.19	114.39	117.99	115.00	111.52	111.50	111.18	110.96	
21	110.91	110.14	110.05	111.48	111.16	113.96	118.03	114.87	111.45	111.50	111.17	110.95	
22	110.86	110.10	110.05	111.09	111.00	114.73	118.06	114.48	111.42	111.50	111.17	110.95	
23	111.02	110.08	110.05	111.05	110.61	115.25	118.07	114.44	111.40	111.50	111.17	110.94	
24	111.18	110.06	110.04	110.86	110.53	115.32	118.06	114.42	111.40	111.50	111.16	110.94	
25	111.16	110.06	110.04	110.51	110.50	115.37	118.07	114.42	111.40	111.50	111.16	110.93	
26	111.12	110.06	110.05	110.47	110.53	115.32	118.16	114.43	111.40	111.48	111.15	110.88	
27	110.97	110.06	110.10	110.46	110.64	115.11	118.16	114.43	111.42	111.45	111.14	110.83	
28	110.80	110.05	110.45	110.43	110.75	115.14	118.13	114.43	111.42	111.44	111.08	110.79	
29	110.82	110.05	111.20	110.46	110.89	115.21	118.07	114.44	111.42	111.43		110.76	
30	110.79	110.04	111.97	110.51	111.06	115.44	118.01	114.44	111.42	111.43		110.70	
31		110.03		110.55	111.22		117.91		111.41	111.42		110.68	
Mean	110.59	110.33	110.16	111.22	111.05	113.64	117.40	115.74	112.27	111.48	111.24	110.94	
Max	111.18	110.76	111.97	112.41	112.10	115.44	118.16	117.84	114.33	111.55	111.40	111.07	118.16
Min	110.20	110.03	110.01	110.43	110.41	111.48	115.81	114.42	111.40	111.42	111.08	110.68	110.01

Annual Max Momentary Gage Height 118.16 m. (MSL.) , at 06.00 Hours , on Oct 26 , 2016

Zero Gage at Bottom Elevation 110.00 m. (MSL.) , River Bed 108.40 m. (MSL.)

Left Bank Elevation 124.54 m. (MSL.) ,

Right Bank Elevation 122.60 m. (MSL.) , Drainage Are 45,295 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.00	38.00	1.50	62.40	4.69	74.00	477.20	836.60	313.00	32.60	32.00	22.10	
2	10.50	36.00	1.00	77.90	3.77	80.70	494.00	804.70	284.00	33.20	31.10	21.50	
3	11.00	35.00	1.00	63.10	3.62	91.20	513.20	776.80	247.00	33.20	30.50	21.20	
4	11.50	35.00	0.50	45.50	3.62	87.70	527.60	752.80	205.20	33.20	30.50	20.90	
5	11.50	34.50	0.50	29.30	3.77	77.00	561.20	719.20	201.20	33.20	30.20	20.90	
6	12.00	32.50	1.50	23.90	5.00	74.00	585.00	672.00	200.40	33.20	30.20	20.60	
7	12.00	32.00	2.00	19.40	11.00	94.70	632.00	625.60	203.60	33.20	29.00	20.60	
8	13.50	30.00	2.50	17.30	32.30	115.70	644.80	579.40	192.40	33.50	29.00	20.00	
9	15.00	29.00	2.00	11.60	38.90	134.80	648.00	552.80	115.70	34.10	29.00	20.00	
10	16.50	26.00	1.50	8.60	46.70	142.80	654.40	470.00	126.80	34.40	28.10	20.00	
11	18.00	24.00	1.00	13.70	55.00	151.60	664.00	354.00	143.60	34.70	27.20	19.70	
12	19.50	20.00	1.00	26.60	43.40	186.80	709.60	555.60	159.60	35.30	26.90	19.40	
13	21.00	14.50	0.50	31.70	38.60	215.00	721.60	551.40	171.60	36.20	26.90	19.10	
14	23.00	13.00	1.50	41.90	36.80	258.00	728.80	544.40	170.80	36.20	26.60	18.80	
15	26.50	14.00	3.00	43.10	35.60	322.00	731.20	537.40	163.60	36.20	26.60	18.50	
16	32.00	13.00	3.00	44.90	33.50	347.00	733.60	492.80	131.60	36.20	26.30	18.20	
17	33.50	13.00	3.00	43.70	32.00	344.00	738.40	393.20	104.50	36.50	26.00	17.90	
18	34.50	13.00	3.00	42.50	30.20	345.00	801.80	383.60	88.40	35.30	25.70	18.80	
19	36.50	12.00	3.00	41.30	28.70	347.00	836.60	380.00	81.40	35.00	25.40	18.50	
20	41.50	9.50	2.50	38.60	25.70	319.00	881.90	380.00	35.60	35.00	25.40	18.80	
21	45.50	7.00	2.50	34.40	24.80	276.00	895.50	367.00	33.50	35.00	25.10	18.50	
22	43.00	5.00	2.50	22.70	20.00	353.00	906.00	328.00	32.60	35.00	25.10	18.50	
23	51.00	4.00	2.50	21.50	8.30	410.00	909.50	324.00	32.00	35.00	25.10	18.20	
24	59.00	3.00	2.00	15.80	5.90	418.40	906.00	322.00	32.00	35.00	24.80	18.20	
25	58.00	3.00	2.00	5.30	5.00	424.40	909.50	322.00	32.00	35.00	24.80	17.90	
26	56.00	3.00	2.50	4.54	26.50	418.40	944.00	323.00	32.00	34.40	24.50	16.40	
27	48.50	3.00	0.20	4.39	32.00	393.20	944.00	323.00	32.60	33.50	24.20	14.90	
28	40.00	2.50	4.23	3.93	37.50	396.80	932.00	323.00	32.60	33.20	22.40	13.70	
29	41.00	2.50	26.00	4.39	44.50	405.20	909.50	324.00	32.60	32.90		12.80	
30	39.50	2.00	49.10	5.30	53.00	432.80	888.50	324.00	32.60	32.90		11.00	
31		1.50		6.50	61.00		857.10		32.30	32.60		10.40	
Total	891.00	510.50	129.03	855.75	831.37	7736.20	23286.50	14642.30	3696.80	1064.90	758.60	566.00	54968.95 CMSDAY
Mean	29.70	16.47	4.30	27.60	26.82	257.87	751.18	488.08	119.25	34.35	27.09	18.26	150.60 CMS
Max	59.00	38.00	49.10	77.90	61.00	432.80	944.00	836.60	313.00	36.50	32.00	22.10	944.00 CMS
Min	10.00	1.50	0.20	3.93	3.62	74.00	477.20	322.00	32.00	32.60	22.40	10.40	0.20 CMS
Runoff	76.98	44.11	11.15	73.94	71.83	668.41	2011.95	1265.09	319.40	92.01	65.54	48.90	4749.32 MCM

Momentary Peak 944.00 CMS. at 118.16 m. (MSL.) at 06.00 Hours , on Oct 26 , 2016

Runoff Yield 3.32 Liters/Second/Square KM. Momentary Peak Yield 20.840 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at Satuk.

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

Drainge Area	28,458 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+123.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +133.541 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1964 to date
Rating Operation	
Period of Rating	1976 to date
Rated by Flot	-
Rated by Current Meter	1976 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Ban Hua Saphan weir situated about 30 Kilometers above gage site and Non Kho weir situated about 10 kilometers downstream from the gage sit. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

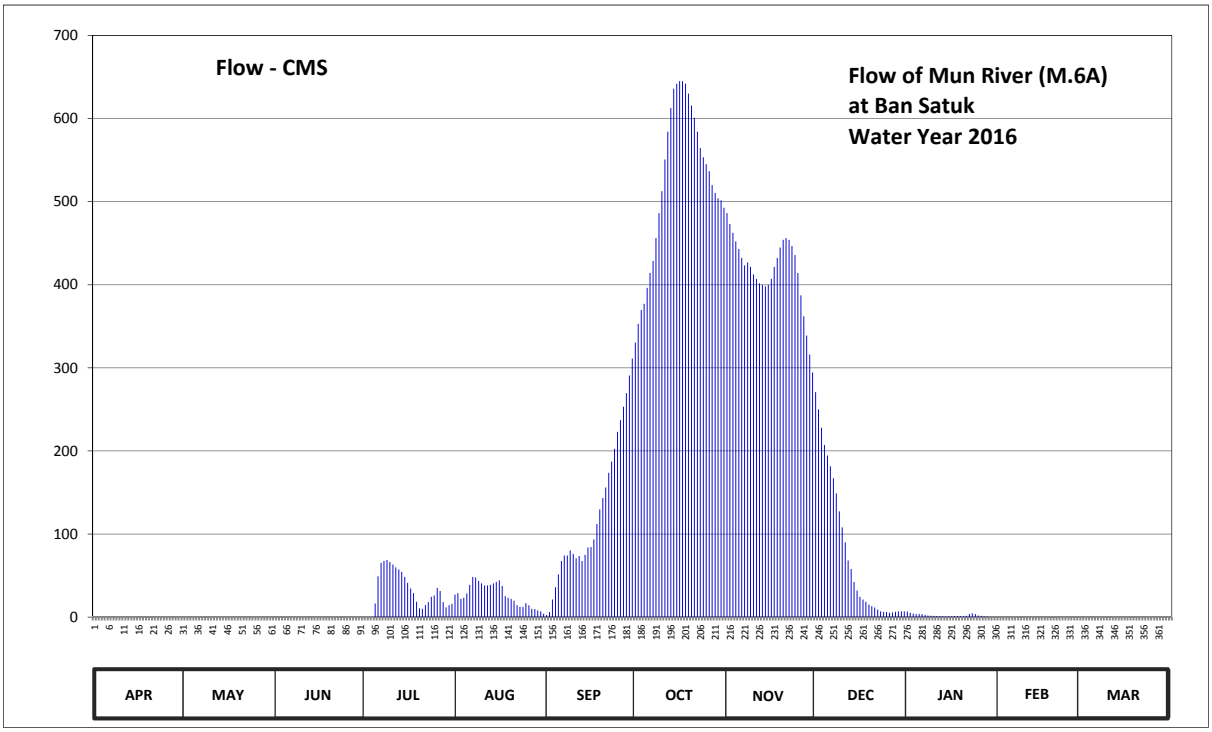
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.35	123.35	123.41	123.39	124.68	123.93	128.36	129.26	127.87	124.09	123.66	123.65	
2	123.35	123.35	123.40	123.38	124.72	124.07	128.52	129.20	127.68	124.04	123.67	123.67	
3	123.34	123.36	123.39	123.40	124.55	124.53	128.63	129.15	127.46	124.01	123.69	123.65	
4	123.33	123.37	123.38	123.61	124.58	124.88	128.68	129.10	127.24	123.98	123.67	123.63	
5	123.32	123.37	123.38	124.41	124.71	125.14	128.79	129.05	127.08	123.99	123.66	123.62	
6	123.32	123.36	123.38	125.10	124.93	125.41	128.89	128.99	126.92	123.98	123.65	123.60	
7	123.32	123.35	123.37	125.37	125.09	125.52	128.97	128.94	126.74	123.93	123.63	123.58	
8	123.32	123.33	123.36	125.41	125.08	125.52	129.12	128.96	126.51	123.89	123.63	123.56	
9	123.32	123.35	123.35	125.43	125.01	125.62	129.26	128.93	126.24	123.88	123.62	123.56	
10	123.32	123.34	123.34	125.39	124.96	125.55	129.38	128.88	126.00	123.86	123.61	123.56	
11	123.31	123.34	123.32	125.34	124.92	125.46	129.52	128.85	125.77	123.83	123.60	123.55	
12	123.31	123.34	123.31	125.28	124.92	125.51	129.64	128.82	125.42	123.81	123.59	123.55	
13	123.30	123.34	123.29	125.24	124.93	125.41	129.74	128.81	125.25	123.79	123.59	123.55	
14	123.30	123.46	123.28	125.19	124.96	125.53	129.82	128.80	124.99	123.78	123.59	123.54	
15	123.30	123.45	123.27	125.09	124.99	125.68	129.84	128.81	124.80	123.78	123.62	123.52	
16	123.30	123.45	123.27	124.97	125.02	125.69	129.85	128.85	124.61	123.80	123.66	123.52	
17	123.29	123.45	123.27	124.85	124.91	125.82	129.85	128.93	124.53	123.84	123.70	123.52	
18	123.29	123.45	123.27	124.72	124.63	126.05	129.84	128.99	124.46	123.83	123.71	123.52	
19	123.29	123.44	123.27	124.46	124.58	126.27	129.80	129.06	124.37	123.81	123.72	123.53	
20	123.29	123.43	123.26	124.22	124.55	126.44	129.75	129.11	124.30	123.80	123.71	123.54	
21	123.30	123.43	123.25	124.20	124.49	126.60	129.70	129.12	124.25	123.86	123.70	123.54	
22	123.30	123.43	123.25	124.35	124.35	126.82	129.64	129.11	124.17	123.98	123.68	123.54	
23	123.29	123.42	123.25	124.45	124.28	126.99	129.57	129.07	124.10	124.02	123.66	123.53	
24	123.28	123.42	123.24	124.61	124.27	127.18	129.53	129.01	124.08	123.98	123.64	123.53	
25	123.27	123.42	123.24	124.65	124.42	127.41	129.50	128.89	124.07	123.90	123.63	123.53	
26	123.26	123.41	123.22	124.86	124.34	127.55	129.47	128.74	124.04	123.85	123.61	123.53	
27	123.25	123.41	123.25	124.79	124.20	127.71	129.41	128.58	124.05	123.80	123.60	123.53	
28	123.25	123.41	123.29	124.45	124.19	127.86	129.37	128.42	124.08	123.75	123.60	123.52	
29	123.24	123.41	123.32	124.26	124.13	128.04	129.34	128.25	124.10	123.72		123.51	
30	123.32	123.41	123.38	124.35	124.10	128.21	129.33	128.07	124.10	123.69		123.50	
31		123.41		124.40	124.00		129.29		124.10	123.67		123.50	
Mean	123.30	123.40	123.31	124.63	124.63	126.08	129.37	128.89	125.27	123.87	123.65	123.55	
Max	123.35	123.46	123.41	125.43	125.09	128.21	129.85	129.26	127.87	124.09	123.72	123.67	129.85
Min	123.24	123.33	123.22	123.38	124.00	123.93	128.36	128.07	124.04	123.67	123.59	123.50	123.22

Annual Max Momentary Gage Height 129.85 m. (MSL.) , at 21.00 Hours , on Oct 15 , 2016

Zero Gage at Bottom Elevation 123.00 m. (MSL.) , River Bed 121.21 m. (MSL.)

Left Bank Elevation 131.76 m. (MSL.) ,

Right Bank Elevation 132.15 m. (MSL.) , Drainage Are 28,458 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	27.20	2.60	330.40	486.20	270.70	6.70	0.00	0.00		
2	0.00	0.00	0.00	0.00	28.80	6.10	353.00	473.00	250.00	5.20	0.00	0.00		
3	0.00	0.00	0.00	0.00	22.00	21.20	369.50	462.50	228.00	4.30	0.00	0.00		
4	0.00	0.00	0.00	0.00	23.20	36.00	377.00	452.00	207.20	3.60	0.00	0.00		
5	0.00	0.00	0.00	16.40	28.40	51.40	396.20	443.00	194.40	3.80	0.00	0.00		
6	0.00	0.00	0.00	49.00	38.80	67.60	414.20	432.20	181.60	3.60	0.00	0.00		
7	0.00	0.00	0.00	65.20	48.40	74.20	428.60	423.20	167.20	2.60	0.00	0.00		
8	0.00	0.00	0.00	67.60	47.80	74.20	456.20	426.80	148.80	1.90	0.00	0.00		
9	0.00	0.00	0.00	68.80	43.60	80.20	486.20	421.40	127.20	1.80	0.00	0.00		
10	0.00	0.00	0.00	66.40	40.60	76.00	512.60	412.40	108.00	1.60	0.00	0.00		
11	0.00	0.00	0.00	63.40	38.20	70.60	550.60	407.00	89.90	1.30	0.00	0.00		
12	0.00	0.00	0.00	59.80	38.20	73.60	584.20	401.60	68.20	1.10	0.00	0.00		
13	0.00	0.00	0.00	57.40	38.80	67.60	612.60	399.80	58.00	0.90	0.00	0.00		
14	0.00	0.00	0.00	54.40	40.60	74.80	636.00	398.00	42.40	0.80	0.00	0.00		
15	0.00	0.00	0.00	48.40	42.40	83.80	642.00	399.80	32.00	0.80	0.00	0.00		
16	0.00	0.00	0.00	41.20	44.20	84.40	645.00	407.00	24.40	1.00	0.00	0.00		
17	0.00	0.00	0.00	34.50	37.60	93.60	645.00	421.40	21.20	1.40	0.00	0.00		
18	0.00	0.00	0.00	28.80	25.20	112.00	642.00	432.20	18.40	1.30	0.10	0.00		
19	0.00	0.00	0.00	18.40	23.20	129.60	630.00	444.80	15.10	1.10	0.20	0.00		
20	0.00	0.00	0.00	10.60	22.00	143.20	615.50	454.10	13.00	1.00	0.10	0.00		
21	0.00	0.00	0.00	10.00	19.60	156.00	601.00	456.20	11.50	1.60	0.00	0.00		
22	0.00	0.00	0.00	14.50	14.50	173.60	584.20	454.10	9.10	3.60	0.00	0.00		
23	0.00	0.00	0.00	18.00	12.40	187.20	564.60	446.60	7.00	4.60	0.00	0.00		
24	0.00	0.00	0.00	24.40	12.10	202.40	553.40	435.80	6.40	3.60	0.00	0.00		
25	0.00	0.00	0.00	26.00	16.80	223.00	545.00	414.20	6.10	2.00	0.00	0.00		
26	0.00	0.00	0.00	35.00	14.20	237.00	536.60	387.20	5.20	1.50	0.00	0.00		
27	0.00	0.00	0.00	31.60	10.00	253.10	519.80	362.00	5.50	1.00	0.00	0.00		
28	0.00	0.00	0.00	18.00	9.70	269.60	510.40	338.80	6.40	0.50	0.00	0.00		
29	0.00	0.00	0.00	11.80	7.90	290.80	503.80	316.00	7.00	0.20		0.00		
30	0.00	0.00	0.00	14.50	7.00	311.20	501.60	294.40	7.00	0.00		0.00		
31		0.00		16.00	4.00		492.80		7.00	0.00		0.00		
Total	0.00	0.00	0.00	970.10	827.40	3726.60	16240.00	12503.70	2343.90	64.40	0.40	0.00	36676.50	CMSDAY
Mean	0.00	0.00	0.00	31.29	26.69	124.22	523.87	416.79	75.61	2.08	0.01	0.00	100.48	CMS
Max	0.00	0.00	0.00	68.80	48.40	311.20	645.00	486.20	270.70	6.70	0.20	0.00	645.00	CMS
Min	0.00	0.00	0.00	0.00	4.00	2.60	330.40	294.40	5.20	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	83.82	71.49	321.98	1403.14	1080.32	202.51	5.56	0.03	0.00	3168.85	MCM

Momentary Peak 645.00 CMS. at 129.85 m. (MSL.) at 21.00 Hours , on Oct 15 , 2016

Runoff Yield 3.53 Liters/Second/Square KM. Momentary Peak Yield 22.660 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Seri Prachathipatai Bridge.

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

Drainge Area	107,345 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+105.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of 200 years Krung Ratanakosin **Elevation** +121.152 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1944 to date
Rating Operation	
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date
Rated by Flot	-
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 84 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

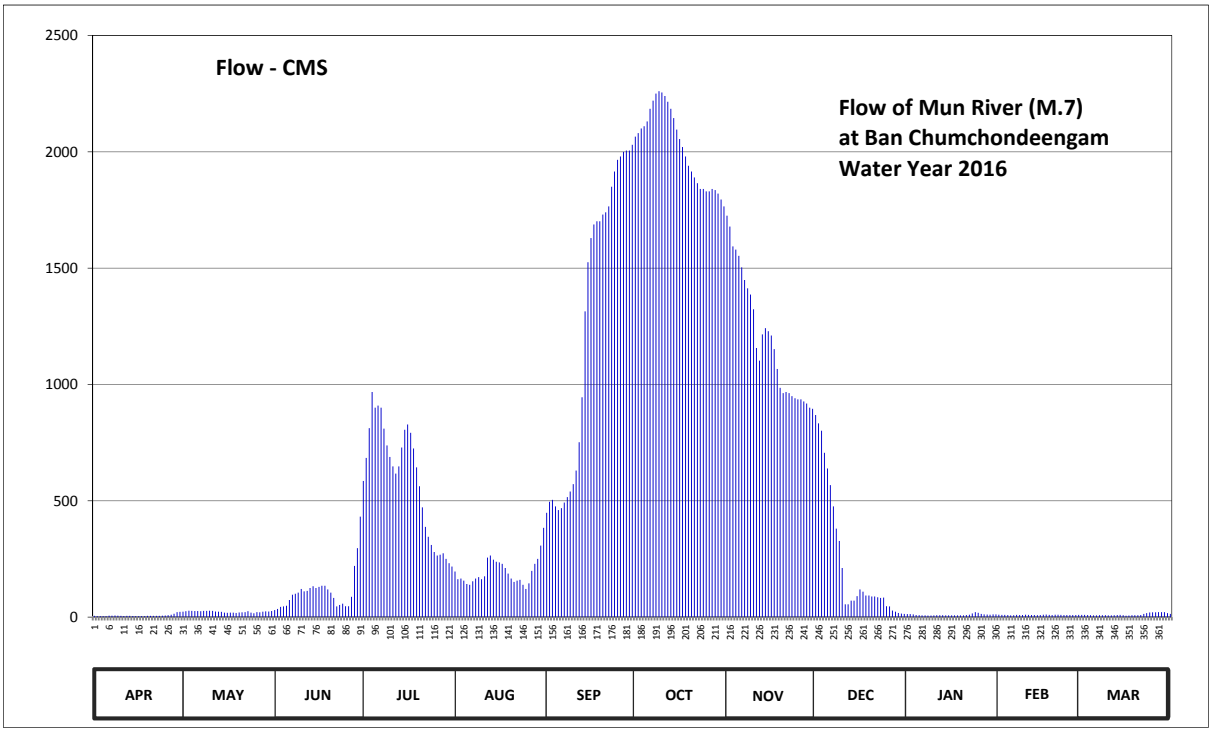
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.56	107.07	107.20	108.95	107.32	108.07	111.61	110.93	109.03	106.86	106.81	106.78	
2	106.51	107.11	107.25	109.08	107.21	108.19	111.64	110.83	108.95	106.86	106.79	106.77	
3	106.51	107.15	107.34	109.22	107.22	108.21	111.68	110.64	108.88	106.83	106.77	106.74	
4	106.51	107.13	107.36	109.25	107.19	108.14	111.70	110.61	108.67	106.76	106.74	106.70	
5	106.51	107.12	107.39	109.10	107.14	108.10	111.74	110.55	108.52	106.71	106.69	106.67	
6	106.59	107.12	107.59	109.12	107.13	108.12	111.85	110.44	108.36	106.68	106.71	106.67	
7	106.61	107.11	107.74	109.10	107.18	108.18	111.92	110.32	108.14	106.66	106.77	106.70	
8	106.64	107.14	107.77	108.90	107.22	108.24	111.98	110.24	107.90	106.65	106.75	106.70	
9	106.62	107.14	107.80	108.74	107.24	108.30	112.00	110.18	107.75	106.65	106.76	106.70	
10	106.58	107.15	107.88	108.63	107.21	108.37	111.99	110.04	107.37	106.67	106.80	106.69	
11	106.55	107.14	107.83	108.54	107.25	108.50	111.96	109.67	107.45	106.70	106.78	106.69	
12	106.58	107.08	107.84	108.47	107.52	108.77	111.91	109.55	107.45	106.71	106.74	106.71	
13	106.57	107.07	107.90	108.54	107.55	109.20	111.85	109.80	107.57	106.71	106.73	106.74	
14	106.53	107.05	107.93	108.72	107.49	110.02	111.77	109.86	107.57	106.69	106.72	106.78	
15	106.51	106.99	107.90	108.89	107.46	110.49	111.67	109.83	107.70	106.68	106.76	106.70	
16	106.49	106.97	107.92	108.94	107.45	110.72	111.59	109.79	107.87	106.68	106.80	106.61	
17	106.49	106.99	107.94	108.86	107.43	110.85	111.52	109.66	107.82	106.68	106.82	106.65	
18	106.52	106.98	107.94	108.71	107.37	110.88	111.44	109.47	107.72	106.68	106.78	106.71	
19	106.56	106.95	107.87	108.53	107.29	110.88	111.36	109.29	107.72	106.68	106.75	106.71	
20	106.58	107.00	107.80	108.35	107.22	110.94	111.31	109.24	107.69	106.68	106.81	106.71	
21	106.56	107.01	107.65	108.13	107.17	110.96	111.26	109.25	107.69	106.74	106.80	106.76	
22	106.57	107.02	107.36	107.92	107.19	111.01	111.21	109.24	107.67	106.81	106.77	106.87	
23	106.58	107.11	107.42	107.80	107.20	111.18	111.16	109.21	107.65	106.91	106.76	106.94	
24	106.61	106.99	107.48	107.70	107.13	111.31	111.16	109.19	107.66	107.02	106.76	107.00	
25	106.64	106.93	107.37	107.60	107.07	111.41	111.14	109.18	107.37	106.97	106.75	107.01	
26	106.72	107.02	107.37	107.55	107.15	111.44	111.14	109.18	107.36	106.88	106.76	107.01	
27	106.81	107.01	107.68	107.56	107.33	111.48	111.16	109.16	107.16	106.83	106.75	107.02	
28	106.89	107.06	108.25	107.58	107.43	111.49	111.15	109.14	107.07	106.82	106.77	107.03	
29	107.03	107.10	108.44	107.50	107.50	111.49	111.12	109.10	106.96	106.81		107.03	
30	107.05	107.08	108.72	107.44	107.69	111.54	111.07	109.09	106.90	106.83		106.94	
31		107.12		107.39	107.91		111.01		106.87	106.83		106.88	
Mean	106.62	107.06	107.73	108.41	107.32	109.88	111.52	109.76	107.76	106.76	106.76	106.79	
Max	107.05	107.15	108.72	109.25	107.91	111.54	112.00	110.93	109.03	107.02	106.82	107.03	112.00
Min	106.49	106.93	107.20	107.39	107.07	108.07	111.01	109.09	106.87	106.65	106.69	106.61	106.49

Annual Max Momentary Gage Height 112.00 m. (MSL.) , at 24.00 Hours , on Oct 8 , 2016

Zero Gage at Bottom Elevation 105.00 m. (MSL.) , River Bed 100.36 m. (MSL.)

Left Bank Elevation 120.98 m. (MSL.) ,

Right Bank Elevation 117.53 m. (MSL.) , Drainage Are 107,345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.20	23.50	30.00	585.00	196.00	448.00	2065.00	1725.00	868.50	13.00	10.50	9.60	
2	4.20	25.50	35.00	684.00	163.00	496.00	2080.00	1678.50	832.50	13.00	9.80	9.40	
3	4.20	27.50	44.00	812.00	166.00	504.00	2100.00	1593.00	801.00	11.50	9.40	8.80	
4	4.20	26.50	46.00	967.50	157.00	476.00	2110.00	1579.50	706.50	9.20	8.80	8.00	
5	4.20	26.00	49.00	900.00	142.00	460.00	2130.00	1552.50	639.00	8.20	7.80	7.40	
6	5.80	26.00	73.50	909.00	139.00	468.00	2185.00	1503.00	567.00	7.60	8.20	7.40	
7	6.20	25.50	96.00	900.00	154.00	492.00	2220.00	1449.00	476.00	7.20	9.40	8.00	
8	6.80	27.00	100.50	810.00	166.00	516.00	2250.00	1413.00	380.00	7.00	9.00	8.00	
9	6.40	27.00	105.00	738.00	172.00	540.00	2260.00	1386.00	327.50	7.00	9.20	8.00	
10	5.60	27.50	121.00	688.50	163.00	571.50	2255.00	1323.00	211.00	7.40	10.00	7.80	
11	5.00	27.00	111.00	648.00	175.00	630.00	2240.00	1156.50	55.00	8.00	9.60	7.80	
12	5.60	24.00	113.00	616.50	256.00	751.50	2215.00	1102.50	55.00	8.20	8.80	8.20	
13	5.40	23.50	125.00	648.00	265.00	945.00	2185.00	1215.00	70.50	8.20	8.60	8.80	
14	4.60	22.50	132.50	729.00	247.00	1314.00	2145.00	1242.00	70.50	7.80	8.40	9.60	
15	4.20	19.50	125.00	805.50	238.00	1525.50	2095.00	1228.50	90.00	7.60	9.20	8.00	
16	3.80	18.50	130.00	828.00	235.00	1629.00	2055.00	1210.50	119.00	7.60	10.00	6.20	
17	3.80	19.50	135.00	792.00	229.00	1687.50	2020.00	1152.00	109.00	7.60	11.00	7.00	
18	4.40	19.00	135.00	724.50	211.00	1701.00	1980.00	1066.50	93.00	7.60	9.60	8.20	
19	5.20	17.50	119.00	643.50	187.00	1701.00	1940.00	985.50	93.00	7.60	9.00	8.20	
20	5.60	20.00	105.00	562.50	166.00	1730.00	1915.00	963.00	88.50	7.60	10.50	8.20	
21	5.20	20.50	82.50	472.00	151.00	1740.00	1890.00	967.50	88.50	8.80	10.00	9.20	
22	5.40	21.00	46.00	388.00	157.00	1765.00	1865.00	963.00	85.50	10.50	9.40	13.50	
23	5.60	25.50	52.00	345.00	160.00	1850.00	1840.00	949.50	82.50	15.50	9.20	17.00	
24	6.20	19.50	58.00	310.00	139.00	1915.00	1840.00	940.50	84.00	21.00	9.20	20.00	
25	6.80	16.50	47.00	280.00	121.00	1965.00	1830.00	936.00	47.00	18.50	9.00	20.50	
26	8.40	21.00	47.00	265.00	145.00	1980.00	1830.00	936.00	46.00	14.00	9.20	20.50	
27	10.50	20.50	87.00	268.00	199.00	2000.00	1840.00	927.00	28.00	11.50	9.00	21.00	
28	14.50	23.00	220.00	274.00	229.00	2005.00	1835.00	918.00	23.50	11.00	9.40	21.50	
29	21.50	25.00	296.00	250.00	250.00	2005.00	1820.00	900.00	18.00	10.50		21.50	
30	22.50	24.00	432.00	232.00	307.00	2030.00	1795.00	895.50	15.00	11.50		17.00	
31		26.00		217.00	384.00		1765.00		13.50	11.50		14.00	
Total	207.00	715.50	3298.00	18292.50	6069.00	37841.00	62595.00	35857.50	7184.00	313.20	261.20	358.30	172992.20	CMSDAY
Mean	6.90	23.08	109.93	590.08	195.77	1261.37	2019.19	1195.25	231.74	10.10	9.33	11.56	473.95	CMS
Max	22.50	27.50	432.00	967.50	384.00	2030.00	2260.00	1725.00	868.50	21.00	11.00	21.50	2260.00	CMS
Min	3.80	16.50	30.00	217.00	121.00	448.00	1765.00	895.50	13.50	7.00	7.80	6.20	3.80	CMS
Runoff	17.88	61.82	284.95	1580.47	524.36	3269.46	5408.21	3098.09	620.70	27.06	22.57	30.96	14946.53	MCM

Momentary Peak 2260.00 CMS. at 112.00 m. (MSL.) at 24.00 Hours , on Oct 8 , 2016

Runoff Yield 4.42 Liters/Second/Square KM. Momentary Peak Yield 21.050 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge on road.

Ban Pho Tak **Amphoe** Phibul Mangsahan **Changwat** Ubon Ratchathani

Drainge Area	115,687 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+104.00 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +113.192 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2009 to date
Rating Operation	
Period of Rating	2009 to date
Rated by Flot	-
Rated by Current Meter	2009 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

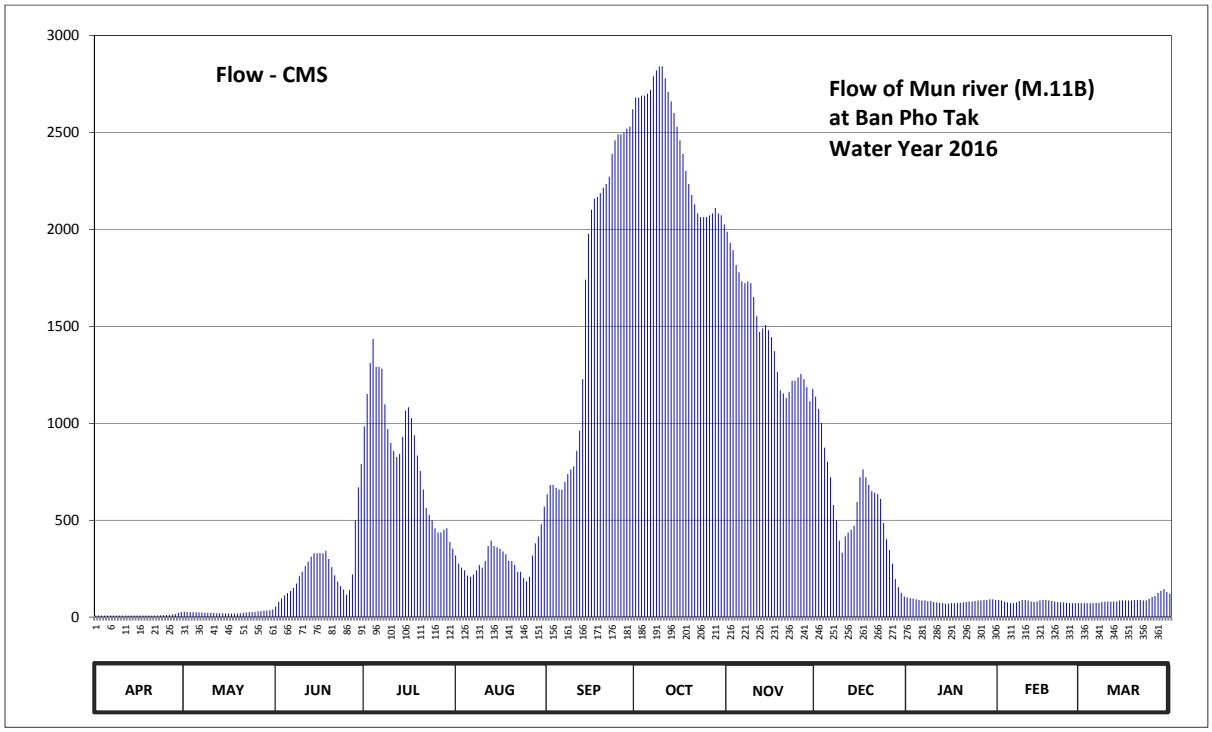
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.42	106.88	107.05	108.41	107.04	107.48	109.76	109.05	108.11	106.67	106.63	106.56	
2	106.42	106.87	107.13	108.48	106.98	107.54	109.76	108.99	108.03	106.66	106.62	106.56	
3	106.42	106.86	107.19	108.53	106.95	107.54	109.77	108.95	107.94	106.65	106.60	106.56	
4	106.42	106.86	107.24	108.45	106.93	107.52	109.77	108.87	107.78	106.64	106.58	106.56	
5	106.42	106.85	107.28	108.29	106.89	107.51	109.78	108.83	107.69	106.63	106.56	106.56	
6	106.42	106.84	107.32	108.29	106.88	107.51	109.80	108.78	107.59	106.62	106.56	106.57	
7	106.42	106.84	107.37	108.28	106.90	107.56	109.87	108.77	107.41	106.62	106.58	106.57	
8	106.41	106.83	107.43	108.06	106.93	107.61	109.90	108.78	107.30	106.61	106.61	106.59	
9	106.41	106.82	107.51	107.90	106.97	107.64	109.92	108.77	107.15	106.61	106.63	106.60	
10	106.41	106.82	107.56	107.81	106.95	107.66	109.92	108.69	107.06	106.59	106.63	106.60	
11	106.41	106.81	107.62	107.76	107.00	107.76	109.86	108.58	107.18	106.58	106.62	106.60	
12	106.41	106.80	107.67	107.72	107.11	107.89	109.79	108.49	107.21	106.57	106.60	106.60	
13	106.42	106.80	107.72	107.74	107.15	108.22	109.74	108.51	107.23	106.56	106.59	106.60	
14	106.42	106.79	107.75	107.85	107.11	108.79	109.68	108.53	107.26	106.55	106.60	106.62	
15	106.42	106.78	107.75	108.02	107.10	109.04	109.61	108.50	107.43	106.55	106.62	106.62	
16	106.42	106.78	107.75	108.04	107.09	109.17	109.54	108.46	107.59	106.56	106.63	106.62	
17	106.42	106.77	107.75	107.97	107.07	109.23	109.47	108.38	107.64	106.56	106.63	106.62	
18	106.42	106.76	107.77	107.86	107.05	109.24	109.38	108.26	107.59	106.57	106.62	106.62	
19	106.42	106.77	107.70	107.73	107.00	109.26	109.31	108.15	107.54	106.57	106.61	106.63	
20	106.43	106.80	107.61	107.63	107.00	109.29	109.25	108.13	107.50	106.58	106.60	106.63	
21	106.45	106.83	107.52	107.51	106.97	109.31	109.20	108.10	107.49	106.59	106.59	106.63	
22	106.46	106.84	107.45	107.39	106.92	109.35	109.15	108.14	107.48	106.60	106.58	106.62	
23	106.48	106.85	107.40	107.34	106.92	109.47	109.13	108.21	107.45	106.60	106.58	106.62	
24	106.51	106.86	107.34	107.30	106.87	109.54	109.13	108.21	107.28	106.61	106.57	106.65	
25	106.54	106.87	107.25	107.24	106.84	109.57	109.13	108.23	107.16	106.62	106.56	106.68	
26	106.57	106.89	107.33	107.21	106.88	109.57	109.14	108.25	107.08	106.62	106.56	106.70	
27	106.62	106.92	107.53	107.21	107.04	109.58	109.15	108.22	106.98	106.63	106.56	106.73	
28	106.69	106.93	107.98	107.23	107.13	109.60	109.18	108.17	106.86	106.63	106.56	106.75	
29	106.83	106.94	108.15	107.24	107.18	109.61	109.15	108.08	106.79	106.64		106.77	
30	106.87	106.96	108.27	107.14	107.27	109.70	109.14	108.16	106.73	106.64		106.74	
31		106.99		107.09	107.40		109.09		106.69	106.63		106.72	
Mean	106.48	106.85	107.55	107.77	107.02	108.63	109.50	108.47	107.36	106.61	106.60	106.63	
Max	106.87	106.99	108.27	108.53	107.40	109.70	109.92	109.05	108.11	106.67	106.63	106.77	109.92
Min	106.41	106.76	107.05	107.09	106.84	107.48	109.09	108.08	106.69	106.55	106.56	106.56	106.41

Annual Max Momentary Gage Height 109.93 m. (MSL.) , at 06.00 Hours , on Oct 10, 2016

Zero Gage at Bottom Elevation 104.00 m. (MSL.) , River Bed 102.63 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.40	28.00	55.00	984.00	318.00	634.00	2680.00	1987.50	1138.00	101.00	89.00	72.00	
2	8.40	27.00	79.00	1152.00	276.00	682.00	2680.00	1930.50	1074.00	98.00	86.00	72.00	
3	8.40	26.00	97.00	1311.00	255.00	682.00	2690.00	1892.50	1002.00	95.00	80.00	72.00	
4	8.40	26.00	112.00	1435.00	241.00	666.00	2690.00	1816.50	874.00	92.00	76.00	72.00	
5	8.40	25.00	124.00	1291.00	214.00	658.00	2700.00	1778.50	802.00	89.00	72.00	72.00	
6	8.40	24.00	136.00	1291.00	208.00	658.00	2720.00	1732.00	722.00	86.00	72.00	74.00	
7	8.40	24.00	151.00	1282.00	220.00	698.00	2790.00	1723.00	578.00	86.00	76.00	74.00	
8	8.20	23.00	174.00	1098.00	241.00	738.00	2820.00	1732.00	500.00	83.00	83.00	78.00	
9	8.20	22.00	211.33	970.00	269.00	762.00	2841.00	1723.00	395.00	83.00	89.00	80.00	
10	8.20	22.00	234.67	898.00	255.00	778.00	2841.00	1651.00	332.00	78.00	89.00	80.00	
11	8.20	21.00	262.67	858.00	290.00	858.00	2780.00	1552.00	416.00	76.00	86.00	80.00	
12	8.20	20.00	286.00	826.00	367.00	962.00	2710.00	1471.00	437.00	74.00	80.00	80.00	
13	8.40	20.00	312.00	842.00	395.00	1228.00	2660.00	1489.00	451.00	72.00	78.00	80.00	
14	8.40	19.60	330.00	930.00	367.00	1741.00	2600.00	1507.00	472.00	70.00	80.00	86.00	
15	8.40	19.20	330.00	1066.00	360.00	1978.00	2530.00	1480.00	594.00	70.00	86.00	86.00	
16	8.40	19.20	330.00	1082.00	353.00	2101.50	2460.00	1444.00	722.00	72.00	89.00	86.00	
17	8.40	18.80	330.00	1026.00	339.00	2158.50	2390.00	1372.00	762.00	72.00	89.00	86.00	
18	8.40	18.40	342.00	938.00	325.00	2168.00	2301.00	1264.00	722.00	74.00	86.00	86.00	
19	8.40	18.80	300.00	834.00	290.00	2187.00	2234.50	1170.00	682.00	74.00	83.00	89.00	
20	8.60	20.00	258.00	754.00	290.00	2215.50	2177.50	1154.00	650.00	76.00	80.00	89.00	
21	9.00	23.00	216.00	658.00	269.00	2234.50	2130.00	1130.00	642.00	78.00	78.00	89.00	
22	9.20	24.00	183.33	563.00	234.00	2272.50	2082.50	1162.00	634.00	80.00	76.00	86.00	
23	9.60	25.00	160.00	528.00	234.00	2390.00	2063.50	1219.00	610.00	80.00	76.00	86.00	
24	10.30	26.00	142.00	500.00	202.00	2460.00	2063.50	1219.00	486.00	83.00	74.00	95.00	
25	11.20	27.00	115.00	458.00	184.00	2490.00	2063.50	1237.00	402.00	86.00	72.00	104.00	
26	12.10	29.00	139.00	437.00	208.00	2490.00	2073.00	1255.00	346.00	86.00	72.00	110.00	
27	13.60	32.00	220.67	437.00	318.00	2500.00	2082.50	1228.00	276.00	89.00	72.00	125.00	
28	15.70	33.00	500.00	451.00	381.00	2520.00	2111.00	1186.00	196.00	89.00	72.00	135.00	
29	23.00	34.00	670.00	458.00	416.00	2530.00	2082.50	1114.00	155.00	92.00		145.00	
30	27.00	36.00	790.00	388.00	479.00	2620.00	2073.00	1178.00	125.00	92.00		130.00	
31		39.00		353.00	570.00		2025.50		107.00	89.00		120.00	
Total	307.90	770.00	7590.67	26099.00	9368.00	49060.50	75145.50	43797.50	17304.00	2565.00	2241.00	2819.00	237068.07 CMSDAY
Mean	10.26	24.84	253.02	841.90	302.19	1635.35	2424.05	1459.92	558.19	82.74	80.04	90.94	649.50 CMS
Max	27.00	39.00	790.00	1435.00	570.00	2620.00	2841.00	1987.50	1138.00	101.00	89.00	145.00	2841.00 CMS
Min	8.20	18.40	55.00	353.00	184.00	634.00	2025.50	1114.00	107.00	70.00	72.00	72.00	8.20 CMS
Runoff	26.60	66.53	655.83	2254.95	809.40	4238.83	6492.57	3784.10	1495.07	221.62	193.62	243.56	20482.68 MCM

Momentary Peak 2851.50 CMS. at 109.93 m. (MSL.) at 06.00 Hours , on Oct 10 , 2016

Runoff Yield 5.61 Liters/Second/Square KM. Momentary Peak Yield 24.650 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at railway bridge.

	Ban La Loon	**Amphoe** Mueang	**Changwat** Surin
Drainge Area	3,028 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+127.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +140.271 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Mueang ling weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 42 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

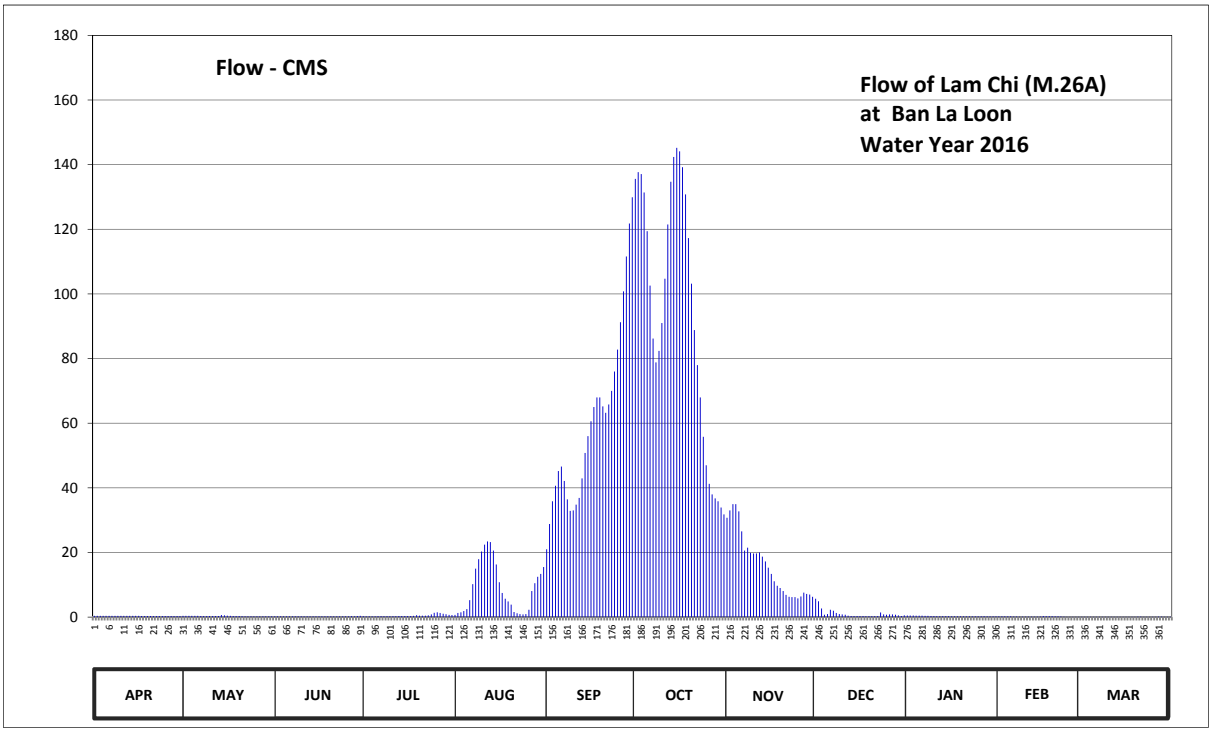
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.57	128.58	128.44	128.48	128.74	131.09	136.62	131.85	129.53	128.64	128.45	128.32	
2	128.57	128.58	128.44	128.45	129.02	131.72	136.69	132.00	129.45	128.64	128.45	128.32	
3	128.58	128.58	128.44	128.45	129.10	132.19	136.67	132.13	129.22	128.64	128.45	128.32	
4	128.58	128.58	128.44	128.45	129.14	132.51	136.48	132.13	128.78	128.63	128.44	128.32	
5	128.57	128.58	128.44	128.46	129.20	132.81	136.08	131.98	128.87	128.63	128.42	128.32	
6	128.57	128.58	128.43	128.47	129.48	132.88	135.52	131.57	129.18	128.63	128.40	128.32	
7	128.58	128.56	128.43	128.48	129.99	132.61	134.86	131.05	129.15	128.60	128.39	128.32	
8	128.58	128.56	128.44	128.51	130.48	132.23	134.49	131.14	129.03	128.57	128.36	128.32	
9	128.58	128.56	128.45	128.51	130.78	131.99	134.67	130.98	128.87	128.56	128.35	128.32	
10	128.58	128.56	128.45	128.50	131.02	132.00	135.08	130.96	128.83	128.53	128.33	128.32	
11	128.58	128.56	128.45	128.51	131.24	132.12	135.59	130.96	128.77	128.51	128.33	128.32	
12	128.58	128.56	128.45	128.51	131.34	132.26	136.15	130.99	128.63	128.51	128.33	128.32	
13	128.58	128.56	128.45	128.56	131.32	132.66	136.59	130.86	128.55	128.51	128.33	128.32	
14	128.58	128.72	128.44	128.55	131.05	133.09	136.84	130.71	128.53	128.49	128.33	128.32	
15	128.58	128.67	128.43	128.55	130.61	133.35	136.92	130.51	128.54	128.47	128.39	128.32	
16	128.57	128.61	128.43	128.52	130.05	133.58	136.89	130.31	128.54	128.46	128.54	128.32	
17	128.56	128.58	128.43	128.52	129.71	133.80	136.74	130.08	128.54	128.45	128.50	128.32	
18	128.56	128.55	128.43	128.57	129.53	133.95	136.46	129.94	128.51	128.46	128.49	128.32	
19	128.56	128.55	128.43	128.70	129.44	133.95	136.01	129.87	128.51	128.44	128.47	128.32	
20	128.56	128.55	128.43	128.62	129.34	133.81	135.54	129.77	128.51	128.45	128.45	128.34	
21	128.56	128.51	128.43	128.62	129.11	133.71	134.99	129.65	128.48	128.44	128.42	128.34	
22	128.56	128.44	128.43	128.62	128.98	133.84	134.45	129.59	128.54	128.46	128.39	128.32	
23	128.56	128.43	128.43	128.66	128.88	134.05	133.95	129.58	129.07	128.44	128.35	128.32	
24	128.56	128.43	128.43	128.83	128.83	134.35	133.34	129.58	128.82	128.45	128.32	128.32	
25	128.56	128.44	128.43	129.04	128.88	134.69	132.90	129.54	128.76	128.44	128.32	128.32	
26	128.54	128.44	128.44	129.09	129.18	135.09	132.55	129.60	128.82	128.45	128.32	128.32	
27	128.54	128.44	128.47	129.02	129.77	135.46	132.33	129.72	128.81	128.47	128.32	128.33	
28	128.54	128.44	128.46	128.93	130.02	135.82	132.25	129.68	128.78	128.45	128.32	128.33	
29	128.54	128.44	128.54	128.84	130.22	136.16	132.19	129.66	128.68	128.45		128.32	
30	128.54	128.44	128.57	128.74	130.31	136.43	132.06	129.59	128.56	128.45		128.32	
31		128.44		128.72	130.53		131.92		128.67	128.45		128.32	
Mean	128.57	128.53	128.45	128.63	129.85	133.47	134.96	130.53	128.79	128.51	128.39	128.32	
Max	128.58	128.72	128.57	129.09	131.34	136.43	136.92	132.13	129.53	128.64	128.54	128.34	136.92
Min	128.54	128.43	128.43	128.45	128.74	131.09	131.92	129.54	128.48	128.44	128.32	128.32	128.32

Annual Max Momentary Gage Height 136.93 m. (MSL.) , at 09.00 Hours , on Oct 15 , 2016

Zero Gage at Bottom Elevation 127.10 m. (MSL.) , River Bed 128.17 m. (MSL.)

Left Bank Elevation 140.26 m. (MSL.) ,

Right Bank Elevation 140.27 m. (MSL.) , Drainage Are 3,028 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.38	0.24	0.28	0.68	20.97	135.60	30.75	5.71	0.48	0.25	0.12	
2	0.37	0.38	0.24	0.25	1.26	28.80	137.70	33.00	4.92	0.48	0.25	0.12	
3	0.38	0.38	0.24	0.25	1.50	35.85	137.10	34.95	2.67	0.48	0.25	0.12	
4	0.38	0.38	0.24	0.25	1.89	40.65	131.40	34.95	0.76	0.46	0.24	0.12	
5	0.37	0.38	0.24	0.26	2.48	45.20	119.40	32.70	0.94	0.46	0.22	0.12	
6	0.37	0.38	0.23	0.27	5.22	46.60	102.60	26.55	2.28	0.46	0.20	0.12	
7	0.38	0.36	0.23	0.28	10.21	42.15	86.20	20.58	1.99	0.40	0.19	0.12	
8	0.38	0.36	0.24	0.31	15.00	36.45	78.80	21.46	1.29	0.37	0.16	0.12	
9	0.38	0.36	0.25	0.31	17.93	32.85	82.40	19.89	0.94	0.36	0.15	0.12	
10	0.38	0.36	0.25	0.30	20.28	33.00	91.00	19.70	0.86	0.33	0.13	0.12	
11	0.38	0.36	0.25	0.31	22.43	34.80	104.70	19.70	0.74	0.31	0.13	0.12	
12	0.38	0.36	0.25	0.31	23.41	36.90	121.50	19.99	0.46	0.31	0.13	0.12	
13	0.38	0.36	0.25	0.36	23.22	42.90	134.70	18.72	0.35	0.31	0.13	0.12	
14	0.38	0.64	0.24	0.35	20.58	50.80	142.40	17.25	0.33	0.29	0.13	0.12	
15	0.38	0.54	0.23	0.35	16.27	56.00	145.20	15.29	0.34	0.27	0.19	0.12	
16	0.37	0.42	0.23	0.32	10.79	60.60	144.15	13.34	0.34	0.26	0.34	0.12	
17	0.36	0.38	0.23	0.32	7.47	65.00	139.20	11.09	0.34	0.25	0.30	0.12	
18	0.36	0.35	0.23	0.37	5.71	68.00	130.80	9.72	0.31	0.26	0.29	0.12	
19	0.36	0.35	0.23	0.60	4.83	68.00	117.30	9.03	0.31	0.24	0.27	0.12	
20	0.36	0.35	0.23	0.44	3.85	65.20	103.20	8.05	0.31	0.25	0.25	0.14	
21	0.36	0.31	0.23	0.44	1.60	63.20	88.80	6.88	0.28	0.24	0.22	0.14	
22	0.36	0.24	0.23	0.44	1.16	65.80	78.00	6.29	0.34	0.26	0.19	0.12	
23	0.36	0.23	0.23	0.52	0.96	70.00	68.00	6.20	1.41	0.24	0.15	0.12	
24	0.36	0.23	0.23	0.86	0.86	76.00	55.80	6.20	0.84	0.25	0.12	0.12	
25	0.36	0.24	0.23	1.32	0.96	82.80	47.00	5.80	0.72	0.24	0.12	0.12	
26	0.34	0.24	0.24	1.47	2.28	91.25	41.25	6.39	0.84	0.25	0.12	0.12	
27	0.34	0.24	0.27	1.26	8.05	100.80	37.95	7.57	0.82	0.27	0.12	0.13	
28	0.34	0.24	0.26	1.06	10.50	111.60	36.75	7.17	0.76	0.25	0.12	0.13	
29	0.34	0.24	0.34	0.88	12.46	121.80	35.85	6.98	0.56	0.25		0.12	
30	0.34	0.24	0.37	0.68	13.34	129.90	33.90	6.29	0.36	0.25		0.12	
31		0.24		0.64	15.49		31.80		0.54	0.25		0.12	
Total	10.97	10.52	7.40	16.06	282.67	1823.87	2940.45	482.48	33.66	9.78	5.36	3.78	5627.00	CMSDAY
Mean	0.37	0.34	0.25	0.52	9.12	60.80	94.85	16.08	1.09	0.32	0.19	0.12	15.42	CMS
Max	0.38	0.64	0.37	1.47	23.41	129.90	145.20	34.95	5.71	0.48	0.34	0.14	145.20	CMS
Min	0.34	0.23	0.23	0.25	0.68	20.97	31.80	5.80	0.28	0.24	0.12	0.12	0.12	CMS
Runoff	0.95	0.91	0.64	1.39	24.42	157.58	254.05	41.69	2.91	0.84	0.46	0.33	486.17	MCM

Momentary Peak 145.55 CMS. at 136.93 m. (MSL.) at 09.00 Hours , on Oct 15, 2016

Runoff Yield 5.09 Liters/Second/Square KM. Momentary Peak Yield 48.070 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Khlong Phai **Amphoe** Si Khio **Changwat** Nakhon Ratchasima

Drainge Area	1,292 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+242.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage observer's house. **Elevation** +251.841 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1983 - 1995, 2006 to date
Rating Operation	
Period of Rating	1983 - 1995, 2006 to date
Rated by Flot	-
Rated by Current Meter	1983 - 1995, 2006 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Flow effected by Lam Takhong Dam about 500 meters upstreams from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

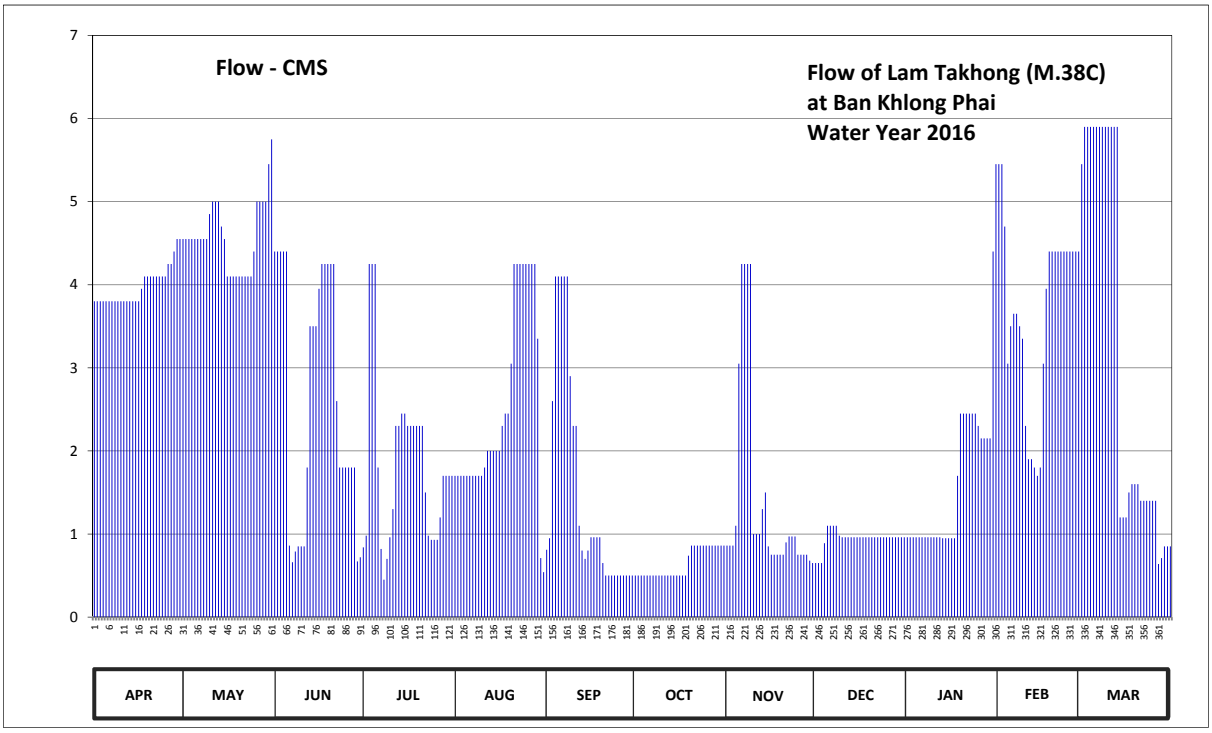
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	245.42	245.47	245.46	245.04	245.27	245.01	244.70	245.06	244.85	245.16	245.53	245.53	
2	245.42	245.47	245.46	245.18	245.27	245.15	244.70	245.06	244.85	245.16	245.53	245.56	
3	245.42	245.47	245.46	245.45	245.27	245.34	244.70	245.06	244.85	245.16	245.48	245.56	
4	245.42	245.47	245.46	245.45	245.27	245.44	244.70	245.21	245.09	245.16	245.37	245.56	
5	245.42	245.47	245.46	245.45	245.27	245.44	244.70	245.37	245.21	245.16	245.40	245.56	
6	245.42	245.47	245.06	245.28	245.27	245.44	244.70	245.45	245.21	245.16	245.41	245.56	
7	245.42	245.47	244.86	245.02	245.27	245.44	244.70	245.45	245.21	245.16	245.41	245.56	
8	245.42	245.47	244.99	244.65	245.27	245.44	244.70	245.45	245.21	245.16	245.40	245.56	
9	245.42	245.47	245.05	244.90	245.27	245.36	244.70	245.45	245.18	245.16	245.39	245.56	
10	245.42	245.49	245.05	245.16	245.27	245.32	244.70	245.20	245.16	245.16	245.32	245.56	
11	245.42	245.50	245.05	245.23	245.28	245.32	244.70	245.20	245.16	245.16	245.29	245.56	
12	245.42	245.50	245.28	245.32	245.30	245.21	244.70	245.20	245.16	245.16	245.29	245.56	
13	245.42	245.50	245.40	245.32	245.30	245.00	244.70	245.23	245.16	245.15	245.28	245.56	
14	245.42	245.48	245.40	245.33	245.30	244.90	244.70	245.25	245.16	245.15	245.27	245.22	
15	245.42	245.47	245.40	245.33	245.30	245.00	244.70	245.05	245.16	245.15	245.28	245.22	
16	245.42	245.44	245.43	245.32	245.30	245.16	244.70	244.95	245.16	245.15	245.37	245.22	
17	245.43	245.44	245.45	245.32	245.32	245.16	244.70	244.95	245.16	245.15	245.43	245.25	
18	245.44	245.44	245.45	245.32	245.33	245.16	244.70	244.95	245.16	245.27	245.46	245.26	
19	245.44	245.44	245.45	245.32	245.33	245.16	244.94	244.95	245.16	245.33	245.46	245.26	
20	245.44	245.44	245.45	245.32	245.37	244.85	245.06	244.95	245.16	245.33	245.46	245.26	
21	245.44	245.44	245.45	245.32	245.45	244.70	245.06	245.10	245.16	245.33	245.46	245.24	
22	245.44	245.44	245.34	245.25	245.45	244.70	245.06	245.17	245.16	245.33	245.46	245.24	
23	245.44	245.44	245.28	245.18	245.45	244.70	245.06	245.17	245.16	245.33	245.46	245.24	
24	245.44	245.44	245.28	245.13	245.45	244.70	245.06	245.17	245.16	245.33	245.46	245.24	
25	245.44	245.46	245.28	245.13	245.45	244.70	245.06	244.95	245.16	245.32	245.46	245.24	
26	245.45	245.50	245.28	245.13	245.45	244.70	245.06	244.95	245.16	245.31	245.46	245.24	
27	245.45	245.50	245.28	245.22	245.45	244.70	245.06	244.95	245.16	245.31	245.46	244.84	
28	245.46	245.50	245.28	245.27	245.45	244.70	245.06	244.95	245.16	245.31	245.46	244.91	
29	245.47	245.50	244.87	245.27	245.39	244.70	245.06	244.88	245.16	245.31		245.05	
30	245.47	245.53	244.92	245.27	244.91	244.70	245.06	244.85	245.16	245.46		245.05	
31		245.55		245.27	244.74		245.06		245.16	245.53		245.05	
Mean	245.43	245.47	245.28	245.23	245.31	245.04	244.85	245.12	245.13	245.24	245.41	245.33	
Max	245.47	245.55	245.46	245.45	245.45	245.44	245.06	245.45	245.21	245.53	245.53	245.56	245.56
Min	245.42	245.44	244.86	244.65	244.74	244.70	244.70	244.85	244.85	245.15	245.27	244.84	244.65

Annual Max Momentary Gage Height 245.56 m. (MSL.) , at 12.00 Hours , on Mar 1, 2017

Zero Gage at Bottom Elevation 242.00 m. (MSL.) , River Bed 243.81 m. (MSL.)

Left Bank Elevation 251.10 m. (MSL.) ,

Right Bank Elevation 251.11 m. (MSL.) , Drainage Are 1,292 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	4.55	4.40	0.84	1.70	0.81	0.50	0.86	0.65	0.96	5.45	5.45	
2	3.80	4.55	4.40	0.98	1.70	0.95	0.50	0.86	0.65	0.96	5.45	5.90	
3	3.80	4.55	4.40	4.25	1.70	2.60	0.50	0.86	0.65	0.96	4.70	5.90	
4	3.80	4.55	4.40	4.25	1.70	4.10	0.50	1.10	0.89	0.96	3.05	5.90	
5	3.80	4.55	4.40	4.25	1.70	4.10	0.50	3.05	1.10	0.96	3.50	5.90	
6	3.80	4.55	0.86	1.80	1.70	4.10	0.50	4.25	1.10	0.96	3.65	5.90	
7	3.80	4.55	0.66	0.82	1.70	4.10	0.50	4.25	1.10	0.96	3.65	5.90	
8	3.80	4.55	0.79	0.45	1.70	4.10	0.50	4.25	1.10	0.96	3.50	5.90	
9	3.80	4.55	0.85	0.70	1.70	2.90	0.50	4.25	0.98	0.96	3.35	5.90	
10	3.80	4.85	0.85	0.96	1.70	2.30	0.50	1.00	0.96	0.96	2.30	5.90	
11	3.80	5.00	0.85	1.30	1.80	2.30	0.50	1.00	0.96	0.96	1.90	5.90	
12	3.80	5.00	1.80	2.30	2.00	1.10	0.50	1.00	0.96	0.96	1.90	5.90	
13	3.80	5.00	3.50	2.30	2.00	0.80	0.50	1.30	0.96	0.95	1.80	5.90	
14	3.80	4.70	3.50	2.45	2.00	0.70	0.50	1.50	0.96	0.95	1.70	1.20	
15	3.80	4.55	3.50	2.45	2.00	0.80	0.50	0.85	0.96	0.95	1.80	1.20	
16	3.80	4.10	3.95	2.30	2.00	0.96	0.50	0.75	0.96	0.95	3.05	1.20	
17	3.95	4.10	4.25	2.30	2.30	0.96	0.50	0.75	0.96	0.95	3.95	1.50	
18	4.10	4.10	4.25	2.30	2.45	0.96	0.50	0.75	0.96	1.70	4.40	1.60	
19	4.10	4.10	4.25	2.30	2.45	0.96	0.74	0.75	0.96	2.45	4.40	1.60	
20	4.10	4.10	4.25	2.30	3.05	0.65	0.86	0.75	0.96	2.45	4.40	1.60	
21	4.10	4.10	4.25	2.30	4.25	0.50	0.86	0.90	0.96	2.45	4.40	1.40	
22	4.10	4.10	2.60	1.50	4.25	0.50	0.86	0.97	0.96	2.45	4.40	1.40	
23	4.10	4.10	1.80	0.98	4.25	0.50	0.86	0.97	0.96	2.45	4.40	1.40	
24	4.10	4.10	1.80	0.93	4.25	0.50	0.86	0.97	0.96	2.45	4.40	1.40	
25	4.10	4.40	1.80	0.93	4.25	0.50	0.86	0.75	0.96	2.30	4.40	1.40	
26	4.25	5.00	1.80	0.93	4.25	0.50	0.86	0.75	0.96	2.15	4.40	1.40	
27	4.25	5.00	1.80	1.20	4.25	0.50	0.86	0.75	0.96	2.15	4.40	0.64	
28	4.40	5.00	1.80	1.70	4.25	0.50	0.86	0.75	0.96	2.15	4.40	0.71	
29	4.55	5.00	0.67	1.70	3.35	0.50	0.86	0.68	0.96	2.15		0.85	
30	4.55	5.45	0.72	1.70	0.71	0.50	0.86	0.65	0.96	4.40		0.85	
31		5.75		1.70	0.54		0.86		0.96	5.45		0.85	
Total	119.55	142.55	79.15	57.17	77.65	45.25	20.06	42.27	29.34	53.42	103.10	98.45	867.96 CMSDAY
Mean	3.98	4.60	2.64	1.84	2.50	1.51	0.65	1.41	0.95	1.72	3.68	3.18	2.38 CMS
Max	4.55	5.75	4.40	4.25	4.25	4.10	0.86	4.25	1.10	5.45	5.45	5.90	5.90 CMS
Min	3.80	4.10	0.66	0.45	0.54	0.50	0.50	0.65	0.65	0.95	1.70	0.64	0.45 CMS
Runoff	10.33	12.32	6.84	4.94	6.71	3.91	1.73	3.65	2.53	4.62	8.91	8.51	74.99 MCM

Momentary Peak 5.90 CMS. at 245.56 m. (MSL.) at 12.00 Hours , on Mar 1, 2017

Runoff Yield 1.84 Liters/Second/Square KM. Momentary Peak Yield 4.570 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Huai Thap Than **Amphoe** Huai Thap Thun **Changwat** Si Sa Ket

Drainge Area	2,832 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	118.900 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +130.445 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1972 to date
Rating Operation	
Period of Rating	1972 - 1981, 1987 to date
Rated by Flot	-
Rated by Current Meter	1972 - 1981, 1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

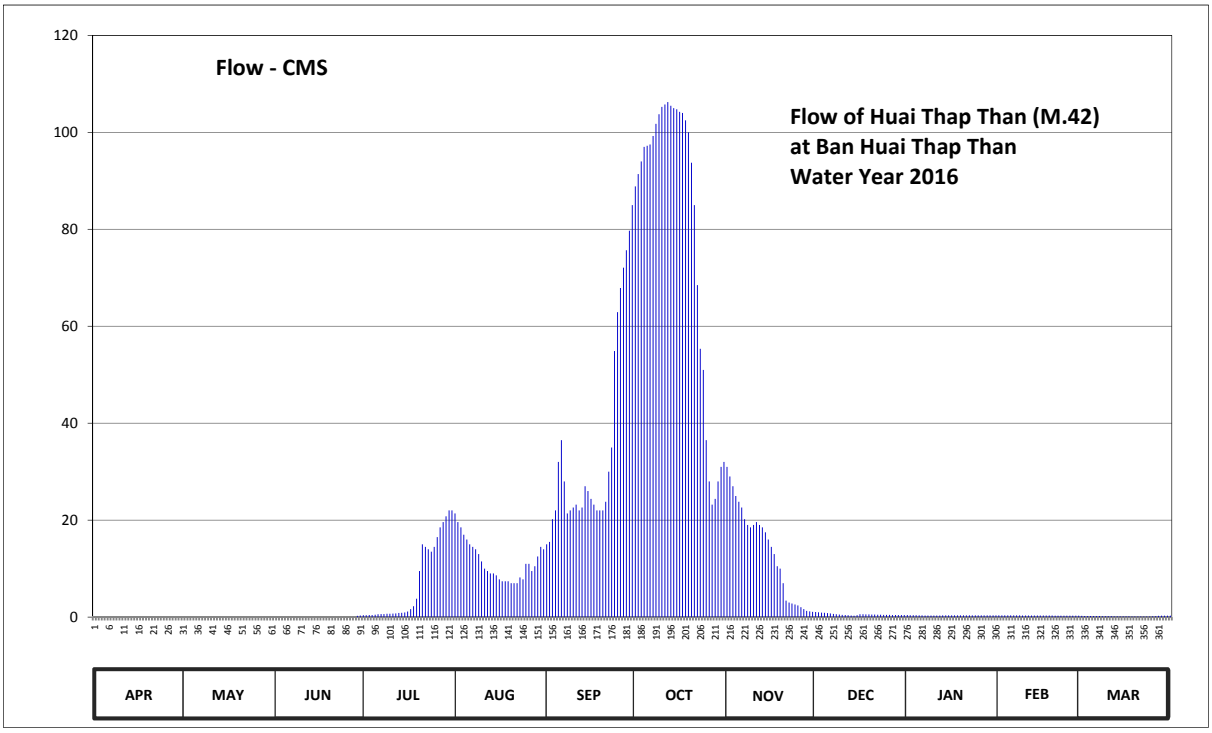
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.08	121.86	121.77	122.30	123.44	123.32	125.82	123.56	122.61	122.31	122.28	122.23	
2	122.07	121.86	121.76	122.30	123.41	123.33	125.93	123.54	122.59	122.30	122.28	122.22	
3	122.06	121.85	121.77	122.31	123.39	123.42	126.04	123.52	122.56	122.29	122.28	122.22	
4	122.05	121.85	121.81	122.31	123.36	123.45	126.16	123.50	122.54	122.29	122.28	122.22	
5	122.04	121.85	121.84	122.34	123.34	123.57	126.17	123.48	122.51	122.28	122.28	122.22	
6	122.03	121.85	121.84	122.39	123.32	123.61	126.18	123.46	122.48	122.28	122.28	122.21	
7	122.02	121.84	121.84	122.41	123.31	123.53	126.25	123.42	122.43	122.27	122.28	122.21	
8	122.01	121.84	121.84	122.42	123.30	123.44	126.35	123.40	122.39	122.27	122.28	122.20	
9	122.00	121.84	121.83	122.44	123.28	123.45	126.43	123.39	122.36	122.27	122.27	122.20	
10	121.99	121.84	121.83	122.45	123.25	123.46	126.49	123.40	122.33	122.27	122.27	122.19	
11	121.99	121.83	121.83	122.47	123.22	123.47	126.51	123.41	122.31	122.27	122.27	122.19	
12	121.98	121.83	121.84	122.48	123.21	123.45	126.53	123.40	122.29	122.27	122.27	122.18	
13	121.98	121.83	121.84	122.52	123.20	123.46	126.50	123.39	122.27	122.28	122.27	122.18	
14	121.97	121.83	121.83	122.55	123.20	123.52	126.48	123.37	122.25	122.28	122.27	122.18	
15	121.97	121.83	121.83	122.58	123.19	123.51	126.47	123.34	122.29	122.28	122.27	122.18	
16	121.96	121.83	121.83	122.63	123.17	123.49	126.45	123.31	122.40	122.28	122.26	122.18	
17	121.95	121.83	121.83	122.73	123.16	123.47	126.44	123.28	122.39	122.28	122.26	122.18	
18	121.94	121.83	121.83	122.85	123.16	123.45	126.38	123.23	122.38	122.28	122.26	122.17	
19	121.94	121.82	121.82	123.04	123.16	123.45	126.28	123.22	122.38	122.28	122.26	122.17	
20	121.93	121.82	121.82	123.21	123.15	123.45	126.03	123.15	122.37	122.28	122.25	122.17	
21	121.93	121.82	121.82	123.32	123.15	123.48	125.65	123.02	122.36	122.28	122.25	122.17	
22	121.92	121.82	121.82	123.31	123.15	123.55	124.85	123.00	122.34	122.28	122.25	122.17	
23	121.92	121.81	121.82	123.30	123.18	123.60	124.09	122.96	122.34	122.28	122.24	122.17	
24	121.92	121.81	121.82	123.29	123.17	124.06	123.80	122.92	122.33	122.28	122.24	122.17	
25	121.91	121.80	121.81	123.31	123.24	124.57	123.61	122.88	122.33	122.28	122.24	122.18	
26	121.90	121.79	121.81	123.35	123.24	124.82	123.53	122.81	122.33	122.28	122.24	122.20	
27	121.89	121.79	121.81	123.39	123.21	125.03	123.47	122.73	122.32	122.28	122.24	122.23	
28	121.88	121.78	121.94	123.41	123.23	125.21	123.49	122.66	122.32	122.28	122.24	122.25	
29	121.87	121.77	122.23	123.43	123.27	125.41	123.53	122.64	122.32	122.28		122.25	
30	121.86	121.78	122.27	123.45	123.31	125.65	123.56	122.62	122.32	122.28		122.25	
31		121.79		123.45	123.30		123.57		122.31	122.28		122.24	
Mean	121.97	121.82	121.85	122.83	123.25	123.82	125.45	123.20	122.38	122.28	122.26	122.20	
Max	122.08	121.86	122.27	123.45	123.44	125.65	126.53	123.56	122.61	122.31	122.28	122.25	126.53
Min	121.86	121.77	121.76	122.30	123.15	123.32	123.47	122.62	122.25	122.27	122.24	122.17	121.76

Annual Max Momentary Gage Height 126.53 m. (MSL.) , at 05.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 118.90 m. (MSL.) , River Bed 117.81 m. (MSL.)

Left Bank Elevation 130.25 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.40	21.40	15.00	88.86	31.00	1.05	0.42	0.36	0.26		
2	0.00	0.00	0.00	0.40	19.60	15.50	91.39	29.00	0.98	0.40	0.36	0.24		
3	0.00	0.00	0.00	0.42	18.50	20.20	94.00	27.00	0.92	0.38	0.36	0.24		
4	0.00	0.00	0.00	0.42	17.00	22.00	97.00	25.00	0.88	0.38	0.36	0.24		
5	0.00	0.00	0.00	0.48	16.00	32.00	97.25	23.80	0.82	0.36	0.36	0.24		
6	0.00	0.00	0.00	0.58	15.00	36.50	97.50	22.60	0.76	0.36	0.36	0.22		
7	0.00	0.00	0.00	0.62	14.50	28.00	99.25	20.20	0.66	0.34	0.36	0.22		
8	0.00	0.00	0.00	0.64	14.00	21.40	101.75	19.00	0.58	0.34	0.36	0.20		
9	0.00	0.00	0.00	0.68	13.00	22.00	103.75	18.50	0.52	0.34	0.34	0.20		
10	0.00	0.00	0.00	0.70	11.50	22.60	105.25	19.00	0.46	0.34	0.34	0.18		
11	0.00	0.00	0.00	0.74	10.00	23.20	105.75	19.60	0.42	0.34	0.34	0.18		
12	0.00	0.00	0.00	0.76	9.50	22.00	106.25	19.00	0.38	0.34	0.34	0.16		
13	0.00	0.00	0.00	0.84	9.00	22.60	105.50	18.50	0.34	0.36	0.34	0.16		
14	0.00	0.00	0.00	0.90	9.00	27.00	105.00	17.50	0.30	0.36	0.34	0.16		
15	0.00	0.00	0.00	0.96	8.60	26.00	104.75	16.00	0.38	0.36	0.34	0.16		
16	0.00	0.00	0.00	1.15	7.80	24.40	104.25	14.50	0.60	0.36	0.32	0.16		
17	0.00	0.00	0.00	1.65	7.40	23.20	104.00	13.00	0.58	0.36	0.32	0.16		
18	0.00	0.00	0.00	2.25	7.40	22.00	102.50	10.50	0.56	0.36	0.32	0.14		
19	0.00	0.00	0.00	3.80	7.40	22.00	100.00	10.00	0.56	0.36	0.32	0.14		
20	0.00	0.00	0.00	9.50	7.00	22.00	93.75	7.00	0.54	0.36	0.30	0.14		
21	0.00	0.00	0.00	15.00	7.00	23.80	85.00	3.40	0.52	0.36	0.30	0.14		
22	0.00	0.00	0.00	14.50	7.00	30.00	68.50	3.00	0.48	0.36	0.30	0.14		
23	0.00	0.00	0.00	14.00	8.20	35.00	55.35	2.80	0.48	0.36	0.28	0.14		
24	0.00	0.00	0.00	13.50	7.80	54.90	51.00	2.60	0.46	0.36	0.28	0.14		
25	0.00	0.00	0.00	14.50	11.00	62.90	36.50	2.40	0.46	0.36	0.28	0.16		
26	0.00	0.00	0.00	16.50	11.00	67.90	28.00	2.05	0.46	0.36	0.28	0.20		
27	0.00	0.00	0.00	18.50	9.50	72.10	23.20	1.65	0.44	0.36	0.28	0.26		
28	0.00	0.00	0.00	19.60	10.50	75.70	24.40	1.30	0.44	0.36	0.28	0.30		
29	0.00	0.00	0.26	20.80	12.50	79.72	28.00	1.20	0.44	0.36		0.30		
30	0.00	0.00	0.34	22.00	14.50	85.00	31.00	1.10	0.44	0.36		0.30		
31		0.00		22.00	14.00		32.00		0.42	0.36		0.28		
Total			0.60	218.79	356.60	1056.62	2470.70	402.20	17.33	11.18	9.12	6.16	4549.30	CMSDAY
Mean	0.00	0.00	0.02	7.06	11.50	35.22	79.70	13.41	0.56	0.36	0.33	0.20	12.46	CMS
Max	0.00	0.00	0.34	22.00	21.40	85.00	106.25	31.00	1.05	0.42	0.36	0.30	106.25	CMS
Min	0.00	0.00	0.00	0.40	7.00	15.00	23.20	1.10	0.30	0.34	0.28	0.14	0.00	CMS
Runoff			0.05	18.90	30.81	91.29	213.47	34.75	1.50	0.97	0.79	0.53	393.06	MCM

Momentary Peak 106.25 CMS. at 126.53 m. (MSL.) at 05.00 Hours , on Oct 12 , 2016

Runoff Yield 4.40 Liters/Second/Square KM. Momentary Peak Yield 37.520 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

	Ban Tha Maprang	**Amphoe** Pak Chong	**Changwat** Nakhon Ratchasima
Drainge Area	153 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+371.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation**	+378.675 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The weir situated above gage site.		
	Stage-discharge relation defined by 53 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

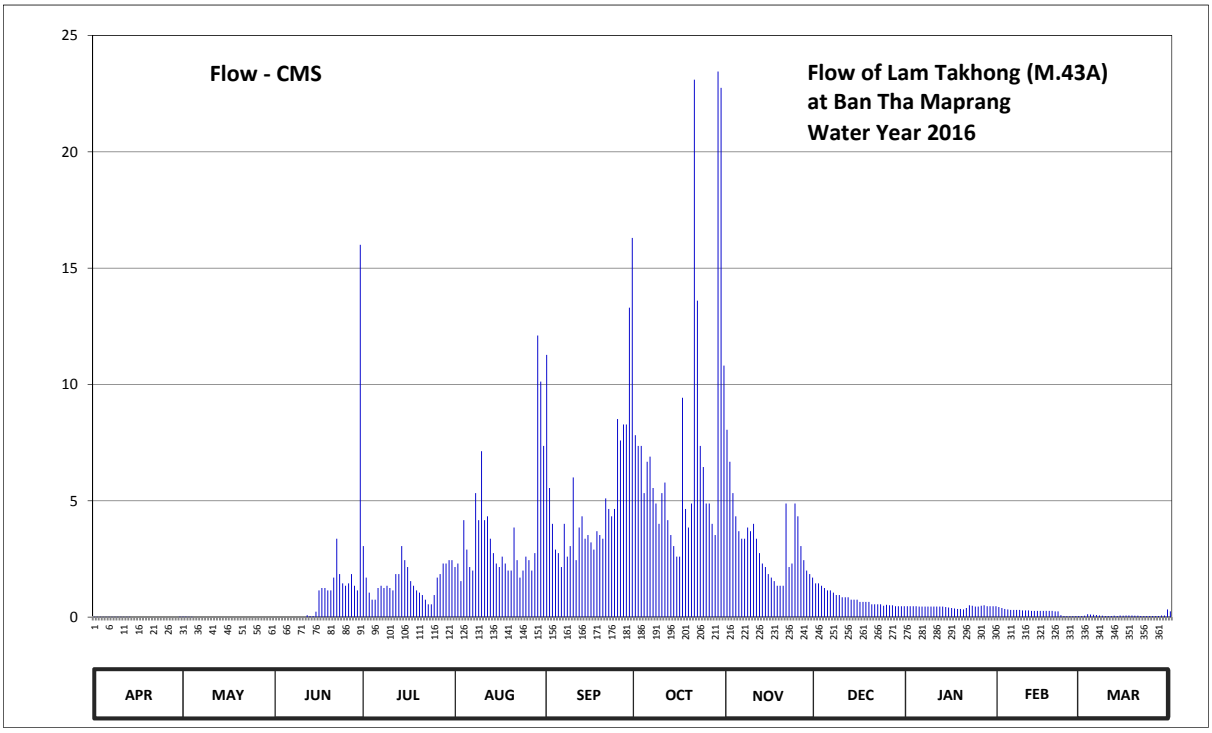
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.14	372.19	372.08	372.80	372.74	373.19	373.04	373.05	372.69	372.56	372.54	372.30	
2	372.14	372.19	372.05	372.71	372.75	372.94	373.02	372.99	372.69	372.56	372.52	372.31	
3	372.14	372.15	372.04	372.65	372.70	372.86	373.02	372.93	372.68	372.56	372.50	372.37	
4	372.14	372.13	372.00	372.62	372.87	372.79	372.93	372.88	372.67	372.56	372.49	372.36	
5	372.14	372.07	371.99	372.62	372.79	372.78	372.99	372.84	372.66	372.55	372.48	372.35	
6	372.14	372.01	371.95	372.67	372.74	372.74	373.00	372.82	372.66	372.55	372.48	372.34	
7	372.14	372.01	371.95	372.68	372.73	372.86	372.94	372.82	372.65	372.55	372.48	372.32	
8	372.14	371.99	371.95	372.67	372.93	372.77	372.91	372.85	372.64	372.55	372.48	372.31	
9	372.14	371.99	371.95	372.68	372.87	372.80	372.86	372.84	372.64	372.55	372.47	372.30	
10	372.14	371.96	372.00	372.67	373.01	372.96	372.93	372.86	372.63	372.55	372.47	372.30	
11	372.14	371.94	372.10	372.66	372.87	372.76	372.95	372.82	372.63	372.55	372.47	372.30	
12	372.14	371.92	372.33	372.72	372.88	372.85	372.87	372.78	372.63	372.55	372.46	372.31	
13	372.13	371.92	372.30	372.72	372.82	372.88	372.83	372.75	372.62	372.55	372.46	372.30	
14	372.12	371.91	372.29	372.80	372.78	372.82	372.80	372.74	372.62	372.54	372.46	372.32	
15	372.11	371.94	372.44	372.76	372.75	372.83	372.77	372.72	372.62	372.53	372.46	372.31	
16	372.10	371.90	372.66	372.74	372.74	372.81	372.77	372.71	372.61	372.52	372.46	372.32	
17	372.09	372.02	372.67	372.70	372.77	372.79	373.11	372.70	372.61	372.51	372.46	372.32	
18	372.08	372.08	372.67	372.68	372.75	372.84	372.90	372.68	372.61	372.50	372.46	372.32	
19	372.07	372.06	372.66	372.66	372.73	372.83	372.85	372.68	372.61	372.50	372.46	372.31	
20	372.06	372.01	372.66	372.65	372.73	372.82	372.91	372.68	372.60	372.49	372.45	372.31	
21	372.05	371.91	372.71	372.64	372.85	372.92	373.56	372.91	372.60	372.52	372.45	372.30	
22	372.05	371.86	372.82	372.62	372.76	372.90	373.27	372.74	372.60	372.58	372.33	372.30	
23	372.05	371.80	372.72	372.60	372.71	372.88	373.02	372.75	372.60	372.57	372.29	372.30	
24	372.05	371.80	372.69	372.60	372.73	372.90	372.98	372.91	372.57	372.55	372.27	372.29	
25	372.04	371.80	372.68	372.64	372.77	373.07	372.91	372.88	372.59	372.55	372.28	372.30	
26	372.04	371.84	372.69	372.71	372.76	373.03	372.91	372.80	372.58	372.57	372.27	372.30	
27	372.04	371.96	372.72	372.72	372.73	373.06	372.86	372.76	372.58	372.58	372.30	372.30	
28	372.04	371.95	372.68	372.75	372.78	373.06	372.83	372.73	372.56	372.56	372.30	372.32	
29	372.10	371.97	372.66	372.75	373.22	373.26	373.57	372.72	372.56	372.56		372.32	
30	372.19	372.01	373.35	372.76	373.14	373.36	373.55	372.71	372.56	372.56		372.49	
31		372.01		372.76	373.02		373.17		372.56	372.56		372.45	
Mean	372.10	371.98	372.42	372.69	372.82	372.91	373.00	372.80	372.62	372.55	372.43	372.32	
Max	372.19	372.19	373.35	372.80	373.22	373.36	373.57	373.05	372.69	372.58	372.54	372.49	373.57
Min	372.04	371.80	371.95	372.60	372.70	372.74	372.77	372.68	372.56	372.49	372.27	372.29	371.80

Annual Max Momentary Gage Height 374.62 m. (MSL.) , at 13.00 Hours , on Oct 29 , 2016

Zero Gage at Bottom Elevation 371.70 m. (MSL.) , River Bed 371.90 m. (MSL.)

Left Bank Elevation 378.40 m. (MSL.) ,

Right Bank Elevation 378.41 m. (MSL.) , Drainage Are 153 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.02	0.00	3.05	2.15	11.27	7.82	8.05	1.45	0.47	0.43	0.05	
2	0.01	0.02	0.00	1.70	2.30	5.55	7.36	6.68	1.45	0.47	0.39	0.06	
3	0.01	0.01	0.00	1.05	1.55	4.01	7.36	5.33	1.35	0.47	0.35	0.12	
4	0.01	0.01	0.00	0.75	4.17	2.90	5.33	4.33	1.25	0.47	0.33	0.11	
5	0.01	0.00	0.00	0.75	2.90	2.75	6.68	3.69	1.15	0.45	0.31	0.10	
6	0.01	0.00	0.00	1.25	2.15	2.15	6.90	3.37	1.15	0.45	0.31	0.09	
7	0.01	0.00	0.00	1.35	2.00	4.01	5.55	3.37	1.05	0.45	0.31	0.07	
8	0.01	0.00	0.00	1.25	5.33	2.60	4.88	3.85	0.95	0.45	0.31	0.06	
9	0.01	0.00	0.00	1.35	4.17	3.05	4.01	3.69	0.95	0.45	0.29	0.05	
10	0.01	0.00	0.00	1.25	7.13	6.00	5.33	4.01	0.85	0.45	0.29	0.05	
11	0.01	0.00	0.00	1.15	4.17	2.45	5.78	3.37	0.85	0.45	0.29	0.05	
12	0.01	0.00	0.08	1.85	4.33	3.85	4.17	2.75	0.85	0.45	0.27	0.06	
13	0.01	0.00	0.05	1.85	3.37	4.33	3.53	2.30	0.75	0.45	0.27	0.05	
14	0.00	0.00	0.05	3.05	2.75	3.37	3.05	2.15	0.75	0.43	0.27	0.07	
15	0.00	0.00	0.23	2.45	2.30	3.53	2.60	1.85	0.75	0.41	0.27	0.06	
16	0.00	0.00	1.15	2.15	2.15	3.21	2.60	1.70	0.65	0.39	0.27	0.07	
17	0.00	0.00	1.25	1.55	2.60	2.90	9.43	1.55	0.65	0.37	0.27	0.07	
18	0.00	0.00	1.25	1.35	2.30	3.69	4.65	1.35	0.65	0.35	0.27	0.07	
19	0.00	0.00	1.15	1.15	2.00	3.53	3.85	1.35	0.65	0.35	0.27	0.06	
20	0.00	0.00	1.15	1.05	2.00	3.37	4.88	1.35	0.55	0.33	0.25	0.06	
21	0.00	0.00	1.70	0.95	3.85	5.10	23.10	4.88	0.55	0.39	0.25	0.05	
22	0.00	0.00	3.37	0.75	2.45	4.65	13.60	2.15	0.55	0.51	0.08	0.05	
23	0.00	0.00	1.85	0.55	1.70	4.33	7.36	2.30	0.55	0.49	0.05	0.05	
24	0.00	0.00	1.45	0.55	2.00	4.65	6.45	4.88	0.49	0.45	0.04	0.05	
25	0.00	0.00	1.35	0.95	2.60	8.51	4.88	4.33	0.53	0.45	0.04	0.05	
26	0.00	0.00	1.45	1.70	2.45	7.59	4.88	3.05	0.51	0.49	0.04	0.05	
27	0.00	0.00	1.85	1.85	2.00	8.28	4.01	2.45	0.51	0.51	0.05	0.05	
28	0.00	0.00	1.35	2.30	2.75	8.28	3.53	2.00	0.47	0.47	0.05	0.07	
29	0.00	0.00	1.15	2.30	12.10	13.30	23.45	1.85	0.47	0.47		0.07	
30	0.02	0.00	16.00	2.45	10.12	16.30	22.75	1.70	0.47	0.47		0.33	
31		0.00		2.45	7.36		10.81		0.47	0.47		0.25	
Total	0.15	0.06	37.88	48.15	111.20	159.51	230.58	95.68	24.27	13.73	6.62	2.45	730.28 CMSDAY
Mean	0.00	0.00	1.26	1.55	3.59	5.32	7.44	3.19	0.78	0.44	0.24	0.08	2.00 CMS
Max	0.02	0.02	16.00	3.05	12.10	16.30	23.45	8.05	1.45	0.51	0.43	0.33	23.45 CMS
Min	0.00	0.00	0.00	0.55	1.55	2.15	2.60	1.35	0.47	0.33	0.04	0.05	0.00 CMS
Runoff	0.01	0.01	3.27	4.16	9.61	13.78	19.92	8.27	2.10	1.19	0.57	0.21	63.10 MCM

Momentary Peak 77.80 CMS. at 374.62 m. (MSL.) at 13.00 Hours , on Oct 29 , 2016

Runoff Yield 13.08 Liters/Second/Square KM. Momentary Peak Yield 508.500 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

	Ban -	**Amphoe** Pak Chong	**Changwat** Nakhon Ratchasima
Drainge Area	713 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+290.900 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+299.985 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1970 to date		
Rating Operation			
Period of Rating	1971 to date		
Rated by Flot	-		
Rated by Current Meter	1971 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

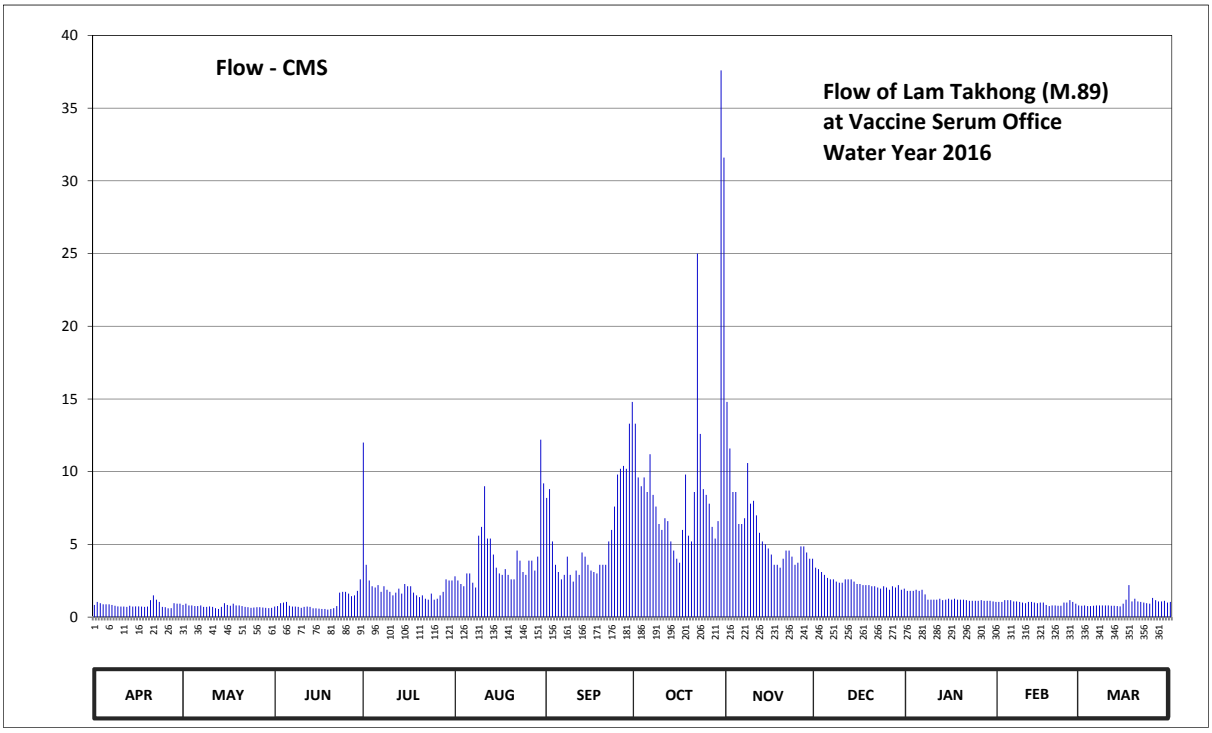
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.61	292.61	292.56	293.45	292.92	293.26	293.51	293.56	292.98	292.80	292.66	292.59	
2	292.66	292.63	292.58	293.00	292.89	293.29	293.33	293.43	292.97	292.80	292.66	292.60	
3	292.64	292.60	292.64	292.89	292.86	293.11	293.30	293.28	292.95	292.80	292.69	292.58	
4	292.62	292.60	292.65	292.84	292.84	293.00	293.33	293.28	292.93	292.81	292.69	292.58	
5	292.62	292.58	292.66	292.83	292.94	292.95	293.28	293.17	292.91	292.80	292.69	292.59	
6	292.62	292.58	292.59	292.85	292.94	292.90	293.41	293.17	292.90	292.81	292.67	292.60	
7	292.61	292.60	292.56	292.79	292.87	292.93	293.27	293.19	292.90	292.76	292.67	292.60	
8	292.59	292.55	292.56	292.84	292.83	293.04	293.23	293.38	292.88	292.70	292.66	292.60	
9	292.57	292.55	292.55	292.81	293.13	292.93	293.17	293.24	292.87	292.70	292.65	292.60	
10	292.56	292.57	292.52	292.79	293.16	292.88	293.15	293.25	292.87	292.70	292.64	292.60	
11	292.56	292.55	292.55	292.75	293.30	292.96	293.19	293.20	292.90	292.70	292.66	292.59	
12	292.55	292.51	292.56	292.78	293.12	292.93	293.18	293.14	292.90	292.71	292.66	292.59	
13	292.59	292.48	292.55	292.82	293.12	293.06	293.11	293.11	292.90	292.69	292.65	292.58	
14	292.56	292.55	292.50	292.77	293.05	293.04	293.07	293.10	292.88	292.70	292.64	292.57	
15	292.57	292.64	292.50	292.86	292.98	293.00	293.03	293.08	292.86	292.71	292.65	292.63	
16	292.57	292.61	292.49	292.84	292.94	292.96	293.01	293.05	292.86	292.70	292.65	292.70	
17	292.56	292.59	292.48	292.84	292.93	292.95	293.15	293.00	292.85	292.71	292.61	292.85	
18	292.55	292.63	292.48	292.78	292.97	292.94	293.34	293.00	292.85	292.70	292.58	292.67	
19	292.56	292.60	292.46	292.75	292.93	293.00	293.13	292.98	292.85	292.70	292.60	292.71	
20	292.69	292.60	292.48	292.73	292.90	293.00	293.11	293.03	292.84	292.70	292.60	292.67	
21	292.75	292.58	292.51	292.75	292.90	293.00	293.28	293.07	292.84	292.69	292.59	292.66	
22	292.70	292.55	292.58	292.71	293.07	293.11	293.90	293.07	292.83	292.68	292.59	292.65	
23	292.66	292.54	292.78	292.70	293.02	293.15	293.48	293.04	292.82	292.68	292.65	292.64	
24	292.55	292.52	292.79	292.77	292.95	293.23	293.29	293.00	292.84	292.68	292.65	292.63	
25	292.54	292.53	292.79	292.70	292.93	293.34	293.27	293.01	292.83	292.68	292.69	292.72	
26	292.50	292.54	292.77	292.71	293.02	293.36	293.24	293.09	292.81	292.69	292.66	292.69	
27	292.51	292.54	292.74	292.75	293.02	293.37	293.16	293.09	292.84	292.68	292.63	292.67	
28	292.64	292.53	292.75	292.79	292.96	293.36	293.12	293.06	292.83	292.68	292.60	292.67	
29	292.63	292.52	292.80	292.90	293.04	293.51	293.18	293.03	292.85	292.68		292.68	
30	292.63	292.51	292.90	292.89	293.46	293.56	294.32	293.03	292.81	292.67		292.65	
31		292.52		292.89	293.31		294.12		292.82	292.66		292.66	
Mean	292.60	292.56	292.61	292.82	293.01	293.10	293.31	293.14	292.87	292.72	292.64	292.64	
Max	292.75	292.64	292.90	293.45	293.46	293.56	294.32	293.56	292.98	292.81	292.69	292.85	294.32
Min	292.50	292.48	292.46	292.70	292.83	292.88	293.01	292.98	292.81	292.66	292.58	292.57	292.46

Annual Max Momentary Gage Height 294.50 m. (MSL.) , at 10.00 Hours , on Oct 30, 2016

Zero Gage at Bottom Elevation 290.90 m. (MSL.) , River Bed 291.12 m. (MSL.)

Left Bank Elevation 299.56 m. (MSL.) ,

Right Bank Elevation 299.86 m. (MSL.) , Drainage Are 713 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	0.84	0.72	12.00	2.80	8.20	13.30	14.80	3.40	1.80	1.04	0.78	
2	1.04	0.92	0.76	3.60	2.52	8.80	9.60	11.60	3.30	1.80	1.04	0.80	
3	0.96	0.80	0.96	2.52	2.28	5.20	9.00	8.60	3.10	1.80	1.16	0.76	
4	0.88	0.80	1.00	2.12	2.12	3.60	9.60	8.60	2.90	1.88	1.16	0.76	
5	0.88	0.76	1.04	2.04	3.00	3.10	8.60	6.40	2.70	1.80	1.16	0.78	
6	0.88	0.76	0.78	2.20	3.00	2.60	11.20	6.40	2.60	1.88	1.08	0.80	
7	0.84	0.80	0.72	1.74	2.36	2.90	8.40	6.80	2.60	1.56	1.08	0.80	
8	0.78	0.70	0.72	2.12	2.04	4.16	7.60	10.60	2.44	1.20	1.04	0.80	
9	0.74	0.70	0.70	1.88	5.60	2.90	6.40	7.80	2.36	1.20	1.00	0.80	
10	0.72	0.74	0.64	1.74	6.20	2.44	6.00	8.00	2.36	1.20	0.96	0.80	
11	0.72	0.70	0.70	1.50	9.00	3.20	6.80	7.00	2.60	1.20	1.04	0.78	
12	0.70	0.62	0.72	1.68	5.40	2.90	6.60	5.80	2.60	1.26	1.04	0.78	
13	0.78	0.56	0.70	1.96	5.40	4.44	5.20	5.20	2.60	1.16	1.00	0.76	
14	0.72	0.70	0.60	1.62	4.30	4.16	4.58	5.00	2.44	1.20	0.96	0.74	
15	0.74	0.96	0.60	2.28	3.40	3.60	4.02	4.72	2.28	1.26	1.00	0.92	
16	0.74	0.84	0.58	2.12	3.00	3.20	3.74	4.30	2.28	1.20	1.00	1.20	
17	0.72	0.78	0.56	2.12	2.90	3.10	6.00	3.60	2.20	1.26	0.84	2.20	
18	0.70	0.92	0.56	1.68	3.30	3.00	9.80	3.60	2.20	1.20	0.76	1.08	
19	0.72	0.80	0.52	1.50	2.90	3.60	5.60	3.40	2.20	1.20	0.80	1.26	
20	1.16	0.80	0.56	1.38	2.60	3.60	5.20	4.02	2.12	1.20	0.80	1.08	
21	1.50	0.76	0.62	1.50	2.60	3.60	8.60	4.58	2.12	1.16	0.78	1.04	
22	1.20	0.70	0.76	1.26	4.58	5.20	25.00	4.58	2.04	1.12	0.78	1.00	
23	1.04	0.68	1.68	1.20	3.88	6.00	12.60	4.16	1.96	1.12	1.00	0.96	
24	0.70	0.64	1.74	1.62	3.10	7.60	8.80	3.60	2.12	1.12	1.00	0.92	
25	0.68	0.66	1.74	1.20	2.90	9.80	8.40	3.74	2.04	1.12	1.16	1.32	
26	0.60	0.68	1.62	1.26	3.88	10.20	7.80	4.86	1.88	1.16	1.04	1.16	
27	0.62	0.68	1.44	1.50	3.88	10.40	6.20	4.86	2.12	1.12	0.92	1.08	
28	0.96	0.66	1.50	1.74	3.20	10.20	5.40	4.44	2.04	1.12	0.80	1.08	
29	0.92	0.64	1.80	2.60	4.16	13.30	6.60	4.02	2.20	1.12		1.12	
30	0.92	0.62	2.60	2.52	12.20	14.80	37.60	4.02	1.88	1.08		1.00	
31		0.64		2.52	9.20		31.60		1.96	1.04		1.04	
Total	25.40	22.86	29.64	68.72	127.70	169.80	305.84	179.10	73.64	40.54	27.44	30.40	1101.08 CMSDAY
Mean	0.85	0.74	0.99	2.22	4.12	5.66	9.87	5.97	2.38	1.31	0.98	0.98	3.02 CMS
Max	1.50	0.96	2.60	12.00	12.20	14.80	37.60	14.80	3.40	1.88	1.16	2.20	37.60 CMS
Min	0.60	0.56	0.52	1.20	2.04	2.44	3.74	3.40	1.88	1.04	0.76	0.74	0.52 CMS
Runoff	2.19	1.98	2.56	5.94	11.03	14.67	26.42	15.47	6.36	3.50	2.37	2.63	95.13 MCM

Momentary Peak 43.50 CMS. at 294.50 m. (MSL.) at 10.00 Hours , on Oct 30, 2016

Runoff Yield 4.23 Liters/Second/Square KM. Momentary Peak Yield 61.010 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Sieo Yai at Ban Ku, Roi Et. (M.95)

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

Location : on left bank at the bridge on Highway.

Ban Ku **Amphoe** Suwannaphum **Changwat** Roi Et

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+118.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +124.105 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings
Period of Available Gage Records	1978 - 1989, 2005 to date
Rating Operation	
Period of Rating	1978 - 1989, 2005 to date
Rated by Flot	-
Rated by Current Meter	1978 - 1989, 2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

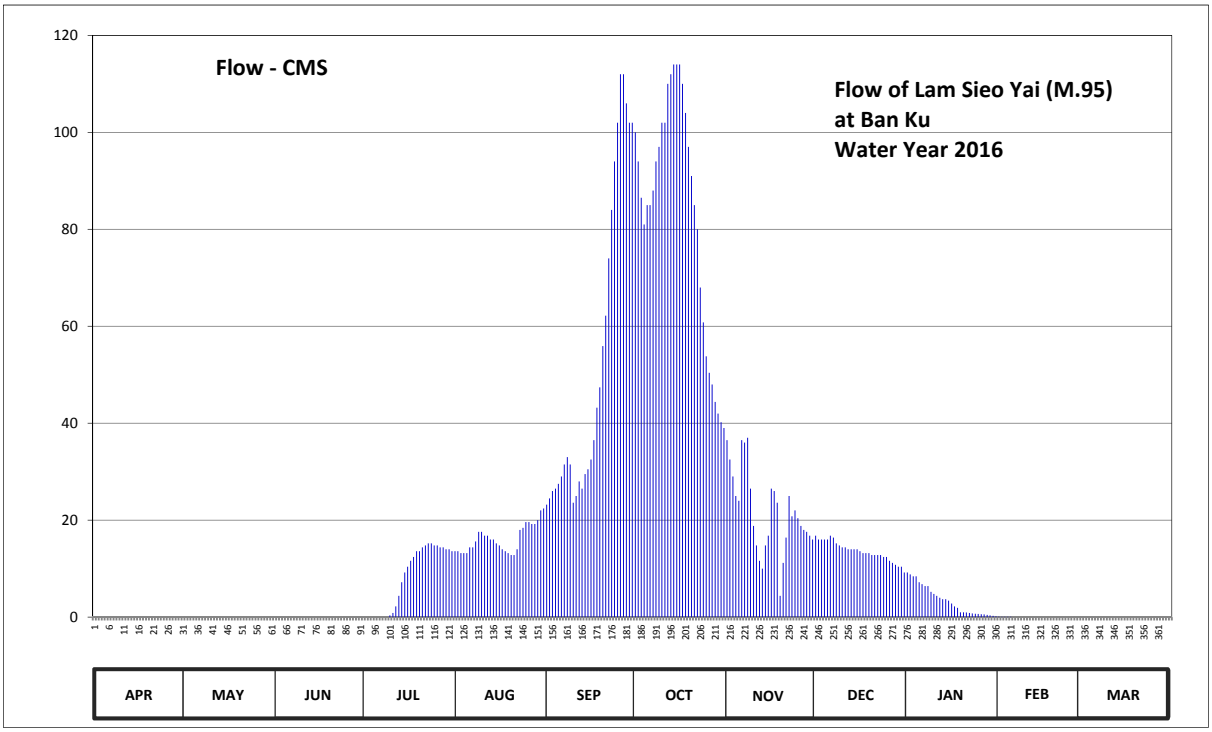
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.48	119.21	119.25	119.50	120.54	120.78	121.80	121.05	120.62	120.43	120.02	119.66	
2	119.48	119.21	119.25	119.50	120.54	120.81	121.76	120.97	120.60	120.42	120.01	119.65	
3	119.46	119.21	119.24	119.50	120.53	120.84	121.71	120.90	120.60	120.41	120.01	119.63	
4	119.46	119.21	119.23	119.51	120.53	120.85	121.66	120.82	120.60	120.41	120.01	119.62	
5	119.45	119.22	119.23	119.52	120.53	120.87	121.70	120.80	120.60	120.38	120.01	119.61	
6	119.44	119.22	119.24	119.63	120.56	120.90	121.70	121.05	120.62	120.37	120.00	119.59	
7	119.44	119.22	119.23	119.72	120.56	120.95	121.72	121.04	120.61	120.36	119.98	119.58	
8	119.44	119.22	119.23	119.85	120.59	120.98	121.76	121.06	120.58	120.36	119.97	119.58	
9	119.43	119.21	119.23	119.93	120.64	120.95	121.78	120.85	120.57	120.33	119.95	119.57	
10	119.42	119.19	119.22	120.07	120.64	120.79	121.81	120.67	120.56	120.32	119.95	119.56	
11	119.42	119.18	119.22	120.17	120.62	120.82	121.81	120.57	120.56	120.31	119.93	119.55	
12	119.42	119.17	119.21	120.24	120.62	120.88	121.85	120.49	120.55	120.30	119.92	119.53	
13	119.42	119.15	119.21	120.31	120.60	120.85	121.86	120.45	120.55	120.29	119.89	119.52	
14	119.42	119.15	119.19	120.38	120.60	120.91	121.87	120.57	120.55	120.29	119.88	119.51	
15	119.41	119.13	119.16	120.43	120.58	120.93	121.87	120.62	120.55	120.28	119.87	119.49	
16	119.40	119.11	119.16	120.46	120.57	120.97	121.87	120.85	120.54	120.26	119.84	119.53	
17	119.33	119.10	119.15	120.49	120.55	121.05	121.85	120.84	120.53	120.24	119.83	119.53	
18	119.31	119.10	119.14	120.51	120.54	121.17	121.82	120.79	120.53	120.23	119.81	119.52	
19	119.31	119.09	119.14	120.54	120.53	121.24	121.78	120.31	120.53	120.20	119.80	119.52	
20	119.30	119.09	119.14	120.54	120.52	121.37	121.74	120.48	120.52	120.20	119.79	119.52	
21	119.29	119.07	119.12	120.56	120.52	121.46	121.70	120.61	120.52	120.19	119.78	119.52	
22	119.28	119.07	119.11	120.57	120.55	121.59	121.65	120.82	120.52	120.17	119.76	119.53	
23	119.27	119.06	119.11	120.58	120.65	121.69	121.53	120.72	120.52	120.15	119.75	119.51	
24	119.26	119.05	119.14	120.58	120.66	121.76	121.44	120.75	120.51	120.14	119.75	119.50	
25	119.25	119.06	119.14	120.57	120.69	121.81	121.34	120.71	120.51	120.13	119.74	119.50	
26	119.24	119.06	119.13	120.57	120.69	121.86	121.29	120.67	120.49	120.12	119.73	119.49	
27	119.23	119.09	119.18	120.56	120.68	121.86	121.25	120.65	120.48	120.11	119.72	119.47	
28	119.21	119.24	119.24	120.56	120.68	121.83	121.19	120.64	120.47	120.09	119.71	119.46	
29	119.20	119.24	119.32	120.55	120.70	121.81	121.15	120.62	120.46	120.07		119.46	
30	119.20	119.24	119.46	120.55	120.75	121.81	121.12	120.60	120.46	120.05		119.45	
31		119.24		120.54	120.76		121.10		120.43	120.03		119.44	
Mean	119.36	119.16	119.20	120.23	120.60	121.21	121.63	120.73	120.54	120.25	119.87	119.54	
Max	119.48	119.24	119.46	120.58	120.76	121.86	121.87	121.06	120.62	120.43	120.02	119.66	121.87
Min	119.20	119.05	119.11	119.50	120.52	120.78	121.10	120.31	120.43	120.03	119.71	119.44	119.05

Annual Max Momentary Gage Height 121.87 m. (MSL.) , at 06.00 Hours , on Oct 14 , 2016

Zero Gage at Bottom Elevation 118.10 m. (MSL.) , River Bed 117.89 m. (MSL.)

Left Bank Elevation 124.39 m. (MSL.) ,

Right Bank Elevation 123.52 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	13.60	23.20	100.00	36.50	16.80	9.20	0.10	0.00	
2	0.00	0.00	0.00	0.00	13.60	24.50	94.00	32.50	16.00	8.80	0.05	0.00	
3	0.00	0.00	0.00	0.00	13.20	26.00	86.50	29.00	16.00	8.40	0.05	0.00	
4	0.00	0.00	0.00	0.00	13.20	26.50	81.00	25.00	16.00	8.40	0.05	0.00	
5	0.00	0.00	0.00	0.00	13.20	27.50	85.00	24.00	16.00	7.20	0.05	0.00	
6	0.00	0.00	0.00	0.00	14.40	29.00	85.00	36.50	16.80	6.80	0.00	0.00	
7	0.00	0.00	0.00	0.00	14.40	31.50	88.00	36.00	16.40	6.40	0.00	0.00	
8	0.00	0.00	0.00	0.00	15.60	33.00	94.00	37.00	15.20	6.40	0.00	0.00	
9	0.00	0.00	0.00	0.00	17.60	31.50	97.00	26.50	14.80	5.20	0.00	0.00	
10	0.00	0.00	0.00	0.35	17.60	23.60	102.00	18.80	14.40	4.80	0.00	0.00	
11	0.00	0.00	0.00	0.85	16.80	25.00	102.00	14.80	14.40	4.40	0.00	0.00	
12	0.00	0.00	0.00	2.20	16.80	28.00	110.00	11.60	14.00	4.00	0.00	0.00	
13	0.00	0.00	0.00	4.40	16.00	26.50	112.00	10.00	14.00	3.70	0.00	0.00	
14	0.00	0.00	0.00	7.20	16.00	29.50	114.00	14.80	14.00	3.70	0.00	0.00	
15	0.00	0.00	0.00	9.20	15.20	30.50	114.00	16.80	14.00	3.40	0.00	0.00	
16	0.00	0.00	0.00	10.40	14.80	32.50	114.00	26.50	13.60	2.80	0.00	0.00	
17	0.00	0.00	0.00	11.60	14.00	36.50	110.00	26.00	13.20	2.20	0.00	0.00	
18	0.00	0.00	0.00	12.40	13.60	43.20	104.00	23.60	13.20	1.90	0.00	0.00	
19	0.00	0.00	0.00	13.60	13.20	47.40	97.00	4.40	13.20	1.00	0.00	0.00	
20	0.00	0.00	0.00	13.60	12.80	55.90	91.00	11.20	12.80	1.00	0.00	0.00	
21	0.00	0.00	0.00	14.40	12.80	62.20	85.00	16.40	12.80	0.95	0.00	0.00	
22	0.00	0.00	0.00	14.80	14.00	74.00	80.00	25.00	12.80	0.85	0.00	0.00	
23	0.00	0.00	0.00	15.20	18.00	84.00	68.00	20.80	12.80	0.75	0.00	0.00	
24	0.00	0.00	0.00	15.20	18.40	94.00	60.80	22.00	12.40	0.70	0.00	0.00	
25	0.00	0.00	0.00	14.80	19.60	102.00	53.80	20.40	12.40	0.65	0.00	0.00	
26	0.00	0.00	0.00	14.80	19.60	112.00	50.40	18.80	11.60	0.60	0.00	0.00	
27	0.00	0.00	0.00	14.40	19.20	112.00	48.00	18.00	11.20	0.55	0.00	0.00	
28	0.00	0.00	0.00	14.40	19.20	106.00	44.40	17.60	10.80	0.45	0.00	0.00	
29	0.00	0.00	0.00	14.00	20.00	102.00	42.00	16.80	10.40	0.35		0.00	
30	0.00	0.00	0.00	14.00	22.00	102.00	40.20	16.00	10.40	0.25		0.00	
31		0.00		13.60	22.40		39.00		9.20	0.15		0.00	
Total	0.00	0.00	0.00	245.40	500.80	1581.50	2592.10	653.30	421.60	105.95	0.30	0.00	6100.95	CMSDAY
Mean	0.00	0.00	0.00	7.92	16.15	52.72	83.62	21.78	13.60	3.42	0.01	0.00	16.71	CMS
Max	0.00	0.00	0.00	15.20	22.40	112.00	114.00	37.00	16.80	9.20	0.10	0.00	114.00	CMS
Min	0.00	0.00	0.00	0.00	12.80	23.20	39.00	4.40	9.20	0.15	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	21.20	43.27	136.64	223.96	56.45	36.43	9.15	0.03	0.00	527.12	MCM

Momentary Peak 114.00 CMS. at 121.87 m. (MSL.) at 06.00 Hours , on Oct 14, 2016

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

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge.

Ban Wang Prat **Amphoe** Khu Mueang **Changwat** Buri Ram

Drainge Area	24,841 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+129.800 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the footpath of the bridge. **Elevation** +140.339 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow
General Description	Records very good. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

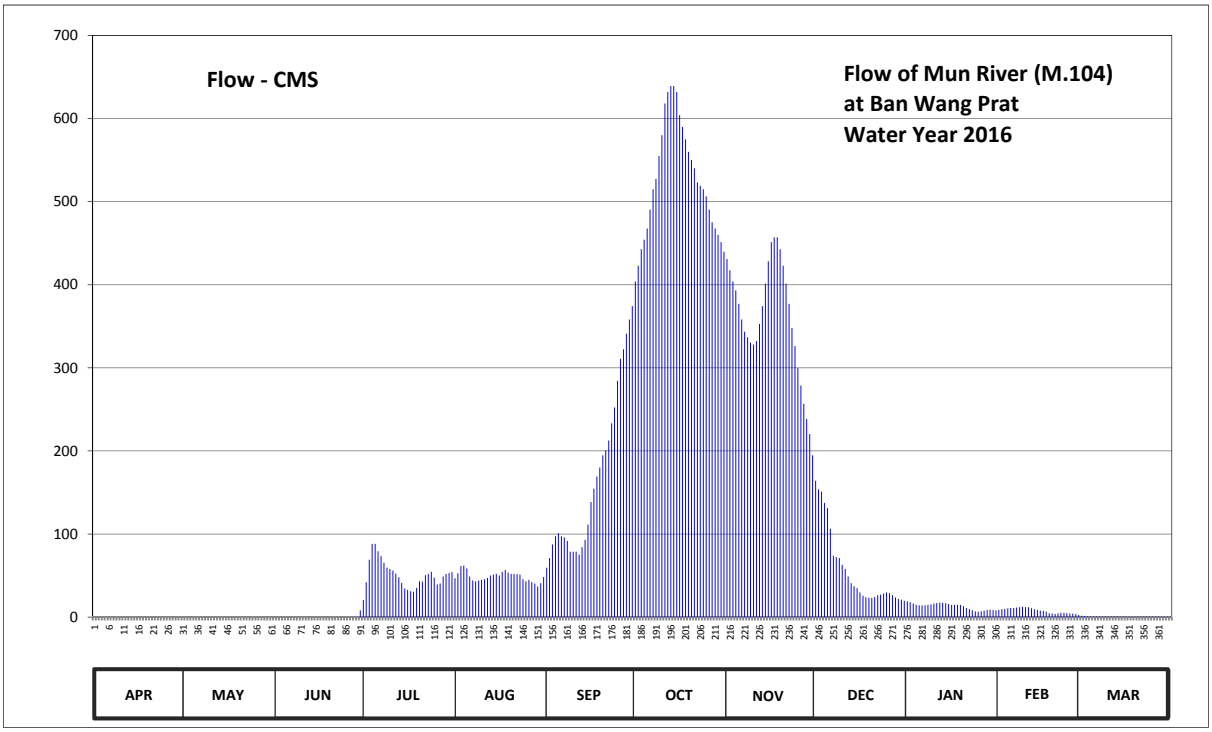
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.30	130.12	130.25	131.42	132.12	132.43	135.30	135.40	133.84	131.37	130.98	130.64	
2	130.29	130.11	130.25	132.00	132.27	132.65	135.37	135.35	133.73	131.33	131.03	130.62	
3	130.29	130.11	130.25	132.62	132.47	132.92	135.44	135.30	133.70	131.28	131.05	130.60	
4	130.29	130.11	130.26	132.93	132.48	133.06	135.48	135.26	133.55	131.23	131.08	130.56	
5	130.29	130.11	130.26	132.93	132.41	133.11	135.52	135.20	133.48	131.21	131.10	130.55	
6	130.29	130.11	130.26	132.79	132.17	133.06	135.58	135.13	133.18	131.20	131.10	130.54	
7	130.29	130.11	130.26	132.69	132.05	133.04	135.64	135.07	132.70	131.21	131.12	130.52	
8	130.29	130.10	130.25	132.55	132.03	132.98	135.67	135.04	132.67	131.23	131.13	130.55	
9	130.29	130.10	130.25	132.43	132.05	132.78	135.73	135.01	132.65	131.24	131.15	130.55	
10	130.25	130.10	130.25	132.40	132.07	132.78	135.78	135.00	132.50	131.28	131.14	130.56	
11	130.25	130.09	130.24	132.35	132.09	132.78	135.84	135.02	132.40	131.30	131.13	130.55	
12	130.24	130.09	130.24	132.26	132.13	132.72	135.86	135.11	132.17	131.31	131.08	130.54	
13	130.24	130.09	130.24	132.15	132.20	132.87	135.87	135.19	131.97	131.31	131.02	130.54	
14	130.24	130.09	130.24	131.98	132.23	133.00	135.87	135.29	131.88	131.29	130.98	130.53	
15	130.23	130.09	130.22	131.81	132.25	133.24	135.86	135.39	131.82	131.26	130.94	130.52	
16	130.23	130.17	130.21	131.77	132.20	133.56	135.82	135.47	131.69	131.23	130.92	130.52	
17	130.23	130.20	130.20	131.73	132.31	133.74	135.80	135.49	131.59	131.22	130.88	130.52	
18	130.23	130.20	130.20	131.71	132.37	133.89	135.77	135.49	131.53	131.23	130.78	130.52	
19	130.23	130.20	130.21	131.83	132.29	134.00	135.74	135.44	131.50	131.22	130.76	130.53	
20	130.18	130.20	130.21	132.03	132.25	134.13	135.72	135.37	131.50	131.17	130.74	130.53	
21	130.17	130.20	130.21	132.02	132.25	134.18	135.70	135.29	131.54	131.10	130.77	130.52	
22	130.16	130.20	130.22	132.21	132.25	134.28	135.66	135.20	131.61	131.03	130.81	130.52	
23	130.15	130.20	130.22	132.25	132.23	134.44	135.65	135.09	131.63	130.96	130.81	130.52	
24	130.14	130.21	130.22	132.31	132.09	134.58	135.64	134.99	131.66	130.90	130.79	130.52	
25	130.13	130.23	130.22	132.14	132.03	134.77	135.62	134.85	131.69	130.88	130.77	130.52	
26	130.13	130.23	130.23	131.93	132.07	134.91	135.58	134.74	131.67	130.90	130.76	130.51	
27	130.12	130.23	130.30	131.96	132.00	134.97	135.54	134.61	131.61	130.93	130.73	130.51	
28	130.11	130.23	130.32	132.17	131.96	135.06	135.52	134.48	131.52	130.97	130.67	130.51	
29	130.10	130.23	130.37	132.25	131.87	135.13	135.50	134.34	131.46	130.99		130.50	
30	130.10	130.25	130.95	132.28	131.97	135.19	135.47	134.13	131.43	130.97		130.50	
31		130.25		132.30	132.16		135.43		131.39	130.95		130.50	
Mean	130.22	130.16	130.27	132.20	132.17	133.68	135.64	135.09	132.17	131.15	130.94	130.54	
Max	130.30	130.25	130.95	132.93	132.48	135.19	135.87	135.49	133.84	131.37	131.15	130.64	135.87
Min	130.10	130.09	130.20	131.42	131.87	132.43	135.30	134.13	131.39	130.88	130.67	130.50	130.09

Annual Max Momentary Gage Height 135.87 m. (MSL.) , at 06.00 Hours , on Oct 13 , 2016

Zero Gage at Bottom Elevation 129.80 m. (MSL.) , River Bed 126.25 m. (MSL.)

Left Bank Elevation 140.33 m. (MSL.) ,

Right Bank Elevation 140.31 m. (MSL.) , Drainage Are 24,841 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	20.60	46.80	59.50	404.00	431.00	164.00	19.10	8.60	1.80	
2	0.00	0.00	0.00	42.00	52.80	71.00	422.90	417.50	153.70	17.90	9.60	1.40	
3	0.00	0.00	0.00	69.20	61.50	87.40	442.60	404.00	151.00	16.40	10.00	1.00	
4	0.00	0.00	0.00	88.10	62.00	97.20	454.20	393.20	137.50	14.90	10.60	0.80	
5	0.00	0.00	0.00	88.10	58.50	100.80	467.60	377.00	131.20	14.30	11.00	0.75	
6	0.00	0.00	0.00	79.40	48.80	97.20	490.40	358.10	106.40	14.00	11.00	0.70	
7	0.00	0.00	0.00	73.40	44.00	95.80	514.80	343.40	74.00	14.30	11.60	0.60	
8	0.00	0.00	0.00	65.50	43.20	91.60	527.40	336.80	72.20	14.90	11.90	0.75	
9	0.00	0.00	0.00	59.50	44.00	78.80	555.00	330.20	71.00	15.20	12.50	0.75	
10	0.00	0.00	0.00	58.00	44.80	78.80	580.00	328.00	63.00	16.40	12.20	0.80	
11	0.00	0.00	0.00	56.00	45.60	78.80	618.00	332.40	58.00	17.00	11.90	0.75	
12	0.00	0.00	0.00	52.40	47.20	75.20	632.00	352.70	48.80	17.30	10.60	0.70	
13	0.00	0.00	0.00	48.00	50.00	84.20	639.00	374.30	40.80	17.30	9.40	0.70	
14	0.00	0.00	0.00	41.20	51.20	93.00	639.00	401.30	37.20	16.70	8.60	0.65	
15	0.00	0.00	0.00	34.40	52.00	111.20	632.00	428.30	34.80	15.80	7.80	0.60	
16	0.00	0.00	0.00	32.80	50.00	138.40	604.00	451.30	29.60	14.90	7.40	0.60	
17	0.00	0.00	0.00	31.20	54.40	154.60	590.00	457.10	25.70	14.60	6.60	0.60	
18	0.00	0.00	0.00	30.40	56.80	169.00	575.00	457.10	23.90	14.90	4.60	0.60	
19	0.00	0.00	0.00	35.20	53.60	180.00	560.00	442.60	23.00	14.60	4.20	0.65	
20	0.00	0.00	0.00	43.20	52.00	194.60	550.00	422.90	23.00	13.10	3.80	0.65	
21	0.00	0.00	0.00	42.80	52.00	200.60	540.00	401.30	24.20	11.00	4.40	0.60	
22	0.00	0.00	0.00	50.40	52.00	212.60	523.20	377.00	26.40	9.60	5.20	0.60	
23	0.00	0.00	0.00	52.00	51.20	233.20	519.00	347.80	27.20	8.20	5.20	0.60	
24	0.00	0.00	0.00	54.40	45.60	252.20	514.80	326.10	28.40	7.00	4.80	0.60	
25	0.00	0.00	0.00	47.60	43.20	284.30	506.40	299.50	29.60	6.60	4.40	0.60	
26	0.00	0.00	0.00	39.20	44.80	310.90	490.40	278.60	28.80	7.00	4.20	0.55	
27	0.00	0.00	0.00	40.40	42.00	322.30	475.20	256.60	26.40	7.60	3.60	0.55	
28	0.00	0.00	0.00	48.80	40.40	341.20	467.60	238.40	23.60	8.40	2.40	0.55	
29	0.00	0.00	0.00	52.00	36.80	358.10	460.00	220.20	21.80	8.80		0.50	
30	0.00	0.00	8.00	53.20	40.80	374.30	451.30	194.60	20.90	8.40		0.50	
31		0.00		54.00	48.40		439.70		19.70	8.00		0.50	
Total			8.00	1583.40	1516.40	5026.80	16285.50	10779.30	1745.80	404.20	218.10	22.00	37589.50 CMSDAY
Mean	0.00	0.00	0.27	51.08	48.92	167.56	525.34	359.31	56.32	13.04	7.79	0.71	102.98 CMS
Max	0.00	0.00	8.00	88.10	62.00	374.30	639.00	457.10	164.00	19.10	12.50	1.80	639.00 CMS
Min	0.00	0.00	0.00	20.60	36.80	59.50	404.00	194.60	19.70	6.60	2.40	0.50	0.00 CMS
Runoff			0.69	136.81	131.02	434.32	1407.07	931.33	150.84	34.92	18.84	1.90	3247.73 MCM

Momentary Peak 639.00 CMS. at 135.87 m. (MSL.) at 06.00 Hours , on Oct 13, 2016

Runoff Yield 4.15 Liters/Second/Square KM. Momentary Peak Yield 25.720 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Na Hai **Amphoe** Trakan Phutphon **Changwat** Ubon Ratchathani

Drainge Area	424 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+115.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank downstream side at the abutment of the bridge. **Elevation** +126.877 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situsted about 300 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

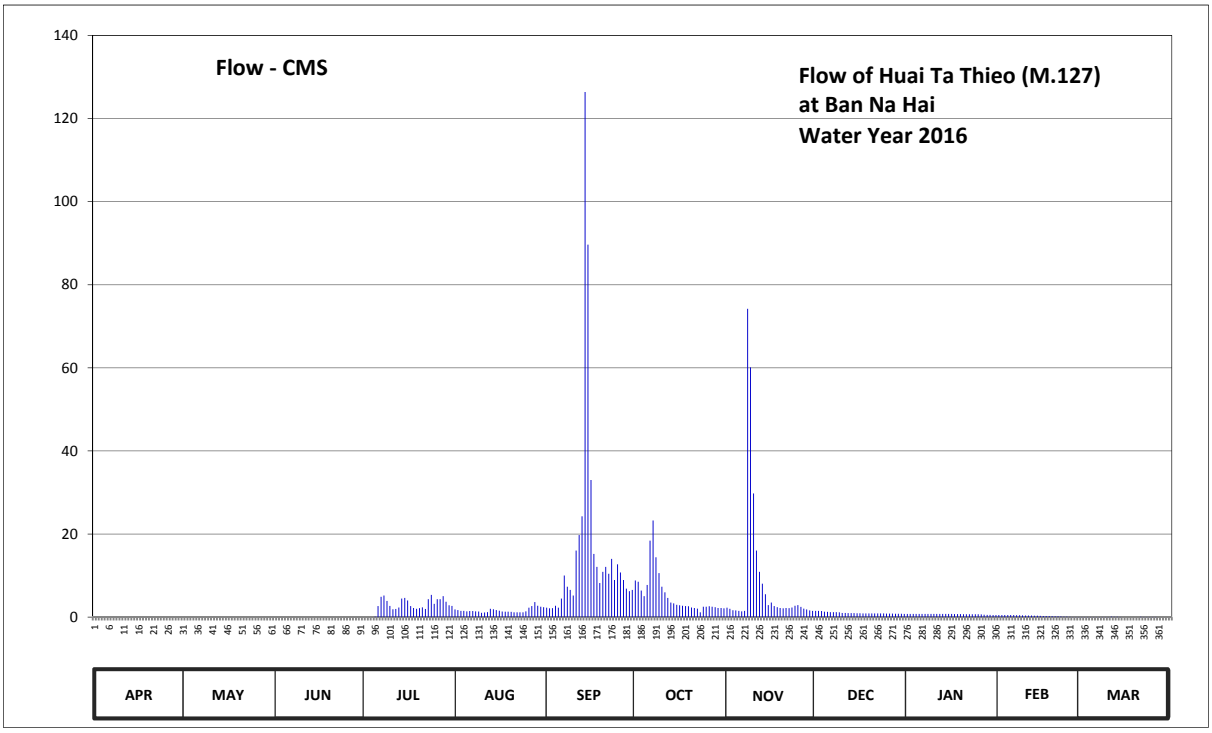
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.00	115.87	115.85	115.94	116.77	116.85	117.42	116.85	116.70	116.51	116.40	116.21	
2	116.00	115.87	115.85	115.94	116.74	116.82	117.40	116.80	116.70	116.51	116.40	116.21	
3	116.00	115.88	115.84	115.98	116.70	116.83	117.26	116.73	116.69	116.51	116.40	116.21	
4	115.99	115.88	115.84	115.98	116.70	116.95	117.17	116.72	116.66	116.51	116.40	116.21	
5	115.98	115.88	115.84	116.24	116.68	116.85	117.35	116.70	116.65	116.51	116.40	116.21	
6	115.98	115.88	115.84	116.93	116.69	117.13	117.97	116.68	116.64	116.51	116.39	116.21	
7	115.97	115.88	115.84	117.16	116.69	117.50	118.17	116.70	116.64	116.51	116.38	116.21	
8	115.97	115.87	115.84	117.18	116.68	117.32	117.77	119.94	116.64	116.51	116.38	116.21	
9	115.96	115.87	115.83	117.09	116.67	117.27	117.54	119.47	116.63	116.51	116.37	116.21	
10	115.96	115.86	115.83	116.94	116.61	117.18	117.32	118.43	116.60	116.50	116.36	116.22	
11	115.95	115.86	115.83	116.78	116.62	117.85	117.23	117.85	116.59	116.50	116.35	116.24	
12	115.95	115.85	115.83	116.79	116.64	118.03	117.14	117.56	116.58	116.50	116.35	116.23	
13	115.94	115.84	115.83	116.86	116.80	118.21	117.05	117.37	116.58	116.50	116.34	116.23	
14	115.93	115.84	115.83	117.13	116.78	121.32	117.03	117.20	116.58	116.50	116.34	116.22	
15	115.93	115.84	115.82	117.14	116.74	120.39	116.99	116.98	116.57	116.50	116.32	116.20	
16	115.92	115.86	115.82	117.10	116.71	118.56	116.97	117.05	116.57	116.50	116.30	116.19	
17	115.92	115.86	115.82	116.93	116.67	117.81	116.95	116.93	116.56	116.49	116.30	116.17	
18	115.91	115.86	115.82	116.84	116.66	117.64	116.93	116.88	116.56	116.49	116.29	116.16	
19	115.90	115.86	115.82	116.80	116.66	117.38	116.92	116.84	116.56	116.49	116.29	116.15	
20	115.89	115.86	115.82	116.83	116.65	117.56	116.86	116.82	116.56	116.48	116.28	116.15	
21	115.94	115.86	115.82	116.87	116.63	117.64	116.84	116.84	116.56	116.48	116.27	116.23	
22	115.93	115.86	115.82	116.79	116.63	117.53	116.81	116.83	116.56	116.48	116.26	116.22	
23	115.93	115.85	115.82	117.12	116.63	117.75	116.63	116.86	116.55	116.48	116.25	116.22	
24	115.93	115.85	115.83	117.19	116.63	117.43	116.90	116.95	116.55	116.48	116.24	116.21	
25	115.92	115.85	115.83	117.02	116.68	117.68	116.90	116.98	116.54	116.47	116.23	116.21	
26	115.92	115.85	115.84	117.12	116.85	117.55	116.92	116.89	116.53	116.46	116.22	116.21	
27	115.92	115.85	115.84	117.12	116.93	117.43	116.90	116.81	116.53	116.43	116.22	116.20	
28	115.90	115.85	115.86	117.17	117.06	117.29	116.88	116.77	116.52	116.42	116.21	116.20	
29	115.89	115.85	115.89	117.07	116.95	117.25	116.84	116.72	116.52	116.41		116.20	
30	115.87	115.85	115.90	116.97	116.90	117.27	116.84	116.70	116.52	116.40		116.20	
31		115.85		116.94	116.88		116.82		116.51	116.40		116.20	
Mean	115.94	115.86	115.84	116.84	116.73	117.68	117.12	117.16	116.59	116.48	116.32	116.20	
Max	116.00	115.88	115.90	117.19	117.06	121.32	118.17	119.94	116.70	116.51	116.40	116.24	121.32
Min	115.87	115.84	115.82	115.94	116.61	116.82	116.63	116.68	116.51	116.40	116.21	116.15	115.82

Annual Max Momentary Gage Height 121.65 m. (MSL.) , at 12.00 Hours , on Sep 14, 2016

Zero Gage at Bottom Elevation 115.30 m. (MSL.) , River Bed 114.03 m. (MSL.)

Left Bank Elevation 126.62 m. (MSL.) ,

Right Bank Elevation 126.62 m. (MSL.) , Drainage Are 424 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	1.85	2.25	8.80	2.25	1.50	0.78	0.50	0.03	
2	0.00	0.00	0.00	0.00	1.70	2.10	8.50	2.00	1.50	0.78	0.50	0.03	
3	0.00	0.00	0.00	0.00	1.50	2.15	6.40	1.65	1.45	0.78	0.50	0.03	
4	0.00	0.00	0.00	0.00	1.50	2.75	5.05	1.60	1.30	0.78	0.50	0.03	
5	0.00	0.00	0.00	0.10	1.40	2.25	7.75	1.50	1.25	0.78	0.50	0.03	
6	0.00	0.00	0.00	2.65	1.45	4.45	18.40	1.40	1.20	0.78	0.48	0.03	
7	0.00	0.00	0.00	4.90	1.45	10.00	23.25	1.50	1.20	0.78	0.45	0.03	
8	0.00	0.00	0.00	5.20	1.40	7.30	14.40	74.20	1.20	0.78	0.45	0.03	
9	0.00	0.00	0.00	3.90	1.35	6.55	10.60	60.10	1.15	0.78	0.43	0.03	
10	0.00	0.00	0.00	2.70	1.05	5.20	7.30	29.75	1.00	0.75	0.40	0.05	
11	0.00	0.00	0.00	1.90	1.10	16.00	5.95	16.00	0.98	0.75	0.38	0.10	
12	0.00	0.00	0.00	1.95	1.20	19.75	4.60	10.90	0.95	0.75	0.38	0.08	
13	0.00	0.00	0.00	2.30	2.00	24.25	3.50	8.05	0.95	0.75	0.35	0.08	
14	0.00	0.00	0.00	4.45	1.90	126.40	3.30	5.50	0.95	0.75	0.35	0.05	
15	0.00	0.00	0.00	4.60	1.70	89.65	2.95	2.90	0.93	0.75	0.30	0.00	
16	0.00	0.00	0.00	4.00	1.55	33.00	2.85	3.50	0.93	0.75	0.25	0.00	
17	0.00	0.00	0.00	2.65	1.35	15.20	2.75	2.65	0.90	0.73	0.25	0.00	
18	0.00	0.00	0.00	2.20	1.30	12.10	2.65	2.40	0.90	0.73	0.23	0.00	
19	0.00	0.00	0.00	2.00	1.30	8.20	2.60	2.20	0.90	0.73	0.23	0.00	
20	0.00	0.00	0.00	2.15	1.25	10.90	2.30	2.10	0.90	0.70	0.20	0.00	
21	0.00	0.00	0.00	2.35	1.15	12.10	2.20	2.20	0.90	0.70	0.18	0.08	
22	0.00	0.00	0.00	1.95	1.15	10.45	2.05	2.15	0.90	0.70	0.15	0.05	
23	0.00	0.00	0.00	4.30	1.15	14.00	1.15	2.30	0.88	0.70	0.13	0.05	
24	0.00	0.00	0.00	5.35	1.15	8.95	2.50	2.75	0.88	0.70	0.10	0.03	
25	0.00	0.00	0.00	3.20	1.40	12.70	2.50	2.90	0.85	0.68	0.08	0.03	
26	0.00	0.00	0.00	4.30	2.25	10.75	2.60	2.45	0.83	0.65	0.05	0.03	
27	0.00	0.00	0.00	4.30	2.65	8.95	2.50	2.05	0.83	0.58	0.05	0.00	
28	0.00	0.00	0.00	5.05	3.60	6.85	2.40	1.85	0.80	0.55	0.03	0.00	
29	0.00	0.00	0.00	3.70	2.75	6.25	2.20	1.60	0.80	0.53		0.00	
30	0.00	0.00	0.00	2.85	2.50	6.55	2.20	1.50	0.80	0.50		0.00	
31		0.00		2.70	2.40		2.10		0.78	0.50		0.00	
Total	0.00	0.00	0.00	87.70	51.45	498.00	168.30	253.90	31.29	21.95	8.40	0.90	1121.89	CMSDAY
Mean	0.00	0.00	0.00	2.83	1.66	16.60	5.43	8.46	1.01	0.71	0.30	0.03	3.07	CMS
Max	0.00	0.00	0.00	5.35	3.60	126.40	23.25	74.20	1.50	0.78	0.50	0.10	126.40	CMS
Min	0.00	0.00	0.00	0.00	1.05	2.10	1.15	1.40	0.78	0.50	0.03	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	7.58	4.45	43.03	14.54	21.94	2.70	1.90	0.73	0.08	96.93	MCM

Momentary Peak 141.25 CMS, at 121.65 m. (MSL.) , at 12.00 Hours , on Sep 14, 2016

Runoff Yield 7.25 Liters/Second/Square KM. Momentary Peak Yield 333.140 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)

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

Location : on right bank at Ban Wang Takian Thong.

Ban Wang Takian Thong **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	335 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+383.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 12 meters from the top staff gage. **Elevation** +390.970 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Flot	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 38 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

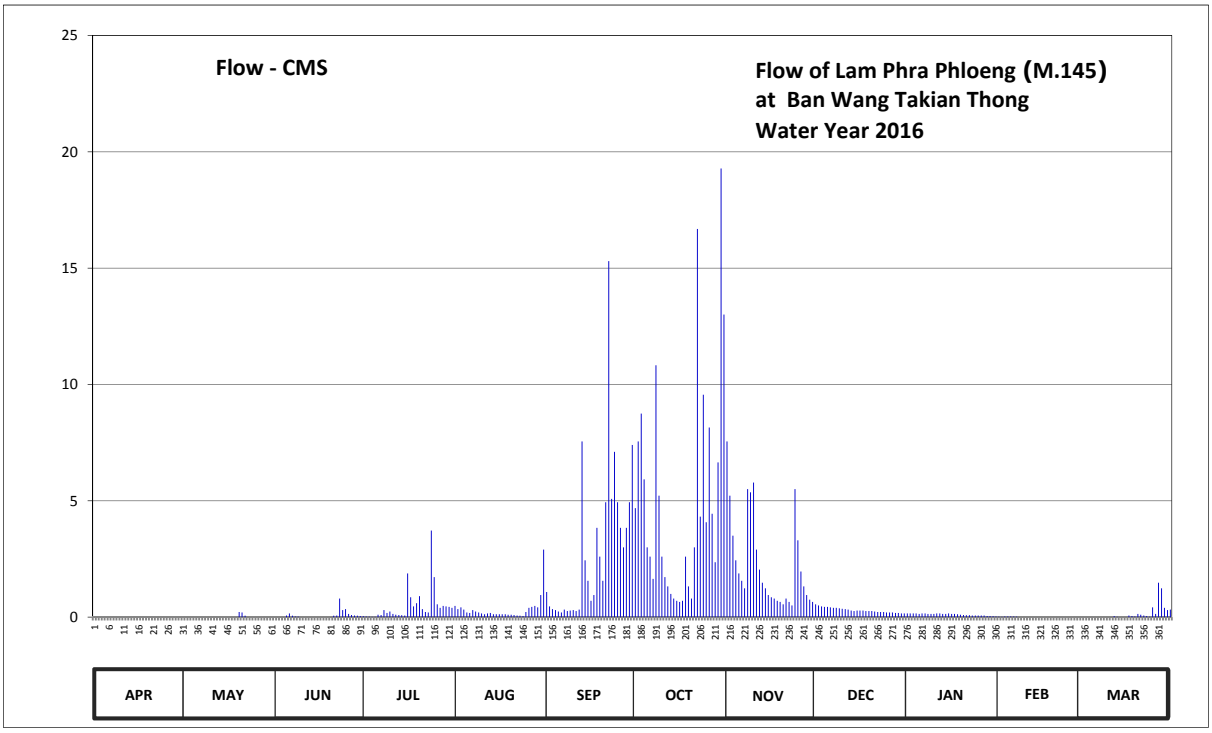
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	385.75	385.46	385.98	386.14	386.39	386.51	386.89	387.09	386.41	386.23	386.12	386.07	
2	385.75	385.45	385.98	386.13	386.32	386.38	387.09	386.93	386.40	386.23	386.11	386.06	
3	385.75	385.44	385.98	386.12	386.36	386.32	387.17	386.79	386.38	386.23	386.13	386.06	
4	385.74	385.43	385.98	386.11	386.31	386.30	386.98	386.68	386.37	386.23	386.13	386.05	
5	385.73	385.42	386.17	386.11	386.25	386.27	386.74	386.61	386.37	386.22	386.13	386.05	
6	385.72	385.41	386.23	386.20	386.24	386.25	386.70	386.57	386.36	386.23	386.13	386.03	
7	385.71	385.40	386.16	386.19	386.30	386.31	386.58	386.53	386.35	386.23	386.12	386.03	
8	385.70	385.39	386.13	386.30	386.27	386.28	387.29	386.95	386.35	386.22	386.10	386.02	
9	385.69	385.38	386.12	386.24	386.25	386.29	386.93	386.94	386.34	386.22	386.09	386.01	
10	385.67	385.37	386.08	386.27	386.23	386.30	386.70	386.97	386.33	386.22	386.08	386.01	
11	385.66	385.36	386.05	386.22	386.21	386.28	386.59	386.73	386.32	386.23	386.07	386.10	
12	385.65	385.35	386.04	386.20	386.23	386.31	386.54	386.63	386.31	386.23	386.06	386.14	
13	385.63	385.34	386.03	386.19	386.24	387.09	386.50	386.56	386.29	386.22	386.05	386.11	
14	385.62	385.34	386.02	386.18	386.21	386.68	386.46	386.53	386.28	386.22	386.04	386.08	
15	385.61	385.33	386.01	386.17	386.21	386.57	386.44	386.49	386.29	386.23	386.03	386.07	
16	385.60	385.34	386.01	386.61	386.21	386.44	386.43	386.47	386.29	386.22	386.03	386.07	
17	385.58	385.33	386.00	386.47	386.21	386.49	386.44	386.46	386.29	386.22	386.03	386.17	
18	385.57	385.33	385.99	386.38	386.21	386.82	386.70	386.44	386.28	386.21	386.03	386.15	
19	385.56	385.48	385.98	386.42	386.20	386.70	386.54	386.43	386.28	386.20	386.02	386.13	
20	385.55	386.26	385.97	386.48	386.20	386.57	386.46	386.41	386.28	386.19	386.02	386.22	
21	385.55	386.25	386.16	386.32	386.19	386.91	386.74	386.46	386.27	386.18	386.02	386.20	
22	385.54	386.16	386.17	386.26	386.17	387.50	387.56	386.43	386.26	386.18	386.01	386.17	
23	385.54	386.10	386.46	386.25	386.16	386.92	386.86	386.40	386.26	386.17	386.01	386.15	
24	385.53	386.07	386.30	386.81	386.15	387.06	387.22	386.95	386.26	386.17	386.03	386.12	
25	385.52	386.05	386.32	386.59	386.26	386.91	386.84	386.77	386.25	386.17	386.07	386.36	
26	385.51	386.03	386.22	386.41	386.35	386.82	387.13	386.62	386.25	386.17	386.03	386.22	
27	385.50	386.02	386.19	386.35	386.37	386.74	386.87	386.54	386.25	386.17	386.09	386.56	
28	385.49	386.01	386.17	386.39	386.39	386.82	386.67	386.49	386.24	386.15	386.08	386.53	
29	385.48	385.99	386.16	386.38	386.36	386.91	387.03	386.45	386.24	386.15		386.35	
30	385.47	385.99	386.15	386.37	386.49	387.08	387.67	386.43	386.23	386.14		386.30	
31		385.98		386.35	386.73		387.40		386.23	386.13		386.31	
Mean	385.61	385.65	386.11	386.31	386.28	386.63	386.84	386.63	386.30	386.20	386.07	386.16	
Max	385.75	386.26	386.46	386.81	386.73	387.50	387.67	387.09	386.41	386.23	386.13	386.56	387.67
Min	385.47	385.33	385.97	386.11	386.15	386.25	386.43	386.40	386.23	386.13	386.01	386.01	385.33

Annual Max Momentary Gage Height 387.73 m. (MSL.) , at 06.00 Hours , on Oct 30, 2016

Zero Gage at Bottom Elevation 383.00 m. (MSL.) , River Bed 385.65 m. (MSL.)

Left Bank Elevation 391.21 m. (MSL.) ,

Right Bank Elevation 390.97 m. (MSL.) , Drainage Are 335 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.04	0.48	1.08	4.68	7.55	0.55	0.16	0.02	0.00		
2	0.00	0.00	0.00	0.03	0.34	0.46	7.55	5.22	0.50	0.16	0.01	0.00		
3	0.00	0.00	0.00	0.02	0.42	0.34	8.75	3.50	0.46	0.16	0.03	0.00		
4	0.00	0.00	0.00	0.01	0.32	0.30	5.92	2.44	0.44	0.16	0.03	0.00		
5	0.00	0.00	0.07	0.01	0.20	0.24	3.00	1.88	0.44	0.14	0.03	0.00		
6	0.00	0.00	0.16	0.10	0.18	0.20	2.60	1.56	0.42	0.16	0.03	0.00		
7	0.00	0.00	0.06	0.09	0.30	0.32	1.64	1.24	0.40	0.16	0.02	0.00		
8	0.00	0.00	0.03	0.30	0.24	0.26	10.82	5.50	0.40	0.14	0.00	0.00		
9	0.00	0.00	0.02	0.18	0.20	0.28	5.22	5.36	0.38	0.14	0.00	0.00		
10	0.00	0.00	0.00	0.24	0.16	0.30	2.60	5.78	0.36	0.14	0.00	0.00		
11	0.00	0.00	0.00	0.14	0.12	0.26	1.72	2.90	0.34	0.16	0.00	0.00		
12	0.00	0.00	0.00	0.10	0.16	0.32	1.32	2.04	0.32	0.16	0.00	0.04		
13	0.00	0.00	0.00	0.09	0.18	7.55	1.00	1.48	0.28	0.14	0.00	0.01		
14	0.00	0.00	0.00	0.08	0.12	2.44	0.80	1.24	0.26	0.14	0.00	0.00		
15	0.00	0.00	0.00	0.07	0.12	1.56	0.70	0.95	0.28	0.16	0.00	0.00		
16	0.00	0.00	0.00	1.88	0.12	0.70	0.65	0.85	0.28	0.14	0.00	0.00		
17	0.00	0.00	0.00	0.85	0.12	0.95	0.70	0.80	0.28	0.14	0.00	0.07		
18	0.00	0.00	0.00	0.46	0.12	3.84	2.60	0.70	0.26	0.12	0.00	0.05		
19	0.00	0.00	0.00	0.60	0.10	2.60	1.32	0.65	0.26	0.10	0.00	0.03		
20	0.00	0.22	0.00	0.90	0.10	1.56	0.80	0.55	0.26	0.09	0.00	0.14		
21	0.00	0.20	0.06	0.34	0.09	4.94	3.00	0.80	0.24	0.08	0.00	0.10		
22	0.00	0.06	0.07	0.22	0.07	15.30	16.68	0.65	0.22	0.08	0.00	0.07		
23	0.00	0.00	0.80	0.20	0.06	5.08	4.32	0.50	0.22	0.07	0.00	0.05		
24	0.00	0.00	0.30	3.72	0.05	7.10	9.56	5.50	0.22	0.07	0.00	0.02		
25	0.00	0.00	0.34	1.72	0.22	4.94	4.08	3.30	0.20	0.07	0.00	0.42		
26	0.00	0.00	0.14	0.55	0.40	3.84	8.15	1.96	0.20	0.07	0.00	0.14		
27	0.00	0.00	0.09	0.40	0.44	3.00	4.44	1.32	0.20	0.07	0.00	1.48		
28	0.00	0.00	0.07	0.48	0.48	3.84	2.36	0.95	0.18	0.05	0.00	1.24		
29	0.00	0.00	0.06	0.46	0.42	4.94	6.65	0.75	0.18	0.05		0.40		
30	0.00	0.00	0.05	0.44	0.95	7.40	19.28	0.65	0.16	0.04		0.30		
31		0.00		0.40	2.90		13.00		0.16	0.03		0.32		
Total	0.00	0.48	2.32	15.12	10.18	85.94	155.91	68.57	9.35	3.55	0.17	4.88	356.47	CMSDAY
Mean	0.00	0.02	0.08	0.49	0.33	2.86	5.03	2.29	0.30	0.11	0.01	0.16	0.98	CMS
Max	0.00	0.22	0.80	3.72	2.90	15.30	19.28	7.55	0.55	0.16	0.03	1.48	19.28	CMS
Min	0.00	0.00	0.00	0.01	0.05	0.20	0.65	0.50	0.16	0.03	0.00	0.00	0.00	CMS
Runoff	0.00	0.04	0.20	1.31	0.88	7.43	13.47	5.92	0.81	0.31	0.01	0.42	30.80	MCM

Momentary Peak 20.78 CMS, at 387.73 m. (MSL.) , at 06.00 Hours , on Oct 30 , 2016

Runoff Yield 2.92 Liters/Second/Square KM. Momentary Peak Yield 62.030 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at Ban Lum Din.

	Ban Lum Din	**Amphoe** Chom Phra	**Changwat** Surin
Drainge Area	4,806 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+120.900 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at staff gage line.	**Elevation**	+131.079 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

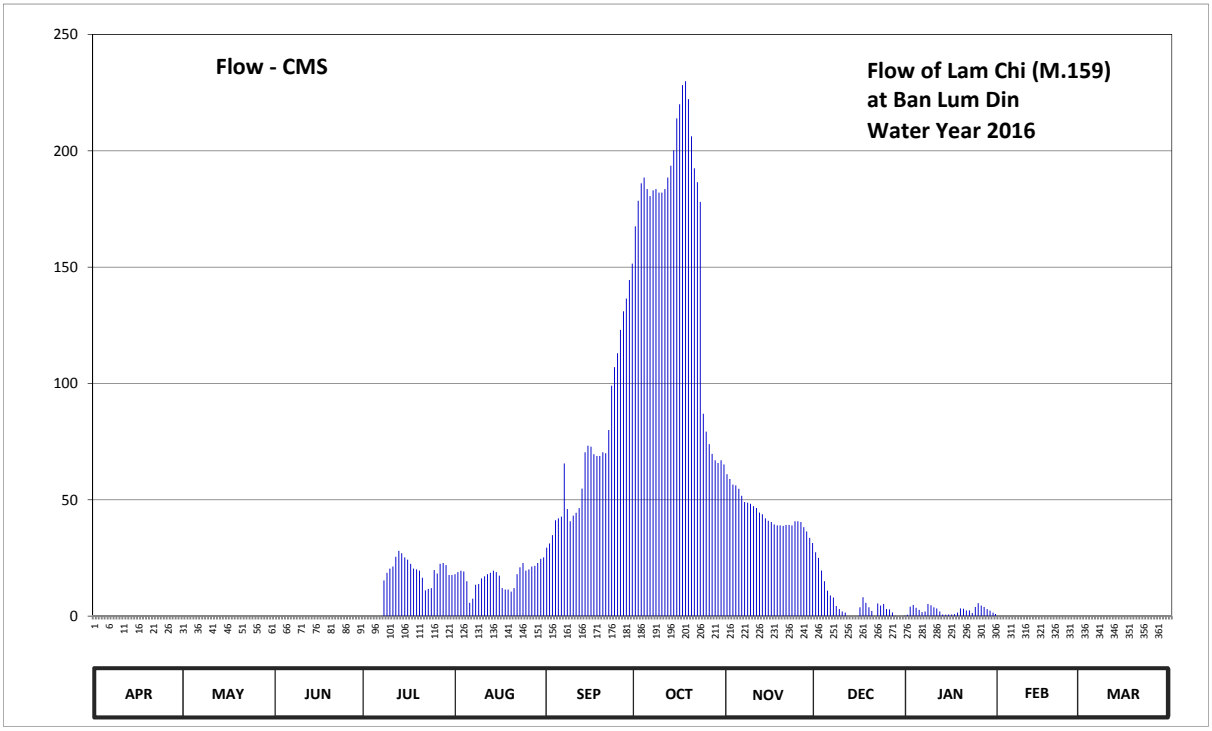
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.87	122.42	122.42	122.14	123.40	123.77	126.79	125.90	124.47	122.86	122.87	122.86	
2	122.87	122.44	122.40	122.14	123.43	123.82	127.01	125.83	124.35	123.17	122.87	122.86	
3	122.87	122.44	122.40	122.15	123.45	123.92	127.16	125.75	124.08	123.22	122.87	122.87	
4	122.86	122.45	122.40	122.19	123.44	124.08	127.21	125.74	123.85	123.14	122.86	122.89	
5	122.86	122.45	122.40	122.20	123.30	124.10	127.11	125.69	123.63	123.07	122.88	122.88	
6	122.86	122.45	122.34	122.20	122.99	124.12	127.05	125.59	123.49	122.97	122.88	122.86	
7	122.80	122.45	122.31	122.22	123.05	124.69	127.10	125.50	123.43	123.00	122.90	122.86	
8	122.80	122.42	122.30	123.31	123.25	124.20	127.11	125.49	123.19	123.25	122.90	122.89	
9	122.76	122.42	122.30	123.42	123.26	124.07	127.08	125.47	123.10	123.21	122.85	122.90	
10	122.70	122.40	122.28	123.48	123.34	124.13	127.08	125.43	123.00	123.15	122.75	122.91	
11	122.66	122.39	122.28	123.51	123.37	124.16	127.11	125.40	122.95	123.12	122.73	122.92	
12	122.65	122.39	122.27	123.65	123.40	124.21	127.21	125.32	122.43	123.00	122.75	122.91	
13	122.63	122.38	122.26	123.73	123.42	124.42	127.31	125.29	122.29	122.87	122.76	122.93	
14	122.63	122.39	122.24	123.70	123.45	124.81	127.43	125.20	122.23	122.86	122.76	122.94	
15	122.62	122.39	122.24	123.64	123.43	124.88	127.68	125.15	122.67	122.87	122.76	122.95	
16	122.62	122.40	122.25	123.61	123.38	124.87	127.79	125.12	123.15	122.87	122.76	122.95	
17	122.55	122.45	122.25	123.55	123.20	124.79	127.94	125.07	123.44	122.88	122.76	122.95	
18	122.55	122.46	122.22	123.48	123.18	124.77	127.97	125.05	123.28	122.95	122.75	122.96	
19	122.54	122.48	122.22	123.47	123.18	124.77	127.83	125.05	123.15	123.12	122.75	122.95	
20	122.50	122.45	122.22	123.45	123.15	124.81	127.54	125.04	123.02	123.11	122.77	122.97	
21	122.50	122.45	122.22	123.35	123.20	124.80	127.29	125.06	122.73	123.04	122.76	122.98	
22	122.48	122.45	122.17	123.17	123.40	125.04	127.17	125.06	123.26	123.05	122.75	122.97	
23	122.47	122.45	122.17	123.19	123.50	125.42	127.00	125.05	123.20	122.94	122.74	122.97	
24	122.46	122.43	122.15	123.20	123.56	125.58	126.70	125.14	123.25	123.16	122.76	122.98	
25	122.46	122.43	121.96	123.46	123.45	125.70	126.51	125.14	123.10	123.27	122.78	122.98	
26	122.44	122.42	121.96	123.41	123.47	125.90	126.33	125.12	123.09	123.20	122.82	122.98	
27	122.43	122.43	121.94	123.55	123.51	126.06	126.19	125.01	122.96	123.16	122.85	122.99	
28	122.43	122.43	121.94	123.56	123.52	126.17	126.10	124.92	122.81	123.10	122.86	122.99	
29	122.43	122.44	122.05	123.53	123.56	126.33	126.06	124.78	122.78	123.03		123.00	
30	122.42	122.44	122.04	123.39	123.62	126.47	126.10	124.67	122.79	122.95		122.97	
31		122.43		123.39	123.64		126.04		122.82	122.88		122.92	
Mean	122.62	122.43	122.22	123.18	123.37	124.83	127.03	125.27	123.16	123.05	122.80	122.93	
Max	122.87	122.48	122.42	123.73	123.64	126.47	127.97	125.90	124.47	123.27	122.90	123.00	127.97
Min	122.42	122.38	121.94	122.14	122.99	123.77	126.04	124.67	122.23	122.86	122.73	122.86	121.94

Annual Max Momentary Gage Height 127.98 m. (MSL.) , at 06.00 Hours, on Oct 18, 2016

Zero Gage at Bottom Elevation 120.90 m. (MSL.) , River Bed 121.03 m. (MSL.)

Left Bank Elevation 132.19 m. (MSL.) ,

Right Bank Elevation 132.27 m. (MSL.) , Drainage Are 4,806 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	18.00	29.45	167.50	61.00	27.40	0.60	0.00	0.00		
2	0.00	0.00	0.00	0.00	18.90	31.20	178.50	58.90	25.00	4.05	0.00	0.00		
3	0.00	0.00	0.00	0.00	19.50	34.80	186.00	56.50	19.60	4.80	0.00	0.00		
4	0.00	0.00	0.00	0.00	19.20	41.20	188.50	56.20	15.00	3.60	0.00	0.00		
5	0.00	0.00	0.00	0.00	15.00	42.00	183.50	54.70	10.95	2.70	0.00	0.00		
6	0.00	0.00	0.00	0.00	5.70	42.80	180.50	51.70	8.85	1.70	0.00	0.00		
7	0.00	0.00	0.00	0.00	7.50	65.60	183.00	49.00	7.95	2.00	0.00	0.00		
8	0.00	0.00	0.00	15.30	13.50	46.00	183.50	48.75	4.35	5.25	0.00	0.00		
9	0.00	0.00	0.00	18.60	13.80	40.80	182.00	48.25	3.00	4.65	0.00	0.00		
10	0.00	0.00	0.00	20.40	16.20	43.20	182.00	47.25	2.00	3.75	0.00	0.00		
11	0.00	0.00	0.00	21.30	17.10	44.40	183.50	46.50	1.50	3.30	0.00	0.00		
12	0.00	0.00	0.00	25.50	18.00	46.40	188.50	44.50	0.00	2.00	0.00	0.00		
13	0.00	0.00	0.00	28.05	18.60	54.80	193.55	43.80	0.00	0.70	0.00	0.00		
14	0.00	0.00	0.00	27.00	19.50	70.40	200.15	42.00	0.00	0.60	0.00	0.00		
15	0.00	0.00	0.00	25.20	18.90	73.20	213.90	41.00	0.00	0.70	0.00	0.00		
16	0.00	0.00	0.00	24.30	17.40	72.80	219.95	40.40	3.75	0.70	0.00	0.00		
17	0.00	0.00	0.00	22.50	12.00	69.60	228.20	39.40	8.10	0.80	0.00	0.00		
18	0.00	0.00	0.00	20.40	11.40	68.80	229.85	39.00	5.70	1.50	0.00	0.00		
19	0.00	0.00	0.00	20.10	11.40	68.80	222.15	39.00	3.75	3.30	0.00	0.00		
20	0.00	0.00	0.00	19.50	10.50	70.40	206.20	38.80	2.20	3.15	0.00	0.00		
21	0.00	0.00	0.00	16.50	12.00	70.00	192.50	39.20	0.00	2.40	0.00	0.00		
22	0.00	0.00	0.00	11.10	18.00	80.00	186.50	39.20	5.40	2.50	0.00	0.00		
23	0.00	0.00	0.00	11.70	21.00	99.00	178.00	39.00	4.50	1.40	0.00	0.00		
24	0.00	0.00	0.00	12.00	22.80	107.00	87.00	40.80	5.25	3.90	0.00	0.00		
25	0.00	0.00	0.00	19.80	19.50	113.00	79.30	40.80	3.00	5.55	0.00	0.00		
26	0.00	0.00	0.00	18.30	20.10	123.00	73.90	40.40	2.90	4.50	0.00	0.00		
27	0.00	0.00	0.00	22.50	21.30	131.00	69.70	38.20	1.60	3.90	0.00	0.00		
28	0.00	0.00	0.00	22.80	21.60	136.50	67.00	36.40	0.10	3.00	0.00	0.00		
29	0.00	0.00	0.00	21.90	22.80	144.50	65.80	33.60	0.00	2.30		0.00		
30	0.00	0.00	0.00	17.70	24.60	151.50	67.00	31.40	0.00	1.50		0.00		
31		0.00		17.70	25.20		65.20		0.20	0.80		0.00		
Total	0.00	0.00	0.00	480.15	531.00	2212.15	5032.85	1325.65	172.05	81.60	0.00	0.00	9835.45	CMSDAY
Mean	0.00	0.00	0.00	15.49	17.13	73.74	162.35	44.19	5.55	2.63	0.00	0.00	26.95	CMS
Max	0.00	0.00	0.00	28.05	25.20	151.50	229.85	61.00	27.40	5.55	0.00	0.00	229.85	CMS
Min	0.00	0.00	0.00	0.00	5.70	29.45	65.20	31.40	0.00	0.60	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	41.48	45.88	191.13	434.84	114.54	14.87	7.05	0.00	0.00	849.78	MCM

Momentary Peak 230.40 CMS, at 127.98 m. (MSL.), at 06.00 Hours, on Oct 18, 2016

Runoff Yield 5.61 Liters/Second/Square KM. Momentary Peak Yield 47.940 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Ta Khong at Ban Send Mari, Nakhon Ratchasima (M.164)

Lat 14 - 58 - 57 N Long 102 - 05 - 52 E

Location : on right bank at the bridge on highway.

Ban Send Mari **Amphoe** Mueang **Changwat** Nakhon Ratchasima

Drainge Area	3,012 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+174.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at staff gage line. **Elevation** +179.529 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

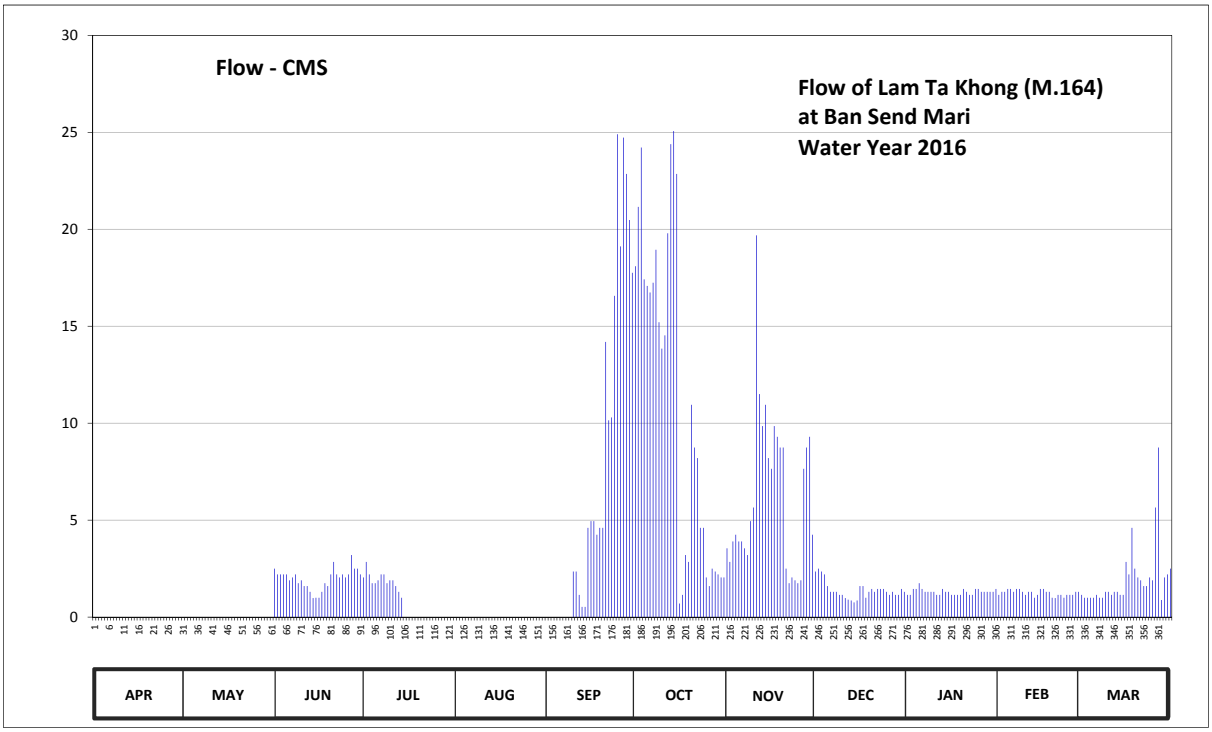
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.19	176.54	176.60	176.57	176.58	176.60	176.60	176.62	176.59	176.51	176.51	176.51	
2	176.18	176.53	176.58	176.61	176.57	176.59	176.78	176.61	176.60	176.51	176.52	176.50	
3	176.16	176.54	176.58	176.58	176.61	176.57	176.96	176.64	176.59	176.53	176.52	176.50	
4	176.15	176.55	176.58	176.55	176.59	176.58	176.56	176.65	176.58	176.53	176.53	176.50	
5	176.16	176.54	176.58	176.55	176.58	176.56	176.54	176.64	176.54	176.55	176.53	176.50	
6	176.23	176.54	176.56	176.56	176.61	176.56	176.52	176.64	176.52	176.53	176.52	176.51	
7	176.30	176.54	176.57	176.58	176.59	176.56	176.55	176.63	176.52	176.52	176.53	176.50	
8	176.35	176.53	176.58	176.58	176.57	176.63	176.65	176.62	176.52	176.52	176.53	176.50	
9	176.39	176.52	176.55	176.55	176.57	176.69	176.43	176.67	176.51	176.52	176.52	176.52	
10	176.41	176.52	176.56	176.56	176.57	176.59	176.35	176.69	176.51	176.52	176.51	176.52	
11	176.43	176.55	176.54	176.56	176.56	176.59	176.39	176.87	176.49	176.51	176.52	176.51	
12	176.48	176.58	176.54	176.54	176.55	176.51	176.70	176.80	176.45	176.51	176.52	176.52	
13	176.51	176.57	176.52	176.52	176.55	176.23	176.97	176.77	176.43	176.53	176.50	176.52	
14	176.51	176.58	176.49	176.50	176.55	176.23	177.01	176.79	176.38	176.52	176.51	176.51	
15	176.51	176.55	176.50	176.53	176.52	176.66	176.88	176.74	176.43	176.52	176.53	176.51	
16	176.52	176.54	176.50	176.54	176.53	176.67	176.35	176.73	176.54	176.51	176.53	176.61	
17	176.52	176.55	176.52	176.59	176.51	176.67	176.51	176.77	176.54	176.51	176.52	176.58	
18	176.52	176.56	176.55	176.60	176.52	176.65	176.62	176.76	176.50	176.51	176.52	176.66	
19	176.51	176.54	176.54	176.62	176.52	176.66	176.61	176.75	176.52	176.51	176.50	176.60	
20	176.53	176.55	176.58	176.64	176.52	176.66	176.79	176.75	176.53	176.53	176.49	176.57	
21	176.55	176.57	176.61	176.63	176.49	176.37	176.75	176.60	176.52	176.52	176.51	176.56	
22	176.52	176.58	176.58	176.59	176.49	176.11	176.74	176.55	176.53	176.51	176.51	176.54	
23	176.51	176.58	176.57	176.56	176.49	176.12	176.65	176.57	176.53	176.51	176.50	176.54	
24	176.51	176.57	176.58	176.55	176.53	176.51	176.66	176.56	176.53	176.53	176.51	176.57	
25	176.50	176.56	176.57	176.56	176.55	177.00	176.57	176.55	176.52	176.53	176.51	176.56	
26	176.49	176.56	176.58	176.60	176.52	176.66	176.54	176.56	176.51	176.52	176.51	176.69	
27	176.44	176.56	176.62	176.57	176.54	176.99	176.60	176.73	176.52	176.52	176.52	176.75	
28	176.25	176.56	176.60	176.56	176.58	176.88	176.59	176.75	176.51	176.52	176.52	176.44	
29	176.23	176.58	176.60	176.59	176.54	176.74	176.58	176.76	176.51	176.52		176.57	
30	176.39	176.55	176.58	176.57	176.55	176.58	176.57	176.65	176.53	176.52		176.58	
31		176.58		176.58	176.55		176.57		176.52	176.53		176.60	
Mean	176.40	176.55	176.56	176.57	176.55	176.58	176.63	176.68	176.52	176.52	176.52	176.55	
Max	176.55	176.58	176.62	176.64	176.61	177.00	177.01	176.87	176.60	176.55	176.53	176.75	177.01
Min	176.15	176.52	176.49	176.50	176.49	176.11	176.35	176.55	176.38	176.51	176.49	176.44	176.11

Annual Max Momentary Gage Height 177.16 m. (MSL.) , at 07.00 Hours, on Sep 25, 2016

Zero Gage at Bottom Elevation 174.10 m. (MSL.) , River Bed 174.65 m. (MSL.)

Left Bank Elevation 179.90 m. (MSL.) ,

Right Bank Elevation 179.91 m. (MSL.) , Drainage Are 3,012 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.50	2.05	0.00	0.00	18.10	3.55	2.35	1.15	1.15	1.15		
2	0.00	0.00	2.20	2.85	0.00	0.00	21.16	2.85	2.50	1.15	1.30	1.00		
3	0.00	0.00	2.20	2.20	0.00	0.00	24.22	3.90	2.35	1.45	1.30	1.00		
4	0.00	0.00	2.20	1.75	0.00	0.00	17.42	4.25	2.20	1.45	1.45	1.00		
5	0.00	0.00	2.20	1.75	0.00	0.00	17.08	3.90	1.60	1.75	1.45	1.00		
6	0.00	0.00	1.90	1.90	0.00	0.00	16.74	3.90	1.30	1.45	1.30	1.15		
7	0.00	0.00	2.05	2.20	0.00	0.00	17.25	3.55	1.30	1.30	1.45	1.00		
8	0.00	0.00	2.20	2.20	0.00	0.00	18.95	3.20	1.30	1.30	1.45	1.00		
9	0.00	0.00	1.75	1.75	0.00	0.00	15.21	4.95	1.15	1.30	1.30	1.30		
10	0.00	0.00	1.90	1.90	0.00	2.35	13.85	5.65	1.15	1.30	1.15	1.30		
11	0.00	0.00	1.60	1.90	0.00	2.35	14.53	19.69	0.98	1.15	1.30	1.15		
12	0.00	0.00	1.60	1.60	0.00	1.15	19.80	11.50	0.90	1.15	1.30	1.30		
13	0.00	0.00	1.30	1.30	0.00	0.53	24.39	9.85	0.86	1.45	1.00	1.30		
14	0.00	0.00	0.98	1.00	0.00	0.53	25.07	10.95	0.76	1.30	1.15	1.15		
15	0.00	0.00	1.00	0.00	0.00	4.60	22.86	8.20	0.86	1.30	1.45	1.15		
16	0.00	0.00	1.00	0.00	0.00	4.95	0.70	7.65	1.60	1.15	1.45	2.85		
17	0.00	0.00	1.30	0.00	0.00	4.95	1.15	9.85	1.60	1.15	1.30	2.20		
18	0.00	0.00	1.75	0.00	0.00	4.25	3.20	9.30	1.00	1.15	1.30	4.60		
19	0.00	0.00	1.60	0.00	0.00	4.60	2.85	8.75	1.30	1.15	1.00	2.50		
20	0.00	0.00	2.20	0.00	0.00	4.60	10.95	8.75	1.45	1.45	0.98	2.05		
21	0.00	0.00	2.85	0.00	0.00	14.19	8.75	2.50	1.30	1.30	1.15	1.90		
22	0.00	0.00	2.20	0.00	0.00	10.15	8.20	1.75	1.45	1.15	1.15	1.60		
23	0.00	0.00	2.05	0.00	0.00	10.30	4.60	2.05	1.45	1.15	1.00	1.60		
24	0.00	0.00	2.20	0.00	0.00	16.57	4.60	1.90	1.45	1.45	1.15	2.05		
25	0.00	0.00	2.05	0.00	0.00	24.90	2.05	1.75	1.30	1.45	1.15	1.90		
26	0.00	0.00	2.20	0.00	0.00	19.12	1.60	1.90	1.15	1.30	1.15	5.65		
27	0.00	0.00	3.20	0.00	0.00	24.73	2.50	7.65	1.30	1.30	1.30	8.75		
28	0.00	0.00	2.50	0.00	0.00	22.86	2.35	8.75	1.15	1.30	1.30	0.88		
29	0.00	0.00	2.50	0.00	0.00	20.48	2.20	9.30	1.15	1.30		2.05		
30	0.00	0.00	2.20	0.00	0.00	17.76	2.05	4.25	1.45	1.30		2.20		
31		0.00		0.00	0.00		2.05		1.30	1.45		2.50		
Total	0.00	0.00	59.38	26.35	0.00	215.92	346.43	185.99	42.96	40.45	34.88	62.23	1014.59	CMSDAY
Mean	0.00	0.00	1.98	0.85	0.00	7.20	11.18	6.20	1.39	1.30	1.25	2.01	2.78	CMS
Max	0.00	0.00	3.20	2.85	0.00	24.90	25.07	19.69	2.50	1.75	1.45	8.75	25.07	CMS
Min	0.00	0.00	0.98	0.00	0.00	0.00	0.70	1.75	0.76	1.15	0.98	0.88	0.00	CMS
Runoff	0.00	0.00	5.13	2.28	0.00	18.66	29.93	16.07	3.71	3.49	3.01	5.38	87.66	MCM

Momentary Peak 27.62 CMS, at 177.16 m. (MSL.), at 07.00 Hours, on Sep 25, 2016

Runoff Yield 0.92 Liters/Second/Square KM. Momentary Peak Yield 9.170 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge

Ban Kham Samran **Amphoe** Det Udom **Changwat** Ubon Ratchathani

Drainge Area	1,745 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+123.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank upstream at the footpath **Elevation** +133.374 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 51 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

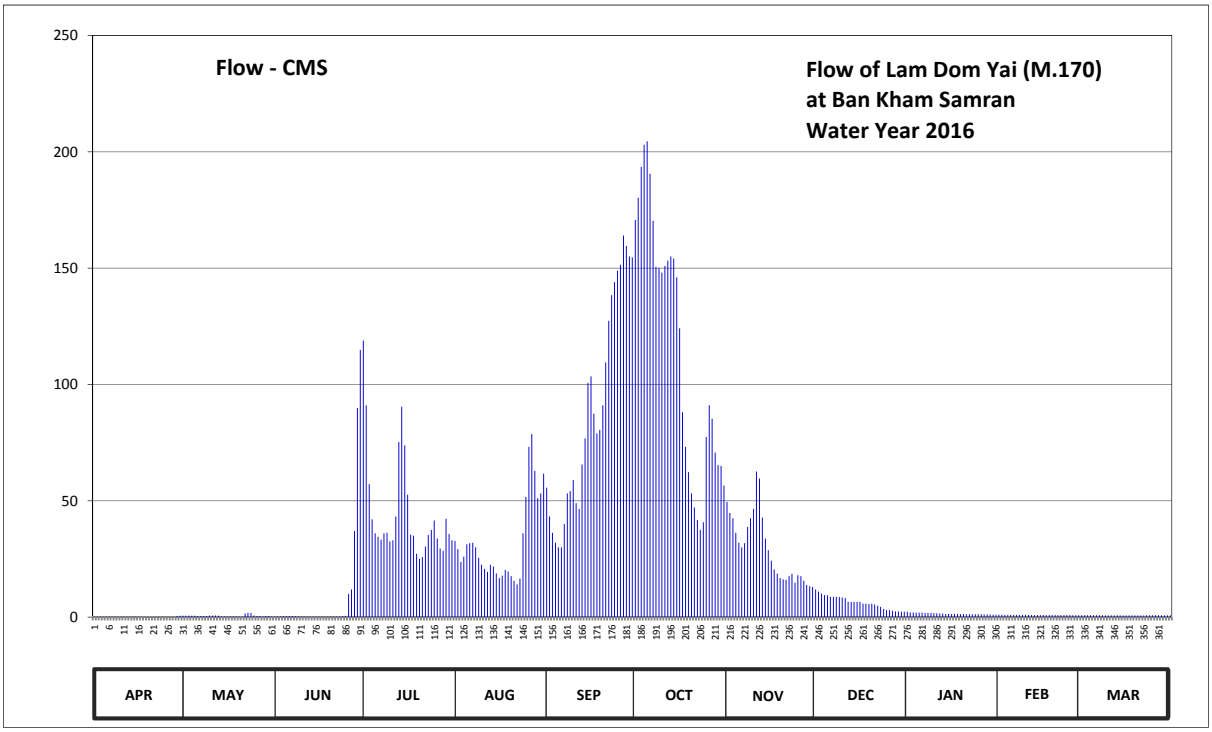
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.36	123.60	123.40	128.42	125.61	126.45	129.65	126.25	124.66	124.02	123.80	123.72	
2	123.36	123.60	123.44	127.62	125.47	126.03	129.86	126.09	124.60	124.00	123.80	123.71	
3	123.36	123.60	123.45	126.50	125.25	125.75	130.15	126.00	124.54	124.00	123.79	123.71	
4	123.36	123.60	123.50	125.98	125.34	125.58	130.34	125.75	124.50	123.99	123.79	123.71	
5	123.36	123.60	123.50	125.74	125.55	125.50	130.37	125.58	124.49	123.98	123.79	123.71	
6	123.36	123.55	123.51	125.68	125.57	125.50	130.09	125.50	124.45	123.98	123.78	123.70	
7	123.36	123.55	123.55	125.63	125.58	125.90	129.64	125.57	124.45	123.96	123.78	123.70	
8	123.36	123.55	123.50	125.74	125.50	126.37	129.20	125.85	124.45	123.95	123.78	123.70	
9	123.36	123.55	123.45	125.75	125.32	126.40	129.19	126.00	124.44	123.95	123.78	123.69	
10	123.36	123.65	123.44	125.60	125.20	126.56	129.14	126.15	124.43	123.94	123.78	123.69	
11	123.36	123.65	123.43	125.62	125.13	126.23	129.21	126.68	124.41	123.93	123.77	123.69	
12	123.36	123.65	123.40	126.03	125.07	126.15	129.26	126.58	124.30	123.92	123.76	123.69	
13	123.36	123.60	123.41	127.10	125.20	126.78	129.30	126.01	124.30	123.90	123.76	123.68	
14	123.35	123.45	123.40	127.60	125.17	127.15	129.28	125.65	124.30	123.88	123.76	123.68	
15	123.35	123.45	123.40	127.05	125.04	127.92	129.09	125.45	124.30	123.88	123.75	123.68	
16	123.34	123.45	123.40	126.35	124.94	128.00	128.55	125.27	124.30	123.88	123.75	123.67	
17	123.34	123.45	123.40	125.72	124.99	127.50	127.52	125.12	124.25	123.87	123.74	123.67	
18	123.34	123.45	123.40	125.70	125.11	127.22	127.03	125.03	124.25	123.87	123.74	123.67	
19	123.34	123.44	123.40	125.39	125.08	127.27	126.67	124.94	124.24	123.86	123.74	123.67	
20	123.34	123.40	123.40	125.30	124.98	127.62	126.37	124.91	124.25	123.86	123.73	123.67	
21	123.34	123.40	123.40	125.33	124.88	128.17	126.17	124.90	124.23	123.85	123.73	123.67	
22	123.34	123.92	123.40	125.51	124.80	128.63	125.97	124.98	124.19	123.85	123.73	123.68	
23	123.34	123.97	123.40	125.71	124.93	128.90	125.80	125.03	124.16	123.84	123.73	123.70	
24	123.34	123.95	123.51	125.80	125.74	129.04	125.93	124.84	124.10	123.84	123.73	123.70	
25	123.34	123.65	123.57	125.96	126.32	129.16	127.17	125.00	124.07	123.84	123.73	123.70	
26	123.34	123.55	124.53	125.65	127.03	129.22	127.62	124.98	124.07	123.84	123.72	123.70	
27	123.34	123.53	124.66	125.48	127.21	129.50	127.43	124.88	124.05	123.83	123.72	123.70	
28	123.34	123.45	125.78	125.44	126.69	129.40	126.95	124.79	124.03	123.83	123.72	123.69	
29	123.54	123.55	127.58	125.99	126.30	129.30	126.77	124.75	124.03	123.82		123.69	
30	123.61	123.53	128.32	125.73	126.37	129.29	126.76	124.73	124.02	123.81		123.69	
31		123.40		125.62	126.65		126.48		124.02	123.81		123.69	
Mean	123.37	123.57	123.90	126.02	125.55	127.42	128.16	125.44	124.29	123.90	123.76	123.69	
Max	123.61	123.97	128.32	128.42	127.21	129.50	130.37	126.68	124.66	124.02	123.80	123.72	130.37
Min	123.34	123.40	123.40	125.30	124.80	125.50	125.80	124.73	124.02	123.81	123.72	123.67	123.34

Annual Max Momentary Gage Height 130.38 m. (MSL.) , at 06.00 Hours, on Oct 5, 2016

Zero Gage at Bottom Elevation 123.30 m. (MSL.) , River Bed 122.85 m. (MSL.)

Left Bank Elevation 133.07 m. (MSL.) ,

Right Bank Elevation 133.08 m. (MSL.) , Drainage Are 1,745 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.60	0.20	118.87	32.75	55.60	170.75	49.54	11.90	2.30	1.00	0.84	
2	0.12	0.60	0.28	91.05	29.25	43.25	180.20	44.75	11.00	2.00	1.00	0.82	
3	0.12	0.60	0.30	57.12	23.75	36.25	193.50	42.50	10.10	2.00	0.98	0.82	
4	0.12	0.60	0.40	42.00	26.00	32.00	203.00	36.25	9.50	1.95	0.98	0.82	
5	0.12	0.60	0.40	36.00	31.25	30.00	204.50	32.00	9.35	1.90	0.98	0.82	
6	0.12	0.50	0.42	34.50	31.75	30.00	190.55	30.00	8.75	1.90	0.96	0.80	
7	0.12	0.50	0.50	33.25	32.00	40.00	170.30	31.75	8.75	1.80	0.96	0.80	
8	0.12	0.50	0.40	36.00	30.00	53.18	150.50	38.75	8.75	1.75	0.96	0.80	
9	0.12	0.50	0.30	36.25	25.50	54.09	150.09	42.50	8.60	1.75	0.96	0.78	
10	0.12	0.70	0.28	32.50	22.50	58.94	148.07	46.51	8.45	1.70	0.96	0.78	
11	0.12	0.70	0.26	33.00	20.75	48.94	150.95	62.57	8.15	1.65	0.94	0.78	
12	0.12	0.70	0.20	43.25	19.40	46.51	153.20	59.54	6.50	1.60	0.92	0.78	
13	0.12	0.60	0.22	75.29	22.50	65.60	155.00	42.75	6.50	1.50	0.92	0.76	
14	0.10	0.30	0.20	90.44	21.75	76.81	154.10	33.75	6.50	1.40	0.92	0.76	
15	0.10	0.30	0.20	73.78	18.80	100.70	146.04	28.75	6.50	1.40	0.90	0.76	
16	0.08	0.30	0.20	52.57	16.80	103.50	124.14	24.25	6.50	1.40	0.90	0.74	
17	0.08	0.30	0.20	35.50	17.80	87.41	88.02	20.50	5.75	1.35	0.88	0.74	
18	0.08	0.30	0.20	35.00	20.25	78.93	73.17	18.60	5.75	1.35	0.88	0.74	
19	0.08	0.28	0.20	27.25	19.60	80.44	62.27	16.80	5.60	1.30	0.88	0.74	
20	0.08	0.20	0.20	25.00	17.60	91.05	53.18	16.20	5.75	1.30	0.86	0.74	
21	0.08	0.20	0.20	25.75	15.60	109.45	47.12	16.00	5.45	1.25	0.86	0.74	
22	0.08	1.60	0.20	30.25	14.00	127.38	41.75	17.60	4.85	1.25	0.86	0.76	
23	0.08	1.85	0.20	35.25	16.60	138.33	37.50	18.60	4.40	1.20	0.86	0.80	
24	0.08	1.75	0.42	37.50	36.00	144.01	40.75	14.80	3.50	1.20	0.86	0.80	
25	0.08	0.70	0.54	41.50	51.66	148.88	77.41	18.00	3.05	1.20	0.86	0.80	
26	0.08	0.50	9.95	33.75	73.17	151.40	91.05	17.60	3.05	1.20	0.84	0.80	
27	0.08	0.46	11.90	29.50	78.63	164.00	85.29	15.60	2.75	1.15	0.84	0.80	
28	0.08	0.30	37.00	28.50	62.87	159.50	70.75	13.85	2.45	1.15	0.84	0.78	
29	0.48	0.50	89.84	42.25	51.06	155.00	65.30	13.25	2.45	1.10		0.78	
30	0.62	0.46	114.81	35.75	53.18	154.55	64.99	12.95	2.30	1.05		0.78	
31		0.20		33.00	61.66		56.51		2.30	1.05		0.78	
Total	3.90	18.20	270.62	1381.62	994.43	2665.70	3599.95	876.51	195.20	46.10	25.56	24.24	10102.03	CMSDAY
Mean	0.13	0.59	9.02	44.57	32.08	88.86	116.13	29.22	6.30	1.49	0.91	0.78	27.68	CMS
Max	0.62	1.85	114.81	118.87	78.63	164.00	204.50	62.57	11.90	2.30	1.00	0.84	204.50	CMS
Min	0.08	0.20	0.20	25.00	14.00	30.00	37.50	12.95	2.30	1.05	0.84	0.74	0.08	CMS
Runoff	0.34	1.57	23.38	119.37	85.92	230.32	311.04	75.73	16.87	3.98	2.21	2.09	872.82	MCM

Momentary Peak 205.00 CMS, at 130.38 m. (MSL.), at 06.00 Hours, on Oct 5, 2016

Runoff Yield 15.86 Liters/Second/Square KM. Momentary Peak Yield 117.480 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

	Ban Non Sao - E	**Amphoe** Wang Nam Khieo	**Changwat** Nakhon Ratchasima
Drainge Area	553 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+272.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath	**Elevation**	+280.170 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2002 to date		
Rating Operation			
Period of Rating	2002 to date		
Rated by Flot	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

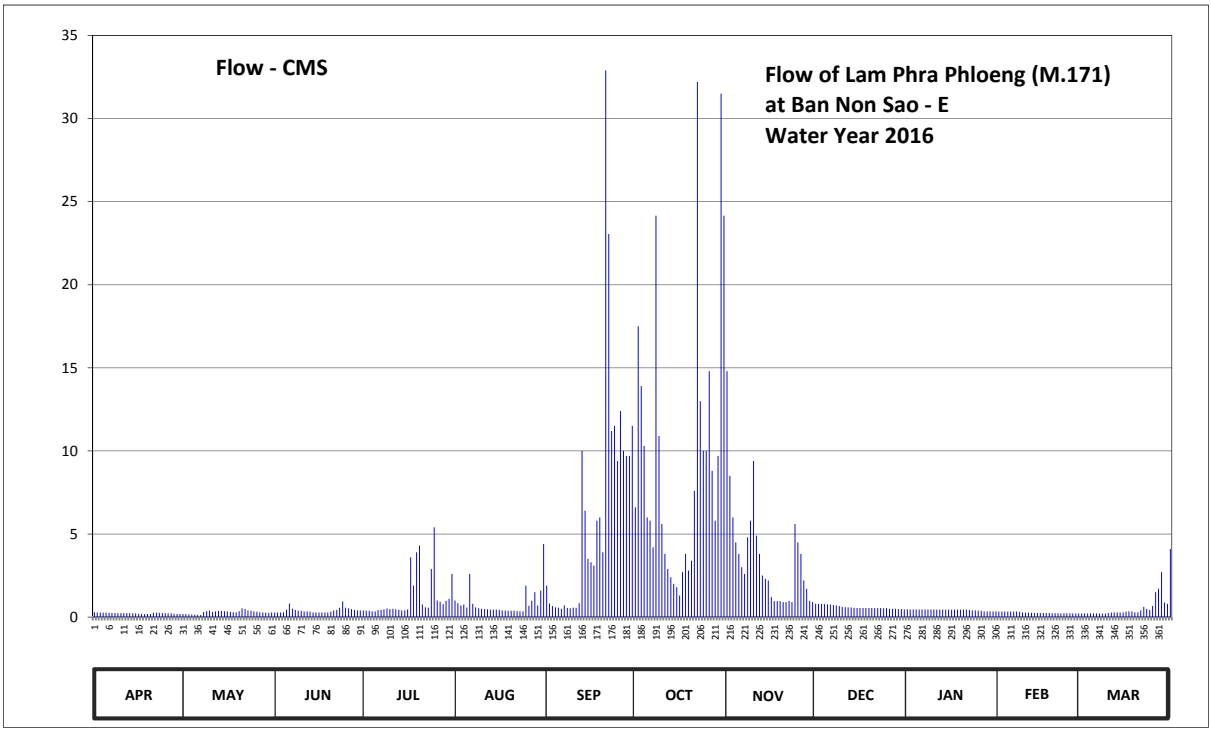
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	272.19	272.08	272.18	272.30	272.70	272.79	273.18	273.44	272.60	272.37	272.24	272.12	
2	272.18	272.08	272.18	272.29	272.62	272.61	273.50	273.25	272.60	272.36	272.24	272.12	
3	272.17	272.06	272.18	272.28	272.55	272.53	273.42	273.15	272.60	272.36	272.24	272.12	
4	272.17	272.05	272.19	272.25	272.58	272.49	273.31	273.05	272.59	272.36	272.24	272.12	
5	272.17	272.05	272.34	272.25	272.48	272.47	273.15	272.98	272.58	272.36	272.24	272.12	
6	272.16	272.03	272.61	272.32	272.86	272.40	273.14	272.90	272.58	272.36	272.24	272.12	
7	272.15	272.03	272.41	272.33	272.60	272.55	273.02	272.86	272.56	272.36	272.24	272.11	
8	272.15	272.21	272.33	272.37	272.49	272.45	273.63	273.08	272.55	272.36	272.22	272.11	
9	272.14	272.26	272.29	272.42	272.43	272.43	273.33	273.14	272.53	272.36	272.18	272.11	
10	272.14	272.29	272.27	272.38	272.40	272.47	273.13	273.28	272.51	272.36	272.17	272.15	
11	272.14	272.22	272.25	272.40	272.38	272.46	272.98	273.09	272.50	272.35	272.17	272.18	
12	272.14	272.25	272.25	272.37	272.37	272.62	272.89	272.98	272.49	272.35	272.16	272.18	
13	272.14	272.27	272.23	272.35	272.35	273.30	272.84	272.85	272.48	272.35	272.15	272.18	
14	272.13	272.27	272.18	272.30	272.35	273.17	272.80	272.83	272.46	272.35	272.15	272.18	
15	272.12	272.26	272.18	272.30	272.35	272.95	272.78	272.82	272.45	272.35	272.15	272.18	
16	272.10	272.24	272.18	272.36	272.33	272.93	272.73	272.72	272.45	272.35	272.15	272.23	
17	272.09	272.22	272.18	272.96	272.30	272.91	272.87	272.68	272.45	272.35	272.15	272.25	
18	272.08	272.19	272.18	272.79	272.29	273.14	272.98	272.68	272.45	272.35	272.15	272.25	
19	272.08	272.19	272.18	272.99	272.28	273.15	272.88	272.68	272.45	272.35	272.13	272.19	
20	272.08	272.26	272.23	273.03	272.28	272.99	272.94	272.65	272.45	272.35	272.13	272.19	
21	272.17	272.43	272.30	272.58	272.28	273.77	273.22	272.65	272.44	272.35	272.13	272.30	
22	272.17	272.39	272.33	272.49	272.26	273.61	273.76	272.69	272.44	272.33	272.13	272.51	
23	272.16	272.30	272.46	272.47	272.25	273.34	273.40	272.65	272.44	272.30	272.13	272.39	
24	272.15	272.28	272.67	272.89	272.25	273.35	273.30	273.13	272.43	272.30	272.13	272.33	
25	272.14	272.25	272.47	273.12	272.79	273.28	273.30	273.05	272.44	272.29	272.13	272.53	
26	272.13	272.23	272.43	272.70	272.54	273.38	273.44	272.98	272.40	272.28	272.12	272.75	
27	272.12	272.19	272.38	272.66	272.69	273.30	273.26	272.82	272.40	272.25	272.12	272.77	
28	272.10	272.18	272.33	272.59	272.75	273.29	273.14	272.77	272.40	272.25	272.12	272.87	
29	272.09	272.17	272.30	272.69	272.55	273.29	273.29	272.69	272.38	272.25		272.64	
30	272.08	272.16	272.30	272.71	272.76	273.35	273.75	272.65	272.38	272.25		272.60	
31		272.18		272.86	273.04		273.63		272.37	272.25		273.01	
Mean	272.13	272.20	272.30	272.54	272.49	272.96	273.19	272.91	272.48	272.33	272.17	272.32	
Max	272.19	272.43	272.67	273.12	273.04	273.77	273.76	273.44	272.60	272.37	272.24	273.01	273.77
Min	272.08	272.03	272.18	272.25	272.25	272.40	272.73	272.65	272.37	272.25	272.12	272.11	272.03

Annual Max Momentary Gage Height 274.25 m. (MSL.) , at 18.00 Hours, on Oct 22, 2016

Zero Gage at Bottom Elevation 272.20 m. (MSL.) , River Bed 272.21 m. (MSL.)

Left Bank Elevation 279.90 m. (MSL.) ,

Right Bank Elevation 280.02 m. (MSL.) , Drainage Are 553 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.29	0.18	0.28	0.40	1.00	1.90	6.60	14.80	0.80	0.47	0.34	0.22		
2	0.28	0.18	0.28	0.39	0.84	0.82	17.50	8.50	0.80	0.46	0.34	0.22		
3	0.27	0.16	0.28	0.38	0.70	0.66	13.90	6.00	0.80	0.46	0.34	0.22		
4	0.27	0.15	0.29	0.35	0.76	0.59	10.30	4.50	0.78	0.46	0.34	0.22		
5	0.27	0.15	0.44	0.35	0.58	0.57	6.00	3.80	0.76	0.46	0.34	0.22		
6	0.26	0.13	0.82	0.42	2.60	0.50	5.80	3.00	0.76	0.46	0.34	0.22		
7	0.25	0.13	0.51	0.43	0.80	0.70	4.20	2.60	0.72	0.46	0.34	0.21		
8	0.25	0.31	0.43	0.47	0.59	0.55	24.15	4.80	0.70	0.46	0.32	0.21		
9	0.24	0.36	0.39	0.52	0.53	0.53	10.90	5.80	0.66	0.46	0.28	0.21		
10	0.24	0.39	0.37	0.48	0.50	0.57	5.60	9.40	0.62	0.46	0.27	0.25		
11	0.24	0.32	0.35	0.50	0.48	0.56	3.80	4.90	0.60	0.45	0.27	0.28		
12	0.24	0.35	0.35	0.47	0.47	0.84	2.90	3.80	0.59	0.45	0.26	0.28		
13	0.24	0.37	0.33	0.45	0.45	10.00	2.40	2.50	0.58	0.45	0.25	0.28		
14	0.23	0.37	0.28	0.40	0.45	6.40	2.00	2.30	0.56	0.45	0.25	0.28		
15	0.22	0.36	0.28	0.40	0.45	3.50	1.80	2.20	0.55	0.45	0.25	0.28		
16	0.20	0.34	0.28	0.46	0.43	3.30	1.30	1.20	0.55	0.45	0.25	0.33		
17	0.19	0.32	0.28	3.60	0.40	3.10	2.70	0.96	0.55	0.45	0.25	0.35		
18	0.18	0.29	0.28	1.90	0.39	5.80	3.80	0.96	0.55	0.45	0.25	0.35		
19	0.18	0.29	0.28	3.90	0.38	6.00	2.80	0.96	0.55	0.45	0.23	0.29		
20	0.18	0.36	0.33	4.30	0.38	3.90	3.40	0.90	0.55	0.45	0.23	0.29		
21	0.27	0.53	0.40	0.76	0.38	32.90	7.60	0.90	0.54	0.45	0.23	0.40		
22	0.27	0.49	0.43	0.59	0.36	23.05	32.20	0.98	0.54	0.43	0.23	0.62		
23	0.26	0.40	0.56	0.57	0.35	11.20	13.00	0.90	0.54	0.40	0.23	0.49		
24	0.25	0.38	0.94	2.90	0.35	11.50	10.00	5.60	0.53	0.40	0.23	0.43		
25	0.24	0.35	0.57	5.40	1.90	9.40	10.00	4.50	0.54	0.39	0.23	0.66		
26	0.23	0.33	0.53	1.00	0.68	12.40	14.80	3.80	0.50	0.38	0.22	1.50		
27	0.22	0.29	0.48	0.92	0.98	10.00	8.80	2.20	0.50	0.35	0.22	1.70		
28	0.20	0.28	0.43	0.78	1.50	9.70	5.80	1.70	0.50	0.35	0.22	2.70		
29	0.19	0.27	0.40	0.98	0.70	9.70	9.70	0.98	0.48	0.35		0.88		
30	0.18	0.26	0.40	1.10	1.60	11.50	31.50	0.90	0.48	0.35		0.80		
31		0.28		2.60	4.40		24.15		0.47	0.35		4.10		
Total	7.03	9.37	12.27	38.17	26.38	192.14	299.40	106.34	18.65	13.31	7.55	19.49	750.10	CMSDAY
Mean	0.23	0.30	0.41	1.23	0.85	6.40	9.66	3.54	0.60	0.43	0.27	0.63	2.06	CMS
Max	0.29	0.53	0.94	5.40	4.40	32.90	32.20	14.80	0.80	0.47	0.34	4.10	32.90	CMS
Min	0.18	0.13	0.28	0.35	0.35	0.50	1.30	0.90	0.47	0.35	0.22	0.21	0.13	CMS
Runoff	0.61	0.81	1.06	3.30	2.28	16.60	25.87	9.19	1.61	1.15	0.65	1.68	64.81	MCM

Momentary Peak 75.50 CMS, at 274.25 m. (MSL.), at 18.00 Hours, on Oct 22, 2016

Runoff Yield 3.72 Liters/Second/Square KM. Momentary Peak Yield 136.530 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

Lat 14 - 29 - 14 N Long 101 - 46 - 57 E

Location : on right bank at the bridge.

Ban Non Sao - E **Amphoe** Wang Nam Khieo **Changwat** Nakhon Ratchasima

Drainge Area	143 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+293.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank downstream side at the footpath of the bridge. **Elevation** +299.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Flot	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

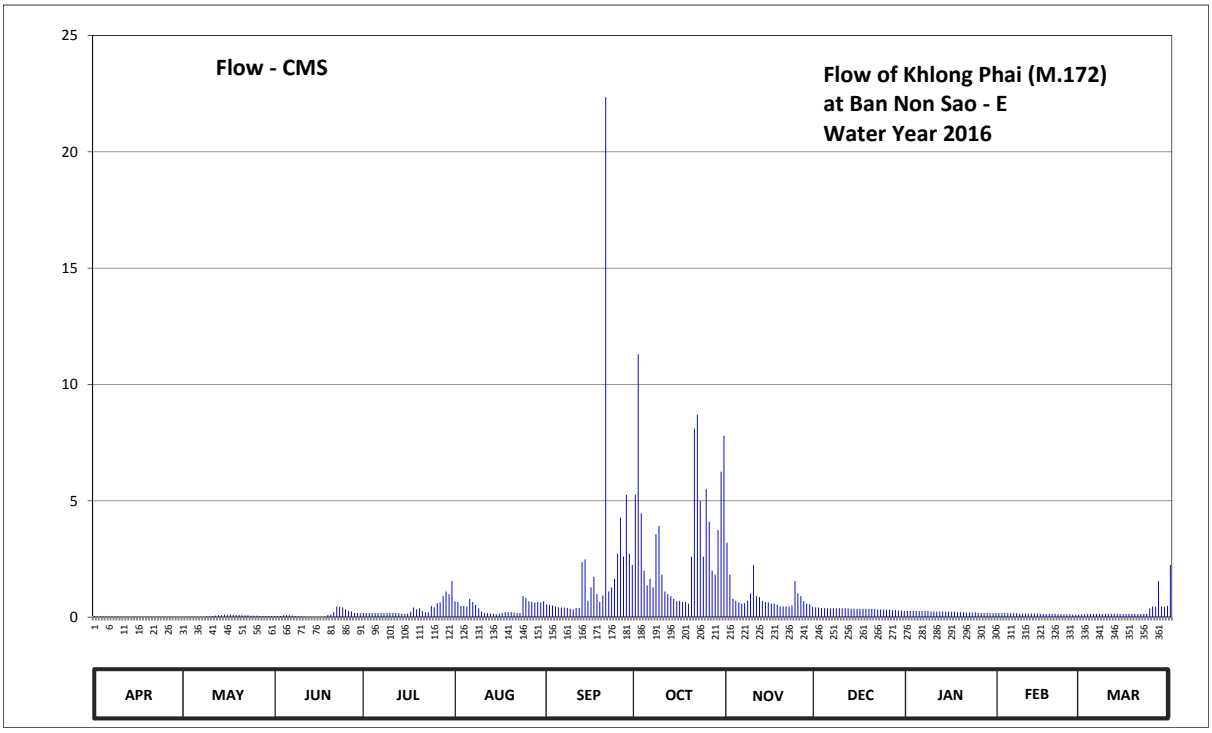
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.03	292.97	293.03	293.12	293.39	293.34	293.81	293.70	293.28	293.18	293.11	293.08	
2	293.02	292.97	293.03	293.12	293.38	293.33	294.02	293.58	293.27	293.18	293.11	293.08	
3	293.02	292.97	293.03	293.12	293.31	293.32	293.77	293.42	293.26	293.18	293.11	293.09	
4	293.02	292.97	293.05	293.12	293.31	293.30	293.60	293.40	293.25	293.17	293.11	293.09	
5	293.01	292.97	293.05	293.12	293.30	293.28	293.53	293.37	293.25	293.17	293.11	293.09	
6	293.01	292.98	293.05	293.12	293.42	293.27	293.56	293.35	293.25	293.17	293.11	293.09	
7	293.01	292.99	293.04	293.12	293.38	293.27	293.52	293.36	293.25	293.17	293.11	293.09	
8	293.01	293.00	293.03	293.12	293.33	293.26	293.72	293.40	293.25	293.17	293.10	293.09	
9	293.01	293.01	293.02	293.12	293.25	293.24	293.74	293.48	293.25	293.16	293.10	293.09	
10	293.00	293.02	293.02	293.12	293.15	293.22	293.58	293.62	293.25	293.16	293.10	293.09	
11	293.00	293.03	293.01	293.12	293.12	293.26	293.50	293.45	293.25	293.16	293.10	293.09	
12	293.00	293.04	293.00	293.12	293.11	293.26	293.47	293.44	293.25	293.16	293.10	293.09	
13	292.99	293.05	292.99	293.11	293.10	293.63	293.45	293.40	293.24	293.16	293.10	293.09	
14	292.99	293.06	292.98	293.10	293.09	293.64	293.42	293.38	293.24	293.15	293.10	293.09	
15	292.98	293.07	292.97	293.09	293.08	293.40	293.39	293.37	293.24	293.15	293.10	293.09	
16	292.98	293.07	292.97	293.10	293.10	293.52	293.40	293.35	293.24	293.15	293.09	293.09	
17	292.97	293.07	293.00	293.15	293.12	293.57	293.38	293.35	293.24	293.15	293.09	293.09	
18	292.97	293.06	293.01	293.27	293.14	293.47	293.38	293.33	293.23	293.14	293.09	293.09	
19	292.97	293.06	293.05	293.22	293.14	293.38	293.35	293.30	293.23	293.14	293.09	293.09	
20	292.97	293.06	293.07	293.25	293.14	293.46	293.65	293.30	293.23	293.14	293.09	293.09	
21	292.97	293.05	293.14	293.18	293.13	294.27	293.92	293.30	293.23	293.13	293.08	293.09	
22	292.97	293.05	293.30	293.14	293.12	293.50	293.94	293.30	293.22	293.13	293.08	293.09	
23	292.97	293.05	293.29	293.14	293.12	293.52	293.80	293.32	293.22	293.13	293.08	293.09	
24	292.97	293.04	293.28	293.31	293.45	293.56	293.65	293.55	293.22	293.13	293.08	293.25	
25	292.97	293.04	293.21	293.28	293.43	293.66	293.82	293.48	293.21	293.12	293.08	293.30	
26	292.97	293.04	293.18	293.36	293.39	293.76	293.75	293.45	293.21	293.12	293.07	293.30	
27	292.97	293.03	293.16	293.37	293.38	293.65	293.60	293.39	293.20	293.12	293.07	293.55	
28	292.97	293.03	293.12	293.45	293.37	293.81	293.58	293.35	293.20	293.12	293.07	293.30	
29	292.97	293.03	293.12	293.50	293.38	293.66	293.73	293.34	293.19	293.11		293.29	
30	292.97	293.03	293.11	293.47	293.37	293.62	293.85	293.29	293.19	293.11		293.31	
31		293.03		293.55	293.39		293.91		293.18	293.11		293.62	
Mean	292.99	293.03	293.08	293.21	293.25	293.48	293.64	293.40	293.23	293.15	293.09	293.16	
Max	293.03	293.07	293.30	293.55	293.45	294.27	294.02	293.70	293.28	293.18	293.11	293.62	294.27
Min	292.97	292.97	292.97	293.09	293.08	293.22	293.35	293.29	293.18	293.11	293.07	293.08	292.97

Annual Max Momentary Gage Height 294.50 m. (MSL.) , at 06.00 Hours, on Sep 21, 2016

Zero Gage at Bottom Elevation 293.20 m. (MSL.) , River Bed 292.63 m. (MSL.)

Left Bank Elevation 299.11 m. (MSL.) ,

Right Bank Elevation 299.11 m. (MSL.) , Drainage Are 143 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	0.00	0.05	0.18	0.68	0.55	5.25	3.20	0.42	0.27	0.17	0.12		
2	0.03	0.00	0.05	0.18	0.65	0.53	11.30	1.82	0.41	0.27	0.17	0.12		
3	0.03	0.00	0.05	0.18	0.48	0.50	4.46	0.78	0.39	0.27	0.17	0.14		
4	0.03	0.00	0.08	0.18	0.48	0.45	2.00	0.70	0.38	0.26	0.17	0.14		
5	0.02	0.00	0.08	0.18	0.45	0.42	1.37	0.63	0.38	0.26	0.17	0.14		
6	0.02	0.00	0.08	0.18	0.78	0.41	1.64	0.58	0.38	0.26	0.17	0.14		
7	0.02	0.00	0.06	0.18	0.65	0.41	1.28	0.60	0.38	0.26	0.17	0.14		
8	0.02	0.00	0.05	0.18	0.53	0.39	3.56	0.70	0.38	0.26	0.15	0.14		
9	0.02	0.02	0.03	0.18	0.38	0.36	3.92	1.02	0.38	0.24	0.15	0.14		
10	0.00	0.03	0.03	0.18	0.23	0.33	1.82	2.24	0.38	0.24	0.15	0.14		
11	0.00	0.05	0.02	0.18	0.18	0.39	1.10	0.90	0.38	0.24	0.15	0.14		
12	0.00	0.06	0.00	0.18	0.17	0.39	0.98	0.86	0.38	0.24	0.15	0.14		
13	0.00	0.08	0.00	0.17	0.15	2.36	0.90	0.70	0.36	0.24	0.15	0.14		
14	0.00	0.09	0.00	0.15	0.14	2.48	0.78	0.65	0.36	0.23	0.15	0.14		
15	0.00	0.11	0.00	0.14	0.12	0.70	0.68	0.63	0.36	0.23	0.15	0.14		
16	0.00	0.11	0.00	0.15	0.15	1.28	0.70	0.58	0.36	0.23	0.14	0.14		
17	0.00	0.11	0.00	0.23	0.18	1.73	0.65	0.58	0.36	0.23	0.14	0.14		
18	0.00	0.09	0.02	0.41	0.21	0.98	0.65	0.53	0.35	0.21	0.14	0.14		
19	0.00	0.09	0.08	0.33	0.21	0.65	0.58	0.45	0.35	0.21	0.14	0.14		
20	0.00	0.09	0.11	0.38	0.21	0.94	2.60	0.45	0.35	0.21	0.14	0.14		
21	0.00	0.08	0.21	0.27	0.20	22.35	8.10	0.45	0.35	0.20	0.12	0.14		
22	0.00	0.08	0.45	0.21	0.18	1.10	8.70	0.45	0.33	0.20	0.12	0.14		
23	0.00	0.08	0.44	0.21	0.18	1.28	5.00	0.50	0.33	0.20	0.12	0.14		
24	0.00	0.06	0.42	0.48	0.90	1.64	2.60	1.55	0.33	0.20	0.12	0.38		
25	0.00	0.06	0.32	0.42	0.82	2.72	5.50	1.02	0.32	0.18	0.12	0.45		
26	0.00	0.06	0.27	0.60	0.68	4.28	4.10	0.90	0.32	0.18	0.11	0.45		
27	0.00	0.05	0.24	0.63	0.65	2.60	2.00	0.68	0.30	0.18	0.11	1.55		
28	0.00	0.05	0.18	0.90	0.63	5.25	1.82	0.58	0.30	0.18	0.11	0.45		
29	0.00	0.05	0.18	1.10	0.65	2.72	3.74	0.55	0.29	0.17		0.44		
30	0.00	0.05	0.17	0.98	0.63	2.24	6.25	0.44	0.29	0.17		0.48		
31		0.05		1.55	0.68		7.80		0.27	0.17		2.24		
Total	0.24	1.60	3.67	11.47	13.23	62.43	101.83	25.72	10.92	6.89	4.02	9.62	251.64	CMSDAY
Mean	0.01	0.05	0.12	0.37	0.43	2.08	3.28	0.86	0.35	0.22	0.14	0.31	0.69	CMS
Max	0.05	0.11	0.45	1.55	0.90	22.35	11.30	3.20	0.42	0.27	0.17	2.24	22.35	CMS
Min	0.00	0.00	0.00	0.14	0.12	0.33	0.58	0.44	0.27	0.17	0.11	0.12	0.00	CMS
Runoff	0.02	0.14	0.32	0.99	1.14	5.39	8.80	2.22	0.94	0.60	0.35	0.83	21.74	MCM

Momentary Peak 36.50 CMS, at 294.50 m. (MSL.), at 06.00 Hours, on Sep 21, 2016

Runoff Yield 4.82 Liters/Second/Square KM. Momentary Peak Yield 255.240 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

Ban Non Sa - at **Amphoe** Chok Chai **Changwat** Nakhon Ratchasima

Drainge Area	4,211 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+174.800 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +183.884 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Flot	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 46 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

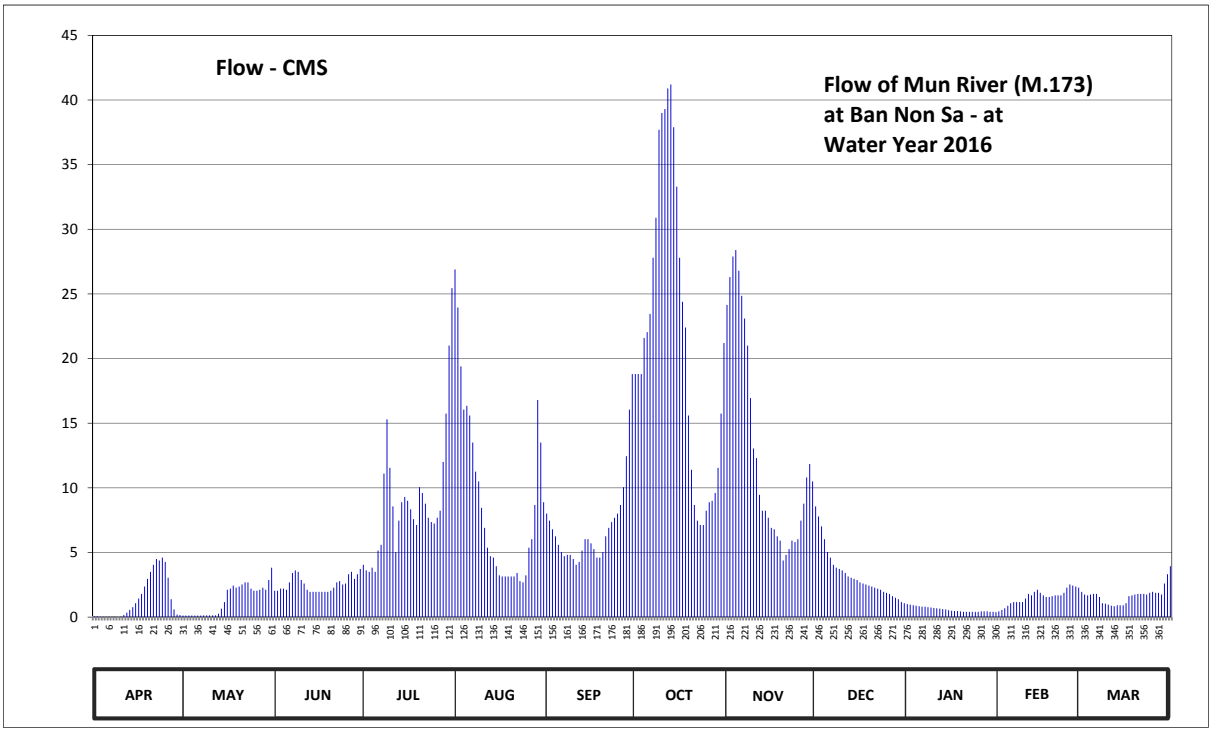
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.83	175.86	176.33	176.55	178.69	176.91	177.64	178.23	176.96	176.15	175.98	176.32	
2	175.83	175.86	176.33	176.51	178.19	176.86	177.64	178.63	176.89	176.14	176.02	176.29	
3	175.81	175.86	176.35	176.50	177.67	176.80	177.64	178.79	176.82	176.13	176.06	176.28	
4	175.81	175.86	176.35	176.53	177.47	176.75	177.78	178.84	176.73	176.12	176.12	176.29	
5	175.81	175.86	176.34	176.50	177.49	176.69	177.81	178.68	176.64	176.11	176.17	176.30	
6	175.81	175.86	176.41	176.65	177.44	176.64	178.09	178.37	176.60	176.10	176.19	176.30	
7	175.81	175.86	176.49	176.69	177.30	176.61	178.78	178.02	176.55	176.10	176.19	176.26	
8	175.81	175.87	176.51	177.14	177.15	176.62	179.09	177.75	176.53	176.09	176.19	176.17	
9	175.80	175.87	176.50	177.42	177.10	176.62	179.77	177.53	176.52	176.08	176.19	176.16	
10	175.82	175.87	176.43	177.17	176.95	176.59	179.90	177.27	176.51	176.07	176.24	176.14	
11	175.88	175.87	176.40	176.96	176.81	176.55	179.93	177.22	176.49	176.06	176.30	176.12	
12	175.95	175.87	176.34	176.64	176.67	176.57	180.06	177.03	176.46	176.05	176.28	176.11	
13	176.02	175.92	176.32	176.86	176.61	176.65	180.08	176.93	176.45	176.04	176.32	176.13	
14	176.09	176.05	176.32	176.99	176.60	176.73	179.79	176.93	176.44	176.03	176.34	176.13	
15	176.17	176.19	176.32	177.02	176.54	176.73	179.33	176.88	176.43	176.01	176.31	176.13	
16	176.24	176.34	176.32	177.00	176.47	176.70	178.78	176.81	176.41	176.00	176.28	176.17	
17	176.30	176.35	176.32	176.94	176.46	176.66	178.28	176.80	176.40	175.99	176.26	176.27	
18	176.37	176.38	176.32	176.87	176.46	176.60	177.88	176.75	176.39	175.99	176.26	176.28	
19	176.44	176.36	176.32	176.83	176.46	176.60	177.44	176.72	176.38	175.98	176.27	176.29	
20	176.50	176.37	176.33	177.07	176.46	176.64	177.16	176.58	176.37	175.97	176.28	176.30	
21	176.55	176.39	176.36	177.04	176.46	176.75	176.97	176.62	176.36	175.97	176.28	176.30	
22	176.59	176.41	176.41	176.98	176.49	176.81	176.86	176.66	176.35	175.97	176.28	176.30	
23	176.58	176.41	176.42	176.88	176.42	176.85	176.83	176.72	176.34	175.97	176.31	176.29	
24	176.60	176.35	176.39	176.85	176.41	176.88	176.83	176.71	176.32	175.97	176.36	176.31	
25	176.57	176.33	176.40	176.84	176.47	176.91	176.93	176.73	176.31	175.97	176.39	176.32	
26	176.45	176.33	176.48	176.88	176.67	176.97	176.99	176.86	176.30	175.98	176.38	176.31	
27	176.23	176.34	176.50	176.93	176.73	177.07	177.00	176.98	176.27	175.98	176.37	176.31	
28	176.03	176.36	176.44	177.20	176.97	177.23	177.04	177.12	176.25	175.98	176.36	176.29	
29	175.90	176.34	176.48	177.45	177.52	177.47	177.17	177.19	176.23	175.97		176.40	
30	175.88	176.43	176.52	177.75	177.30	177.64	177.45	177.10	176.19	175.97		176.48	
31		176.53		178.49	176.99		177.76		176.17	175.96		176.54	
Mean	176.12	176.15	176.39	176.97	176.95	176.80	178.09	177.31	176.45	176.03	176.25	176.27	
Max	176.60	176.53	176.52	178.49	178.69	177.64	180.08	178.84	176.96	176.15	176.39	176.54	180.08
Min	175.80	175.86	176.32	176.50	176.41	176.55	176.83	176.58	176.17	175.96	175.98	176.11	175.80

Annual Max Momentary Gage Height 180.13 m. (MSL.) , at 06.00 Hours, on Oct 13, 2016

Zero Gage at Bottom Elevation 174.80 m. (MSL.) , River Bed 175.50 m. (MSL.)

Left Bank Elevation 183.87 m. (MSL.) ,

Right Bank Elevation 183.85 m. (MSL.) , Drainage Are 4,211 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.12	2.04	4.05	26.90	8.01	18.80	24.15	8.56	1.00	0.44	1.96	
2	0.06	0.12	2.04	3.61	23.95	7.46	18.80	26.30	7.79	0.96	0.56	1.74	
3	0.02	0.12	2.20	3.50	19.40	6.80	18.80	27.90	7.02	0.92	0.68	1.68	
4	0.02	0.12	2.20	3.83	16.05	6.25	21.60	28.40	6.03	0.88	0.88	1.74	
5	0.02	0.12	2.12	3.50	16.35	5.59	22.05	26.80	5.04	0.84	1.08	1.80	
6	0.02	0.12	2.69	5.15	15.60	5.04	23.45	24.85	4.60	0.80	1.16	1.80	
7	0.02	0.12	3.41	5.59	13.50	4.71	27.80	23.10	4.05	0.80	1.16	1.56	
8	0.02	0.14	3.61	11.10	11.25	4.82	30.90	21.00	3.83	0.77	1.16	1.08	
9	0.00	0.14	3.50	15.30	10.50	4.82	37.70	16.95	3.72	0.74	1.16	1.04	
10	0.04	0.14	2.87	11.55	8.45	4.49	39.00	13.05	3.61	0.71	1.44	0.96	
11	0.16	0.14	2.60	8.56	6.91	4.05	39.30	12.30	3.41	0.68	1.80	0.88	
12	0.35	0.14	2.12	5.04	5.37	4.27	40.90	9.45	3.14	0.65	1.68	0.84	
13	0.56	0.26	1.96	7.46	4.71	5.15	41.20	8.23	3.05	0.62	1.96	0.92	
14	0.77	0.65	1.96	8.89	4.60	6.03	37.90	8.23	2.96	0.59	2.12	0.92	
15	1.08	1.16	1.96	9.30	3.94	6.03	33.30	7.68	2.87	0.53	1.88	0.92	
16	1.44	2.12	1.96	9.00	3.23	5.70	27.80	6.91	2.69	0.50	1.68	1.08	
17	1.80	2.20	1.96	8.34	3.14	5.26	24.40	6.80	2.60	0.47	1.56	1.62	
18	2.36	2.44	1.96	7.57	3.14	4.60	22.40	6.25	2.52	0.47	1.56	1.68	
19	2.96	2.28	1.96	7.13	3.14	4.60	15.60	5.92	2.44	0.44	1.62	1.74	
20	3.50	2.36	2.04	10.05	3.14	5.04	11.40	4.38	2.36	0.41	1.68	1.80	
21	4.05	2.52	2.28	9.60	3.14	6.25	8.67	4.82	2.28	0.41	1.68	1.80	
22	4.49	2.69	2.69	8.78	3.41	6.91	7.46	5.26	2.20	0.41	1.68	1.80	
23	4.38	2.69	2.78	7.68	2.78	7.35	7.13	5.92	2.12	0.41	1.88	1.74	
24	4.60	2.20	2.52	7.35	2.69	7.68	7.13	5.81	1.96	0.41	2.28	1.88	
25	4.27	2.04	2.60	7.24	3.23	8.01	8.23	6.03	1.88	0.41	2.52	1.96	
26	3.05	2.04	3.32	7.68	5.37	8.67	8.89	7.46	1.80	0.44	2.44	1.88	
27	1.38	2.12	3.50	8.23	6.03	10.05	9.00	8.78	1.62	0.44	2.36	1.88	
28	0.59	2.28	2.96	12.00	8.67	12.45	9.60	10.80	1.50	0.44	2.28	1.74	
29	0.20	2.12	3.32	15.75	16.80	16.05	11.55	11.85	1.38	0.41		2.60	
30	0.16	2.87	3.72	21.00	13.50	18.80	15.75	10.50	1.16	0.41		3.32	
31		3.83		25.45	8.89		21.20		1.08	0.38		3.94	
Total	42.43	42.41	76.85	279.28	277.78	210.94	667.71	385.88	101.27	18.35	44.38	52.30	2199.58 CMSDAY
Mean	1.41	1.37	2.56	9.01	8.96	7.03	21.54	12.86	3.27	0.59	1.59	1.69	6.03 CMS
Max	4.60	3.83	3.72	25.45	26.90	18.80	41.20	28.40	8.56	1.00	2.52	3.94	41.20 CMS
Min	0.00	0.12	1.96	3.50	2.69	4.05	7.13	4.38	1.08	0.38	0.44	0.84	0.00 CMS
Runoff	3.67	3.66	6.64	24.13	24.00	18.23	57.69	33.34	8.75	1.59	3.83	4.52	190.04 MCM

Momentary Peak 41.95 CMS, at 180.13 m. (MSL.), at 06.00 Hours, on Oct 13, 2016

Runoff Yield 1.43 Liters/Second/Square KM. Momentary Peak Yield 9.960 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Ban Non Si Khlai.

Ban Non Si Khlai **Amphoe** Kanthararom **Changwat** Si Sa Ket

Drainge Area	3,131 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+110.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the footpath of the bridge. **Elevation** +124.131 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Flot	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 84 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

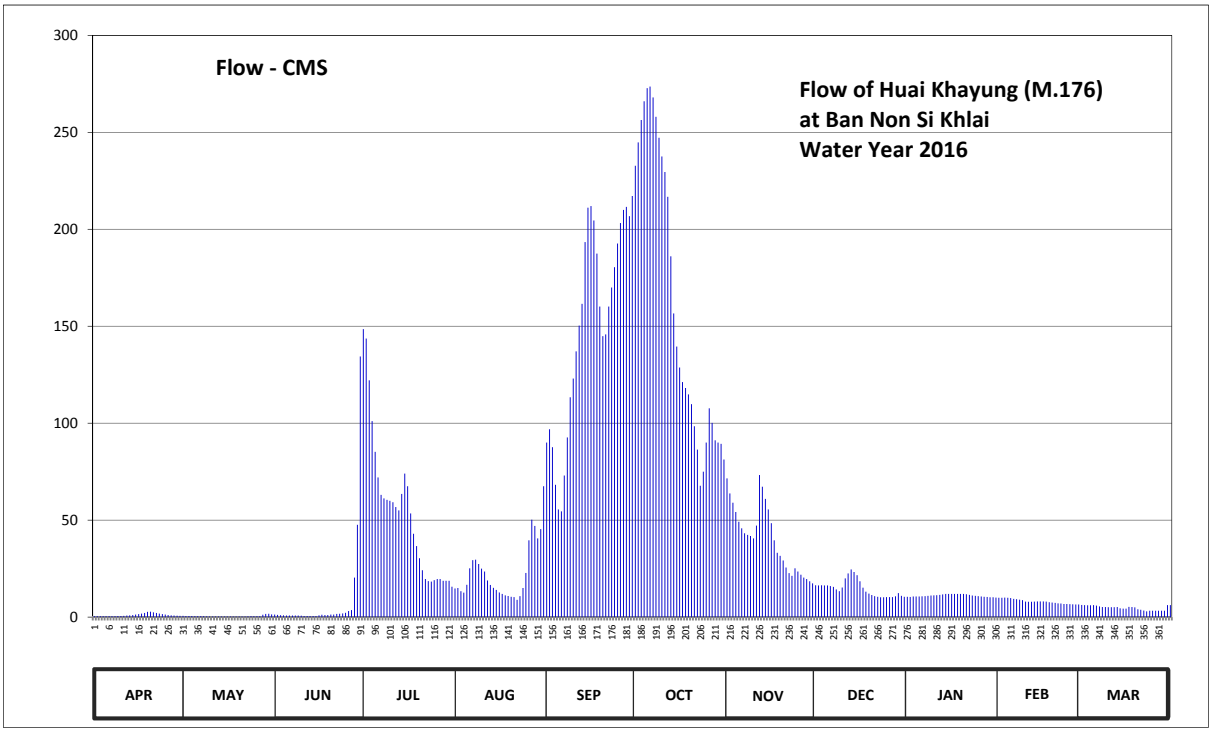
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.37	110.41	110.56	117.45	111.98	115.50	119.77	114.86	112.14	111.55	111.50	111.13	
2	110.37	110.40	110.53	117.29	112.00	115.73	120.07	114.55	112.13	111.54	111.50	111.12	
3	110.37	110.39	110.50	116.57	111.84	115.42	120.36	114.36	112.14	111.56	111.51	111.11	
4	110.37	110.38	110.47	115.87	111.76	114.73	120.60	114.17	112.13	111.56	111.50	111.11	
5	110.36	110.37	110.45	115.34	112.17	114.22	120.77	113.96	112.13	111.56	111.48	111.12	
6	110.36	110.36	110.45	114.88	112.76	114.18	120.79	113.79	112.10	111.57	111.44	111.09	
7	110.35	110.35	110.45	114.52	112.97	114.92	120.65	113.66	112.06	111.58	111.42	111.05	
8	110.35	110.35	110.45	114.45	112.98	115.59	120.40	113.62	111.93	111.60	111.40	111.02	
9	110.39	110.34	110.45	114.42	112.87	116.28	120.13	113.59	111.84	111.61	111.37	111.02	
10	110.39	110.32	110.43	114.40	112.75	116.60	119.89	113.53	112.03	111.62	111.30	111.01	
11	110.41	110.30	110.40	114.37	112.67	117.07	119.69	113.86	112.43	111.63	111.29	111.01	
12	110.45	110.30	110.38	114.27	112.36	117.51	119.37	114.93	112.60	111.65	111.29	111.01	
13	110.48	110.31	110.38	114.20	112.16	117.83	118.53	114.69	112.73	111.67	111.30	111.02	
14	110.51	110.32	110.39	114.54	112.01	118.74	117.69	114.44	112.65	111.70	111.31	110.95	
15	110.56	110.32	110.39	114.96	111.90	119.23	117.15	114.22	112.54	111.70	111.31	110.94	
16	110.61	110.30	110.48	114.70	111.77	119.25	116.79	113.92	112.33	111.70	111.31	110.94	
17	110.66	110.30	110.54	114.14	111.70	119.06	116.54	113.48	112.02	111.70	111.30	111.03	
18	110.71	110.30	110.52	113.65	111.62	118.57	116.44	113.16	111.81	111.70	111.27	111.02	
19	110.77	110.30	110.51	113.33	111.59	117.79	116.33	113.08	111.71	111.70	111.25	111.00	
20	110.78	110.30	110.57	113.02	111.55	117.33	116.16	112.96	111.64	111.70	111.23	110.90	
21	110.75	110.30	110.56	112.71	111.53	117.36	115.78	112.78	111.58	111.68	111.21	110.88	
22	110.71	110.31	110.63	112.41	111.39	117.79	115.38	112.61	111.55	111.65	111.20	110.84	
23	110.66	110.33	110.65	112.34	111.58	118.07	114.71	112.52	111.52	111.61	111.18	110.80	
24	110.61	110.37	110.68	112.32	112.00	118.37	115.00	112.76	111.52	111.60	111.18	110.83	
25	110.57	110.37	110.72	112.37	112.62	118.72	115.50	112.67	111.53	111.58	111.17	110.83	
26	110.52	110.37	110.81	112.41	113.48	119.02	116.09	112.56	111.53	111.56	111.16	110.83	
27	110.48	110.36	110.86	112.41	114.01	119.20	115.84	112.46	111.53	111.55	111.15	110.83	
28	110.46	110.54	112.46	112.35	113.85	119.24	115.54	112.41	111.57	111.54	111.15	110.83	
29	110.43	110.63	113.88	112.35	113.53	119.12	115.50	112.33	111.74	111.52		110.83	
30	110.41	110.65	116.98	112.35	113.77	119.38	115.48	112.24	111.60	111.52		111.12	
31		110.58		112.07	114.70		115.21		111.55	111.51		111.12	
Mean	110.51	110.37	110.92	113.95	112.45	117.39	117.68	113.47	111.95	111.61	111.31	110.98	
Max	110.78	110.65	116.98	117.45	114.70	119.38	120.79	114.93	112.73	111.70	111.51	111.13	120.79
Min	110.35	110.30	110.38	112.07	111.39	114.18	114.71	112.24	111.52	111.51	111.15	110.80	110.30

Annual Max Momentary Gage Height 120.80 m. (MSL.) , at 06.00 Hours, on Oct 6, 2016

Zero Gage at Bottom Elevation 110.20 m. (MSL.) , River Bed 109.73 m. (MSL.)

Left Bank Elevation 123.85 m. (MSL.) ,

Right Bank Elevation 123.59 m. (MSL.) , Drainage Are 3,131 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.64	1.30	148.50	14.80	90.00	232.80	71.50	16.40	10.50	10.00	6.30	
2	0.51	0.60	1.15	143.70	15.00	96.90	244.80	63.75	16.30	10.40	10.00	6.20	
3	0.51	0.57	1.00	122.10	13.40	87.60	256.40	59.00	16.40	10.60	10.10	6.10	
4	0.51	0.54	0.88	101.10	12.60	68.25	266.00	54.25	16.30	10.60	10.00	6.10	
5	0.48	0.51	0.80	85.20	16.70	55.50	272.80	49.20	16.30	10.60	9.80	6.20	
6	0.48	0.48	0.80	72.00	25.20	54.50	273.60	45.80	16.00	10.70	9.40	5.90	
7	0.45	0.45	0.80	63.00	29.40	73.00	268.00	43.20	15.60	10.80	9.20	5.50	
8	0.45	0.45	0.80	61.25	29.60	92.70	258.00	42.40	14.30	11.00	9.00	5.20	
9	0.57	0.42	0.80	60.50	27.40	113.40	247.20	41.80	13.40	11.10	8.70	5.20	
10	0.57	0.36	0.72	60.00	25.00	123.00	237.60	40.60	15.30	11.20	8.00	5.10	
11	0.64	0.30	0.60	59.25	23.55	137.10	229.60	47.20	19.95	11.30	7.90	5.10	
12	0.80	0.30	0.54	56.75	18.90	150.35	216.80	73.25	22.50	11.50	7.90	5.10	
13	0.92	0.33	0.54	55.00	16.60	161.55	186.05	67.25	24.60	11.70	8.00	5.20	
14	1.05	0.36	0.57	63.50	15.10	193.40	156.65	61.00	23.25	12.00	8.10	4.50	
15	1.30	0.36	0.57	74.00	14.00	211.20	139.50	55.50	21.60	12.00	8.10	4.40	
16	1.55	0.30	0.92	67.50	12.70	212.00	128.70	48.40	18.45	12.00	8.10	4.40	
17	1.80	0.30	1.20	53.50	12.00	204.60	121.20	39.60	15.20	12.00	8.00	5.30	
18	2.10	0.30	1.10	43.00	11.20	187.45	118.20	33.20	13.10	12.00	7.70	5.20	
19	2.70	0.30	1.05	36.60	10.90	160.15	114.90	31.60	12.10	12.00	7.50	5.00	
20	2.80	0.30	1.35	30.40	10.50	144.90	109.80	29.20	11.40	12.00	7.30	4.00	
21	2.50	0.30	1.30	24.20	10.30	145.80	98.40	25.60	10.80	11.80	7.10	3.80	
22	2.10	0.33	1.65	19.65	8.90	160.15	86.40	22.65	10.50	11.50	7.00	3.40	
23	1.80	0.39	1.75	18.60	10.80	169.95	67.75	21.30	10.20	11.10	6.80	3.00	
24	1.55	0.51	1.90	18.30	15.00	180.45	75.00	25.20	10.20	11.00	6.80	3.30	
25	1.35	0.51	2.20	19.05	22.80	192.70	90.00	23.55	10.30	10.80	6.70	3.30	
26	1.10	0.51	3.10	19.65	39.60	203.20	107.70	21.90	10.30	10.60	6.60	3.30	
27	0.92	0.48	3.60	19.65	50.25	210.00	100.20	20.40	10.30	10.50	6.50	3.30	
28	0.84	1.20	20.40	18.75	47.00	211.60	91.20	19.65	10.70	10.40	6.50	3.30	
29	0.72	1.65	47.60	18.75	40.60	206.80	90.00	18.45	12.40	10.20		3.30	
30	0.64	1.75	134.40	18.75	45.40	217.20	89.40	17.40	11.00	10.20		6.20	
31		1.40		15.70	67.50		81.30		10.50	10.10		6.20	
Total	34.22	17.20	235.39	1667.90	712.70	4515.40	5055.95	1213.80	455.65	344.20	226.80	148.40	14627.61	CMSDAY
Mean	1.14	0.55	7.85	53.80	22.99	150.51	163.10	40.46	14.70	11.10	8.10	4.79	40.08	CMS
Max	2.80	1.75	134.40	148.50	67.50	217.20	273.60	73.25	24.60	12.00	10.10	6.30	273.60	CMS
Min	0.45	0.30	0.54	15.70	8.90	54.50	67.75	17.40	10.20	10.10	6.50	3.00	0.30	CMS
Runoff	2.96	1.49	20.34	144.11	61.58	390.13	436.83	104.87	39.37	29.74	19.60	12.82	1263.83	MCM

Momentary Peak 274.00 CMS, at 120.80 m. (MSL.), at 06.00 Hours, on Oct 6, 2016

Runoff Yield 12.80 Liters/Second/Square KM. Momentary Peak Yield 87.510 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge.

	Ban Non Sawang	**Amphoe** Si Khiu	**Changwat** Nakhon Ratchasima
Drainge Area	1,519 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+236.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +243.940 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

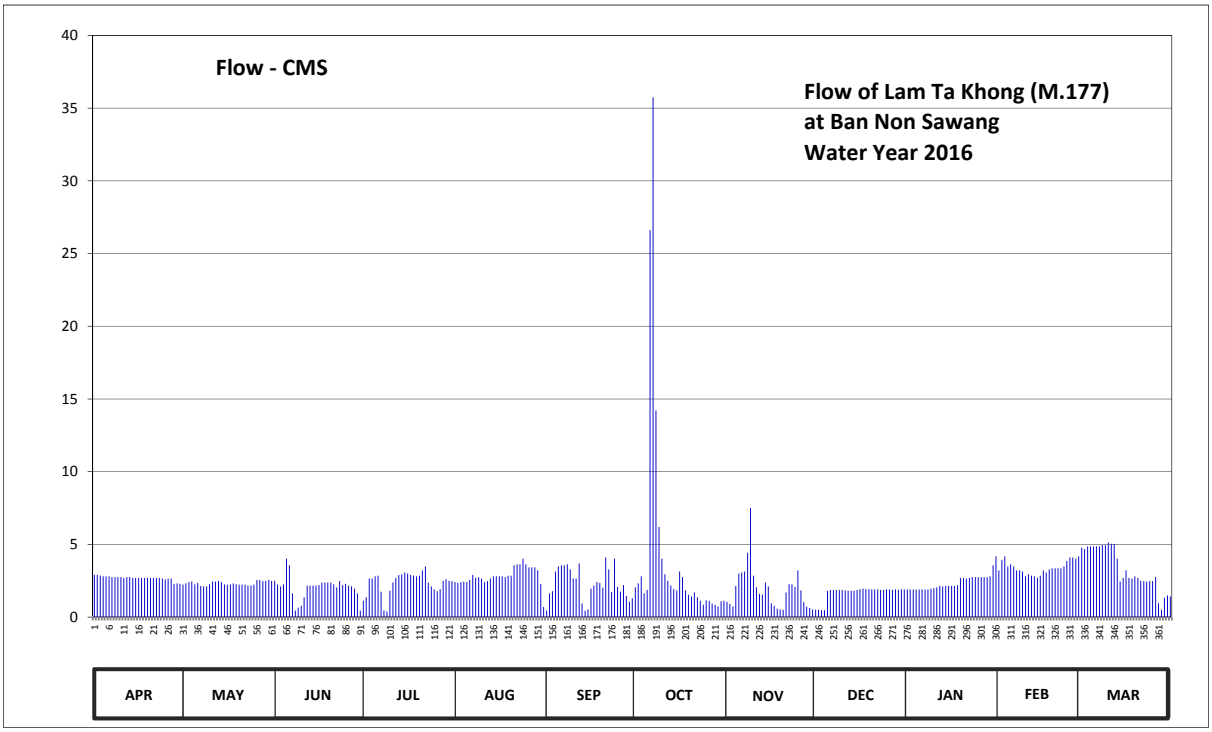
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	238.98	238.81	238.90	238.44	238.87	238.15	238.75	238.42	238.20	238.70	239.03	239.23	
2	238.98	238.84	238.81	238.52	238.85	238.61	238.84	238.36	238.20	238.70	239.13	239.22	
3	238.97	238.87	238.77	238.93	238.87	238.66	238.96	238.29	238.17	238.70	239.16	239.24	
4	238.96	238.88	238.82	238.93	238.88	239.02	238.61	238.78	238.17	238.70	239.07	239.24	
5	238.96	238.82	239.14	238.96	238.87	239.07	238.69	239.00	238.67	238.70	239.09	239.24	
6	238.96	238.85	239.08	238.97	238.91	239.08	240.57	239.01	238.69	238.70	239.07	239.24	
7	238.95	238.78	238.61	238.65	238.98	239.08	241.02	239.02	238.69	238.70	239.03	239.24	
8	238.95	238.77	238.15	238.16	238.94	239.09	239.96	239.19	238.69	238.70	239.03	239.25	
9	238.95	238.77	238.26	238.08	238.95	239.04	239.39	239.53	238.69	238.72	239.02	239.25	
10	238.95	238.82	238.31	238.67	238.93	238.93	239.14	238.97	238.69	238.73	238.96	239.27	
11	238.94	238.88	238.52	238.86	238.87	238.93	238.99	238.75	238.68	238.75	238.99	239.26	
12	238.95	238.88	238.79	238.94	238.89	239.10	238.90	238.60	238.67	238.78	238.97	239.26	
13	238.95	238.89	238.79	238.98	238.93	238.37	238.79	238.58	238.67	238.77	238.96	239.14	
14	238.94	238.87	238.79	238.99	238.96	238.14	238.71	238.86	238.67	238.78	238.94	238.88	
15	238.94	238.82	238.79	239.01	238.96	238.21	238.68	238.77	238.69	238.78	238.97	238.94	
16	238.94	238.81	238.80	239.00	238.96	238.72	239.02	238.38	238.71	238.78	239.03	239.03	
17	238.94	238.82	238.86	238.98	238.96	238.79	238.95	238.31	238.72	238.78	239.01	238.94	
18	238.94	238.84	238.86	238.97	238.95	238.87	238.68	238.23	238.71	238.80	239.04	238.93	
19	238.94	238.82	238.86	238.96	238.97	238.85	238.58	238.21	238.71	238.94	239.05	238.96	
20	238.94	238.81	238.86	238.97	238.97	238.74	238.54	238.20	238.70	238.94	239.05	238.94	
21	238.94	238.81	238.82	239.03	239.08	239.15	238.63	238.63	238.70	238.93	239.05	238.90	
22	238.94	238.81	238.75	239.07	239.09	239.04	238.52	238.82	238.70	238.94	239.05	238.89	
23	238.94	238.79	238.89	238.86	239.09	238.64	238.44	238.82	238.69	238.95	239.07	238.88	
24	238.93	238.79	238.80	238.77	239.14	239.14	238.34	238.76	238.69	238.95	239.12	238.89	
25	238.92	238.81	238.83	238.70	239.09	238.76	238.45	239.03	238.70	238.95	239.15	238.89	
26	238.93	238.91	238.79	238.66	239.06	238.65	238.44	238.68	238.70	238.95	239.15	238.95	
27	238.93	238.91	238.77	238.71	239.06	238.80	238.37	238.41	238.69	238.95	239.14	238.38	
28	238.83	238.89	238.72	238.90	239.06	238.55	238.33	238.29	238.70	238.95	239.16	238.19	
29	238.84	238.89	238.61	238.92	239.03	238.42	238.29	238.25	238.69	238.96		238.51	
30	238.83	238.91	238.15	238.90	238.83	238.50	238.43	238.21	238.70	239.08		238.56	
31		238.90		238.89	238.28		238.44		238.70	239.16		238.54	
Mean	238.94	238.84	238.73	238.82	238.94	238.77	238.85	238.65	238.63	238.84	239.05	238.98	
Max	238.98	238.91	239.14	239.07	239.14	239.15	241.02	239.53	238.72	239.16	239.16	239.27	241.02
Min	238.83	238.77	238.15	238.08	238.28	238.14	238.29	238.20	238.17	238.70	238.94	238.19	238.08

Annual Max Momentary Gage Height 241.72 m. (MSL.) , at 15.00 Hours, on Oct 7, 2016

Zero Gage at Bottom Elevation 236.70 m. (MSL.) , River Bed 237.30 m. (MSL.)

Left Bank Elevation 243.97 m. (MSL.) ,

Right Bank Elevation 243.94 m. (MSL.) , Drainage Are 1,519 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	2.23	2.50	1.12	2.41	0.45	2.05	1.06	0.50	1.90	3.21	4.77	
2	2.90	2.32	2.23	1.36	2.35	1.63	2.32	0.90	0.50	1.90	3.94	4.68	
3	2.85	2.41	2.11	2.65	2.41	1.78	2.80	0.73	0.47	1.90	4.18	4.86	
4	2.80	2.44	2.26	2.65	2.44	3.14	1.63	2.14	0.47	1.90	3.49	4.86	
5	2.80	2.26	4.02	2.80	2.41	3.49	1.87	3.00	1.81	1.90	3.63	4.86	
6	2.80	2.35	3.56	2.85	2.55	3.56	26.61	3.07	1.87	1.90	3.49	4.86	
7	2.75	2.14	1.63	1.75	2.90	3.56	35.75	3.14	1.87	1.90	3.21	4.86	
8	2.75	2.11	0.45	0.46	2.70	3.63	14.22	4.42	1.87	1.90	3.21	4.95	
9	2.75	2.11	0.65	0.38	2.75	3.28	6.21	7.50	1.87	1.96	3.14	4.95	
10	2.75	2.26	0.78	1.81	2.65	2.65	4.02	2.85	1.87	1.99	2.80	5.13	
11	2.70	2.44	1.36	2.38	2.41	2.65	2.95	2.05	1.84	2.05	2.95	5.04	
12	2.75	2.44	2.17	2.70	2.47	3.70	2.50	1.60	1.81	2.14	2.85	5.04	
13	2.75	2.47	2.17	2.90	2.65	0.93	2.17	1.54	1.81	2.11	2.80	4.02	
14	2.70	2.41	2.17	2.95	2.80	0.44	1.93	2.38	1.81	2.14	2.70	2.44	
15	2.70	2.26	2.17	3.07	2.80	0.53	1.84	2.11	1.87	2.14	2.85	2.70	
16	2.70	2.23	2.20	3.00	2.80	1.96	3.14	0.95	1.93	2.14	3.21	3.21	
17	2.70	2.26	2.38	2.90	2.80	2.17	2.75	0.78	1.96	2.14	3.07	2.70	
18	2.70	2.32	2.38	2.85	2.75	2.41	1.84	0.58	1.93	2.20	3.28	2.65	
19	2.70	2.26	2.38	2.80	2.85	2.35	1.54	0.53	1.93	2.70	3.35	2.80	
20	2.70	2.23	2.38	2.85	2.85	2.02	1.42	0.50	1.90	2.70	3.35	2.70	
21	2.70	2.23	2.26	3.21	3.56	4.10	1.69	1.69	1.90	2.65	3.35	2.50	
22	2.70	2.23	2.05	3.49	3.63	3.28	1.36	2.26	1.90	2.70	3.35	2.47	
23	2.70	2.17	2.47	2.38	3.63	1.72	1.12	2.26	1.87	2.75	3.49	2.44	
24	2.65	2.17	2.20	2.11	4.02	4.02	0.85	2.08	1.87	2.75	3.86	2.47	
25	2.60	2.23	2.29	1.90	3.63	2.08	1.15	3.21	1.90	2.75	4.10	2.47	
26	2.65	2.55	2.17	1.78	3.42	1.75	1.12	1.84	1.90	2.75	4.10	2.75	
27	2.65	2.55	2.11	1.93	3.42	2.20	0.93	1.03	1.87	2.75	4.02	0.95	
28	2.29	2.47	1.96	2.50	3.42	1.45	0.83	0.73	1.90	2.75	4.18	0.49	
29	2.32	2.47	1.63	2.60	3.21	1.06	0.73	0.63	1.87	2.80		1.33	
30	2.29	2.55	0.45	2.50	2.29	1.30	1.09	0.53	1.90	3.56		1.48	
31		2.50		2.47	0.70		1.12		1.90	4.18		1.42	
Total	80.70	72.07	61.54	73.10	87.68	69.29	131.55	58.09	52.67	74.00	95.16	102.85	958.70	CMSDAY
Mean	2.69	2.32	2.05	2.36	2.83	2.31	4.24	1.94	1.70	2.39	3.40	3.32	2.63	CMS
Max	2.90	2.55	4.02	3.49	4.02	4.10	35.75	7.50	1.96	4.18	4.18	5.13	35.75	CMS
Min	2.29	2.11	0.45	0.38	0.70	0.44	0.73	0.50	0.47	1.90	2.70	0.49	0.38	CMS
Runoff	6.97	6.23	5.32	6.32	7.58	5.99	11.37	5.02	4.55	6.39	8.22	8.89	82.83	MCM

Momentary Peak 51.00 CMS, at 241.72 m. (MSL.), at 15.00 Hours, on Oct 7, 2016

Runoff Yield 1.73 Liters/Second/Square KM. Momentary Peak Yield 33.570 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani (M.179A)

Lat 15 - 30 - 12 N Long 104 - 35 - 41 E

Location : on right bank at the bridge.

	Ban Pa Kor	**Amphoe** Khueang Nai	**Changwat** Ubon Ratchathani
Drainge Area	3,546 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+109.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +123.400 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 45 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

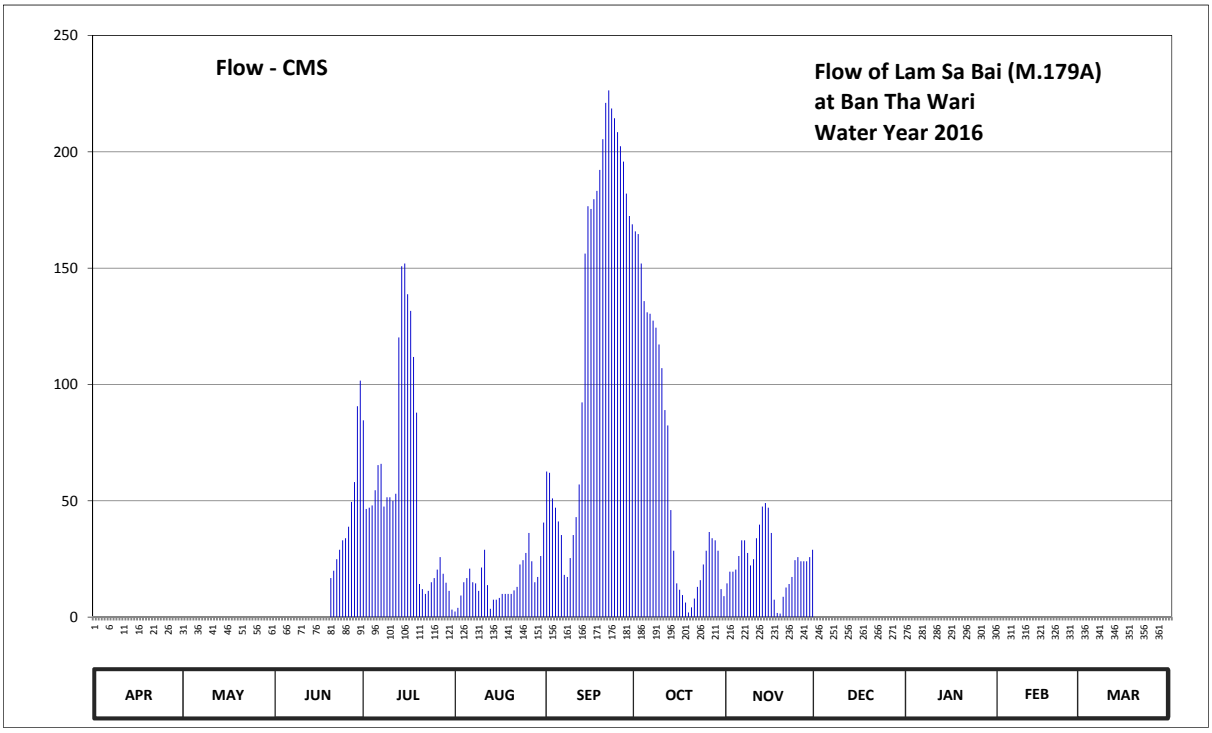
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	113.14	112.98	113.12	114.81	112.84	114.41	116.18	113.38	113.75	113.19	112.61	112.50	
2	113.14	112.97	113.15	114.09	112.95	114.40	116.16	113.50	113.60	113.19	112.60	112.50	
3	113.14	112.95	113.16	114.10	113.17	114.18	115.95	113.50	113.55	113.17	112.60	112.50	
4	113.14	112.94	113.16	114.12	113.40	114.10	115.68	113.52	113.50	113.15	112.60	112.50	
5	113.14	112.92	113.16	114.25	113.44	113.98	115.60	113.65	113.50	113.14	112.58	112.50	
6	113.10	112.88	113.18	114.46	113.53	113.85	115.59	113.80	113.50	113.12	112.56	112.50	
7	113.10	112.86	113.18	114.47	113.40	113.47	115.54	113.80	113.50	113.10	112.56	112.50	
8	113.10	112.85	113.20	114.11	113.38	113.45	115.49	113.68	113.50	113.09	112.55	112.50	
9	113.09	112.85	113.22	114.19	113.25	113.63	115.37	113.56	113.50	113.07	112.54	112.50	
10	113.05	112.85	113.22	114.19	113.54	113.85	115.20	113.62	113.50	113.04	112.54	112.50	
11	113.06	112.84	113.24	114.16	113.71	114.02	114.89	113.82	113.50	113.02	112.53	112.50	
12	113.06	112.84	113.24	114.22	113.35	114.30	114.77	113.95	113.50	112.99	112.52	112.54	
13	113.06	112.84	113.28	115.42	112.93	114.95	114.08	114.11	113.50	112.98	112.52	112.52	
14	113.04	112.84	113.30	115.93	113.10	116.02	113.70	114.14	113.50	112.94	112.52	112.51	
15	113.02	112.84	113.30	115.95	113.10	116.36	113.38	114.10	113.50	112.90	112.52	112.50	
16	113.02	112.85	113.34	115.73	113.13	116.34	113.27	113.87	113.48	112.88	112.52	112.48	
17	113.00	112.85	113.38	115.61	113.20	116.41	113.18	113.10	113.48	112.87	112.52	112.48	
18	113.00	112.85	113.40	115.28	113.20	116.47	113.05	112.78	113.46	112.83	112.51	112.47	
19	113.00	112.85	113.40	114.87	113.20	116.62	112.80	112.75	113.39	112.79	112.51	112.44	
20	113.00	112.85	113.44	113.37	113.20	116.84	112.96	113.15	113.36	112.74	112.51	112.44	
21	113.06	112.88	113.51	113.28	113.26	117.10	113.12	113.31	113.35	112.70	112.51	112.42	
22	113.06	112.90	113.62	113.20	113.32	117.19	113.32	113.37	113.34	112.68	112.51	112.41	
23	113.06	112.92	113.71	113.25	113.57	117.06	113.42	113.45	113.30	112.66	112.51	112.41	
24	113.04	112.95	113.80	113.40	113.61	116.99	113.57	113.61	113.30	112.66	112.51	112.40	
25	113.02	112.96	113.82	113.44	113.68	116.89	113.70	113.64	113.29	112.65	112.51	112.42	
26	113.02	112.96	113.93	113.52	113.87	116.79	113.88	113.60	113.28	112.64	112.51	112.48	
27	113.00	113.00	114.15	113.64	113.60	116.68	113.82	113.60	113.26	112.64	112.50	112.50	
28	113.00	113.02	114.32	113.48	113.40	116.45	113.80	113.60	113.26	112.63	112.50	112.50	
29	113.00	113.04	114.92	113.39	113.45	116.29	113.70	113.64	113.26	112.63		112.50	
30	113.00	113.06	115.11	113.25	113.65	116.23	113.28	113.71	113.24	112.62		112.52	
31		113.12		112.91	113.97		113.16		113.18	112.62		112.52	
Mean	113.06	112.91	113.53	114.20	113.37	115.51	114.25	113.58	113.42	112.88	112.54	112.48	
Max	113.14	113.12	115.11	115.95	113.97	117.19	116.18	114.14	113.75	113.19	112.61	112.54	117.19
Min	113.00	112.84	113.12	112.91	112.84	113.45	112.80	112.75	113.18	112.62	112.50	112.40	112.40

Annual Max Momentary Gage Height 117.20 m. (MSL.) , at 06.00 Hours, on Sep 22, 2016

Zero Gage at Bottom Elevation 109.80 m. (MSL.) , River Bed 109.46 m. (MSL.) ,

Left Bank Elevation 123.14 m. (MSL.) ,

Right Bank Elevation 123.12 m. (MSL.) , Drainage Are 3,546 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	84.55	2.40	62.55	165.80	14.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	46.50	4.00	62.00	164.60	19.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	47.00	9.25	51.00	152.00	19.50	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	48.00	15.00	47.00	135.80	20.40	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	54.50	16.80	41.10	131.00	26.25	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	65.30	20.85	35.25	130.40	33.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	65.85	15.00	18.15	127.40	33.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	47.50	14.50	17.25	124.40	27.60	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	51.50	11.25	25.35	117.20	22.20	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	51.50	21.30	35.25	107.00	24.90	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	50.00	28.95	43.00	88.95	33.90	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	53.00	13.75	57.00	82.35	39.75	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	120.20	3.60	92.25	46.00	47.50	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	150.80	7.50	156.20	28.50	49.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	152.00	7.50	176.60	14.50	47.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	138.80	8.25	175.40	11.75	36.15	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	131.60	10.00	179.60	9.50	7.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	111.80	10.00	183.20	6.25	1.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	87.85	10.00	192.20	2.00	1.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	16.80	14.25	10.00	205.40	4.20	8.75	0.00	0.00	0.00	0.00	
21	0.00	0.00	19.95	12.00	11.50	221.00	8.00	12.75	0.00	0.00	0.00	0.00	
22	0.00	0.00	24.90	10.00	13.00	226.40	13.00	14.25	0.00	0.00	0.00	0.00	
23	0.00	0.00	28.95	11.25	22.65	218.60	15.90	17.25	0.00	0.00	0.00	0.00	
24	0.00	0.00	33.00	15.00	24.45	214.40	22.65	24.45	0.00	0.00	0.00	0.00	
25	0.00	0.00	33.90	16.80	27.60	208.40	28.50	25.80	0.00	0.00	0.00	0.00	
26	0.00	0.00	38.85	20.40	36.15	202.40	36.60	24.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	49.50	25.80	24.00	195.80	33.90	24.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	58.00	18.60	15.00	182.00	33.00	24.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	90.60	14.75	17.25	172.40	28.50	25.80	0.00	0.00		0.00	
30	0.00	0.00	101.60	11.25	26.25	168.80	12.00	28.95	0.00	0.00		0.00	
31		0.00		3.20	40.65		9.00		0.00	0.00		0.00	
Total	0.00	0.00	496.05	1731.55	498.40	3865.95	1890.65	734.95	0.00	0.00	0.00	0.00	9217.55	CMSDAY
Mean	0.00	0.00	16.54	55.86	16.08	128.87	60.99	24.50	0.00	0.00	0.00	0.00	25.25	CMS
Max	0.00	0.00	101.60	152.00	40.65	226.40	165.80	49.00	0.00	0.00	0.00	0.00	226.40	CMS
Min	0.00	0.00	0.00	3.20	2.40	17.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	42.86	149.61	43.06	334.02	163.35	63.50	0.00	0.00	0.00	0.00	796.40	MCM

Momentary Peak 227.00 CMS, at 117.20 m. (MSL.), at 06.00 Hours, on Sep 22, 2016

Runoff Yield 7.12 Liters/Second/Square KM. Momentary Peak Yield 64.020 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Phra Phloeng at Ban Tha Yiam, Nakhon Ratchasima (M.180)

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

Location : on left bank at Ban Tha Yiam

Ban Tha Yiam **Amphoe** Pak Thong Chai **Changwat** Nakhon Ratchasima

Drainge Area	864 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	219.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the footpath of the bridge. **Elevation** +227.886 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Flot	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurement made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 201

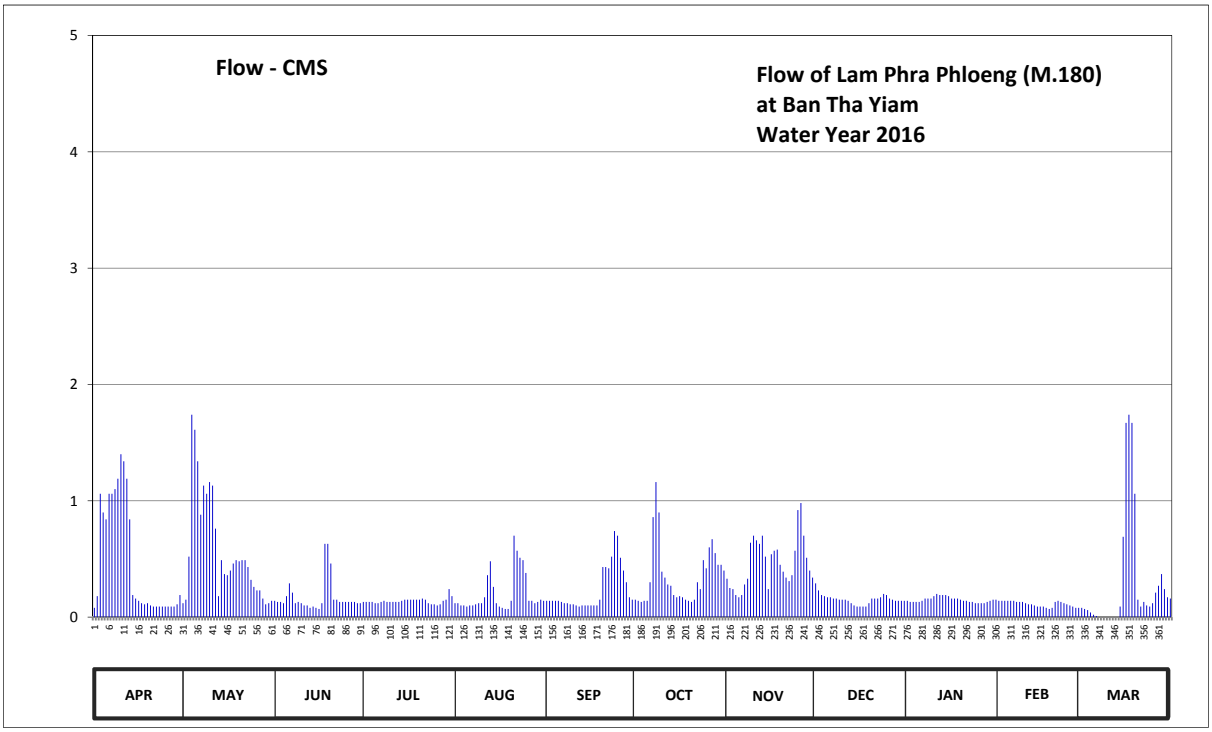
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	219.51	219.64	219.68	219.67	219.65	219.68	219.70	219.93	219.89	219.68	219.69	219.51	
2	219.77	219.70	219.66	219.67	219.64	219.68	219.68	219.85	219.83	219.67	219.69	219.47	
3	220.38	220.08	219.67	219.67	219.60	219.68	219.67	219.84	219.78	219.67	219.69	219.44	
4	220.30	220.61	219.65	219.67	219.60	219.68	219.69	219.79	219.76	219.66	219.68	219.38	
5	220.27	220.57	219.76	219.65	219.58	219.68	219.69	219.75	219.75	219.66	219.68	219.29	
6	220.38	220.48	219.89	219.65	219.60	219.67	219.90	219.78	219.74	219.69	219.68	219.23	
7	220.38	220.29	219.81	219.66	219.60	219.65	220.28	219.88	219.72	219.72	219.67	219.20	
8	220.40	220.41	219.64	219.68	219.63	219.65	220.42	219.93	219.72	219.72	219.67	219.20	
9	220.43	220.38	219.66	219.67	219.65	219.62	220.30	220.16	219.71	219.72	219.66	219.20	
10	220.50	220.42	219.65	219.66	219.65	219.62	219.99	220.20	219.70	219.76	219.65	219.20	
11	220.48	220.41	219.60	219.66	219.74	219.60	219.94	220.17	219.70	219.80	219.63	219.20	
12	220.43	220.23	219.59	219.66	219.96	219.58	219.88	220.15	219.69	219.79	219.62	219.20	
13	220.27	219.77	219.54	219.66	220.05	219.60	219.87	220.20	219.64	219.79	219.60	219.20	
14	219.78	220.06	219.56	219.68	219.86	219.60	219.78	220.08	219.59	219.79	219.58	219.57	
15	219.72	219.97	219.52	219.70	219.64	219.60	219.74	219.84	219.55	219.77	219.57	220.19	
16	219.69	219.96	219.48	219.70	219.57	219.60	219.77	220.09	219.55	219.73	219.55	220.59	
17	219.64	220.00	219.65	219.70	219.54	219.60	219.74	220.11	219.55	219.73	219.52	220.62	
18	219.63	220.04	220.15	219.70	219.50	219.60	219.71	220.12	219.57	219.72	219.49	220.59	
19	219.65	220.06	220.15	219.70	219.50	219.71	219.68	220.03	219.65	219.70	219.53	220.38	
20	219.59	220.05	220.04	219.71	219.68	220.02	219.66	219.99	219.72	219.68	219.67	219.70	
21	219.56	220.06	219.70	219.73	220.20	220.02	219.71	219.94	219.73	219.68	219.68	219.58	
22	219.56	220.06	219.71	219.70	220.11	220.01	219.90	219.91	219.73	219.67	219.66	219.66	
23	219.55	220.02	219.67	219.65	220.07	220.08	219.84	219.96	219.75	219.66	219.64	219.60	
24	219.55	219.92	219.67	219.63	220.06	220.22	220.06	220.11	219.80	219.65	219.62	219.58	
25	219.55	219.86	219.67	219.62	219.98	220.20	220.01	220.31	219.79	219.64	219.60	219.64	
26	219.55	219.83	219.67	219.60	219.68	220.07	220.13	220.34	219.73	219.65	219.58	219.81	
27	219.55	219.83	219.66	219.63	219.68	220.00	220.18	220.20	219.71	219.65	219.54	219.87	
28	219.55	219.73	219.66	219.69	219.65	219.90	220.10	220.07	219.68	219.66	219.52	219.97	
29	219.62	219.63	219.65	219.70	219.67	219.75	220.03	220.00	219.69	219.68		219.84	
30	219.79	219.65	219.65	219.84	219.70	219.70	220.03	219.94	219.69	219.70		219.75	
31		219.68		219.76	219.68		220.00		219.68	219.70		219.73	
Mean	219.90	220.05	219.70	219.68	219.73	219.77	219.91	220.02	219.70	219.70	219.62	219.66	
Max	220.50	220.61	220.15	219.84	220.20	220.22	220.42	220.34	219.89	219.80	219.69	220.62	220.62
Min	219.51	219.63	219.48	219.60	219.50	219.58	219.66	219.75	219.55	219.64	219.49	219.20	219.20

Annual Max Momentary Gage Height 220.62 m. (MSL.) , at 06.00 Hours, on May 4, 2016

Zero Gage at Bottom Elevation 219.20 m. (MSL.) , River Bed 218.98 m. (MSL.)

Left Bank Elevation 227.50 m. (MSL.) ,

Right Bank Elevation 227.63 m. (MSL.) , Drainage Are 864 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.12	0.14	0.13	0.12	0.14	0.15	0.33	0.29	0.14	0.14	0.08		
2	0.18	0.15	0.13	0.13	0.12	0.14	0.14	0.25	0.23	0.13	0.14	0.07		
3	1.06	0.52	0.13	0.13	0.10	0.14	0.13	0.24	0.19	0.13	0.14	0.06		
4	0.90	1.74	0.12	0.13	0.10	0.14	0.14	0.19	0.18	0.13	0.14	0.04		
5	0.84	1.61	0.18	0.12	0.09	0.14	0.14	0.17	0.17	0.13	0.14	0.02		
6	1.06	1.34	0.29	0.12	0.10	0.13	0.30	0.19	0.17	0.14	0.14	0.01		
7	1.06	0.88	0.21	0.13	0.10	0.12	0.86	0.28	0.16	0.16	0.13	0.00		
8	1.10	1.13	0.12	0.14	0.11	0.12	1.16	0.33	0.16	0.16	0.13	0.00		
9	1.19	1.06	0.13	0.13	0.12	0.11	0.90	0.64	0.15	0.16	0.13	0.00		
10	1.40	1.16	0.12	0.13	0.12	0.11	0.39	0.70	0.15	0.18	0.12	0.00		
11	1.34	1.13	0.10	0.13	0.17	0.10	0.34	0.66	0.15	0.20	0.11	0.00		
12	1.19	0.76	0.10	0.13	0.36	0.09	0.28	0.63	0.14	0.19	0.11	0.00		
13	0.84	0.18	0.08	0.13	0.48	0.10	0.27	0.70	0.12	0.19	0.10	0.00		
14	0.19	0.49	0.09	0.14	0.26	0.10	0.19	0.52	0.10	0.19	0.09	0.09		
15	0.16	0.37	0.08	0.15	0.12	0.10	0.17	0.24	0.09	0.18	0.09	0.69		
16	0.14	0.36	0.07	0.15	0.09	0.10	0.18	0.54	0.09	0.16	0.09	1.67		
17	0.12	0.40	0.12	0.15	0.08	0.10	0.17	0.57	0.09	0.16	0.08	1.74		
18	0.11	0.46	0.63	0.15	0.07	0.10	0.15	0.58	0.09	0.16	0.07	1.67		
19	0.12	0.49	0.63	0.15	0.07	0.15	0.14	0.45	0.12	0.15	0.08	1.06		
20	0.10	0.48	0.46	0.15	0.14	0.43	0.13	0.39	0.16	0.14	0.13	0.15		
21	0.09	0.49	0.15	0.16	0.70	0.43	0.15	0.34	0.16	0.14	0.14	0.09		
22	0.09	0.49	0.15	0.15	0.57	0.42	0.30	0.31	0.16	0.13	0.13	0.13		
23	0.09	0.43	0.13	0.12	0.51	0.52	0.24	0.36	0.17	0.13	0.12	0.10		
24	0.09	0.32	0.13	0.11	0.49	0.74	0.49	0.57	0.20	0.12	0.11	0.09		
25	0.09	0.26	0.13	0.11	0.38	0.70	0.42	0.92	0.19	0.12	0.10	0.12		
26	0.09	0.23	0.13	0.10	0.14	0.51	0.60	0.98	0.16	0.12	0.09	0.21		
27	0.09	0.23	0.13	0.11	0.14	0.40	0.67	0.70	0.15	0.12	0.08	0.27		
28	0.09	0.16	0.13	0.14	0.12	0.30	0.55	0.51	0.14	0.13	0.08	0.37		
29	0.11	0.11	0.12	0.15	0.13	0.17	0.45	0.40	0.14	0.14		0.24		
30	0.19	0.12	0.12	0.24	0.15	0.15	0.45	0.34	0.14	0.15		0.17		
31		0.14		0.18	0.14		0.40		0.14	0.15		0.16		
Total	14.20	17.81	5.25	4.29	6.39	7.00	11.05	14.03	4.75	4.63	3.15	9.30	101.85	CMSDAY
Mean	0.47	0.57	0.17	0.14	0.21	0.23	0.36	0.47	0.15	0.15	0.11	0.30	0.28	CMS
Max	1.40	1.74	0.63	0.24	0.70	0.74	1.16	0.98	0.29	0.20	0.14	1.74	1.74	CMS
Min	0.08	0.11	0.07	0.10	0.07	0.09	0.13	0.17	0.09	0.12	0.07	0.00	0.00	CMS
Runoff	1.23	1.54	0.45	0.37	0.55	0.60	0.95	1.21	0.41	0.40	0.27	0.80	8.80	MCM

Momentary Peak 1.78 CMS, at 220.62 m. (MSL.), at 06.00 Hours, on May 4, 2016

Runoff Yield 0.32 Liters/Second/Square KM. Momentary Peak Yield 2.060 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Si Than **Amphoe** Kanthararom **Changwat** Si Sa Ket

Drainge Area	49,778 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+106.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +119.797 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 75 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

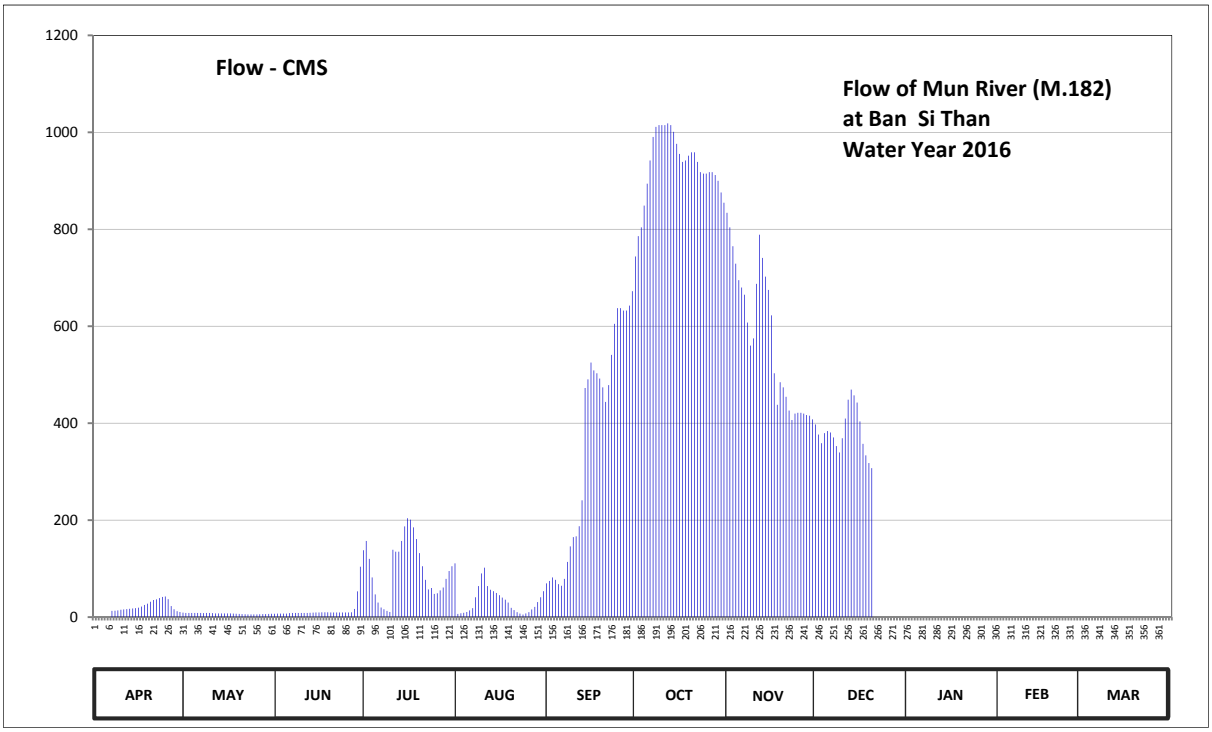
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.09	109.93	109.70	112.08	109.61	111.40	113.83	114.13	112.15	111.44	111.29	110.95	
2	110.10	109.86	109.71	112.20	109.66	111.49	113.97	114.03	112.01	111.45	111.31	110.92	
3	110.12	109.85	109.71	111.95	109.78	111.57	114.03	113.90	111.89	111.45	111.31	110.90	
4	110.12	109.87	109.72	111.57	109.89	111.52	114.18	113.78	112.03	111.45	111.30	110.89	
5	110.14	109.87	109.74	110.99	110.03	111.37	114.33	113.66	112.06	111.47	111.30	110.89	
6	110.14	109.86	109.81	110.68	110.20	111.31	114.49	113.60	112.04	111.50	111.30	110.87	
7	110.15	109.85	109.85	110.49	110.42	111.54	114.63	113.54	111.97	111.53	111.29	110.86	
8	110.16	109.82	109.85	110.31	110.88	111.89	114.69	113.31	111.84	111.55	111.29	110.84	
9	110.20	109.84	109.85	110.14	111.30	112.13	114.70	113.12	111.73	111.56	111.28	110.82	
10	110.25	109.85	109.85	110.03	111.65	112.25	114.70	113.18	111.96	111.57	111.25	110.81	
11	110.29	109.81	109.85	109.89	111.77	112.26	114.70	113.63	112.23	111.57	111.23	110.81	
12	110.32	109.77	109.87	109.85	111.30	112.39	114.71	113.98	112.49	111.57	111.22	110.80	
13	110.35	109.77	109.88	109.85	111.16	112.62	114.70	113.82	112.63	111.56	111.21	110.79	
14	110.39	109.77	109.91	110.07	111.11	112.65	114.66	113.69	112.55	111.55	111.20	110.78	
15	110.43	109.77	109.94	110.37	111.04	112.77	114.59	113.58	112.45	111.54	111.19	110.76	
16	110.48	109.77	109.97	110.54	110.96	112.95	114.53	113.37	112.19	111.52	111.18	110.75	
17	110.53	109.76	109.99	110.51	110.87	112.87	114.48	112.84	111.88	111.50	111.16	110.74	
18	110.59	109.74	109.99	110.35	110.79	112.84	114.49	112.42	111.68	111.50	111.13	110.73	
19	110.64	109.70	109.99	110.11	110.68	112.78	114.52	112.73	111.55	111.50	111.11	110.72	
20	110.71	109.66	109.97	109.82	110.46	112.66	114.54	112.66	111.46	111.50	111.10	110.71	
21	110.78	109.62	109.97	109.55	110.22	112.46	114.54	112.53	111.44	111.50	111.08	110.71	
22	110.80	109.59	109.96	109.27	110.01	112.69	114.48	112.34	111.43	111.51	111.07	110.71	
23	110.85	109.56	109.96	109.07	109.74	113.03	114.41	112.21	111.40	111.52	111.04	110.70	
24	110.89	109.55	109.95	109.10	109.52	113.30	114.40	112.30	111.40	111.51	111.02	110.70	
25	110.91	109.57	109.94	108.98	109.75	113.43	114.40	112.31	111.40	111.49	111.01	110.70	
26	110.81	109.57	109.95	108.99	110.01	113.43	114.41	112.31	111.41	111.46	111.00	110.70	
27	110.55	109.59	110.00	109.05	110.29	113.41	114.41	112.30	111.41	111.44	110.98	110.69	
28	110.30	109.62	110.34	109.11	110.52	113.41	114.39	112.28	111.40	111.43	110.97	110.67	
29	110.11	109.64	111.10	109.29	110.70	113.45	114.35	112.27	111.42	111.41		110.66	
30	110.02	109.67	111.79	109.45	110.88	113.57	114.27	112.22	111.43	111.37		110.67	
31		109.69		109.55	111.11		114.20		111.43	111.30		110.67	
Mean	110.41	109.74	110.00	110.10	110.53	112.51	114.44	113.07	111.82	111.49	111.17	110.77	
Max	110.91	109.93	111.79	112.20	111.77	113.57	114.71	114.13	112.63	111.57	111.31	110.95	114.71
Min	110.02	109.55	109.70	108.98	109.52	111.31	113.83	112.21	111.40	111.30	110.97	110.66	108.98

Annual Max Momentary Gage Height 114.71 m. (MSL.) , at 01.00 Hours, on Oct 12, 2016

Zero Gage at Bottom Elevation 106.50 m. (MSL.) , River Bed 106.30 m. (MSL.)

Left Bank Elevation 119.54 m. (MSL.) ,

Right Bank Elevation 119.63 m. (MSL.) , Drainage Are 49,778 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	9.30	7.00	137.80	111.00	69.50	744.00	834.00	397.50	0.00	0.00	0.00	
2	0.00	8.60	7.10	157.00	6.60	74.45	786.00	804.00	376.50	0.00	0.00	0.00	
3	0.00	8.50	7.10	120.00	7.80	82.00	804.00	765.00	358.80	0.00	0.00	0.00	
4	0.00	8.70	7.20	82.00	8.90	77.00	849.00	729.00	379.50	0.00	0.00	0.00	
5	0.00	8.70	7.40	46.95	10.60	67.85	894.00	695.00	384.00	0.00	0.00	0.00	
6	0.00	8.60	8.10	29.90	14.00	64.55	942.00	680.00	381.00	0.00	0.00	0.00	
7	13.00	8.50	8.50	19.80	18.40	79.00	990.50	665.00	370.50	0.00	0.00	0.00	
8	13.20	8.20	8.50	16.20	40.90	114.00	1011.50	607.50	352.80	0.00	0.00	0.00	
9	14.00	8.40	8.50	12.80	64.00	145.80	1015.00	560.00	339.60	0.00	0.00	0.00	
10	15.00	8.50	8.50	10.60	90.00	165.00	1015.00	575.00	369.00	0.00	0.00	0.00	
11	15.80	8.10	8.50	139.00	102.00	166.60	1015.00	687.50	409.50	0.00	0.00	0.00	
12	16.40	7.70	8.70	135.00	64.00	187.40	1018.50	789.00	448.50	0.00	0.00	0.00	
13	17.00	7.70	8.80	135.00	56.30	241.00	1015.00	741.00	469.50	0.00	0.00	0.00	
14	17.80	7.70	9.10	157.00	53.55	472.50	1001.00	702.50	457.50	0.00	0.00	0.00	
15	18.60	7.70	9.40	187.00	49.70	490.50	976.50	675.00	442.50	0.00	0.00	0.00	
16	19.60	7.70	9.70	204.00	45.30	525.00	955.50	622.50	403.50	0.00	0.00	0.00	
17	21.65	7.60	9.90	201.00	40.35	509.00	939.00	503.00	357.60	0.00	0.00	0.00	
18	24.95	7.40	9.90	185.00	35.95	503.00	942.00	438.00	333.60	0.00	0.00	0.00	
19	27.70	7.00	9.90	161.00	29.90	492.00	952.00	484.50	318.00	0.00	0.00	0.00	
20	31.55	6.60	9.70	132.00	19.20	474.00	959.00	474.00	307.20	0.00	0.00	0.00	
21	35.40	6.20	9.70	105.00	14.40	444.00	959.00	454.50	0.00	0.00	0.00	0.00	
22	36.50	5.90	9.60	77.00	10.20	478.50	939.00	426.00	0.00	0.00	0.00	0.00	
23	39.25	5.60	9.60	57.00	7.40	541.00	918.00	406.50	0.00	0.00	0.00	0.00	
24	41.45	5.50	9.50	60.00	5.20	605.00	915.00	420.00	0.00	0.00	0.00	0.00	
25	42.55	5.70	9.40	48.00	7.50	637.50	915.00	421.50	0.00	0.00	0.00	0.00	
26	37.05	5.70	9.50	49.00	10.20	637.50	918.00	421.50	0.00	0.00	0.00	0.00	
27	22.75	5.90	10.00	55.00	15.80	632.50	918.00	420.00	0.00	0.00	0.00	0.00	
28	16.00	6.20	16.80	61.00	21.10	632.50	912.00	417.00	0.00	0.00	0.00	0.00	
29	12.20	6.40	53.00	79.00	31.00	642.50	900.00	415.50	0.00	0.00		0.00	
30	10.40	6.70	104.00	95.00	40.90	672.50	876.00	408.00	0.00	0.00		0.00	
31		6.90		105.00	53.55		855.00		0.00	0.00		0.00	
Total	559.80	227.90	412.60	3060.05	1085.70	10923.65	28849.50	17242.00	7656.60	0.00	0.00	0.00	70017.80	CMSDAY
Mean	18.66	7.35	13.75	98.71	35.02	364.12	930.63	574.73	246.99	0.00	0.00	0.00	191.83	CMS
Max	42.55	9.30	104.00	204.00	111.00	672.50	1018.50	834.00	469.50	0.00	0.00	0.00	1018.50	CMS
Min	0.00	5.50	7.00	10.60	5.20	64.55	744.00	406.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	48.37	19.69	35.65	264.39	93.80	943.80	2492.60	1489.71	661.53	0.00	0.00	0.00	6049.54	MCM

Momentary Peak 1018.50 CMS, at 114.71 m. (MSL.), at 01.00 Hours, on Oct 12, 2016

Runoff Yield 3.85 Liters/Second/Square KM. Momentary Peak Yield 20.460 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Khlong Hin Lap **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+293.800 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +298.369 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2016 to date
Rating Operation	
Period of Rating	2016 to date
Rated by Flot	-
Rated by Current Meter	2016 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

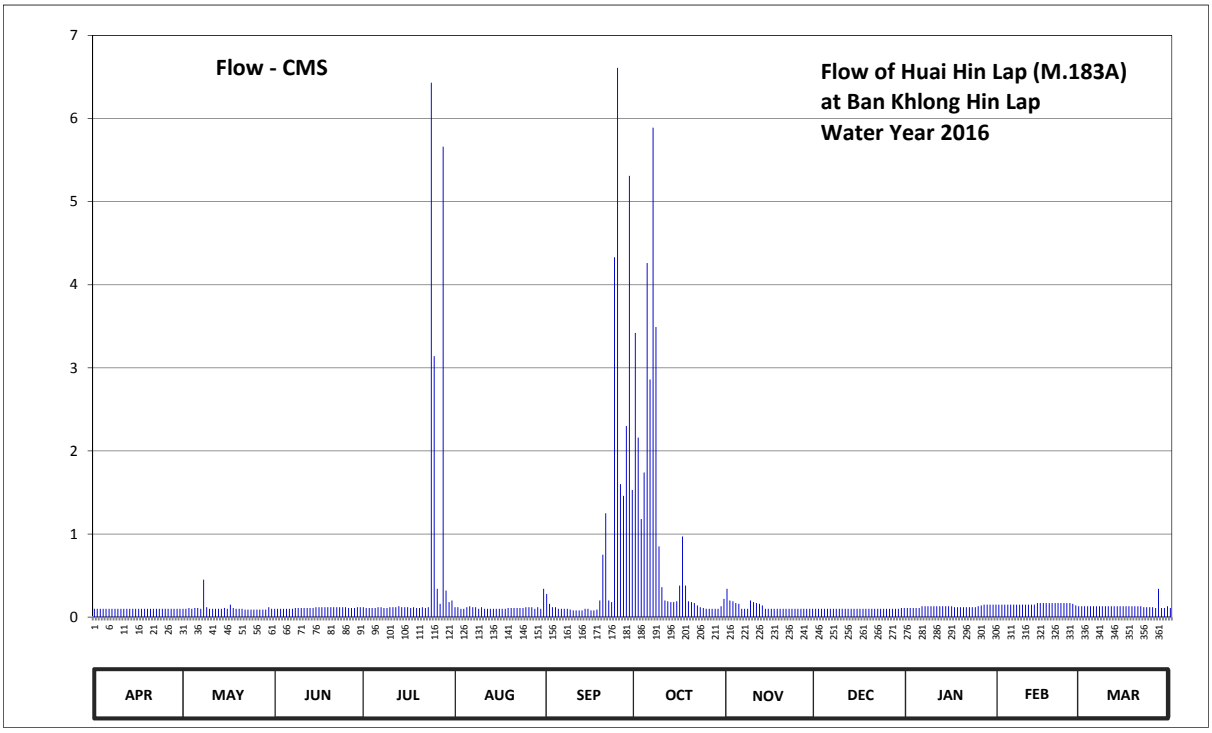
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	294.00	294.00	294.00	294.02	294.02	294.14	294.66	294.17	294.00	294.01	294.05	294.03	
2	294.00	294.00	294.00	294.01	294.02	294.06	294.48	294.10	294.00	294.01	294.05	294.03	
3	294.00	294.01	294.00	294.01	294.00	294.02	294.34	294.09	294.00	294.01	294.05	294.03	
4	294.00	294.00	294.00	294.01	294.00	294.02	294.42	294.07	294.00	294.01	294.05	294.03	
5	294.00	294.01	294.00	294.01	294.02	294.00	294.78	294.06	294.00	294.01	294.05	294.03	
6	294.00	294.01	294.00	294.02	294.03	294.00	294.58	294.00	294.00	294.03	294.05	294.03	
7	294.00	294.00	294.00	294.02	294.02	294.00	295.01	294.00	294.00	294.03	294.05	294.03	
8	294.00	294.21	294.01	294.01	294.02	294.00	294.67	294.00	294.00	294.03	294.05	294.03	
9	294.00	294.02	294.01	294.01	294.00	293.99	294.29	294.10	294.00	294.03	294.05	294.03	
10	294.00	294.00	294.01	294.02	294.02	293.98	294.18	294.08	294.00	294.03	294.05	294.03	
11	294.00	294.00	294.01	294.02	294.00	293.98	294.10	294.07	294.00	294.03	294.05	294.03	
12	294.00	294.00	294.01	294.02	294.00	293.98	294.09	294.06	294.00	294.03	294.05	294.03	
13	294.00	294.00	294.01	294.03	294.00	293.98	294.08	294.04	294.00	294.03	294.05	294.03	
14	294.00	294.00	294.01	294.02	294.00	294.00	294.08	294.00	294.00	294.03	294.07	294.03	
15	294.00	294.01	294.02	294.02	294.00	294.00	294.09	294.00	294.00	294.03	294.07	294.03	
16	294.00	294.00	294.02	294.02	294.00	293.98	294.19	294.00	294.00	294.03	294.07	294.03	
17	294.00	294.05	294.02	294.01	294.00	293.98	294.31	294.00	294.00	294.02	294.07	294.03	
18	294.00	294.01	294.02	294.02	294.00	293.99	294.19	294.00	294.00	294.02	294.07	294.03	
19	294.00	294.00	294.02	294.01	294.01	294.10	294.09	294.00	294.00	294.02	294.07	294.03	
20	294.00	294.00	294.02	294.01	294.01	294.27	294.08	294.00	294.00	294.02	294.07	294.03	
21	294.00	294.00	294.02	294.02	294.01	294.35	294.07	294.00	294.00	294.02	294.07	294.03	
22	294.00	293.99	294.02	294.01	294.01	294.10	294.04	294.00	294.00	294.02	294.07	294.02	
23	294.00	293.99	294.02	294.02	294.01	294.08	294.02	294.00	294.00	294.02	294.07	294.02	
24	294.00	293.99	294.02	295.07	294.01	294.79	294.01	294.00	294.00	294.02	294.07	294.02	
25	294.00	293.99	294.02	294.62	294.02	295.09	294.00	294.00	294.00	294.03	294.07	294.02	
26	294.00	293.99	294.01	294.17	294.02	294.40	294.00	294.00	294.00	294.04	294.06	294.01	
27	294.00	293.99	294.01	294.06	294.02	294.38	294.00	294.00	294.00	294.05	294.04	294.17	
28	294.00	293.99	294.01	294.98	294.00	294.50	294.00	294.00	294.00	294.05	294.03	294.01	
29	294.00	293.99	294.02	294.16	294.02	294.93	294.00	294.00	294.00	294.05		294.01	
30	294.00	294.02	294.02	294.08	294.00	294.39	294.03	294.00	294.01	294.05		294.03	
31		294.00		294.10	294.17		294.11		294.01	294.05		294.01	
Mean	294.00	294.01	294.01	294.12	294.01	294.18	294.23	294.03	294.00	294.03	294.06	294.03	
Max	294.00	294.21	294.02	295.07	294.17	295.09	295.01	294.17	294.01	294.05	294.07	294.17	295.09
Min	294.00	293.99	294.00	294.01	294.00	293.98	294.00	294.00	294.00	294.01	294.03	294.01	293.98

Annual Max Momentary Gage Height 297.25 m. (MSL.) , at 16.00 Hours, on Jul 28, 2016

Zero Gage at Bottom Elevation 293.80 m. (MSL.) , River Bed 293.35 m. (MSL.)

Left Bank Elevation 298.14 m. (MSL.) ,

Right Bank Elevation 298.10 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.10	0.10	0.12	0.12	0.28	3.42	0.34	0.10	0.11	0.15	0.13	
2	0.10	0.10	0.10	0.11	0.12	0.16	2.16	0.20	0.10	0.11	0.15	0.13	
3	0.10	0.11	0.10	0.11	0.10	0.12	1.18	0.19	0.10	0.11	0.15	0.13	
4	0.10	0.10	0.10	0.11	0.10	0.12	1.74	0.17	0.10	0.11	0.15	0.13	
5	0.10	0.11	0.10	0.11	0.12	0.10	4.26	0.16	0.10	0.11	0.15	0.13	
6	0.10	0.11	0.10	0.12	0.13	0.10	2.86	0.10	0.10	0.13	0.15	0.13	
7	0.10	0.10	0.10	0.12	0.12	0.10	5.89	0.10	0.10	0.13	0.15	0.13	
8	0.10	0.45	0.11	0.11	0.12	0.10	3.49	0.10	0.10	0.13	0.15	0.13	
9	0.10	0.12	0.11	0.11	0.10	0.09	0.85	0.20	0.10	0.13	0.15	0.13	
10	0.10	0.10	0.11	0.12	0.12	0.08	0.36	0.18	0.10	0.13	0.15	0.13	
11	0.10	0.10	0.11	0.12	0.10	0.08	0.20	0.17	0.10	0.13	0.15	0.13	
12	0.10	0.10	0.11	0.12	0.10	0.08	0.19	0.16	0.10	0.13	0.15	0.13	
13	0.10	0.10	0.11	0.13	0.10	0.08	0.18	0.14	0.10	0.13	0.15	0.13	
14	0.10	0.10	0.11	0.12	0.10	0.10	0.18	0.10	0.10	0.13	0.17	0.13	
15	0.10	0.11	0.12	0.12	0.10	0.10	0.19	0.10	0.10	0.13	0.17	0.13	
16	0.10	0.10	0.12	0.12	0.10	0.08	0.38	0.10	0.10	0.13	0.17	0.13	
17	0.10	0.15	0.12	0.11	0.10	0.08	0.97	0.10	0.10	0.12	0.17	0.13	
18	0.10	0.11	0.12	0.12	0.10	0.09	0.38	0.10	0.10	0.12	0.17	0.13	
19	0.10	0.10	0.12	0.11	0.11	0.20	0.19	0.10	0.10	0.12	0.17	0.13	
20	0.10	0.10	0.12	0.11	0.11	0.75	0.18	0.10	0.10	0.12	0.17	0.13	
21	0.10	0.10	0.12	0.12	0.11	1.25	0.17	0.10	0.10	0.12	0.17	0.13	
22	0.10	0.09	0.12	0.11	0.11	0.20	0.14	0.10	0.10	0.12	0.17	0.12	
23	0.10	0.09	0.12	0.12	0.11	0.18	0.12	0.10	0.10	0.12	0.17	0.12	
24	0.10	0.09	0.12	6.43	0.11	4.33	0.11	0.10	0.10	0.12	0.17	0.12	
25	0.10	0.09	0.12	3.14	0.12	6.61	0.10	0.10	0.10	0.13	0.17	0.12	
26	0.10	0.09	0.11	0.34	0.12	1.60	0.10	0.10	0.10	0.14	0.16	0.11	
27	0.10	0.09	0.11	0.16	0.12	1.46	0.10	0.10	0.10	0.15	0.14	0.34	
28	0.10	0.09	0.11	5.66	0.10	2.30	0.10	0.10	0.10	0.15	0.13	0.11	
29	0.10	0.09	0.12	0.32	0.12	5.31	0.10	0.10	0.10	0.15		0.11	
30	0.10	0.12	0.12	0.18	0.10	1.53	0.13	0.10	0.11	0.15		0.13	
31		0.10		0.20	0.34		0.22		0.11	0.15		0.11	
Total	3.00	3.51	3.36	19.10	3.63	27.66	30.64	3.91	3.12	3.96	4.42	4.12	110.43 CMSDAY
Mean	0.10	0.11	0.11	0.62	0.12	0.92	0.99	0.13	0.10	0.13	0.16	0.13	0.30 CMS
Max	0.10	0.45	0.12	6.43	0.34	6.61	5.89	0.34	0.11	0.15	0.17	0.34	6.61 CMS
Min	0.10	0.09	0.10	0.11	0.10	0.08	0.10	0.10	0.10	0.11	0.13	0.11	0.08 CMS
Runoff	0.26	0.30	0.29	1.65	0.31	2.39	2.65	0.34	0.27	0.34	0.38	0.36	9.54 MCM

Momentary Peak 31.90 CMS, at 297.25 m. (MSL.), at 16.00 Hours, on Jul 28, 2016

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

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right at the bridge on highway.

	Ban Cum	**Amphoe** Phimai	**Changwat** Nakhon Ratchasima
Drainge Area	11,489 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+150.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +156.067 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

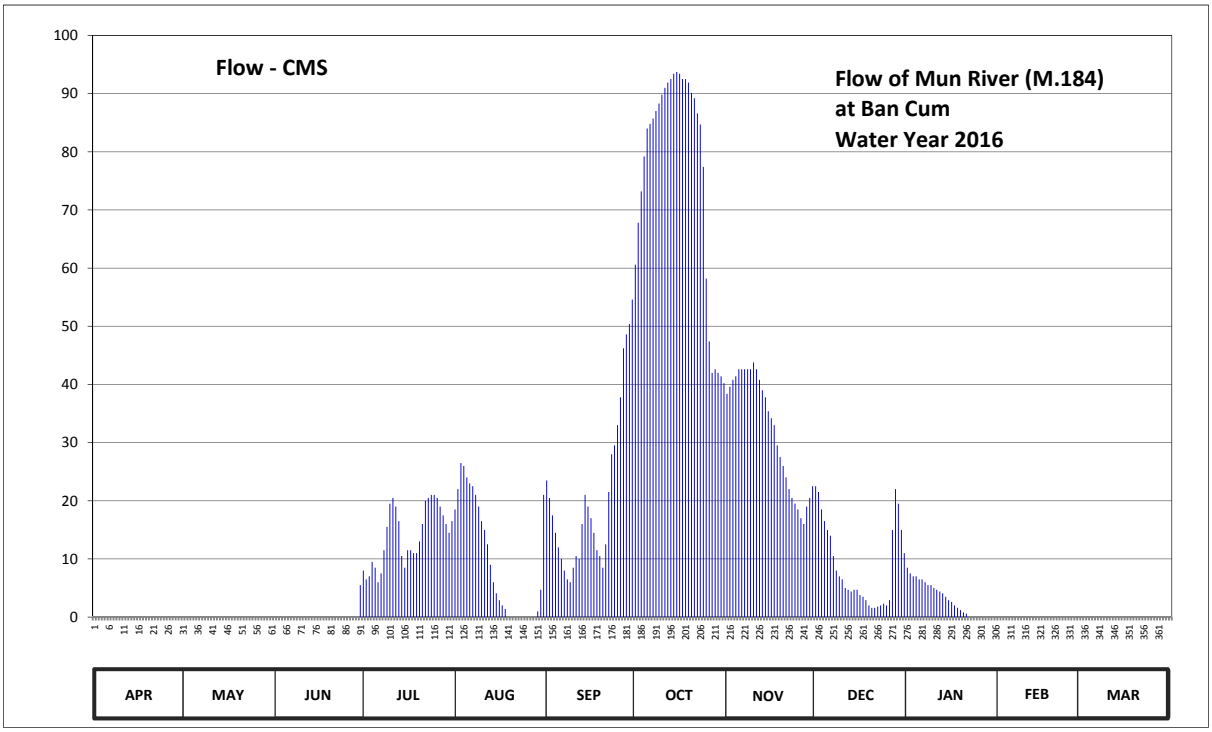
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.69	151.56	151.30	153.26	153.47	153.57	154.21	153.84	153.55	153.27	152.71	152.19	
2	151.68	151.56	151.29	153.23	153.54	153.51	154.33	153.86	153.53	153.25	152.68	152.18	
3	151.68	151.56	151.29	153.24	153.63	153.45	154.42	153.88	153.47	153.24	152.66	152.16	
4	151.68	151.55	151.28	153.29	153.62	153.39	154.52	153.89	153.43	153.24	152.63	152.16	
5	151.68	151.55	151.29	153.27	153.58	153.34	154.60	153.91	153.40	153.23	152.61	152.15	
6	151.67	151.55	151.31	153.22	153.56	153.30	154.68	153.91	153.38	153.23	152.59	152.14	
7	151.66	151.54	151.31	153.25	153.55	153.26	154.77	153.91	153.31	153.22	152.57	152.13	
8	151.65	151.54	151.31	153.33	153.52	153.23	154.85	153.91	153.26	153.21	152.55	152.13	
9	151.65	151.54	151.30	153.41	153.48	153.22	154.91	153.91	153.24	153.21	152.53	152.17	
10	151.64	151.52	151.30	153.49	153.43	153.27	154.96	153.93	153.23	153.20	152.49	152.18	
11	151.64	151.51	151.28	153.51	153.40	153.31	155.00	153.91	153.20	153.19	152.47	152.18	
12	151.63	151.49	151.26	153.48	153.35	153.30	155.03	153.88	153.19	153.18	152.45	152.18	
13	151.61	151.48	151.25	153.43	153.28	153.42	155.05	153.85	153.18	153.17	152.44	152.17	
14	151.60	151.48	151.23	153.31	153.22	153.52	155.08	153.83	153.19	153.15	152.42	152.16	
15	151.59	151.47	151.21	153.27	153.17	153.48	155.09	153.79	153.19	153.13	152.40	152.15	
16	151.58	151.46	151.19	153.33	153.13	153.44	155.08	153.77	153.16	153.12	152.37	152.15	
17	151.58	151.45	151.18	153.33	153.10	153.39	155.05	153.75	153.15	153.10	152.36	152.14	
18	151.57	151.44	151.18	153.32	153.07	153.33	155.05	153.69	153.13	153.08	152.34	152.14	
19	151.56	151.43	151.19	153.32	152.98	153.31	155.03	153.65	153.10	153.06	152.32	152.13	
20	151.56	151.43	151.19	153.36	152.84	153.27	154.97	153.62	153.08	153.04	152.31	152.13	
21	151.58	151.42	151.20	153.42	152.77	153.35	154.94	153.58	153.08	153.03	152.30	152.12	
22	151.57	151.39	151.19	153.50	152.72	153.53	154.83	153.54	153.09	153.00	152.29	152.12	
23	151.56	151.34	151.17	153.51	152.70	153.66	154.67	153.51	153.10	152.97	152.27	152.12	
24	151.56	151.28	151.16	153.52	152.69	153.69	154.49	153.49	153.11	152.93	152.26	152.12	
25	151.55	151.25	151.17	153.52	152.69	153.75	154.17	153.47	153.10	152.89	152.24	152.14	
26	151.55	151.25	151.16	153.51	152.70	153.83	153.99	153.44	153.13	152.85	152.23	152.13	
27	151.54	151.26	151.17	153.48	152.74	153.97	153.90	153.42	153.40	152.83	152.22	152.15	
28	151.53	151.30	151.18	153.45	152.89	154.01	153.91	153.48	153.54	152.81	152.21	152.18	
29	151.52	151.31	151.81	153.42	153.05	154.04	153.90	153.51	153.49	152.79		152.20	
30	151.53	151.31	153.21	153.39	153.19	154.11	153.89	153.55	153.40	152.76		152.26	
31		151.30		153.43	153.52		153.87		153.32	152.74		152.41	
Mean	151.60	151.44	151.32	153.38	153.18	153.51	154.62	153.72	153.26	153.07	152.43	152.16	
Max	151.69	151.56	153.21	153.52	153.63	154.11	155.09	153.93	153.55	153.27	152.71	152.41	155.09
Min	151.52	151.25	151.16	153.22	152.69	153.22	153.87	153.42	153.08	152.74	152.21	152.12	151.16

Annual Max Momentary Gage Height 155.10 m. (MSL.) , at 08.00 Hours, on Oct 16, 2016

Zero Gage at Bottom Elevation 150.00 m. (MSL.) , River Bed 149.74 m. (MSL.)

Left Bank Elevation 156.05 m. (MSL.) ,

Right Bank Elevation 155.99 m. (MSL.) , Drainage Are 11,489 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	8.00	18.50	23.50	60.60	38.40	22.50	8.50	0.00	0.00		
2	0.00	0.00	0.00	6.50	22.00	20.50	67.80	39.60	21.50	7.50	0.00	0.00		
3	0.00	0.00	0.00	7.00	26.50	17.50	73.20	40.80	18.50	7.00	0.00	0.00		
4	0.00	0.00	0.00	9.50	26.00	14.50	79.20	41.40	16.50	7.00	0.00	0.00		
5	0.00	0.00	0.00	8.50	24.00	12.00	84.00	42.60	15.00	6.50	0.00	0.00		
6	0.00	0.00	0.00	6.00	23.00	10.00	84.80	42.60	14.00	6.50	0.00	0.00		
7	0.00	0.00	0.00	7.50	22.50	8.00	85.70	42.60	10.50	6.00	0.00	0.00		
8	0.00	0.00	0.00	11.50	21.00	6.50	87.00	42.60	8.00	5.50	0.00	0.00		
9	0.00	0.00	0.00	15.50	19.00	6.00	88.30	42.60	7.00	5.50	0.00	0.00		
10	0.00	0.00	0.00	19.50	16.50	8.50	89.80	43.80	6.50	5.00	0.00	0.00		
11	0.00	0.00	0.00	20.50	15.00	10.50	91.00	42.60	5.00	4.70	0.00	0.00		
12	0.00	0.00	0.00	19.00	12.50	10.00	91.90	40.80	4.70	4.40	0.00	0.00		
13	0.00	0.00	0.00	16.50	9.00	16.00	92.50	39.00	4.40	4.10	0.00	0.00		
14	0.00	0.00	0.00	10.50	6.00	21.00	93.40	37.80	4.70	3.50	0.00	0.00		
15	0.00	0.00	0.00	8.50	4.10	19.00	93.70	35.40	4.70	2.90	0.00	0.00		
16	0.00	0.00	0.00	11.50	2.90	17.00	93.40	34.20	3.80	2.60	0.00	0.00		
17	0.00	0.00	0.00	11.50	2.00	14.50	92.50	33.00	3.50	2.00	0.00	0.00		
18	0.00	0.00	0.00	11.00	1.40	11.50	92.50	29.50	2.90	1.60	0.00	0.00		
19	0.00	0.00	0.00	11.00	0.00	10.50	91.90	27.50	2.00	1.20	0.00	0.00		
20	0.00	0.00	0.00	13.00	0.00	8.50	90.10	26.00	1.60	0.80	0.00	0.00		
21	0.00	0.00	0.00	16.00	0.00	12.50	89.20	24.00	1.60	0.60	0.00	0.00		
22	0.00	0.00	0.00	20.00	0.00	21.50	86.60	22.00	1.80	0.00	0.00	0.00		
23	0.00	0.00	0.00	20.50	0.00	28.00	84.70	20.50	2.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	21.00	0.00	29.50	77.40	19.50	2.30	0.00	0.00	0.00		
25	0.00	0.00	0.00	21.00	0.00	33.00	58.20	18.50	2.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	20.50	0.00	37.80	47.40	17.00	2.90	0.00	0.00	0.00		
27	0.00	0.00	0.00	19.00	0.00	46.20	42.00	16.00	15.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	17.50	0.00	48.60	42.60	19.00	22.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	16.00	1.00	50.40	42.00	20.50	19.50	0.00		0.00		
30	0.00	0.00	5.50	14.50	4.70	54.60	41.40	22.50	15.00	0.00		0.00		
31		0.00		16.50	21.00		40.20		11.00	0.00		0.00		
Total	0.00	0.00	5.50	435.00	298.60	627.60	2375.00	962.30	272.40	93.40	0.00	0.00	5069.80	CMSDAY
Mean	0.00	0.00	0.18	14.03	9.63	20.92	76.61	32.08	8.79	3.01	0.00	0.00	13.89	CMS
Max	0.00	0.00	5.50	21.00	26.50	54.60	93.70	43.80	22.50	8.50	0.00	0.00	93.70	CMS
Min	0.00	0.00	0.00	6.00	0.00	6.00	40.20	16.00	1.60	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.48	37.58	25.80	54.22	205.20	83.14	23.54	8.07	0.00	0.00	438.03	MCM

Momentary Peak 94.00 CMS, at 155.10 m (MSL.), at 08.00 Hours, on Oct 16, 2016

Runoff Yield 1.21 Liters/Second/Square KM. Momentary Peak Yield 8.180 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)

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

Location : on right at the bridge on highway.

Ban Phai Noi **Amphoe** Lam Plai Mat **Changwat** Nakhon Ratchasima

Drainge Area	4,880 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+149.700 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +157.900 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

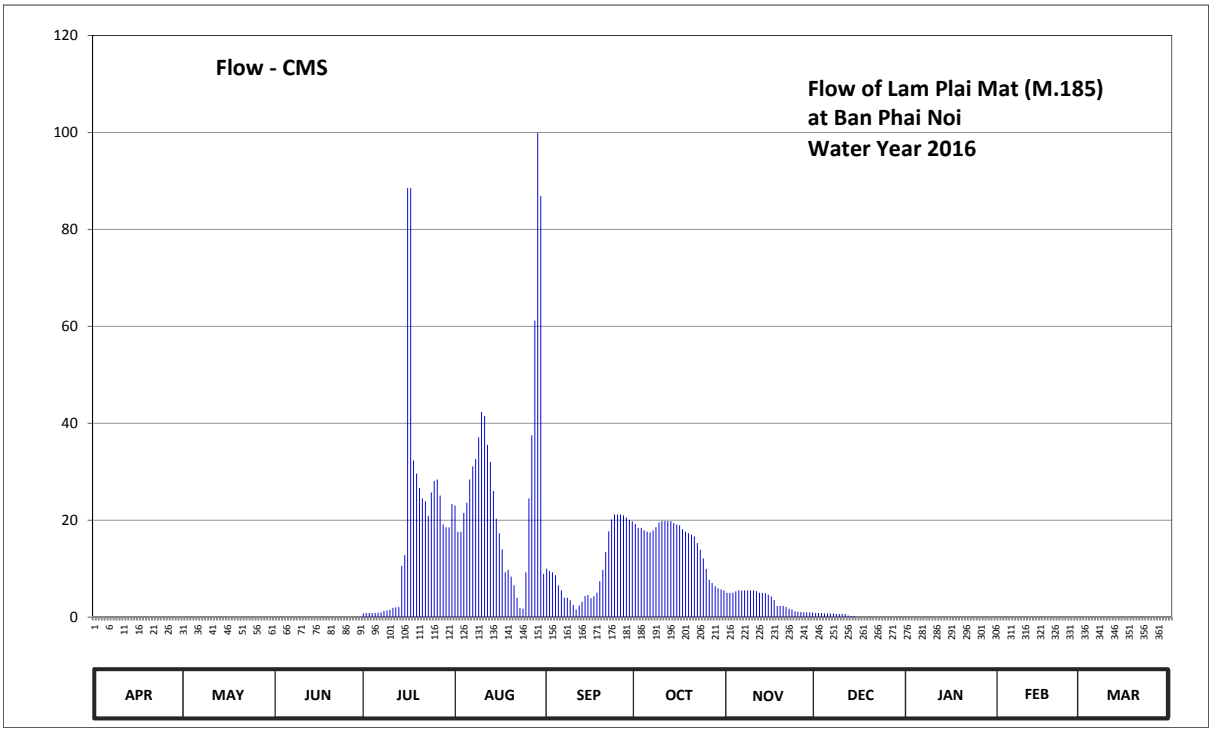
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.90	153.60	153.28	152.90	154.25	153.80	156.72	154.60	153.00	154.08	153.84	153.60	
2	153.90	153.60	153.27	153.00	154.07	153.77	156.60	154.60	153.00	154.03	153.81	153.60	
3	153.85	153.60	153.25	153.00	154.07	153.75	156.60	154.61	152.97	154.00	153.80	153.60	
4	153.80	153.60	153.23	153.00	154.20	153.71	156.53	154.66	152.90	154.00	153.80	153.58	
5	153.80	153.60	153.20	153.02	154.27	153.57	156.49	154.70	152.90	154.00	153.80	153.55	
6	153.80	153.60	153.20	153.05	154.43	153.50	156.47	154.70	152.90	154.02	153.80	153.55	
7	153.80	153.60	153.20	153.10	154.52	153.40	156.52	154.70	152.90	154.05	153.80	153.55	
8	153.80	153.60	153.18	153.33	154.57	153.40	156.62	154.70	152.80	154.05	153.80	153.55	
9	153.80	153.60	153.17	153.40	154.69	153.35	156.76	154.70	152.80	154.05	153.78	153.55	
10	153.80	153.60	153.15	153.44	154.82	153.25	156.80	154.70	152.80	154.05	153.75	153.55	
11	153.75	153.55	153.14	153.57	154.80	153.45	156.80	154.67	152.80	154.05	153.75	153.53	
12	153.75	153.50	153.10	153.60	154.65	153.72	156.80	154.60	152.51	154.05	153.75	153.50	
13	153.75	153.50	153.10	153.63	154.55	154.00	156.80	154.60	152.40	154.05	153.75	153.50	
14	153.75	153.50	153.10	155.48	154.35	154.38	156.74	154.57	152.40	154.05	153.75	153.50	
15	153.75	153.45	153.08	155.80	154.16	154.45	156.70	154.47	152.43	154.05	153.75	153.50	
16	153.75	153.44	153.08	155.80	154.06	154.23	156.68	154.35	152.70	154.05	153.75	153.50	
17	153.75	153.40	153.07	155.80	153.95	154.37	156.56	154.10	152.70	154.04	153.74	153.50	
18	153.75	153.40	153.04	154.56	153.75	154.60	156.49	153.70	152.70	154.00	153.71	153.50	
19	153.75	153.40	152.97	154.47	153.78	155.03	156.44	153.70	152.70	154.00	153.68	153.50	
20	153.70	153.40	152.90	154.37	153.69	155.36	156.40	153.70	152.70	154.00	153.67	153.50	
21	153.70	153.38	152.90	154.30	153.57	155.89	156.35	153.64	152.93	154.00	153.66	153.50	
22	153.70	153.38	152.87	154.28	153.40	156.50	156.15	153.50	154.03	153.98	153.65	153.50	
23	153.70	153.35	152.80	154.18	153.17	156.85	155.95	153.45	154.20	153.95	153.65	153.50	
24	153.70	153.35	152.80	154.34	153.15	157.01	155.70	153.27	154.20	153.94	153.64	153.49	
25	153.70	153.35	152.80	154.42	153.75	157.09	155.39	153.20	154.20	153.90	153.63	153.45	
26	153.60	153.35	152.78	154.43	154.30	157.04	155.07	153.17	154.20	153.90	153.62	153.45	
27	153.60	153.35	152.75	154.32	154.70	156.97	154.97	153.10	154.20	153.90	153.61	153.45	
28	153.60	153.34	152.77	154.12	155.27	156.91	154.86	153.10	154.20	153.87	153.60	153.44	
29	153.60	153.30	152.78	154.10	155.99	156.84	154.79	153.10	154.20	153.85		153.39	
30	153.60	153.30	152.80	154.10	155.77	156.79	154.74	153.04	154.20	153.85		153.35	
31		153.28		154.26	153.73		154.70		154.10	153.85		153.35	
Mean	153.74	153.46	153.03	154.04	154.27	154.90	156.17	154.06	153.22	153.99	153.73	153.50	
Max	153.90	153.60	153.28	155.80	155.99	157.09	156.80	154.70	154.20	154.08	153.84	153.60	157.09
Min	153.60	153.28	152.75	152.90	153.15	153.25	154.70	153.04	152.40	153.85	153.60	153.35	152.40

Annual Max Momentary Gage Height 157.10 m. (MSL.) , at 06.00 Hours, on Sep 25, 2016

Zero Gage at Bottom Elevation 149.70 m. (MSL.) , River Bed 152.23 m. (MSL.)

Left Bank Elevation 161.52 m. (MSL.) ,

Right Bank Elevation 161.27 m. (MSL.) , Drainage Are 4,880 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.76	23.00	10.00	19.24	5.00	0.87	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.87	17.60	9.55	18.40	5.00	0.87	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.87	17.60	9.25	18.40	5.05	0.84	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.87	21.50	8.65	17.91	5.30	0.76	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.89	23.60	6.55	17.63	5.50	0.76	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.93	28.40	5.50	17.49	5.50	0.76	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.98	31.10	4.00	17.84	5.50	0.76	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.26	32.60	4.00	18.54	5.50	0.65	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.40	37.10	3.50	19.52	5.50	0.65	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.52	42.30	2.50	19.80	5.50	0.65	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.91	41.50	1.55	19.80	5.35	0.65	0.00	0.00	0.00	
12	0.00	0.00	0.00	2.00	35.50	2.36	19.80	5.00	0.34	0.00	0.00	0.00	
13	0.00	0.00	0.00	2.09	32.00	3.20	19.80	5.00	0.22	0.00	0.00	0.00	
14	0.00	0.00	0.00	10.56	26.00	4.34	19.38	4.91	0.22	0.00	0.00	0.00	
15	0.00	0.00	0.00	12.80	20.30	4.55	19.10	4.61	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	88.50	17.30	3.89	18.96	4.25	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	88.50	14.00	4.31	18.12	3.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	32.30	9.25	5.00	17.63	2.30	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	29.60	9.70	7.41	17.28	2.30	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	26.60	8.35	9.72	17.00	2.30	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	24.50	6.55	13.43	16.65	2.12	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	23.90	4.00	17.70	15.25	1.70	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	20.90	1.85	20.15	13.85	1.55	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	25.70	1.75	21.20	12.10	1.17	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	28.10	9.25	21.20	9.93	1.09	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	28.40	24.50	21.20	7.69	1.06	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	25.10	37.50	20.99	7.02	0.98	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	19.10	61.15	20.57	6.36	0.98	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	18.50	99.90	20.08	5.95	0.98	0.00	0.00		0.00	
30	0.00	0.00	0.00	18.50	86.85	19.73	5.70	0.92	0.00	0.00		0.00	
31		0.00		23.30	8.95		5.50		0.00	0.00		0.00	
Total	0.00	0.00	0.00	561.21	830.95	306.08	477.64	105.42	9.00	0.00	0.00	0.00	2290.30 CMSDAY
Mean	0.00	0.00	0.00	18.10	26.80	10.20	15.41	3.51	0.29	0.00	0.00	0.00	6.27 CMS
Max	0.00	0.00	0.00	88.50	99.90	21.20	19.80	5.50	0.87	0.00	0.00	0.00	99.90 CMS
Min	0.00	0.00	0.00	0.76	1.75	1.55	5.50	0.92	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	48.49	71.79	26.45	41.27	9.11	0.78	0.00	0.00	0.00	197.88 MCM

Momentary Peak 21.20 CMS. at 157.10 m (MSL.), at 06.00 Hours, on Sep 25, 2016

Runoff Yield 1.29 Liters/Second/Square KM. Momentary Peak Yield 4.340 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima (M.186)

Lat 15 - 03 - 58 N Long 102 - 24 - 09 E

Location : on right at the bridge on highway.

Ban Non Koy **Amphoe** Chakkarat **Changwat** Nakhon Ratchasima

Drainge Area	1,337 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+158.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +163.112 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

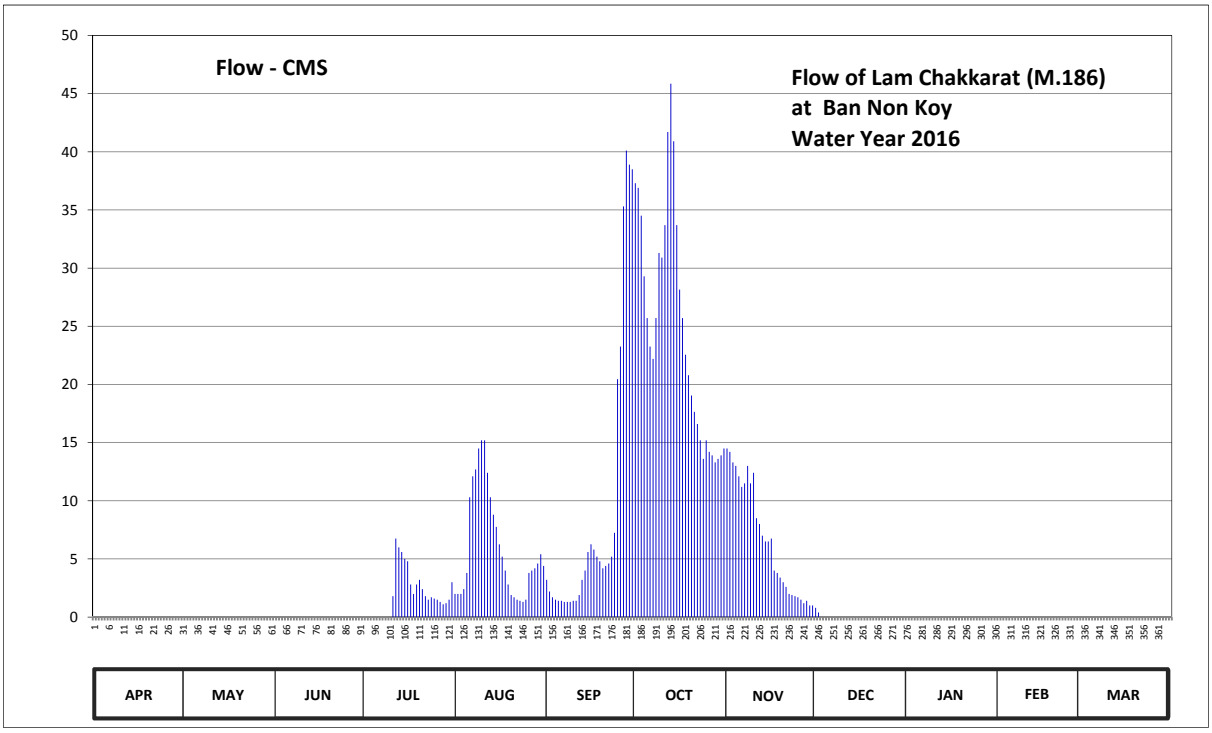
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.71	158.30	158.30	158.30	160.40	160.46	161.52	160.90	160.28	160.10	159.69	159.40	
2	158.67	158.30	158.30	158.30	160.40	160.41	161.51	160.89	160.24	160.10	159.69	159.39	
3	158.63	158.30	158.30	158.30	160.40	160.37	161.45	160.86	160.20	160.08	159.68	159.37	
4	158.59	158.30	158.30	158.30	160.42	160.35	161.32	160.85	160.18	160.06	159.67	159.36	
5	158.53	158.30	158.30	158.30	160.49	160.34	161.22	160.82	160.17	160.04	159.65	159.34	
6	158.50	158.30	158.30	158.30	160.76	160.34	161.15	160.79	160.17	160.02	159.64	159.33	
7	158.44	158.30	158.30	158.36	160.82	160.33	161.12	160.80	160.16	160.02	159.64	159.32	
8	158.39	158.30	158.30	158.99	160.84	160.33	161.22	160.85	160.16	160.01	159.63	159.31	
9	158.36	158.30	158.30	159.48	160.90	160.33	161.37	160.80	160.16	160.00	159.63	159.30	
10	158.31	158.30	158.30	159.67	160.92	160.34	161.36	160.83	160.16	159.99	159.62	159.20	
11	158.30	158.30	158.30	160.38	160.92	160.34	161.43	160.70	160.16	159.97	159.61	159.18	
12	158.30	158.30	158.30	160.63	160.83	160.39	161.63	160.68	160.15	159.95	159.60	159.14	
13	158.30	158.30	158.30	160.60	160.76	160.46	161.73	160.64	160.15	159.93	159.60	159.10	
14	158.30	158.30	158.30	160.58	160.71	160.50	161.61	160.62	160.15	159.92	159.59	159.08	
15	158.30	158.30	158.30	160.55	160.67	160.58	161.43	160.62	160.15	159.90	159.58	159.06	
16	158.30	158.30	158.30	160.54	160.61	160.61	161.29	160.63	160.14	159.89	159.57	159.04	
17	158.30	158.30	158.30	160.44	160.56	160.59	161.22	160.50	160.14	159.87	159.55	159.02	
18	158.30	158.30	158.30	160.40	160.50	160.56	161.13	160.49	160.14	159.86	159.54	158.98	
19	158.30	158.30	158.30	160.44	160.44	160.54	161.08	160.47	160.13	159.86	159.52	158.95	
20	158.30	158.30	158.30	160.46	160.39	160.51	161.03	160.45	160.13	159.84	159.51	158.94	
21	158.30	158.30	158.30	160.42	160.37	160.52	160.99	160.43	160.13	159.82	159.51	158.95	
22	158.30	158.30	158.30	160.38	160.35	160.53	160.96	160.40	160.13	159.80	159.50	158.95	
23	158.30	158.30	158.30	160.35	160.34	160.56	160.92	160.39	160.13	159.78	159.49	158.91	
24	158.30	158.30	158.30	160.37	160.33	160.65	160.87	160.38	160.13	159.76	159.48	158.89	
25	158.30	158.30	158.30	160.36	160.35	161.07	160.92	160.37	160.13	159.75	159.46	158.86	
26	158.30	158.30	158.30	160.35	160.49	161.15	160.89	160.35	160.13	159.74	159.45	158.89	
27	158.30	158.30	158.30	160.33	160.50	161.47	160.88	160.32	160.13	159.73	159.44	158.95	
28	158.30	158.30	158.30	160.31	160.51	161.59	160.86	160.34	160.13	159.72	159.42	159.08	
29	158.30	158.30	158.30	160.32	160.53	161.56	160.87	160.30	160.12	159.71		159.67	
30	158.30	158.30	158.30	160.35	160.57	161.55	160.88	160.30	160.11	159.70		160.35	
31		158.30		160.45	160.52		160.90		160.10	159.70		160.35	
Mean	158.37	158.30	158.30	159.85	160.57	160.64	161.19	160.59	160.15	159.89	159.57	159.21	
Max	158.71	158.30	158.30	160.63	160.92	161.59	161.73	160.90	160.28	160.10	159.69	160.35	161.73
Min	158.30	158.30	158.30	158.30	160.33	160.33	160.86	160.30	160.10	159.70	159.42	158.86	158.30

Annual Max Momentary Gage Height 161.74 m. (MSL.) , at 08.00 Hours, on Oct 13, 2016

Zero Gage at Bottom Elevation 158.30 m. (MSL.) , River Bed 158.19 m. (MSL.)

Left Bank Elevation 163.15 m. (MSL.) ,

Right Bank Elevation 163.13 m. (MSL.) , Drainage Are 1,337 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	2.00	3.20	37.30	14.50	0.80	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	2.00	2.20	36.90	14.20	0.40	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	2.00	1.70	34.50	13.30	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	2.40	1.50	29.30	13.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	3.80	1.40	25.70	12.10	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	10.30	1.40	23.25	11.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	12.10	1.30	22.20	11.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	12.70	1.30	25.70	13.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	14.50	1.30	31.30	11.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	15.20	1.40	30.90	12.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.80	15.20	1.40	33.70	8.50	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	6.75	12.40	1.90	41.70	8.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	6.00	10.30	3.20	45.85	7.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	5.60	8.80	4.00	40.90	6.50	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	5.00	7.75	5.60	33.70	6.50	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	4.80	6.25	6.25	28.15	6.75	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	2.80	5.20	5.80	25.70	4.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	2.00	4.00	5.20	22.55	3.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	2.80	2.80	4.80	20.80	3.40	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	3.20	1.90	4.20	19.05	3.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	2.40	1.70	4.40	17.65	2.60	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	1.80	1.50	4.60	16.60	2.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.50	1.40	5.20	15.20	1.90	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	1.70	1.30	7.25	13.60	1.80	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.60	1.50	20.45	15.20	1.70	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.50	3.80	23.25	14.20	1.50	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.30	4.00	35.30	13.90	1.20	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	1.10	4.20	40.10	13.30	1.40	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	1.20	4.60	38.90	13.60	1.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	1.50	5.40	38.50	13.90	1.00	0.00	0.00		0.00	
31		0.00		3.00	4.40		14.50		0.00	0.00		0.00	
Total	0.00	0.00	0.00	59.35	185.40	277.00	770.80	200.25	1.20	0.00	0.00	0.00	1494.00 CMSDAY
Mean	0.00	0.00	0.00	1.91	5.98	9.23	24.86	6.67	0.04	0.00	0.00	0.00	4.09 CMS
Max	0.00	0.00	0.00	6.75	15.20	40.10	45.85	14.50	0.80	0.00	0.00	0.00	45.85 CMS
Min	0.00	0.00	0.00	0.00	1.30	1.30	13.30	1.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	5.13	16.02	23.93	66.60	17.30	0.10	0.00	0.00	0.00	129.08 MCM

Momentary Peak 46.30 CMS. at 161.74 m (MSL.), at 08.00 Hours, on Oct 13, 2016

Runoff Yield 3.06 Liters/Second/Square KM. Momentary Peak Yield 34.630 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

Huai Sanaeng at Mueang, Surin (M.187)

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

Location : on right at the bridge on highway.

	Ban -	**Amphoe** Mueang	**Changwat** Surin
Drainge Area	641 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+136.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +143.644 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 9 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

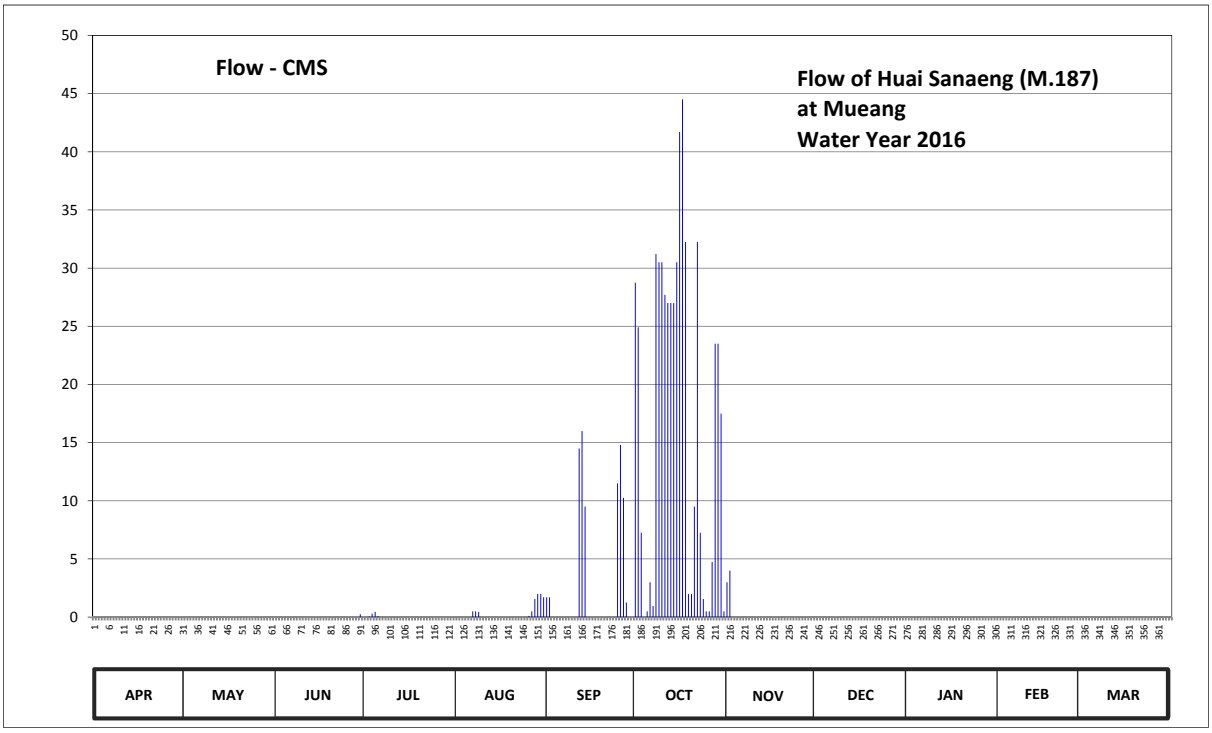
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.50	137.70	137.80	138.20	137.37	138.38	139.35	138.45	138.27	138.70	138.80	138.60	
2	137.50	137.70	137.80	138.20	137.31	138.38	139.24	138.50	138.27	138.80	138.80	138.55	
3	137.50	137.70	137.80	138.21	137.34	137.70	138.63	138.15	138.27	138.80	138.80	138.55	
4	137.50	137.70	137.80	138.26	137.37	137.60	137.93	137.95	138.27	138.80	138.80	138.55	
5	137.50	137.70	137.80	138.29	137.36	137.55	138.30	137.91	138.27	138.80	138.80	138.55	
6	137.50	137.70	137.81	138.22	137.63	137.45	138.45	138.25	138.27	138.80	138.78	138.55	
7	137.50	137.70	137.85	138.06	138.30	137.40	138.33	138.25	138.38	138.80	138.76	138.55	
8	137.50	137.70	137.85	137.91	138.30	137.40	139.42	138.25	138.38	138.80	138.74	138.55	
9	137.50	137.70	137.88	137.77	138.29	137.70	139.40	138.25	138.45	138.80	138.72	138.55	
10	137.50	137.70	137.88	137.60	138.09	137.90	139.40	138.25	138.45	138.80	138.70	138.55	
11	137.57	137.70	137.88	137.55	137.59	137.90	139.32	138.25	138.45	138.80	138.70	138.55	
12	137.60	137.70	137.88	137.48	137.54	138.90	139.30	138.25	138.45	138.80	138.70	138.55	
13	137.60	137.70	137.81	137.53	137.41	138.95	139.30	138.23	138.45	138.80	138.70	138.55	
14	137.60	137.70	137.75	137.57	137.30	138.72	139.30	138.27	138.47	138.80	138.70	138.55	
15	137.60	137.70	137.75	137.59	137.29	137.96	139.40	138.27	138.48	138.80	138.65	138.55	
16	137.60	137.72	137.70	137.49	137.28	137.82	139.72	138.27	138.50	138.80	138.65	138.55	
17	137.60	137.72	137.70	137.45	137.28	137.66	139.80	138.27	138.50	138.80	138.65	138.55	
18	137.60	137.72	137.70	137.41	137.41	137.55	139.45	138.27	138.50	138.80	138.65	138.55	
19	137.60	137.72	137.70	137.30	137.46	137.58	138.40	138.27	138.50	138.80	138.65	138.55	
20	137.63	137.72	137.70	137.30	137.50	137.59	138.40	138.27	138.50	138.80	138.63	138.55	
21	137.65	137.70	137.70	137.30	137.53	137.62	138.72	138.25	138.60	138.80	138.60	138.55	
22	137.65	137.70	137.70	137.30	137.55	137.70	139.45	138.25	138.60	138.80	138.60	138.55	
23	137.65	137.70	137.70	137.31	137.63	137.70	138.63	138.25	138.60	138.80	138.60	138.54	
24	137.65	137.70	137.70	137.40	137.86	137.98	138.37	138.25	138.60	138.80	138.60	138.53	
25	137.65	137.70	137.70	137.37	137.98	138.80	138.30	138.26	138.60	138.80	138.60	138.53	
26	137.65	137.80	137.70	137.30	138.22	138.91	138.30	138.28	138.60	138.80	138.60	138.49	
27	137.65	137.80	137.92	137.30	138.30	138.75	138.53	138.28	138.70	138.80	138.60	138.44	
28	137.65	137.80	138.03	137.30	138.37	138.35	139.20	138.28	138.70	138.80	138.60	138.40	
29	137.65	137.80	138.17	137.28	138.40	137.63	139.20	138.27	138.70	138.80		138.40	
30	137.65	137.80	138.25	137.20	138.40	137.70	139.00	138.27	138.70	138.80		138.40	
31		137.80		137.30	138.38		138.30		138.70	138.80		138.40	
Mean	137.58	137.72	137.81	137.60	137.74	137.97	138.93	138.25	138.49	138.80	138.69	138.53	
Max	137.65	137.80	138.25	138.29	138.40	138.95	139.80	138.50	138.70	138.80	138.80	138.60	139.80
Min	137.50	137.70	137.70	137.20	137.28	137.40	137.93	137.91	138.27	138.70	138.60	138.40	137.20

Annual Max Momentary Gage Height 139.80 m. (MSL.) , at 06.00 Hours , on Oct 17 , 2016

Zero Gage at Bottom Elevation 136.80 m. (MSL.) , River Bed 136.22 m. (MSL.)

Left Bank Elevation 143.64 m. (MSL.) ,

Right Bank Elevation 143.64 m. (MSL.) , Drainage Are 641 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	1.70	28.75	3.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	1.70	24.90	4.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.05	0.00	0.00	7.25	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.45	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.10	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.50	0.00	0.95	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.50	0.00	31.20	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.45	0.00	30.50	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	30.50	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	27.70	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	14.50	27.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	16.00	27.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	9.50	27.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	30.50	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	41.70	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	44.50	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	32.25	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	9.50	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	32.25	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	11.50	0.50	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.10	14.80	0.50	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.50	10.25	4.75	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	1.55	1.25	23.50	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	2.00	0.00	23.50	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.25	0.00	2.00	0.00	17.50	0.00	0.00	0.00		0.00		
31		0.00		0.00	1.70		0.50		0.00	0.00		0.00		
Total	0.00	0.00	0.25	0.90	9.30	81.20	540.50	7.00	0.00	0.00	0.00	0.00	639.15	CMSDAY
Mean	0.00	0.00	0.01	0.03	0.30	2.71	17.44	0.23	0.00	0.00	0.00	0.00	1.75	CMS
Max	0.00	0.00	0.25	0.45	2.00	16.00	44.50	4.00	0.00	0.00	0.00	0.00	44.50	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	0.02	0.08	0.80	7.02	46.70	0.60	0.00	0.00	0.00	0.00	55.22	MCM

Momentary Peak 44.50 CMS. at 139.80 m. (MSL.), at 06.00 Hours, on Oct 17, 2016

Runoff Yield 2.73 Liters/Second/Square KM. Momentary Peak Yield 69.420 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right at the bridge on highway.

Ban Bua **Amphoe** Non Sung **Changwat** Nakhon Ratchasima

Drainge Area	2,764 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+157.900 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +162.872 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

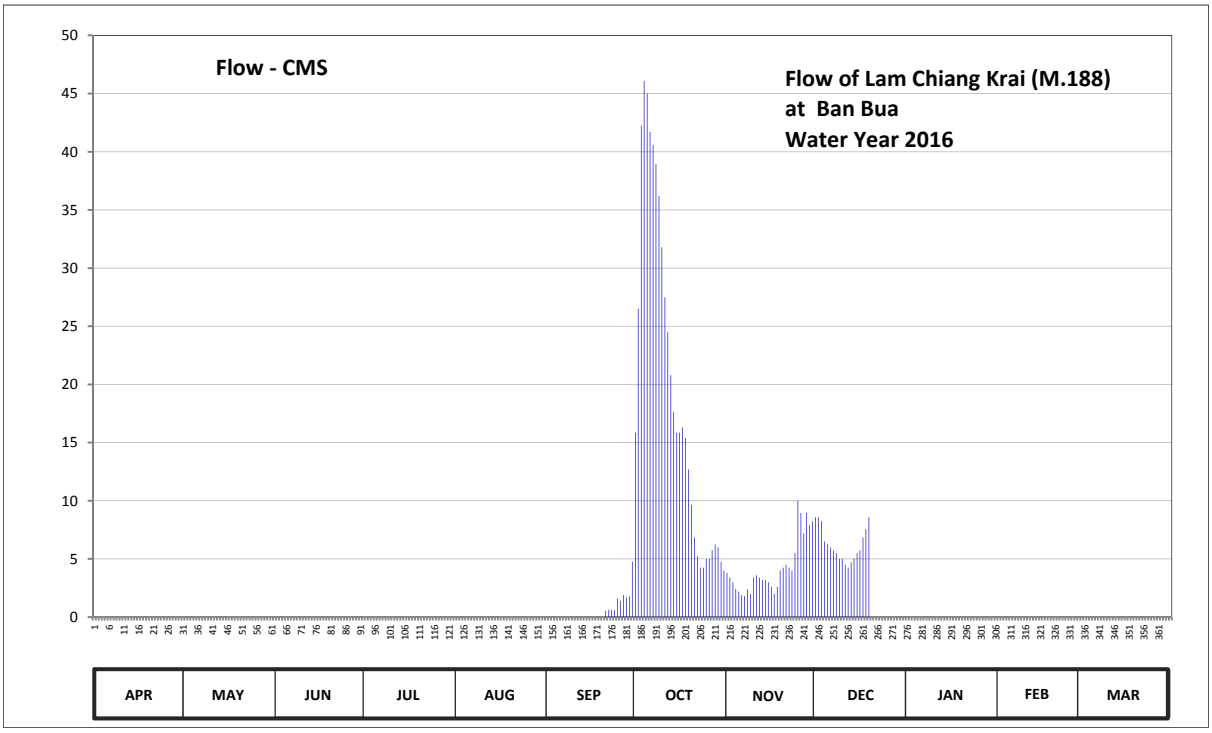
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.80	159.64	159.74	159.92	159.59	159.85	161.23	160.89	161.06	161.02	160.90	160.84	
2	159.80	159.64	159.72	159.92	159.55	159.83	161.46	160.87	161.06	161.01	160.90	160.84	
3	159.80	159.62	159.73	159.92	159.53	159.81	161.75	160.85	161.05	161.00	160.91	160.84	
4	159.80	159.62	159.73	159.94	159.51	159.80	161.82	160.82	161.00	160.99	160.91	160.84	
5	159.80	159.60	159.73	159.93	159.73	159.79	161.80	160.81	160.99	160.98	160.92	160.84	
6	159.80	159.60	159.74	159.94	159.73	159.78	161.74	160.79	160.98	160.97	160.92	160.84	
7	159.78	159.60	159.73	159.94	159.72	159.77	161.72	160.78	160.97	160.96	160.92	160.84	
8	159.78	159.62	159.73	159.94	159.71	159.77	161.69	160.82	160.96	160.95	160.92	160.84	
9	159.78	159.66	159.74	159.94	159.66	159.78	161.64	160.80	160.94	160.93	160.92	160.83	
10	159.78	159.66	159.74	159.92	159.62	159.78	161.56	160.87	160.94	160.92	160.92	160.83	
11	159.77	159.66	159.73	159.92	159.59	159.79	161.48	160.88	160.92	160.91	160.91	160.82	
12	159.77	159.66	159.70	159.92	159.58	159.95	161.42	160.87	160.91	160.91	160.91	160.82	
13	159.77	159.70	159.70	159.91	159.57	160.00	161.34	160.86	160.93	160.90	160.90	160.81	
14	159.77	159.83	159.70	159.88	159.53	160.02	161.27	160.86	160.94	160.89	160.89	160.81	
15	159.76	159.84	159.70	159.86	159.51	160.02	161.23	160.85	160.96	160.89	160.88	160.80	
16	159.75	159.84	159.70	159.83	159.49	160.00	161.23	160.83	160.97	160.89	160.88	160.80	
17	159.68	159.84	159.70	159.74	159.48	159.98	161.24	160.80	161.01	160.88	160.87	160.78	
18	159.60	159.84	159.72	159.73	159.47	159.98	161.22	160.83	161.03	160.88	160.87	160.74	
19	159.59	159.82	159.72	159.73	159.47	160.06	161.16	160.90	161.06	160.88	160.86	160.74	
20	159.60	159.82	159.72	159.73	159.46	160.38	161.09	160.91	161.08	160.88	160.86	160.74	
21	159.60	159.80	159.73	159.70	159.40	160.61	161.01	160.92	161.06	160.88	160.86	160.73	
22	159.62	159.80	159.72	159.71	159.34	160.63	160.95	160.91	161.04	160.88	160.86	160.70	
23	159.66	159.80	159.72	159.79	159.32	160.62	160.91	160.90	161.02	160.88	160.86	160.70	
24	159.66	159.79	159.72	159.78	159.38	160.62	160.91	160.96	161.01	160.89	160.86	160.72	
25	159.66	159.78	159.72	159.78	159.43	160.76	160.94	161.10	161.00	160.89	160.85	160.74	
26	159.66	159.76	159.71	159.76	159.60	160.74	160.94	161.07	161.00	160.89	160.85	160.75	
27	159.66	159.75	159.72	159.76	159.61	160.79	160.97	161.02	161.01	160.89	160.84	160.76	
28	159.66	159.74	159.75	159.73	159.73	160.77	160.99	161.07	161.02	160.90	160.84	160.77	
29	159.64	159.73	159.89	159.64	159.92	160.78	160.98	161.04	161.02	160.90		160.81	
30	159.64	159.73	159.90	159.66	159.92	160.93	160.93	161.05	161.02	160.90		160.84	
31		159.73		159.70	159.88		160.90		161.02	160.90		160.83	
Mean	159.71	159.73	159.73	159.82	159.58	160.18	161.27	160.90	161.00	160.92	160.89	160.79	
Max	159.80	159.84	159.90	159.94	159.92	160.93	161.82	161.10	161.08	161.02	160.92	160.84	161.82
Min	159.59	159.60	159.70	159.64	159.32	159.77	160.90	160.78	160.91	160.88	160.84	160.70	159.32

Annual Max Momentary Gage Height 161.83 m. (MSL.) , at 10.00 Hours , on Oct 4 , 2016

Zero Gage at Bottom Elevation 157.90 m. (MSL.) , River Bed 157.89 m. (MSL.)

Left Bank Elevation 162.87 m. (MSL.) ,

Right Bank Elevation 162.34 m. (MSL.) , Drainage Are 2,764 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	15.85	3.80	8.60	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	26.50	3.40	8.60	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	42.25	3.00	8.25	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	46.10	2.40	6.50	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	45.00	2.20	6.25	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	41.70	1.90	6.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	40.60	1.80	5.75	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	38.95	2.40	5.50	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	36.20	2.00	5.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	31.80	3.40	5.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	27.50	3.60	4.50	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	24.50	3.40	4.25	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	20.80	3.20	4.75	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	17.65	3.20	5.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	15.85	3.00	5.50	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	15.85	2.60	5.75	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	16.30	2.00	6.85	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	15.40	2.60	7.55	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	12.70	4.00	8.60	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	9.65	4.25	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.55	6.85	4.50	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.65	5.25	4.25	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.60	4.25	4.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.60	4.25	5.50	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	1.60	5.00	10.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	1.40	5.00	8.95	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	1.90	5.75	7.20	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	1.70	6.25	8.95	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	1.80	6.00	7.90	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	4.75	4.75	8.25	0.00	0.00		0.00	
31		0.00		0.00	0.00		4.00		0.00	0.00		0.00	
Total	0.00	0.00	0.00	0.00	0.00	15.55	598.50	127.65	118.20	0.00	0.00	0.00	859.90 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	0.52	19.31	4.26	3.81	0.00	0.00	0.00	2.36 CMS
Max	0.00	0.00	0.00	0.00	0.00	4.75	46.10	10.00	8.60	0.00	0.00	0.00	46.10 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	4.00	1.80	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.00	1.34	51.71	11.03	10.21	0.00	0.00	0.00	74.30 MCM

Momentary Peak 46.65 CMS. at 161.83 m. (MSL.), at 10.00 Hours, on Oct 4, 2016

Runoff Yield 0.85 Liters/Second/Square KM. Momentary Peak Yield 16.880 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right at the bridge on highway.

Ban Khwaw **Amphoe** Uthumphon Phisai **Changwat** Si Sa Ket

Drainge Area	2,339 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+119.700 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +129.804 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

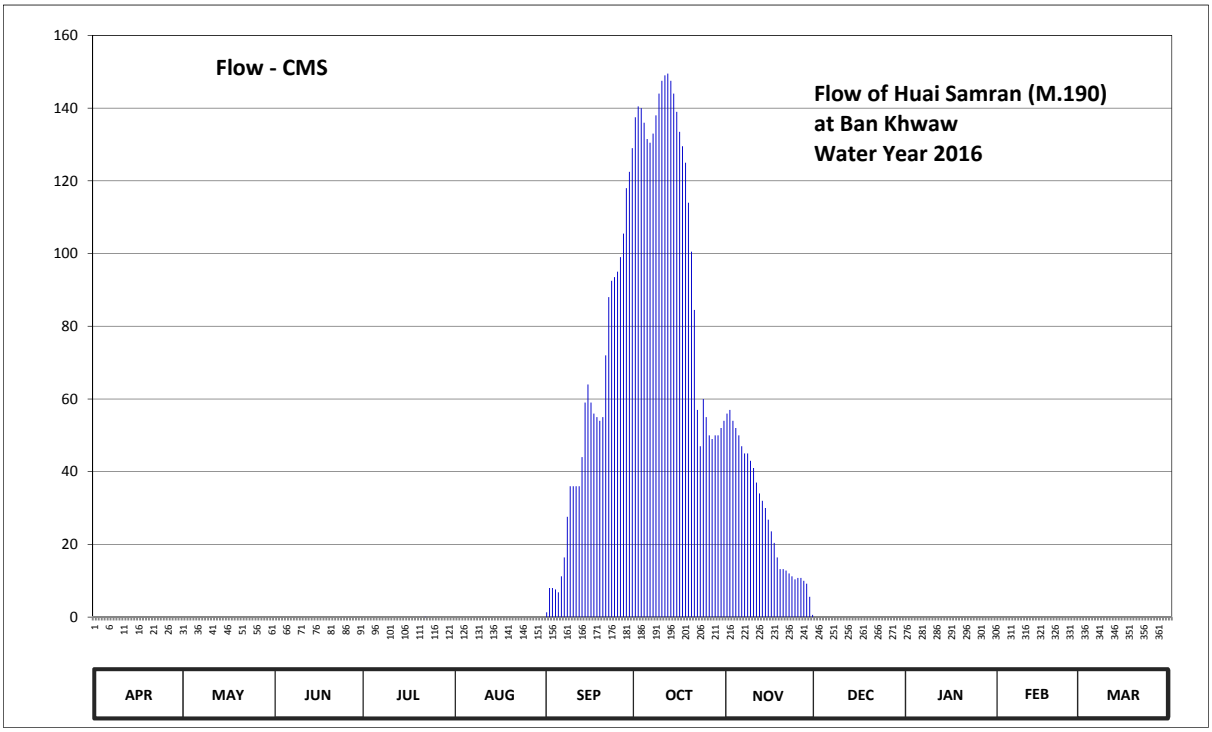
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.06	122.43	122.09	122.37	121.83	124.23	126.35	125.06	123.85	122.66	122.69	122.62	
2	123.04	122.42	122.08	122.38	121.82	124.45	126.41	125.07	123.22	122.68	122.69	122.61	
3	123.02	122.42	122.07	122.40	121.79	124.45	126.40	125.04	122.71	122.69	122.69	122.61	
4	122.99	122.42	122.08	122.39	121.82	124.44	126.32	125.02	122.39	122.70	122.69	122.60	
5	122.97	122.41	122.08	122.40	121.88	124.42	126.23	125.00	122.16	122.73	122.69	122.59	
6	122.94	122.41	122.11	122.45	121.91	124.53	126.21	124.97	122.02	122.74	122.69	122.58	
7	122.92	122.40	122.12	122.49	121.93	124.63	126.26	124.95	121.96	122.75	122.69	122.57	
8	122.90	122.39	122.13	122.54	121.94	124.77	126.36	124.95	121.88	122.75	122.69	122.57	
9	122.87	122.38	122.11	122.59	121.95	124.86	126.48	124.93	121.81	122.76	122.70	122.56	
10	122.85	122.35	122.10	122.61	121.96	124.86	126.55	124.91	121.78	122.77	122.70	122.57	
11	122.83	122.33	122.09	122.65	121.95	124.86	126.58	124.87	121.76	122.77	122.70	122.60	
12	122.82	122.32	122.07	122.68	121.93	124.86	126.59	124.84	121.76	122.78	122.69	122.60	
13	122.79	122.31	122.05	122.70	121.93	124.94	126.55	124.82	121.75	122.79	122.69	122.59	
14	122.76	122.29	122.05	122.72	121.94	125.09	126.48	124.80	121.79	122.78	122.69	122.59	
15	122.74	122.28	122.05	122.73	121.94	125.12	126.38	124.76	121.92	122.78	122.69	122.58	
16	122.71	122.28	122.04	122.74	121.91	125.09	126.27	124.72	122.04	122.77	122.68	122.58	
17	122.69	122.28	122.08	122.75	121.90	125.06	126.19	124.68	122.13	122.77	122.68	122.58	
18	122.66	122.27	122.11	122.81	121.87	125.05	126.10	124.63	122.20	122.76	122.67	122.58	
19	122.64	122.25	122.10	123.09	121.83	125.04	125.88	124.58	122.26	122.76	122.67	122.58	
20	122.62	122.26	122.10	123.51	121.78	125.05	125.61	124.58	122.31	122.75	122.67	122.58	
21	122.60	122.27	122.09	123.92	121.76	125.16	125.29	124.57	122.36	122.75	122.67	122.57	
22	122.59	122.25	122.08	124.11	121.75	125.36	125.07	124.55	122.41	122.74	122.66	122.57	
23	122.57	122.21	122.07	122.67	121.82	125.45	124.97	124.53	122.44	122.73	122.66	122.57	
24	122.56	122.19	122.06	122.17	121.83	125.47	125.10	124.51	122.48	122.72	122.66	122.57	
25	122.54	122.18	122.06	121.97	121.92	125.50	125.05	124.52	122.51	122.72	122.65	122.57	
26	122.51	122.17	122.05	121.90	121.99	125.58	125.00	124.52	122.53	122.71	122.64	122.56	
27	122.50	122.14	122.04	121.86	121.99	125.71	124.99	124.50	122.56	122.71	122.63	122.55	
28	122.47	122.13	122.09	121.85	122.02	125.96	125.00	124.48	122.59	122.71	122.63	122.54	
29	122.44	122.12	122.25	121.85	122.10	126.05	125.00	124.39	122.61	122.71		122.53	
30	122.43	122.11	122.34	121.85	122.46	126.18	125.02	124.16	122.63	122.70		122.52	
31		122.10		121.85	123.40		125.04		122.64	122.70		122.51	
Mean	122.73	122.28	122.09	122.55	121.96	125.07	125.86	124.73	122.31	122.74	122.68	122.57	
Max	123.06	122.43	122.34	124.11	123.40	126.18	126.59	125.07	123.85	122.79	122.70	122.62	126.59
Min	122.43	122.10	122.04	121.85	121.75	124.23	124.97	124.16	121.75	122.66	122.63	122.51	121.75

Annual Max Momentary Gage Height 126.59 m. (MSL.) , at 01.00 Hours, on Oct 12, 2016

Zero Gage at Bottom Elevation 119.70 m. (MSL.) , River Bed 120.57 m. (MSL.)

Left Bank Elevation 129.72 m. (MSL.) ,

Right Bank Elevation 129.85 m. (MSL.) , Drainage Are 2,339 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	1.30	137.50	56.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	8.00	140.50	57.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	8.00	140.00	54.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	7.60	136.00	52.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	6.80	131.50	50.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	11.20	130.50	47.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	16.40	133.00	45.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	27.60	138.00	45.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	36.00	144.00	43.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	36.00	147.50	41.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	36.00	149.00	37.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	36.00	149.50	34.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	44.00	147.50	32.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	59.00	144.00	30.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	64.00	139.00	26.80	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	59.00	133.50	23.60	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	56.00	129.50	20.40	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	55.00	125.00	16.40	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	54.00	114.00	13.20	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	55.00	100.50	13.20	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	72.00	84.50	12.80	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.10	0.00	88.00	57.00	12.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	92.50	47.00	11.20	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	93.50	60.00	10.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	95.00	55.00	10.80	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	99.00	50.00	10.80	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	105.50	49.00	10.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	118.00	50.00	9.20	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	122.50	50.00	5.60	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.00	129.00	52.00	0.60	0.00	0.00		0.00		
31		0.00		0.00	0.00		54.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.10	0.00	1691.90	3318.50	830.00	0.00	0.00	0.00	0.00	5840.50	CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	56.40	107.05	27.67	0.00	0.00	0.00	0.00	16.00	CMS
Max	0.00	0.00	0.00	0.10	0.00	129.00	149.50	57.00	0.00	0.00	0.00	0.00	149.50	CMS
Min	0.00	0.00	0.00	0.00	0.00	1.30	47.00	0.60	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.01	0.00	146.18	286.72	71.71	0.00	0.00	0.00	0.00	504.62	MCM

Momentary Peak 149.50 CMS, at 126.59 m. (MSL.), at 01.00 Hours, on Oct 12, 2016

Runoff Yield 6.84 Liters/Second/Square KM. Momentary Peak Yield 63.920 Liters/Second/Square KM.

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on road.

	Ban Khok Kruad	**Amphoe** Mueang	**Changwat** Nakhon Ratchasima
Drainge Area	2,854 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+191.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +195.991 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

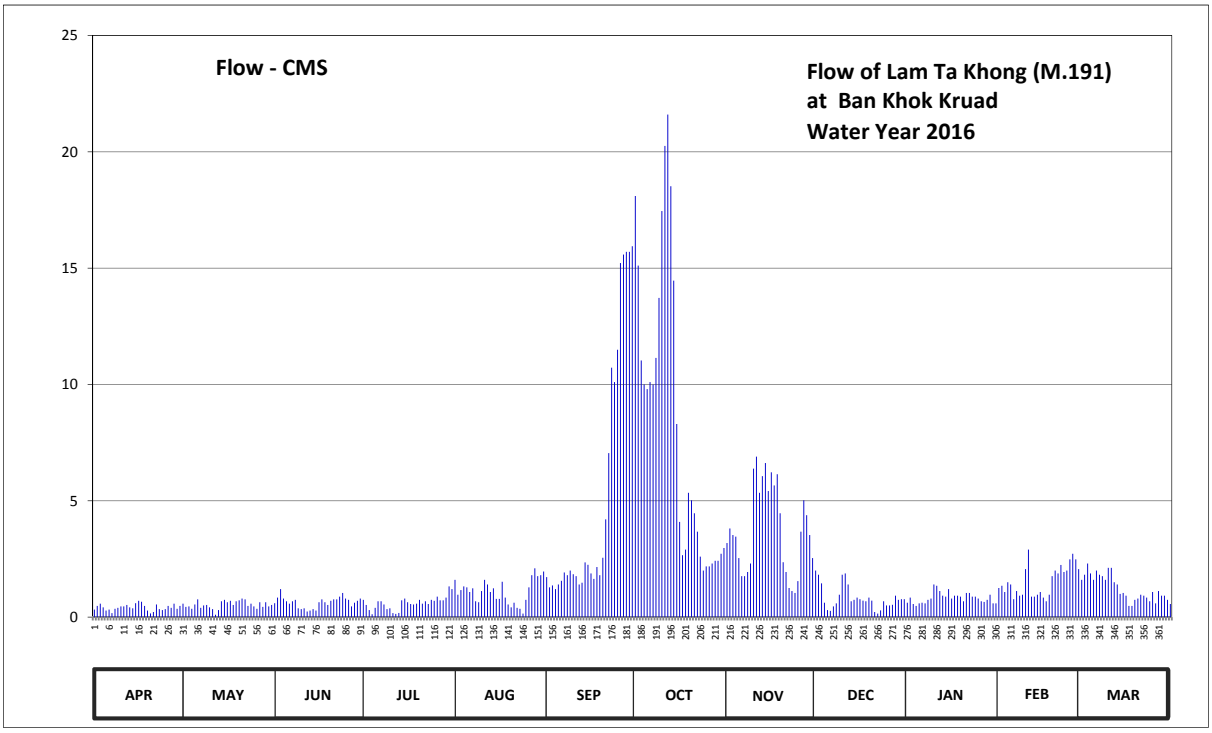
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.36	192.49	192.50	192.57	192.80	192.83	194.40	192.94	192.75	192.44	192.61	192.68	
2	192.44	192.42	192.61	192.46	192.64	192.72	194.17	193.03	192.72	192.51	192.63	192.72	
3	192.49	192.43	192.70	192.35	192.69	192.74	193.83	192.99	192.65	192.42	192.57	192.80	
4	192.41	192.38	192.60	192.22	192.73	192.70	193.73	192.98	192.44	192.39	192.66	192.73	
5	192.34	192.47	192.54	192.40	192.72	192.75	193.71	192.84	192.30	192.43	192.64	192.68	
6	192.36	192.58	192.49	192.54	192.67	192.79	193.74	192.71	192.27	192.44	192.49	192.75	
7	192.27	192.40	192.54	192.54	192.71	192.88	193.73	192.71	192.38	192.43	192.58	192.72	
8	192.38	192.45	192.57	192.47	192.54	192.85	193.84	192.74	192.43	192.48	192.53	192.71	
9	192.40	192.46	192.39	192.37	192.52	192.90	194.06	192.80	192.54	192.50	192.54	192.68	
10	192.43	192.41	192.37	192.39	192.68	192.86	194.35	193.36	192.72	192.64	192.76	192.77	
11	192.43	192.37	192.39	192.27	192.80	192.84	194.55	193.42	192.73	192.63	192.90	192.77	
12	192.46	192.20	192.32	192.24	192.75	192.75	194.64	193.23	192.64	192.58	192.52	192.66	
13	192.41	192.35	192.34	192.28	192.67	192.77	194.43	193.32	192.46	192.53	192.52	192.64	
14	192.39	192.54	192.37	192.56	192.71	192.97	194.12	193.39	192.48	192.52	192.54	192.55	
15	192.50	192.57	192.34	192.60	192.59	192.95	193.56	193.24	192.51	192.60	192.57	192.56	
16	192.55	192.52	192.52	192.52	192.59	192.87	193.07	193.34	192.49	192.50	192.51	192.53	
17	192.53	192.55	192.58	192.48	192.78	192.81	192.86	193.27	192.47	192.53	192.46	192.39	
18	192.44	192.46	192.52	192.47	192.61	192.93	192.90	193.33	192.46	192.53	192.54	192.39	
19	192.34	192.54	192.46	192.49	192.47	192.85	193.23	193.12	192.51	192.52	192.71	192.48	
20	192.26	192.56	192.55	192.57	192.41	193.01	193.19	192.81	192.47	192.46	192.75	192.50	
21	192.31	192.60	192.58	192.49	192.51	193.30	193.12	192.74	192.22	192.56	192.73	192.54	
22	192.47	192.58	192.58	192.54	192.40	193.65	193.01	192.61	192.15	192.56	192.79	192.53	
23	192.37	192.44	192.62	192.48	192.38	194.02	192.85	192.58	192.29	192.52	192.74	192.51	
24	192.35	192.49	192.66	192.57	192.25	193.96	192.75	192.56	192.46	192.52	192.75	192.46	
25	192.37	192.43	192.60	192.55	192.57	194.09	192.78	192.67	192.40	192.50	192.83	192.57	
26	192.44	192.38	192.57	192.62	192.72	194.41	192.78	193.01	192.40	192.46	192.87	192.43	
27	192.40	192.52	192.43	192.56	192.85	194.44	192.80	193.19	192.41	192.45	192.83	192.58	
28	192.49	192.42	192.51	192.56	192.92	194.45	192.82	193.11	192.53	192.48	192.76	192.53	
29	192.38	192.52	192.55	192.61	192.84	194.45	192.82	192.99	192.48	192.54		192.53	
30	192.44	192.43	192.60	192.73	192.85	194.47	192.87	192.84	192.49	192.43		192.48	
31		192.46		192.70	192.89		192.91		192.49	192.43		192.42	
Mean	192.41	192.47	192.51	192.49	192.65	193.27	193.47	193.00	192.48	192.50	192.65	192.59	
Max	192.55	192.60	192.70	192.73	192.92	194.47	194.64	193.42	192.75	192.64	192.90	192.80	194.64
Min	192.26	192.20	192.32	192.22	192.25	192.70	192.75	192.56	192.15	192.39	192.46	192.39	192.15

Annual Max Momentary Gage Height 194.67 m. (MSL.) , at 04.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 191.80 m. (MSL.) , River Bed 191.95 m. (MSL.)

Left Bank Elevation 196.02 m. (MSL.) ,

Right Bank Elevation 195.98 m. (MSL.) , Drainage Are 2,854 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.32	0.58	0.60	0.74	1.60	1.72	18.10	3.18	2.00	0.62	1.25	1.60		
2	0.48	0.44	0.84	0.52	0.96	1.28	15.11	3.81	1.82	0.84	1.35	1.82		
3	0.58	0.46	1.20	0.30	1.16	1.36	11.03	3.53	1.45	0.56	1.08	2.30		
4	0.42	0.36	0.80	0.12	1.32	1.20	10.00	3.46	0.62	0.48	1.50	1.88		
5	0.28	0.54	0.68	0.40	1.28	1.40	9.80	2.54	0.30	0.59	1.40	1.60		
6	0.32	0.76	0.58	0.68	1.08	1.56	10.10	1.76	0.27	0.62	0.77	2.00		
7	0.17	0.40	0.68	0.68	1.24	1.92	10.00	1.76	0.46	0.59	1.12	1.82		
8	0.36	0.50	0.74	0.54	0.68	1.80	11.14	1.94	0.59	0.74	0.92	1.76		
9	0.40	0.52	0.38	0.34	0.64	2.00	13.72	2.30	0.96	0.80	0.96	1.60		
10	0.46	0.42	0.34	0.38	1.12	1.84	17.45	6.38	1.82	1.40	2.06	2.12		
11	0.46	0.34	0.38	0.17	1.60	1.76	20.25	6.90	1.88	1.35	2.90	2.12		
12	0.52	0.10	0.24	0.14	1.40	1.40	21.60	5.34	1.40	1.12	0.88	1.50		
13	0.42	0.30	0.28	0.18	1.08	1.48	18.52	6.06	0.68	0.92	0.88	1.40		
14	0.38	0.68	0.34	0.72	1.24	2.35	14.46	6.62	0.74	0.88	0.96	1.00		
15	0.60	0.74	0.28	0.80	0.78	2.25	8.30	5.42	0.84	1.20	1.08	1.04		
16	0.70	0.64	0.64	0.64	0.78	1.88	4.09	6.22	0.77	0.80	0.84	0.92		
17	0.66	0.70	0.76	0.56	1.52	1.64	2.66	5.66	0.71	0.92	0.68	0.48		
18	0.48	0.52	0.64	0.54	0.84	2.15	2.90	6.14	0.68	0.92	0.96	0.48		
19	0.28	0.68	0.52	0.58	0.54	1.80	5.34	4.46	0.84	0.88	1.76	0.74		
20	0.16	0.72	0.70	0.74	0.42	2.55	5.02	2.36	0.71	0.68	2.00	0.80		
21	0.22	0.80	0.76	0.58	0.62	4.20	4.46	1.94	0.22	1.04	1.88	0.96		
22	0.54	0.76	0.76	0.68	0.40	7.05	3.67	1.25	0.15	1.04	2.24	0.92		
23	0.34	0.48	0.88	0.56	0.36	10.72	2.60	1.12	0.29	0.88	1.94	0.84		
24	0.30	0.58	1.04	0.74	0.15	10.10	2.00	1.04	0.68	0.88	2.00	0.68		
25	0.34	0.46	0.80	0.70	0.74	11.49	2.18	1.55	0.50	0.80	2.48	1.08		
26	0.48	0.36	0.74	0.88	1.28	15.22	2.18	3.67	0.50	0.68	2.72	0.59		
27	0.40	0.64	0.46	0.72	1.80	15.58	2.30	5.02	0.53	0.65	2.48	1.12		
28	0.58	0.44	0.62	0.72	2.10	15.70	2.42	4.38	0.92	0.74	2.06	0.92		
29	0.36	0.64	0.70	0.84	1.76	15.70	2.42	3.53	0.74	0.96		0.92		
30	0.48	0.46	0.80	1.32	1.80	15.94	2.72	2.54	0.77	0.59		0.74		
31		0.52		1.20	1.96		2.97		0.77	0.59		0.56		
Total	12.49	16.54	19.18	18.71	34.25	157.04	259.51	111.88	25.61	25.76	43.15	38.31	762.43	CMSDAY
Mean	0.42	0.53	0.64	0.60	1.10	5.23	8.37	3.73	0.83	0.83	1.54	1.24	2.09	CMS
Max	0.70	0.80	1.20	1.32	2.10	15.94	21.60	6.90	2.00	1.40	2.90	2.30	21.60	CMS
Min	0.16	0.10	0.24	0.12	0.15	1.20	2.00	1.04	0.15	0.48	0.68	0.48	0.10	CMS
Runoff	1.08	1.43	1.66	1.62	2.96	13.57	22.42	9.67	2.21	2.23	3.73	3.31	65.87	MCM

Momentary Peak 22.05 CMS. at 194.67 m. (MSL.), at 04.00 Hours, on Oct 12, 2016

Runoff Yield 0.73 Liters/Second/Square KM. Momentary Peak Yield 7.730 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Nawarat Bridge **Amphoe** Mueang **Changwat** Chiang Mai

Drainge Area	6,350 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+300.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near automatic gage building **Elevation** +305.310 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1921 to date
Rating Operation	
Period of Rating	1954 - 1960 , 1967 to date
Rated by Flot	1936 - 1938
Rated by Current Meter	1954 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers dowmstream from the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

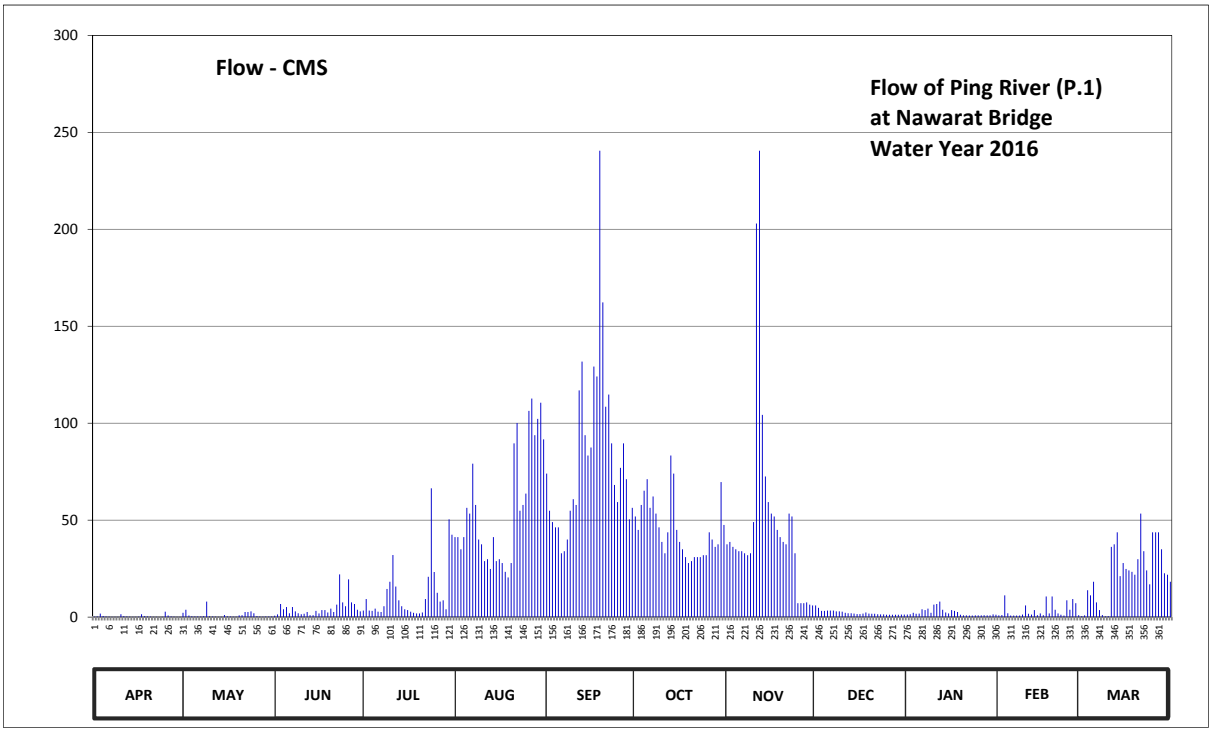
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.33	301.71	301.54	301.77	301.95	302.18	302.03	301.92	301.85	301.63	301.58	301.49	
2	301.40	301.79	301.64	301.92	301.95	302.05	301.98	301.93	301.82	301.65	301.61	301.58	
3	301.68	301.56	301.87	301.77	301.90	302.01	302.07	301.91	301.76	301.71	301.95	301.99	
4	301.51	301.47	301.80	301.76	301.95	301.99	302.12	301.90	301.76	301.67	301.70	301.95	
5	301.41	301.43	301.83	301.81	302.06	301.99	302.16	301.89	301.77	301.68	301.57	302.03	
6	301.34	301.41	301.70	301.74	302.04	301.88	302.06	301.89	301.77	301.80	301.56	301.89	
7	301.30	301.40	301.83	301.73	302.21	301.89	302.10	301.88	301.77	301.78	301.56	301.78	
8	301.25	301.50	301.75	301.84	302.07	301.94	302.04	301.87	301.75	301.81	301.57	301.61	
9	301.30	301.90	301.70	302.00	301.94	302.05	301.99	301.88	301.75	301.71	301.63	301.46	
10	301.65	301.45	301.65	302.03	301.92	302.09	301.93	302.01	301.74	301.86	301.85	301.48	
11	301.49	301.43	301.67	302.12	301.84	302.07	301.88	302.71	301.71	301.87	301.67	301.91	
12	301.39	301.36	301.73	302.01	301.85	302.39	301.97	302.83	301.70	301.90	301.63	301.92	
13	301.32	301.23	301.60	301.91	301.80	302.45	302.23	302.33	301.70	301.79	301.78	301.97	
14	301.27	301.30	301.60	301.84	301.95	302.28	302.18	302.17	301.68	301.72	301.60	301.75	
15	301.24	301.61	301.76	301.80	301.84	302.23	301.98	302.08	301.66	301.69	301.69	301.83	
16	301.38	301.46	301.69	301.78	301.85	302.25	301.93	302.04	301.66	301.78	301.60	301.80	
17	301.65	301.41	301.78	301.74	301.83	302.44	301.90	302.03	301.68	301.76	301.94	301.79	
18	301.49	301.36	301.78	301.71	301.78	302.42	301.86	301.98	301.72	301.73	301.69	301.78	
19	301.39	301.34	301.72	301.69	301.74	302.83	301.83	301.95	301.68	301.62	301.94	301.76	
20	301.34	301.58	301.81	301.69	301.83	302.57	301.84	301.93	301.67	301.58	301.79	301.85	
21	301.28	301.60	301.73	301.72	302.26	302.35	301.86	301.92	301.67	301.58	301.69	302.04	
22	301.26	301.73	301.86	301.92	302.31	302.38	301.86	302.04	301.65	301.57	301.62	301.89	
23	301.20	301.73	302.06	302.05	302.05	302.26	301.86	302.03	301.64	301.56	301.57	301.79	
24	301.28	301.75	301.89	302.23	302.07	302.14	301.87	301.88	301.64	301.58	301.91	301.69	
25	301.74	301.70	301.84	302.07	302.11	302.08	301.87	301.88	301.62	301.58	301.79	301.97	
26	301.57	301.48	302.04	301.97	302.34	302.20	301.97	301.88	301.62	301.58	301.92	301.97	
27	301.43	301.40	301.89	301.90	302.37	302.26	301.94	301.88	301.62	301.59	301.88	301.97	
28	301.35	301.38	301.87	301.91	302.28	302.16	301.91	301.89	301.62	301.58	301.60	301.90	
29	301.28	301.39	301.79	301.80	302.32	302.02	301.92	301.86	301.62	301.58		301.77	
30	301.27	301.40	301.75	302.02	302.36	302.06	302.15	301.85	301.63	301.64		301.76	
31		301.42		301.96	302.27		302.00		301.63	301.62		301.71	
Mean	301.39	301.51	301.77	301.88	302.03	302.20	301.98	302.01	301.70	301.68	301.71	301.81	
Max	301.74	301.90	302.06	302.23	302.37	302.83	302.23	302.83	301.85	301.90	301.95	302.04	302.83
Min	301.20	301.23	301.54	301.69	301.74	301.88	301.83	301.85	301.62	301.56	301.56	301.46	301.20

Annual Max Momentary Gage Height 303.17 m. (MSL.) , at 20.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 300.50 m. (MSL.) , River Bed 299.18 m. (MSL.)

Left Bank Elevation 307.78 m. (MSL.) ,

Right Bank Elevation 307.73 m. (MSL.) , Drainage Are 6,350 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	2.20	0.70	3.40	41.25	74.05	51.92	37.50	6.00	1.30	0.90	0.48	
2	0.30	3.80	1.40	9.30	41.25	54.87	45.00	38.75	4.80	1.50	1.10	0.90	
3	1.80	0.80	6.80	3.40	35.00	48.97	57.82	36.25	3.20	2.20	11.25	13.85	
4	0.55	0.44	4.00	3.20	41.25	46.25	65.20	35.00	3.20	1.70	2.00	11.25	
5	0.32	0.36	5.20	4.40	56.35	46.25	71.10	33.98	3.40	1.80	0.85	18.25	
6	0.24	0.32	2.00	2.80	53.40	32.96	56.35	33.98	3.40	4.00	0.80	7.60	
7	0.20	0.30	5.20	2.60	79.10	33.98	62.25	32.96	3.40	3.60	0.80	3.60	
8	0.15	0.50	3.00	5.60	57.82	40.00	53.40	31.94	3.00	4.40	0.85	1.10	
9	0.20	8.00	2.00	14.50	40.00	54.87	46.25	32.96	3.00	2.20	1.30	0.42	
10	1.50	0.40	1.50	18.25	37.50	60.77	38.75	48.97	2.80	6.40	6.00	0.46	
11	0.48	0.36	1.70	32.00	28.88	57.82	32.96	203.00	2.20	6.80	1.70	36.25	
12	0.29	0.26	2.60	15.75	29.90	116.90	43.75	240.50	2.00	8.00	1.30	37.50	
13	0.22	0.13	1.00	8.65	24.80	131.75	83.30	104.30	2.00	3.80	3.60	43.75	
14	0.17	0.20	1.00	5.60	41.25	93.80	74.05	72.57	1.80	2.40	1.00	21.15	
15	0.14	1.10	3.20	4.00	28.88	83.30	45.00	59.30	1.60	1.90	1.90	27.86	
16	0.28	0.42	1.90	3.60	29.90	87.50	38.75	53.40	1.60	3.60	1.00	24.80	
17	1.50	0.32	3.60	2.80	27.86	129.20	35.00	51.92	1.80	3.20	10.60	24.07	
18	0.48	0.26	3.60	2.20	23.34	124.10	30.92	45.00	2.40	2.60	1.90	23.34	
19	0.29	0.24	2.40	1.90	20.42	240.50	27.86	41.25	1.80	1.20	10.60	21.88	
20	0.24	0.90	4.40	1.90	27.86	162.35	28.88	38.75	1.70	0.90	3.80	29.90	
21	0.18	1.00	2.60	2.40	89.60	108.50	30.92	37.50	1.70	0.90	1.90	53.40	
22	0.16	2.60	6.40	9.30	100.10	114.80	30.92	53.40	1.50	0.85	1.20	33.98	
23	0.10	2.60	22.00	20.75	54.87	89.60	30.92	51.92	1.40	0.80	0.85	24.07	
24	0.18	3.00	7.60	66.40	57.82	68.15	31.94	32.96	1.40	0.90	8.65	16.95	
25	2.80	2.00	5.60	23.25	63.72	59.30	31.94	7.20	1.20	0.90	3.80	43.75	
26	0.85	0.46	19.50	12.55	106.40	77.00	43.75	7.20	1.20	0.90	9.30	43.75	
27	0.36	0.30	7.60	8.00	112.70	89.60	40.00	7.20	1.20	0.95	7.20	43.75	
28	0.25	0.28	6.80	8.65	93.80	71.10	36.25	7.60	1.20	0.90	1.00	35.00	
29	0.18	0.29	3.80	4.00	102.20	50.45	37.50	6.40	1.20	0.90		22.61	
30	0.17	0.30	3.00	50.45	110.60	56.35	69.62	6.00	1.30	1.40		21.88	
31		0.34		42.50	91.70		47.50		1.30	1.20		18.23	
Total	14.81	34.48	142.10	394.10	1749.52	2505.04	1419.77	1489.66	69.70	74.10	97.15	705.78	8696.21	CMSDAY
Mean	0.49	1.11	4.74	12.71	56.44	83.50	45.80	49.66	2.25	2.39	3.47	22.77	23.83	CMS
Max	2.80	8.00	22.00	66.40	112.70	240.50	83.30	240.50	6.00	8.00	11.25	53.40	240.50	CMS
Min	0.10	0.13	0.70	1.90	20.42	32.96	27.86	6.00	1.20	0.80	0.80	0.42	0.10	CMS
Runoff	1.28	2.98	12.28	34.05	151.16	216.44	122.67	128.71	6.02	6.40	8.39	60.98	751.35	MCM

Momentary Peak 363.75 CMS. at 303.17 m. (MSL.) at 20.00 Hours , on Nov 11 , 2016

Runoff Yield 3.75 Liters/Second/Square KM. Momentary Peak Yield 57.240 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Tha Khae **Amphoe** Mueang **Changwat** Tak

Drainge Area	38,681 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+104.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near automatic gage building **Elevation** +116.118 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1952 to date
Rating Operation	
Period of Rating	1952 - 1960 , 1963 - 1967 , 1971 to date
Rated by Flot	-
Rated by Current Meter	1952 - 1960 , 1963 - 1967 , 1971 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 27 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

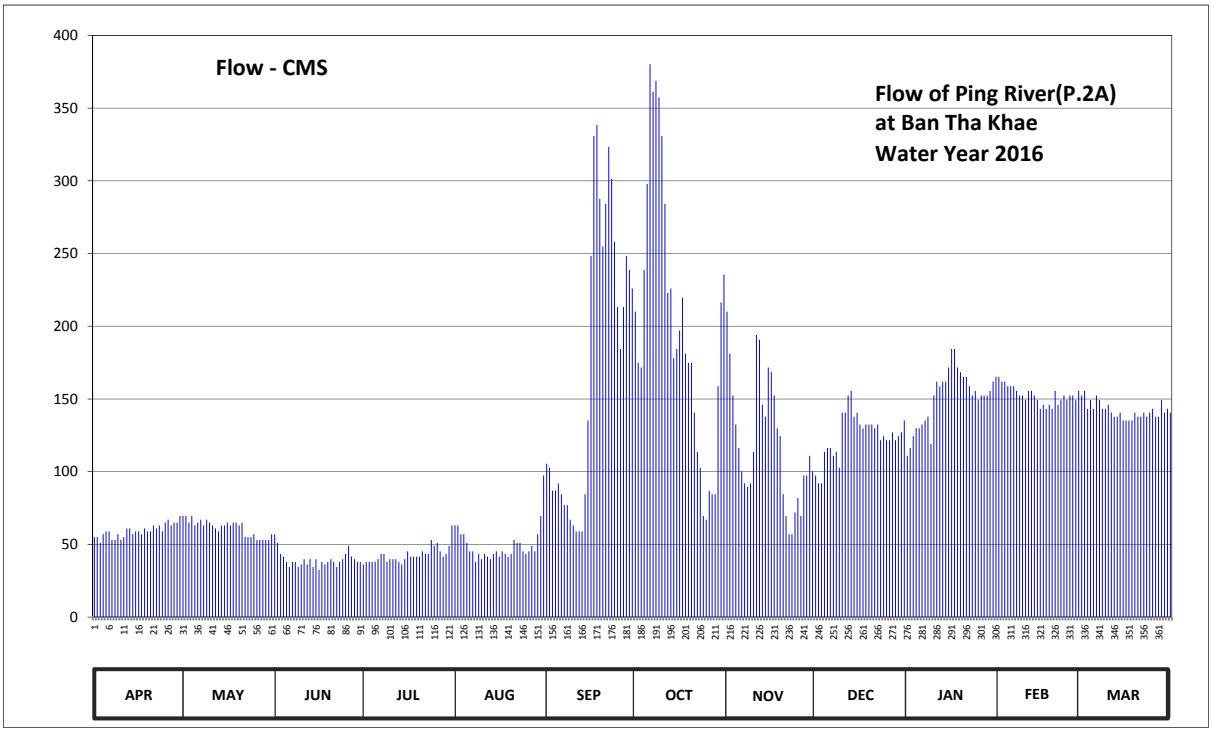
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.04	104.11	104.05	103.94	104.08	104.25	104.60	104.60	104.22	104.27	104.46	104.42	
2	104.04	104.11	104.02	103.95	104.08	104.24	104.49	104.51	104.20	104.29	104.45	104.43	
3	104.02	104.09	103.98	103.95	104.05	104.18	104.48	104.42	104.20	104.32	104.45	104.39	
4	104.05	104.11	103.97	103.95	104.05	104.18	104.69	104.35	104.28	104.34	104.44	104.41	
5	104.06	104.08	103.95	103.95	104.02	104.20	104.87	104.29	104.29	104.34	104.44	104.39	
6	104.06	104.09	103.93	103.96	103.99	104.17	105.09	104.23	104.29	104.35	104.44	104.42	
7	104.03	104.10	103.95	103.98	103.99	104.14	105.04	104.20	104.27	104.36	104.43	104.41	
8	104.03	104.08	103.95	103.98	103.95	104.14	105.06	104.19	104.28	104.37	104.42	104.39	
9	104.05	104.10	103.93	103.95	103.98	104.10	105.03	104.20	104.24	104.30	104.42	104.39	
10	104.03	104.09	103.94	103.96	103.96	104.08	104.96	104.28	104.38	104.42	104.41	104.40	
11	104.04	104.08	103.96	103.96	103.98	104.06	104.83	104.55	104.38	104.45	104.43	104.38	
12	104.07	104.07	103.94	103.96	103.97	104.06	104.64	104.54	104.42	104.44	104.43	104.37	
13	104.07	104.06	103.96	103.95	103.96	104.06	104.65	104.40	104.43	104.45	104.42	104.37	
14	104.05	104.08	103.93	103.94	103.98	104.17	104.50	104.37	104.37	104.45	104.41	104.38	
15	104.06	104.08	103.96	103.96	103.99	104.36	104.52	104.48	104.38	104.48	104.39	104.36	
16	104.06	104.09	103.92	103.99	103.97	104.72	104.56	104.47	104.35	104.52	104.40	104.36	
17	104.05	104.08	103.95	103.97	103.99	104.96	104.63	104.42	104.34	104.52	104.39	104.36	
18	104.07	104.09	103.94	103.97	103.98	104.98	104.51	104.34	104.35	104.48	104.40	104.36	
19	104.06	104.09	103.95	103.97	103.97	104.84	104.49	104.32	104.35	104.47	104.39	104.38	
20	104.06	104.08	103.96	103.97	103.98	104.74	104.49	104.17	104.35	104.46	104.43	104.37	
21	104.08	104.09	103.95	103.99	104.03	104.83	104.38	104.11	104.34	104.46	104.40	104.37	
22	104.07	104.04	103.93	103.98	104.02	104.94	104.28	104.05	104.35	104.44	104.41	104.38	
23	104.08	104.04	103.95	103.98	104.02	104.88	104.24	104.05	104.31	104.42	104.42	104.37	
24	104.06	104.04	103.96	104.03	103.99	104.75	104.11	104.12	104.32	104.43	104.41	104.38	
25	104.09	104.05	103.98	104.01	103.98	104.61	104.10	104.16	104.31	104.41	104.42	104.39	
26	104.10	104.03	104.01	104.02	103.99	104.52	104.18	104.11	104.31	104.42	104.42	104.37	
27	104.08	104.03	103.97	103.99	104.01	104.61	104.17	104.22	104.33	104.42	104.41	104.37	
28	104.09	104.03	103.96	103.97	103.99	104.72	104.17	104.22	104.31	104.42	104.43	104.41	
29	104.09	104.03	103.95	103.98	104.05	104.69	104.44	104.27	104.32	104.43		104.38	
30	104.11	104.03	103.95	104.01	104.11	104.65	104.62	104.23	104.33	104.45		104.39	
31		104.05		104.08	104.22		104.68		104.36	104.46		104.38	
Mean	104.06	104.07	103.96	103.98	104.01	104.46	104.56	104.30	104.32	104.41	104.42	104.38	
Max	104.11	104.11	104.05	104.08	104.22	104.98	105.09	104.60	104.43	104.52	104.46	104.43	105.09
Min	104.02	104.03	103.92	103.94	103.95	104.06	104.10	104.05	104.20	104.27	104.39	104.36	103.92

Annual Max Momentary Gage Height 105.16 m. (MSL.) , at 09.00 Hours, on Oct 6, 2016

Zero Gage at Bottom Elevation 104.00 m. (MSL.) , River Bed 102.52 m. (MSL.)

Left Bank Elevation 116.14 m. (MSL.) ,

Right Bank Elevation 115.84 m. (MSL.) , Drainage Are 38,681 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.00	69.50	57.00	36.20	63.00	105.50	210.00	210.00	97.40	110.90	165.20	152.40	
2	55.00	69.50	51.00	38.00	63.00	102.80	174.80	181.20	92.00	116.30	162.00	155.60	
3	51.00	65.00	43.40	38.00	57.00	87.00	171.60	152.40	92.00	124.40	162.00	143.30	
4	57.00	69.50	41.60	38.00	57.00	87.00	238.80	132.50	113.60	129.80	158.80	149.20	
5	59.00	63.00	38.00	38.00	51.00	92.00	297.80	116.30	116.30	129.80	158.80	143.30	
6	59.00	65.00	34.40	39.80	45.20	84.50	380.20	100.10	116.30	132.50	158.80	152.40	
7	53.00	67.00	38.00	43.40	45.20	77.00	361.20	92.00	110.90	135.20	155.60	149.20	
8	53.00	63.00	38.00	43.40	38.00	77.00	368.80	89.50	113.60	137.90	152.40	143.30	
9	57.00	67.00	34.40	38.00	43.40	67.00	357.40	92.00	102.80	119.00	152.40	143.30	
10	53.00	65.00	36.20	39.80	39.80	63.00	330.80	113.60	140.60	152.40	149.20	146.00	
11	55.00	63.00	39.80	39.80	43.40	59.00	284.20	194.00	140.60	162.00	155.60	140.60	
12	61.00	61.00	36.20	39.80	41.60	59.00	222.80	190.80	152.40	158.80	155.60	137.90	
13	61.00	59.00	39.80	38.00	39.80	59.00	226.00	146.00	155.60	162.00	152.40	137.90	
14	57.00	63.00	34.40	36.20	43.40	84.50	178.00	137.90	137.90	162.00	149.20	140.60	
15	59.00	63.00	39.80	39.80	45.20	135.20	184.40	171.60	140.60	171.60	143.30	135.20	
16	59.00	65.00	32.60	45.20	41.60	248.40	197.20	168.40	132.50	184.40	146.00	135.20	
17	57.00	63.00	38.00	41.60	45.20	330.80	219.60	152.40	129.80	184.40	143.30	135.20	
18	61.00	65.00	36.20	41.60	43.40	338.40	181.20	129.80	132.50	171.60	146.00	135.20	
19	59.00	65.00	38.00	41.60	41.60	287.60	174.80	124.40	132.50	168.40	143.30	140.60	
20	59.00	63.00	39.80	41.60	43.40	254.80	174.80	84.50	132.50	165.20	155.60	137.90	
21	63.00	65.00	38.00	45.20	53.00	284.20	140.60	69.50	129.80	165.20	146.00	137.90	
22	61.00	55.00	34.40	43.40	51.00	323.20	113.60	57.00	132.50	158.80	149.20	140.60	
23	63.00	55.00	38.00	43.40	51.00	301.20	102.80	57.00	121.70	152.40	152.40	137.90	
24	59.00	55.00	39.80	53.00	45.20	258.00	69.50	72.00	124.40	155.60	149.20	140.60	
25	65.00	57.00	43.40	49.00	43.40	213.20	67.00	82.00	121.70	149.20	152.40	143.30	
26	67.00	53.00	49.00	51.00	45.20	184.40	87.00	69.50	121.70	152.40	152.40	137.90	
27	63.00	53.00	41.60	45.20	49.00	213.20	84.50	97.40	127.10	152.40	149.20	137.90	
28	65.00	53.00	39.80	41.60	45.20	248.40	84.50	97.40	121.70	152.40	155.60	149.20	
29	65.00	53.00	38.00	43.40	57.00	238.80	158.80	110.90	124.40	155.60		140.60	
30	69.50	53.00	38.00	49.00	69.50	226.00	216.40	100.10	127.10	162.00		143.30	
31		57.00		63.00	97.40		235.60		135.20	165.20		140.60	
Total	1780.50	1902.50	1186.60	1325.00	1538.10	5190.10	6294.70	3592.20	3869.70	4699.80	4271.90	4404.10	40055.20 CMSDAY
Mean	59.35	61.37	39.55	42.74	49.62	173.00	203.05	119.74	124.83	151.61	152.57	142.07	109.74 CMS
Max	69.50	69.50	57.00	63.00	97.40	338.40	380.20	210.00	155.60	184.40	165.20	155.60	380.20 CMS
Min	51.00	53.00	32.60	36.20	38.00	59.00	67.00	57.00	92.00	110.90	143.30	135.20	32.60 CMS
Runoff	153.84	164.38	102.52	114.48	132.89	448.42	543.86	310.37	334.34	406.06	369.09	380.51	3460.77 MCM

Momentary Peak 406.80 CMS. at 105.16 m. (MSL.) at 09.00 Hours , on Oct 6, 2016

Runoff Yield 2.84 Liters/Second/Square KM. Momentary Peak Yield 10.520 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Mae Taeng **Amphoe** Mae Taeng **Changwat** Chiang Mai

Drainge Area	1,930 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+334.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In the vicinity of Amphoe Mae Taeng office **Elevation** +339.946 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1955 to date
Rating Operation	
Period of Rating	1955 - 1960 , 1967 to date
Rated by Flot	-
Rated by Current Meter	1955 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

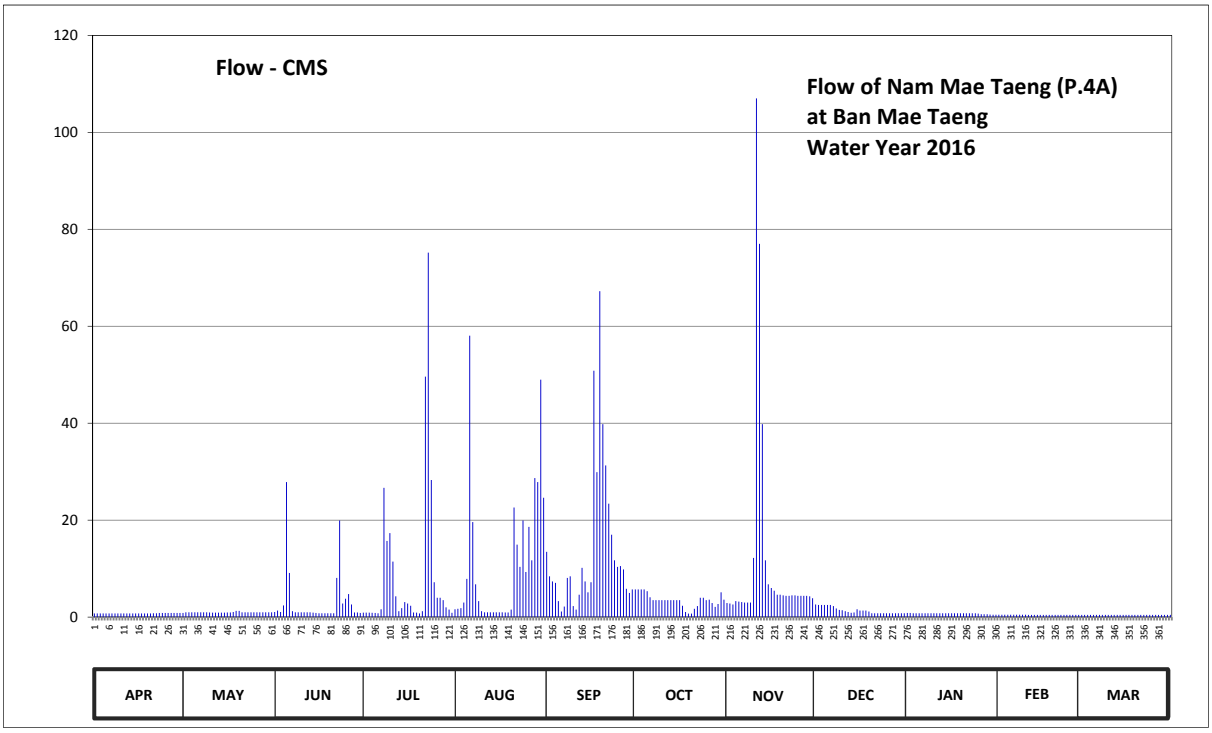
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	333.34	333.36	333.41	333.38	333.49	334.31	333.90	333.64	333.61	333.36	333.26	333.25	
2	333.34	333.40	333.45	333.38	333.50	334.07	333.90	333.63	333.60	333.36	333.26	333.25	
3	333.34	333.40	333.41	333.38	333.52	334.01	333.90	333.61	333.60	333.35	333.26	333.25	
4	333.34	333.40	333.59	333.37	333.65	333.99	333.90	333.68	333.60	333.35	333.26	333.25	
5	333.34	333.40	334.74	333.36	334.04	333.68	333.87	333.67	333.60	333.35	333.26	333.25	
6	333.34	333.40	334.11	333.35	335.27	333.42	333.76	333.66	333.60	333.35	333.26	333.25	
7	333.34	333.40	333.43	333.49	334.52	333.56	333.70	333.65	333.57	333.35	333.26	333.25	
8	333.34	333.40	333.40	334.71	333.97	334.05	333.70	333.65	333.51	333.35	333.26	333.25	
9	333.34	333.40	333.40	334.40	333.68	334.07	333.70	333.65	333.47	333.35	333.26	333.25	
10	333.34	333.39	333.40	334.45	333.43	333.57	333.70	334.26	333.46	333.35	333.26	333.25	
11	333.34	333.38	333.40	334.23	333.40	333.48	333.70	335.80	333.43	333.35	333.25	333.25	
12	333.34	333.38	333.40	333.78	333.40	333.81	333.70	335.50	333.41	333.35	333.25	333.25	
13	333.34	333.38	333.40	333.43	333.40	334.17	333.70	334.99	333.37	333.35	333.25	333.25	
14	333.34	333.38	333.38	333.52	333.40	334.01	333.70	334.24	333.39	333.35	333.25	333.25	
15	333.34	333.38	333.36	333.66	333.40	333.85	333.70	333.97	333.49	333.35	333.25	333.25	
16	333.34	333.39	333.35	333.63	333.40	334.00	333.70	333.92	333.45	333.35	333.25	333.25	
17	333.34	333.39	333.35	333.58	333.40	335.17	333.58	333.88	333.45	333.35	333.25	333.25	
18	333.34	333.41	333.35	333.39	333.39	334.79	333.41	333.81	333.45	333.35	333.25	333.25	
19	333.34	333.44	333.35	333.38	333.39	335.39	333.33	333.81	333.42	333.35	333.25	333.25	
20	333.34	333.44	333.35	333.34	333.48	334.99	333.33	333.80	333.35	333.35	333.25	333.25	
21	333.35	333.40	333.35	333.43	334.61	334.82	333.50	333.79	333.35	333.35	333.25	333.25	
22	333.35	333.40	334.05	335.15	334.37	334.63	333.57	333.79	333.35	333.35	333.25	333.25	
23	333.36	333.40	334.53	335.48	334.18	334.44	333.75	333.80	333.35	333.35	333.25	333.25	
24	333.36	333.40	333.63	334.75	334.53	334.24	333.75	333.80	333.35	333.35	333.25	333.25	
25	333.36	333.40	333.73	334.00	334.12	334.18	333.70	333.79	333.35	333.33	333.25	333.25	
26	333.36	333.40	333.82	333.75	334.49	334.19	333.71	333.79	333.35	333.30	333.25	333.25	
27	333.36	333.40	333.61	333.75	334.24	334.15	333.64	333.79	333.35	333.30	333.25	333.25	
28	333.36	333.40	333.39	333.70	334.76	333.91	333.55	333.79	333.35	333.30	333.25	333.25	
29	333.36	333.40	333.39	333.54	334.74	333.84	333.62	333.78	333.35	333.28		333.25	
30	333.36	333.40	333.36	333.48	335.14	333.90	333.85	333.74	333.35	333.26		333.25	
31		333.40		333.37	334.66		333.71		333.35	333.26		333.25	
Mean	333.35	333.40	333.56	333.79	333.97	334.16	333.68	333.96	333.44	333.34	333.25	333.25	
Max	333.36	333.44	334.74	335.48	335.27	335.39	333.90	335.80	333.61	333.36	333.26	333.25	335.80
Min	333.34	333.36	333.35	333.34	333.39	333.42	333.33	333.61	333.35	333.26	333.25	333.25	333.25

Annual Max Momentary Gage Height 336.16 m. (MSL.) , at 03.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 334.00 m. (MSL.) , River Bed 334.00 m. (MSL.)

Left Bank Elevation 339.87 m. (MSL.) ,

Right Bank Elevation 339.87 m. (MSL.) , Drainage Are 1,930 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	0.84	1.07	0.92	1.63	13.45	5.70	2.90	2.60	0.84	0.48	0.45		
2	0.76	1.00	1.35	0.92	1.70	8.42	5.70	2.80	2.50	0.84	0.48	0.45		
3	0.76	1.00	1.07	0.92	1.86	7.37	5.70	2.60	2.50	0.80	0.48	0.45		
4	0.76	1.00	2.42	0.88	3.00	7.05	5.70	3.30	2.50	0.80	0.48	0.45		
5	0.76	1.00	27.87	0.84	7.90	3.30	5.34	3.20	2.50	0.80	0.48	0.45		
6	0.76	1.00	9.12	0.80	58.05	1.14	4.10	3.10	2.50	0.80	0.48	0.45		
7	0.76	1.00	1.21	1.63	19.60	2.18	3.50	3.00	2.26	0.80	0.48	0.45		
8	0.76	1.00	1.00	26.66	6.75	8.07	3.50	3.00	1.78	0.80	0.48	0.45		
9	0.76	1.00	1.00	15.70	3.30	8.42	3.50	3.00	1.49	0.80	0.48	0.45		
10	0.76	0.96	1.00	17.33	1.21	2.26	3.50	12.20	1.42	0.80	0.48	0.45		
11	0.76	0.92	1.00	11.45	1.00	1.56	3.50	107.00	1.21	0.80	0.45	0.45		
12	0.76	0.92	1.00	4.30	1.00	4.62	3.50	77.00	1.07	0.80	0.45	0.45		
13	0.76	0.92	1.00	1.21	1.00	10.17	3.50	39.80	0.88	0.80	0.45	0.45		
14	0.76	0.92	0.92	1.86	1.00	7.37	3.50	11.70	0.96	0.80	0.45	0.45		
15	0.76	0.92	0.84	3.10	1.00	5.10	3.50	6.75	1.63	0.80	0.45	0.45		
16	0.76	0.96	0.80	2.80	1.00	7.20	3.50	6.00	1.35	0.80	0.45	0.45		
17	0.76	0.96	0.80	2.34	1.00	50.84	2.34	5.46	1.35	0.80	0.45	0.45		
18	0.76	1.07	0.80	0.96	0.96	29.90	1.07	4.62	1.35	0.80	0.45	0.45		
19	0.76	1.28	0.80	0.92	0.96	67.24	0.72	4.62	1.14	0.80	0.45	0.45		
20	0.76	1.28	0.80	0.76	1.56	39.80	0.72	4.50	0.80	0.80	0.45	0.45		
21	0.80	1.00	0.80	1.21	22.60	31.30	1.70	4.40	0.80	0.80	0.45	0.45		
22	0.80	1.00	8.07	49.60	14.95	23.41	2.26	4.40	0.80	0.80	0.45	0.45		
23	0.84	1.00	19.92	75.20	10.35	17.00	4.00	4.50	0.80	0.80	0.45	0.45		
24	0.84	1.00	2.80	28.28	19.92	11.70	4.00	4.50	0.80	0.80	0.45	0.45		
25	0.84	1.00	3.80	7.20	9.30	10.35	3.50	4.40	0.80	0.72	0.45	0.45		
26	0.84	1.00	4.74	4.00	18.63	10.52	3.60	4.40	0.80	0.60	0.45	0.45		
27	0.84	1.00	2.60	4.00	11.70	9.82	2.90	4.40	0.80	0.60	0.45	0.45		
28	0.84	1.00	0.96	3.50	28.68	5.85	2.10	4.40	0.80	0.60	0.45	0.45		
29	0.84	1.00	0.96	2.02	27.87	4.98	2.70	4.30	0.80	0.54		0.45		
30	0.84	1.00	0.84	1.56	48.98	5.70	5.10	3.90	0.80	0.48		0.45		
31		1.00		0.88	24.63		3.60		0.80	0.48		0.45		
Total	23.52	30.95	101.36	273.75	353.09	416.09	107.55	350.15	42.59	23.30	12.90	13.95	1749.20	CMSDAY
Mean	0.78	1.00	3.38	8.83	11.39	13.87	3.47	11.67	1.37	0.75	0.46	0.45	4.79	CMS
Max	0.84	1.28	27.87	75.20	58.05	67.24	5.70	107.00	2.60	0.84	0.48	0.45	107.00	CMS
Min	0.76	0.84	0.80	0.76	0.96	1.14	0.72	2.60	0.80	0.48	0.45	0.45	0.45	CMS
Runoff	2.03	2.67	8.76	23.65	30.51	35.95	9.29	30.25	3.68	2.01	1.11	1.21	151.13	MCM

Momentary Peak 150.00 CMS. at 336.16 m. (MSL.) at 03.00 Hours , on Nov 11 , 2016

Runoff Yield 2.52 Liters/Second/Square KM. Momentary Peak Yield 78.860 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Tha Nang Bridge **Amphoe** Mueang **Changwat** Lamphun

Drainge Area	1,569 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+288.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +294.592 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1978 - 1992 , 2006 to date
Rating Operation	
Period of Rating	1978 - 1992 , 2006 to date
Rated by Flot	-
Rated by Current Meter	1978 - 1992 , 2006 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

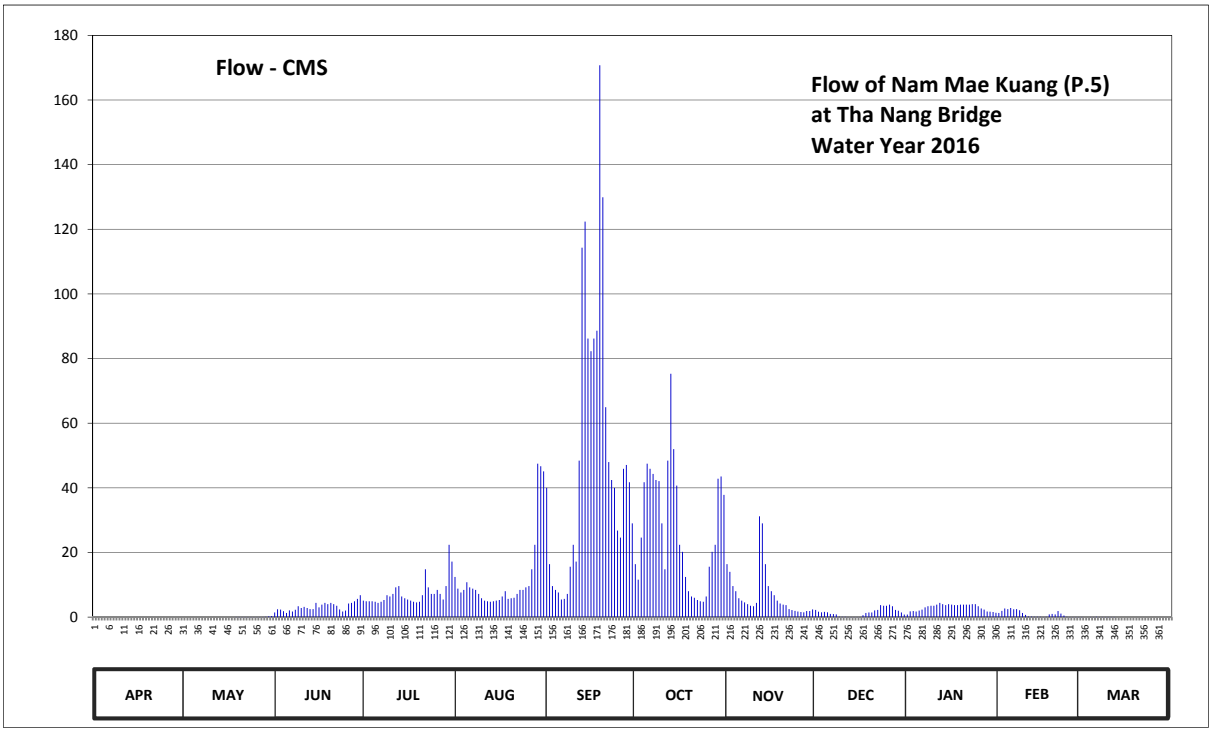
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.23	290.26	290.86	291.25	291.43	291.60	291.48	291.48	291.03	290.76	290.84	290.29	
2	290.23	290.24	291.08	291.24	291.37	291.48	291.42	291.45	290.90	290.92	290.96	290.25	
3	290.20	290.22	291.05	291.24	291.34	291.39	291.53	291.39	290.87	290.94	291.11	290.24	
4	290.20	290.24	290.93	291.24	291.36	291.36	291.65	291.35	290.89	290.91	291.09	290.32	
5	290.20	290.25	290.84	291.23	291.41	291.34	291.80	291.29	290.87	290.98	291.12	290.29	
6	290.21	290.24	290.99	291.21	291.38	291.27	291.76	291.25	290.80	291.06	291.08	290.45	
7	290.23	290.23	290.91	291.23	291.37	291.28	291.72	291.22	290.79	291.13	291.09	290.39	
8	290.20	290.23	291.04	291.26	291.36	291.33	291.67	291.19	290.77	291.15	291.01	290.42	
9	290.20	290.24	291.15	291.32	291.33	291.47	291.66	291.16	290.56	291.16	290.84	290.38	
10	290.21	290.25	291.12	291.31	291.29	291.52	291.55	291.15	290.51	291.16	290.74	290.28	
11	290.23	290.25	291.14	291.33	291.25	291.49	291.46	291.21	290.45	291.18	290.60	290.29	
12	290.24	290.25	291.12	291.38	291.24	291.82	291.82	291.56	290.41	291.21	290.53	290.28	
13	290.23	290.23	291.09	291.39	291.23	292.77	292.29	291.55	290.41	291.19	290.50	290.27	
14	290.19	290.23	291.09	291.31	291.24	292.85	291.90	291.48	290.38	291.17	290.49	290.26	
15	290.18	290.22	291.21	291.29	291.25	292.44	291.62	291.39	290.40	291.19	290.48	290.27	
16	290.16	290.20	291.13	291.27	291.26	292.39	291.52	291.35	290.38	291.18	290.43	290.27	
17	290.15	290.20	291.18	291.25	291.31	292.44	291.51	291.32	290.72	291.17	290.45	290.25	
18	290.14	290.24	291.21	291.23	291.35	292.47	291.43	291.25	290.84	291.17	290.77	290.25	
19	290.14	290.29	291.19	291.22	291.28	293.26	291.35	291.20	290.86	291.18	290.80	290.24	
20	290.13	290.37	291.21	291.23	291.29	292.92	291.31	291.18	290.86	291.18	290.77	290.22	
21	290.14	290.40	291.19	291.32	291.30	292.13	291.30	291.17	290.99	291.18	290.95	290.22	
22	290.12	290.37	291.16	291.46	291.33	291.81	291.26	291.09	291.03	291.18	290.81	290.22	
23	290.12	290.35	291.07	291.38	291.36	291.67	291.24	291.02	291.17	291.19	290.69	290.22	
24	290.11	290.33	290.91	291.33	291.36	291.60	291.23	290.96	291.16	291.19	290.49	290.22	
25	290.15	290.31	290.98	291.33	291.38	291.54	291.31	290.91	291.16	291.15	290.43	290.22	
26	290.15	290.29	291.20	291.36	291.39	291.53	291.47	290.88	291.18	291.11	290.39	290.21	
27	290.16	290.30	291.21	291.33	291.46	291.76	291.51	290.87	291.15	291.05	290.35	290.23	
28	290.19	290.31	291.24	291.27	291.52	291.79	291.52	290.95	291.03	290.91	290.32	290.25	
29	290.22	290.49	291.28	291.39	291.80	291.65	291.68	290.95	290.97	290.90		290.22	
30	290.25	290.62	291.32	291.52	291.78	291.55	291.70	291.07	290.86	290.88		290.23	
31		290.64		291.49	291.74		291.59		290.76	290.85		290.23	
Mean	290.18	290.30	291.10	291.31	291.38	291.86	291.56	291.21	290.81	291.08	290.72	290.27	
Max	290.25	290.64	291.32	291.52	291.80	293.26	292.29	291.56	291.18	291.21	291.12	290.45	293.26
Min	290.11	290.20	290.84	291.21	291.23	291.27	291.23	290.87	290.38	290.76	290.32	290.21	290.11

Annual Max Momentary Gage Height 293.34 m. (MSL.) , at 03.00 Hours , on Sep 19, 2016

Zero Gage at Bottom Elevation 288.50 m. (MSL.) , River Bed 288.97 m. (MSL.)

Left Bank Elevation 295.83 m. (MSL.) ,

Right Bank Elevation 295.97 m. (MSL.) , Drainage Are 1,569 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	0.02	1.42	5.10	12.40	40.00	16.40	16.40	2.22	0.80	1.28	0.03		
2	0.02	0.02	2.42	4.92	8.80	16.40	11.60	14.00	1.70	1.78	1.94	0.02		
3	0.01	0.01	2.30	4.92	7.60	9.60	24.60	9.60	1.49	1.86	2.67	0.02		
4	0.01	0.02	1.82	4.92	8.40	8.40	41.75	8.00	1.63	1.74	2.46	0.04		
5	0.01	0.02	1.28	4.74	10.80	7.60	47.50	5.82	1.49	2.02	2.84	0.03		
6	0.01	0.02	2.06	4.38	9.20	5.46	45.90	5.10	1.00	2.34	2.42	0.08		
7	0.02	0.02	1.74	4.74	8.80	5.64	44.30	4.56	0.95	3.01	2.46	0.06		
8	0.01	0.02	2.26	5.28	8.40	7.20	42.45	4.03	0.85	3.35	2.14	0.07		
9	0.01	0.02	3.35	6.80	7.20	15.60	42.10	3.52	0.16	3.52	1.28	0.05		
10	0.01	0.02	2.84	6.40	5.82	22.40	29.00	3.35	0.11	3.52	0.70	0.03		
11	0.02	0.02	3.18	7.20	5.10	17.20	14.80	4.38	0.08	3.86	0.20	0.03		
12	0.02	0.02	2.84	9.20	4.92	48.40	48.40	31.20	0.06	4.38	0.13	0.03		
13	0.02	0.02	2.46	9.60	4.74	114.30	75.30	29.00	0.06	4.03	0.10	0.02		
14	0.01	0.02	2.46	6.40	4.92	122.38	52.00	16.40	0.05	3.69	0.10	0.02		
15	0.01	0.01	4.38	5.82	5.10	86.20	40.70	9.60	0.06	4.03	0.09	0.02		
16	0.01	0.01	3.01	5.46	5.28	82.30	22.40	8.00	0.05	3.86	0.07	0.02		
17	0.00	0.01	3.86	5.10	6.40	86.20	20.20	6.80	0.60	3.69	0.08	0.02		
18	0.00	0.02	4.38	4.74	8.00	88.60	12.40	5.10	1.28	3.69	0.85	0.02		
19	0.00	0.03	4.03	4.56	5.64	170.75	8.00	4.20	1.42	3.86	1.00	0.02		
20	0.00	0.05	4.38	4.74	5.82	129.90	6.40	3.86	1.42	3.86	0.85	0.01		
21	0.00	0.06	4.03	6.80	6.00	64.97	6.00	3.69	2.06	3.86	1.90	0.01		
22	0.00	0.05	3.52	14.80	7.20	47.95	5.28	2.46	2.22	3.86	1.07	0.01		
23	0.00	0.05	2.38	9.20	8.40	42.45	4.92	2.18	3.69	4.03	0.47	0.01		
24	0.00	0.04	1.74	7.20	8.40	40.00	4.74	1.94	3.52	4.03	0.10	0.01		
25	0.00	0.03	2.02	7.20	9.20	26.80	6.40	1.74	3.52	3.35	0.07	0.01		
26	0.00	0.03	4.20	8.40	9.60	24.60	15.60	1.56	3.86	2.67	0.06	0.01		
27	0.01	0.03	4.38	7.20	14.80	45.90	20.20	1.49	3.35	2.30	0.05	0.02		
28	0.01	0.03	4.92	5.46	22.40	47.10	22.40	1.90	2.22	1.74	0.04	0.02		
29	0.01	0.10	5.64	9.60	47.50	41.75	42.80	1.90	1.98	1.70		0.01		
30	0.02	0.26	6.80	22.40	46.70	29.00	43.50	2.38	1.42	1.56		0.02		
31		0.32		17.20	45.10		37.80		0.80	1.35		0.02		
Total	0.27	1.40	96.10	230.48	368.64	1495.05	855.84	214.16	45.32	93.34	27.42	0.79	3428.81	CMSDAY
Mean	0.01	0.05	3.20	7.43	11.89	49.84	27.61	7.14	1.46	3.01	0.98	0.03	9.39	CMS
Max	0.02	0.32	6.80	22.40	47.50	170.75	75.30	31.20	3.86	4.38	2.84	0.08	170.75	CMS
Min	0.00	0.01	1.28	4.38	4.74	5.46	4.74	1.49	0.05	0.80	0.04	0.01	0.00	CMS
Runoff	0.02	0.12	8.30	19.91	31.85	129.17	73.94	18.50	3.92	8.06	2.37	0.07	296.25	MCM

Momentary Peak 181.75 CMS. at 293.34 m. (MSL.) at 03.00 Hours , on Sep 19, 2016

Runoff Yield 5.99 Liters/Second/Square KM. Momentary Peak Yield 115.840 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Huai Yang **Amphoe** Mueang **Changwat** Kamphaeng Phet

Drainge Area	42,464 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+71.730 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage observers house. **Elevation** +77.717 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1960 to date
Rating Operation	
Period of Rating	1960 - 1961 , 1967 to date
Rated by Flot	-
Rated by Current Meter	1960 - 1961 , 1967 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservior above gage site. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

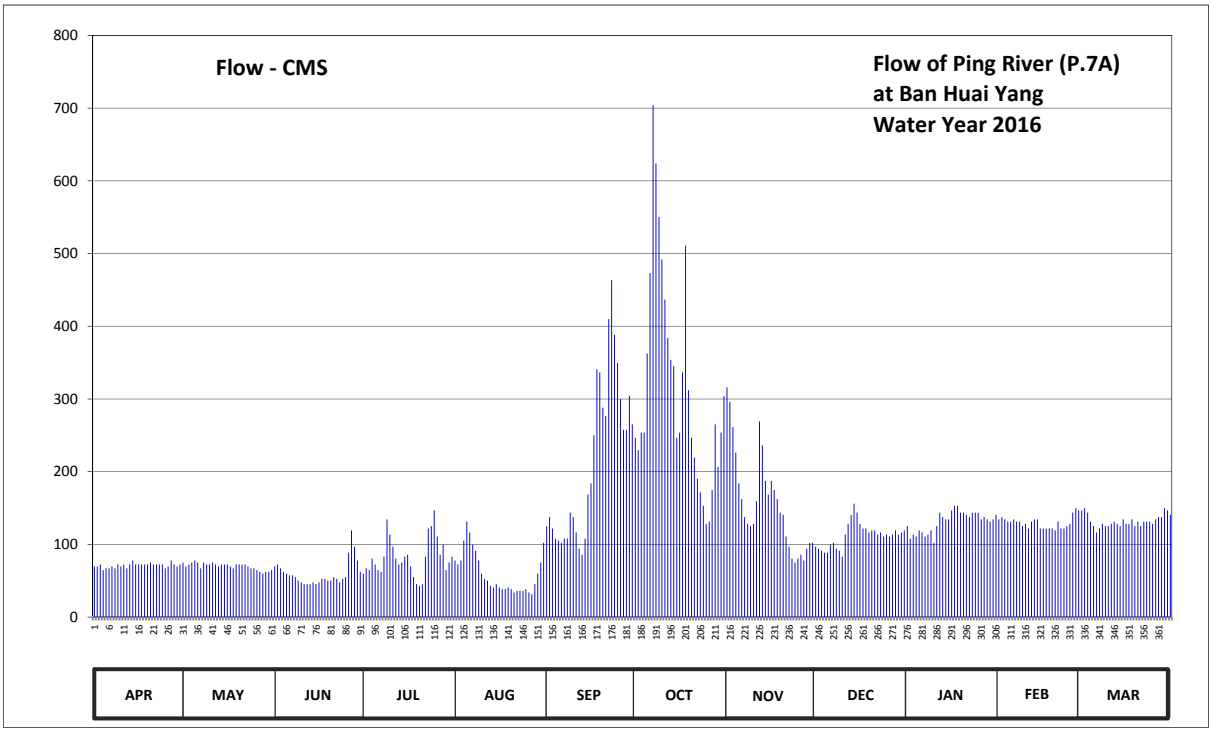
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.01	72.03	72.01	71.97	72.04	72.21	72.59	72.77	72.11	72.21	72.24	72.28	
2	72.01	72.01	72.02	72.00	72.02	72.25	72.54	72.72	72.10	72.15	72.25	72.29	
3	72.02	72.02	72.00	71.99	72.04	72.20	72.61	72.63	72.09	72.17	72.24	72.27	
4	71.99	72.03	71.98	72.05	72.14	72.15	72.61	72.53	72.08	72.16	72.23	72.23	
5	72.00	72.04	71.97	72.02	72.23	72.14	72.88	72.40	72.08	72.19	72.23	72.21	
6	72.00	72.03	71.96	71.99	72.18	72.13	73.13	72.33	72.12	72.18	72.24	72.18	
7	72.01	72.00	71.96	71.98	72.12	72.15	73.60	72.25	72.13	72.16	72.23	72.20	
8	72.00	72.03	71.95	72.06	72.09	72.15	73.44	72.22	72.10	72.17	72.23	72.22	
9	72.02	72.02	71.93	72.24	72.04	72.27	73.29	72.21	72.09	72.19	72.21	72.21	
10	72.01	72.02	71.92	72.17	71.97	72.25	73.17	72.22	72.06	72.13	72.22	72.21	
11	72.02	72.03	71.91	72.11	71.94	72.18	73.05	72.32	72.17	72.21	72.20	72.22	
12	72.00	72.02	71.91	72.05	71.93	72.10	72.93	72.65	72.22	72.27	72.23	72.23	
13	72.02	72.01	71.91	72.02	71.90	72.07	72.86	72.56	72.26	72.25	72.24	72.22	
14	72.04	72.02	71.92	72.03	71.89	72.15	72.84	72.41	72.31	72.24	72.24	72.21	
15	72.02	72.02	71.91	72.06	71.91	72.35	72.59	72.35	72.27	72.24	72.20	72.24	
16	72.02	72.02	71.92	72.07	71.89	72.40	72.61	72.41	72.22	72.28	72.20	72.22	
17	72.02	72.01	71.94	72.01	71.88	72.60	72.82	72.37	72.20	72.30	72.20	72.22	
18	72.02	72.00	71.94	71.95	71.88	72.83	73.21	72.33	72.20	72.30	72.20	72.24	
19	72.02	72.02	71.93	71.91	71.89	72.82	72.76	72.27	72.18	72.27	72.20	72.21	
20	72.03	72.02	71.93	71.90	71.88	72.70	72.59	72.26	72.19	72.27	72.19	72.23	
21	72.02	72.02	71.95	71.91	71.86	72.67	72.51	72.16	72.19	72.26	72.23	72.21	
22	72.02	72.02	71.94	72.06	71.87	72.99	72.42	72.11	72.17	72.25	72.20	72.23	
23	72.02	72.01	71.92	72.20	71.87	73.11	72.36	72.05	72.18	72.27	72.20	72.23	
24	72.02	72.00	71.94	72.21	71.87	72.94	72.30	72.03	72.16	72.27	72.21	72.23	
25	72.00	72.00	71.95	72.28	71.88	72.85	72.22	72.05	72.17	72.27	72.22	72.22	
26	72.01	71.99	72.08	72.16	71.86	72.73	72.23	72.07	72.16	72.24	72.27	72.24	
27	72.04	71.98	72.19	72.07	71.85	72.62	72.37	72.04	72.17	72.25	72.29	72.25	
28	72.02	71.97	72.11	72.12	71.91	72.62	72.64	72.10	72.19	72.24	72.28	72.25	
29	72.01	71.98	72.04	71.99	71.97	72.74	72.47	72.13	72.17	72.23		72.29	
30	72.02	71.98	71.98	72.03	72.03	72.64	72.61	72.13	72.18	72.24		72.28	
31		71.99		72.06	72.13		72.74		72.19	72.26		72.26	
Mean	72.02	72.01	71.97	72.05	71.97	72.47	72.74	72.30	72.16	72.23	72.23	72.23	
Max	72.04	72.04	72.19	72.28	72.23	73.11	73.60	72.77	72.31	72.30	72.29	72.29	73.60
Min	71.99	71.97	71.91	71.90	71.85	72.07	72.22	72.03	72.06	72.13	72.19	72.18	71.85

Annual Max Momentary Gage Height 73.68 m. (MSL.) , at 06.00 Hours , on Oct 7 , 2016

Zero Gage at Bottom Elevation 71.73 m. (MSL.) , River Bed 69.41 m. (MSL.)

Left Bank Elevation 82.42 m. (MSL.) ,

Right Bank Elevation 81.72 m. (MSL.) , Drainage Are 42,464 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	69.70	75.10	69.70	59.80	77.80	125.10	246.60	316.00	96.80	125.10	134.40	146.80	
2	69.70	69.70	72.40	67.00	72.40	137.50	229.60	296.00	94.00	108.00	137.50	149.90	
3	72.40	72.40	67.00	64.60	77.80	122.00	253.80	261.40	91.30	113.60	134.40	143.70	
4	64.60	75.10	62.20	80.50	105.20	108.00	253.80	226.20	88.60	110.80	131.30	131.30	
5	67.00	77.80	59.80	72.40	131.30	105.20	362.40	184.00	88.60	119.20	131.30	125.10	
6	67.00	75.10	57.40	64.60	116.40	102.40	473.10	162.30	99.60	116.40	134.40	116.40	
7	69.70	67.00	57.40	62.20	99.60	108.00	704.00	137.50	102.40	110.80	131.30	122.00	
8	67.00	75.10	55.00	83.20	91.30	108.00	624.00	128.20	94.00	113.60	131.30	128.20	
9	72.40	72.40	50.20	134.40	77.80	143.70	550.10	125.10	91.30	119.20	125.10	125.10	
10	69.70	72.40	47.80	113.60	59.80	137.50	491.90	128.20	83.20	102.40	128.20	125.10	
11	72.40	75.10	45.40	96.80	52.60	116.40	436.50	159.20	113.60	125.10	122.00	128.20	
12	67.00	72.40	45.40	80.50	50.20	94.00	383.90	269.00	128.20	143.70	131.30	131.30	
13	72.40	69.70	45.40	72.40	43.00	85.90	353.80	236.40	140.60	137.50	134.40	128.20	
14	77.80	72.40	47.80	75.10	40.70	108.00	345.20	187.20	156.10	134.40	134.40	125.10	
15	72.40	72.40	45.40	83.20	45.40	168.50	246.60	168.50	143.70	134.40	122.00	134.40	
16	72.40	72.40	47.80	85.90	40.70	184.00	253.80	187.20	128.20	146.80	122.00	128.20	
17	72.40	69.70	52.60	69.70	38.40	250.00	336.60	174.70	122.00	153.00	122.00	128.20	
18	72.40	67.00	52.60	55.00	38.40	340.90	510.90	162.30	122.00	153.00	122.00	134.40	
19	72.40	72.40	50.20	45.40	40.70	336.60	312.00	143.70	116.40	143.70	122.00	125.10	
20	75.10	72.40	50.20	43.00	38.40	288.00	246.60	140.60	119.20	143.70	119.20	131.30	
21	72.40	72.40	55.00	45.40	33.80	276.60	219.40	110.80	119.20	140.60	131.30	125.10	
22	72.40	72.40	52.60	83.20	36.10	409.70	190.40	96.80	113.60	137.50	122.00	131.30	
23	72.40	69.70	47.80	122.00	36.10	463.70	171.60	80.50	116.40	143.70	122.00	131.30	
24	72.40	67.00	52.60	125.10	36.10	388.20	153.00	75.10	110.80	143.70	125.10	131.30	
25	67.00	67.00	55.00	146.80	38.40	349.50	128.20	80.50	113.60	143.70	128.20	128.20	
26	69.70	64.60	88.60	110.80	33.80	300.00	131.30	85.90	110.80	134.40	143.70	134.40	
27	77.80	62.20	119.20	85.90	31.50	257.60	174.70	77.80	113.60	137.50	149.90	137.50	
28	72.40	59.80	96.80	99.60	45.40	257.60	265.20	94.00	119.20	134.40	146.80	137.50	
29	69.70	62.20	77.80	64.60	59.80	304.00	206.40	102.40	113.60	131.30		149.90	
30	72.40	62.20	62.20	75.10	75.10	265.20	253.80	102.40	116.40	134.40		146.80	
31		64.60		83.20	102.40		304.00		119.20	140.60		140.60	
Total	2134.50	2172.10	1789.30	2551.00	1866.40	6441.80	9813.20	4699.90	3486.20	4076.20	3639.50	4101.90	46772.00 CMSDAY
Mean	71.15	70.07	59.64	82.29	60.21	214.73	316.55	156.66	112.46	131.49	129.98	132.32	128.14 CMS
Max	77.80	77.80	119.20	146.80	131.30	463.70	704.00	316.00	156.10	153.00	149.90	149.90	704.00 CMS
Min	64.60	59.80	45.40	43.00	31.50	85.90	128.20	75.10	83.20	102.40	119.20	116.40	31.50 CMS
Runoff	184.42	187.67	154.60	220.41	161.26	556.57	847.86	406.07	301.21	352.18	314.45	354.40	4041.10 MCM

Momentary Peak 745.60 CMS. at 73.68 m. (MSL.) at 06.00 Hours , on Oct 7 , 2016

Runoff Yield 3.02 Liters/Second/Square KM. Momentary Peak Yield 17.560 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Yanree , Tak (P.12C)

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

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

Ban Yanree **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	26,241 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+129.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the pier of the bridge. **Elevation** +137.031 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservior downstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

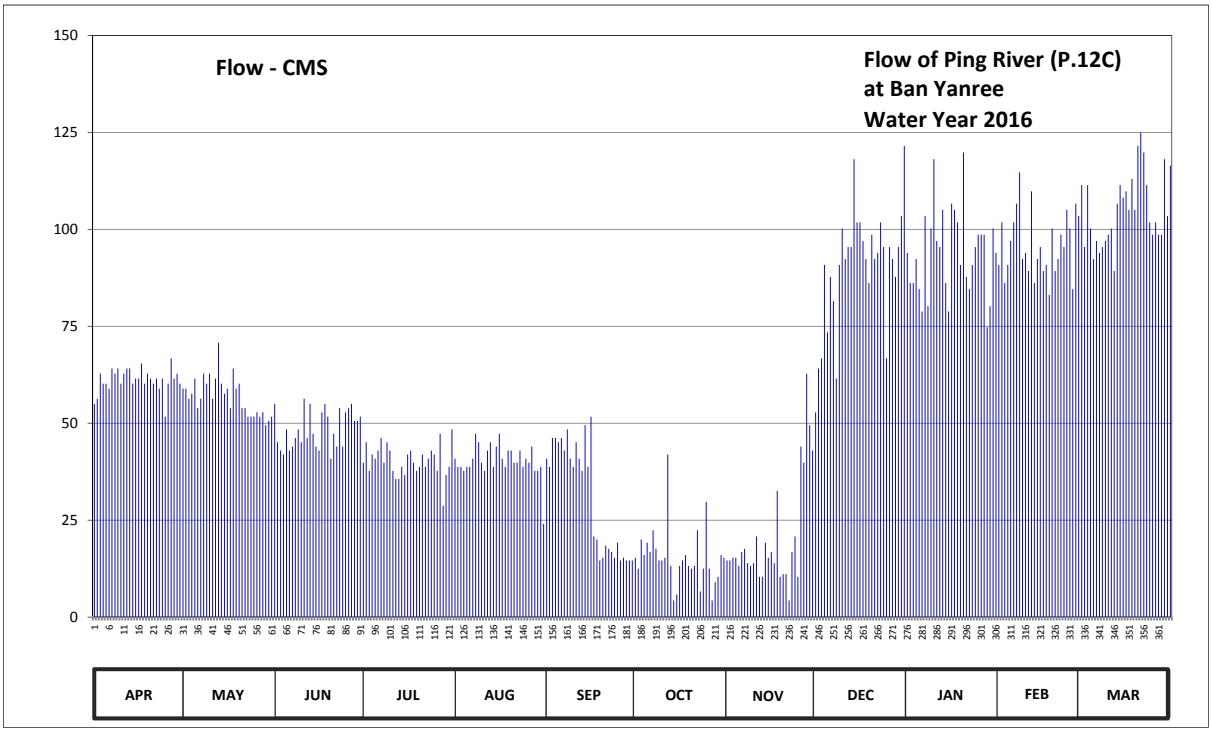
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.50	129.53	129.50	129.36	129.37	129.37	129.09	129.08	129.48	129.78	129.76	129.89	
2	129.51	129.53	129.41	129.41	129.35	129.35	129.05	129.08	129.57	129.73	129.83	129.79	
3	129.56	129.51	129.39	129.34	129.35	129.42	129.15	129.09	129.59	129.73	129.73	129.89	
4	129.54	129.52	129.38	129.38	129.34	129.42	129.10	129.09	129.76	129.77	129.76	129.82	
5	129.54	129.55	129.44	129.37	129.35	129.41	129.14	129.06	129.64	129.72	129.80	129.77	
6	129.53	129.49	129.39	129.39	129.35	129.42	129.11	129.11	129.74	129.68	129.83	129.80	
7	129.57	129.51	129.40	129.42	129.37	129.39	129.18	129.12	129.70	129.84	129.86	129.78	
8	129.56	129.56	129.42	129.36	129.43	129.44	129.12	129.07	129.55	129.69	129.91	129.79	
9	129.57	129.54	129.44	129.41	129.41	129.37	129.08	129.06	129.76	129.82	129.77	129.80	
10	129.54	129.56	129.41	129.39	129.36	129.35	129.08	129.07	129.82	129.93	129.78	129.81	
11	129.56	129.51	129.51	129.34	129.34	129.41	129.09	129.16	129.77	129.80	129.75	129.82	
12	129.57	129.55	129.42	129.32	129.39	129.37	129.38	129.02	129.79	129.79	129.88	129.75	
13	129.57	129.62	129.50	129.32	129.41	129.34	129.06	129.02	129.79	129.85	129.73	129.86	
14	129.54	129.54	129.43	129.35	129.35	129.45	128.88	129.14	129.93	129.73	129.77	129.89	
15	129.55	129.52	129.40	129.33	129.40	129.35	128.92	129.09	129.83	129.68	129.79	129.87	
16	129.55	129.53	129.39	129.38	129.43	129.47	129.06	129.11	129.83	129.86	129.75	129.88	
17	129.58	129.49	129.48	129.39	129.37	129.16	129.08	129.07	129.80	129.85	129.76	129.85	
18	129.54	129.57	129.50	129.36	129.35	129.15	129.10	129.29	129.77	129.83	129.71	129.90	
19	129.56	129.53	129.47	129.34	129.39	129.08	129.06	129.02	129.73	129.76	129.82	129.85	
20	129.55	129.54	129.37	129.35	129.39	129.09	129.05	129.03	129.81	129.94	129.75	129.95	
21	129.54	129.49	129.43	129.38	129.36	129.13	129.06	129.03	129.77	129.74	129.77	129.97	
22	129.55	129.49	129.40	129.35	129.36	129.12	129.18	128.88	129.78	129.72	129.81	129.94	
23	129.53	129.47	129.49	129.37	129.39	129.11	128.94	129.11	129.83	129.76	129.79	129.89	
24	129.55	129.47	129.40	129.39	129.35	129.09	129.05	129.16	129.79	129.79	129.85	129.83	
25	129.47	129.47	129.48	129.38	129.37	129.14	129.26	129.02	129.59	129.81	129.82	129.81	
26	129.54	129.48	129.49	129.34	129.36	129.08	129.05	129.40	129.79	129.81	129.72	129.83	
27	129.59	129.47	129.50	129.43	129.40	129.09	128.88	129.36	129.77	129.81	129.86	129.81	
28	129.55	129.48	129.46	129.25	129.34	129.08	129.00	129.56	129.74	129.65	129.84	129.81	
29	129.56	129.45	129.46	129.33	129.34	129.08	129.02	129.45	129.79	129.69		129.93	
30	129.54	129.46	129.47	129.35	129.35	129.08	129.10	129.39	129.84	129.82		129.84	
31		129.47		129.44	129.20		129.09		129.95	129.78		129.92	
Mean	129.55	129.51	129.44	129.37	129.37	129.26	129.08	129.14	129.75	129.78	129.79	129.85	
Max	129.59	129.62	129.51	129.44	129.43	129.47	129.38	129.56	129.95	129.94	129.91	129.97	129.97
Min	129.47	129.45	129.37	129.25	129.20	129.08	128.88	128.88	129.48	129.65	129.71	129.75	128.88

Annual Max Momentary Gage Height 132.14 m. (MSL.) , at 21.00 Hours , on Mar 12 , 2017

Zero Gage at Bottom Elevation 129.00 m. (MSL.) , River Bed 127.36 m. (MSL.)

Left Bank Elevation 136.83 m. (MSL.) ,

Right Bank Elevation 136.83 m. (MSL.) , Drainage Are 26,241 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.00	58.90	55.00	39.80	40.85	40.85	15.30	14.60	52.80	93.90	90.80	111.40	
2	56.30	58.90	45.10	45.10	38.75	38.75	12.50	14.60	64.10	86.15	101.80	95.45	
3	62.80	56.30	42.95	37.70	38.75	46.20	20.00	15.30	66.70	86.15	86.15	111.40	
4	60.20	57.60	41.90	41.90	37.70	46.20	16.00	15.30	90.80	92.35	90.80	100.20	
5	60.20	61.50	48.40	40.85	38.75	45.10	19.20	13.20	73.40	84.60	97.00	92.35	
6	58.90	53.90	42.95	42.95	38.75	46.20	16.80	16.80	87.70	78.80	101.80	97.00	
7	64.10	56.30	44.00	46.20	40.85	42.95	22.40	17.60	81.50	103.40	106.60	93.90	
8	62.80	62.80	46.20	39.80	47.30	48.40	17.60	13.90	61.50	80.15	114.70	95.45	
9	64.10	60.20	48.40	45.10	45.10	40.85	14.60	13.20	90.80	100.20	92.35	97.00	
10	60.20	62.80	45.10	42.95	39.80	38.75	14.60	13.90	100.20	118.10	93.90	98.60	
11	62.80	56.30	56.30	37.70	37.70	45.10	15.30	20.80	92.35	97.00	89.25	100.20	
12	64.10	61.50	46.20	35.60	42.95	40.85	41.90	10.40	95.45	95.45	109.80	89.25	
13	64.10	70.70	55.00	35.60	45.10	37.70	13.20	10.40	95.45	105.00	86.15	106.60	
14	60.20	60.20	47.30	38.75	38.75	49.50	4.30	19.20	118.10	86.15	92.35	111.40	
15	61.50	57.60	44.00	36.65	44.00	38.75	5.80	15.30	101.80	78.80	95.45	108.20	
16	61.50	58.90	42.95	41.90	47.30	51.70	13.20	16.80	101.80	106.60	89.25	109.80	
17	65.40	53.90	52.80	42.95	40.85	20.80	14.60	13.90	97.00	105.00	90.80	105.00	
18	60.20	64.10	55.00	39.80	38.75	20.00	16.00	32.55	92.35	101.80	83.05	113.00	
19	62.80	58.90	51.70	37.70	42.95	14.60	13.20	10.40	86.15	90.80	100.20	105.00	
20	61.50	60.20	40.85	38.75	42.95	15.30	12.50	11.10	98.60	119.80	89.25	121.50	
21	60.20	53.90	47.30	41.90	39.80	18.40	13.20	11.10	92.35	87.70	92.35	124.90	
22	61.50	53.90	44.00	38.75	39.80	17.60	22.40	4.30	93.90	84.60	98.60	119.80	
23	58.90	51.70	53.90	40.85	42.95	16.80	6.60	16.80	101.80	90.80	95.45	111.40	
24	61.50	51.70	44.00	42.95	38.75	15.30	12.50	20.80	95.45	95.45	105.00	101.80	
25	51.70	51.70	52.80	41.90	40.85	19.20	29.70	10.40	66.70	98.60	100.20	98.60	
26	60.20	52.80	53.90	37.70	39.80	14.60	12.50	44.00	95.45	98.60	84.60	101.80	
27	66.70	51.70	55.00	47.30	44.00	15.30	4.30	39.80	92.35	98.60	106.60	98.60	
28	61.50	52.80	50.60	28.75	37.70	14.60	9.00	62.80	87.70	74.75	103.40	98.60	
29	62.80	49.50	50.60	36.65	37.70	14.60	10.40	49.50	95.45	80.15		118.10	
30	60.20	50.60	51.70	38.75	38.75	14.60	16.00	42.95	103.40	100.20		103.40	
31		51.70		48.40	24.00		15.30		121.50	93.90		116.40	
Total	1833.90	1763.50	1455.90	1251.65	1252.00	929.55	470.90	611.70	2794.60	2913.55	2687.65	3256.10	21221.00	CMSDAY
Mean	61.13	56.89	48.53	40.38	40.39	30.99	15.19	20.39	90.15	93.99	95.99	105.04	58.14	CMS
Max	66.70	70.70	56.30	48.40	47.30	51.70	41.90	62.80	121.50	119.80	114.70	124.90	124.90	CMS
Min	51.70	49.50	40.85	28.75	24.00	14.60	4.30	4.30	52.80	74.75	83.05	89.25	4.30	CMS
Runoff	158.45	152.37	125.79	108.14	108.17	80.31	40.69	52.85	241.45	251.73	232.21	281.33	1833.49	MCM

Momentary Peak 719.00 CMS. at 132.14 m. (MSL.) at 21.00 Hours , on Mar 12 , 2017

Runoff Yield 2.22 Liters/Second/Square KM. Momentary Peak Yield 27.400 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban - **Amphoe** Chom Thong **Changwat** Chiang Mai

Drainge Area	3,909 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+261.902 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	about 10 meters in front of automatic gage building. **Elevation** +267.972 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1953 to date
Rating Operation	
Period of Rating	1955 - 1960 , 1967 to date
Rated by Flot	-
Rated by Current Meter	1955 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

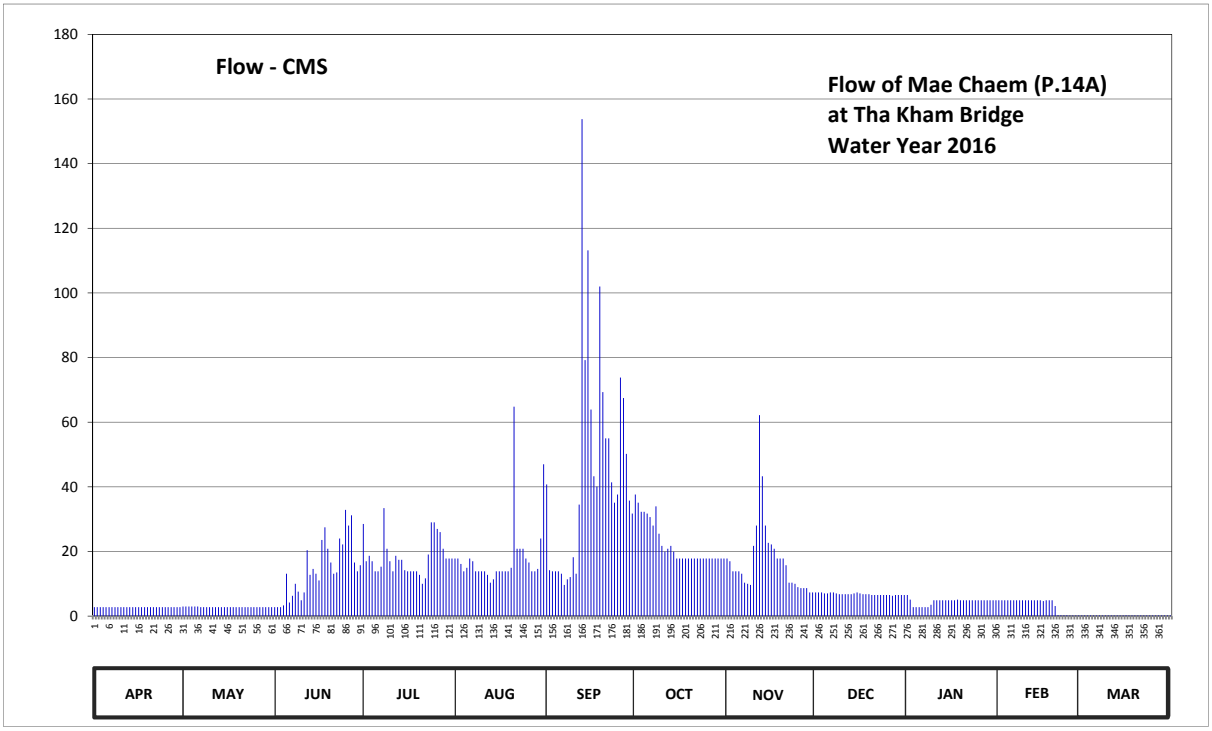
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	262.36	262.37	262.36	263.09	262.86	263.30	263.25	262.86	262.56	262.53	262.46	262.07	
2	262.36	262.37	262.36	262.84	262.86	262.77	263.21	262.84	262.56	262.47	262.46	262.07	
3	262.36	262.37	262.36	262.88	262.82	262.76	263.16	262.76	262.56	262.36	262.46	262.07	
4	262.36	262.37	262.39	262.84	262.76	262.76	263.16	262.76	262.55	262.36	262.46	262.07	
5	262.36	262.37	262.74	262.76	262.79	262.76	263.15	262.76	262.55	262.36	262.46	262.07	
6	262.36	262.37	262.43	262.76	262.86	262.74	263.13	262.74	262.56	262.36	262.46	262.07	
7	262.36	262.36	262.52	262.80	262.84	262.64	263.08	262.66	262.56	262.36	262.46	262.07	
8	262.36	262.36	262.65	263.18	262.76	262.69	263.19	262.65	262.55	262.36	262.46	262.06	
9	262.36	262.36	262.57	262.93	262.76	262.71	263.03	262.64	262.54	262.40	262.46	262.06	
10	262.36	262.36	262.46	262.84	262.76	262.87	262.95	262.95	262.54	262.46	262.46	262.06	
11	262.36	262.36	262.56	262.76	262.76	262.74	262.91	263.08	262.54	262.46	262.46	262.06	
12	262.36	262.36	262.92	262.88	262.73	263.20	262.93	263.59	262.54	262.46	262.46	262.06	
13	262.36	262.36	262.73	262.85	262.66	264.34	262.95	263.34	262.54	262.46	262.46	262.06	
14	262.36	262.36	262.78	262.85	262.69	263.78	262.91	263.08	262.55	262.46	262.46	262.06	
15	262.36	262.36	262.74	262.77	262.76	264.08	262.86	262.97	262.56	262.46	262.46	262.06	
16	262.36	262.36	262.68	262.76	262.76	263.61	262.86	262.96	262.55	262.46	262.45	262.08	
17	262.36	262.36	262.99	262.76	262.76	263.34	262.86	262.93	262.54	262.46	262.46	262.06	
18	262.36	262.36	263.07	262.76	262.76	263.29	262.86	262.86	262.54	262.47	262.46	262.06	
19	262.36	262.36	262.93	262.76	262.76	264.00	262.86	262.86	262.54	262.46	262.46	262.06	
20	262.36	262.36	262.83	262.73	262.79	263.67	262.86	262.86	262.53	262.46	262.38	262.06	
21	262.36	262.36	262.74	262.65	263.62	263.50	262.86	262.81	262.53	262.46	262.09	262.06	
22	262.36	262.36	262.75	262.70	262.93	263.50	262.86	262.66	262.53	262.46	262.08	262.06	
23	262.36	262.36	263.00	262.89	262.93	263.31	262.86	262.66	262.53	262.46	262.08	262.06	
24	262.36	262.36	262.96	263.10	262.93	263.21	262.86	262.65	262.53	262.46	262.08	262.06	
25	262.36	262.36	263.17	263.10	262.86	263.25	262.86	262.62	262.53	262.46	262.07	262.06	
26	262.36	262.36	263.08	263.06	262.83	263.72	262.86	262.61	262.53	262.46	262.07	262.06	
27	262.36	262.36	263.14	263.04	262.76	263.65	262.86	262.61	262.52	262.46	262.07	262.06	
28	262.36	262.36	262.83	262.93	262.76	263.44	262.86	262.61	262.53	262.46	262.07	262.06	
29	262.36	262.36	262.76	262.86	262.78	263.22	262.86	262.56	262.53	262.46		262.06	
30	262.36	262.36	262.81	262.86	263.00	263.15	262.86	262.56	262.53	262.46		262.06	
31		262.36		262.86	263.40		262.86		262.53	262.46		262.06	
Mean	262.36	262.36	262.74	262.87	262.85	263.27	262.96	262.82	262.54	262.44	262.35	262.06	
Max	262.36	262.37	263.17	263.18	263.62	264.34	263.25	263.59	262.56	262.53	262.46	262.08	264.34
Min	262.36	262.36	262.36	262.65	262.66	262.64	262.86	262.56	262.52	262.36	262.07	262.06	262.06

Annual Max Momentary Gage Height 264.74 m. (MSL.) , at 07.00 Hours , on Sep 13 , 2016

Zero Gage at Bottom Elevation 261.90 m. (MSL.) , River Bed 261.98 m. (MSL)

Left Bank Elevation 268.19 m. (MSL.) ,

Right Bank Elevation 268.31 m. (MSL.) , Drainage Are 3,909 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.78	2.96	2.78	28.50	17.82	40.75	37.62	17.82	7.30	6.55	4.88	0.21	
2	2.78	2.96	2.78	16.98	17.82	14.22	35.12	16.98	7.30	5.11	4.88	0.21	
3	2.78	2.96	2.78	18.66	16.14	13.86	32.30	13.86	7.30	2.78	4.88	0.21	
4	2.78	2.96	3.32	16.98	13.86	13.86	32.30	13.86	7.05	2.78	4.88	0.21	
5	2.78	2.96	13.14	13.86	14.94	13.86	31.75	13.86	7.05	2.78	4.88	0.21	
6	2.78	2.96	4.19	13.86	17.82	13.14	30.65	13.14	7.30	2.78	4.88	0.21	
7	2.78	2.78	6.30	15.30	16.98	9.66	28.00	10.34	7.30	2.78	4.88	0.21	
8	2.78	2.78	10.00	33.40	13.86	11.36	33.95	10.00	7.05	2.78	4.88	0.18	
9	2.78	2.78	7.55	20.85	13.86	12.06	25.50	9.66	6.80	3.50	4.88	0.18	
10	2.78	2.78	4.88	16.98	13.86	18.24	21.75	21.75	6.80	4.88	4.88	0.18	
11	2.78	2.78	7.30	13.86	13.86	13.14	19.95	28.00	6.80	4.88	4.88	0.18	
12	2.78	2.78	20.40	18.66	12.78	34.50	20.85	62.20	6.80	4.88	4.88	0.18	
13	2.78	2.78	12.78	17.40	10.34	153.80	21.75	43.25	6.80	4.88	4.88	0.18	
14	2.78	2.78	14.58	17.40	11.36	79.20	19.95	28.00	7.05	4.88	4.88	0.18	
15	2.78	2.78	13.14	14.22	13.86	113.20	17.82	22.65	7.30	4.88	4.88	0.18	
16	2.78	2.78	11.02	13.86	13.86	63.90	17.82	22.20	7.05	4.88	4.65	0.24	
17	2.78	2.78	23.55	13.86	13.86	43.25	17.82	20.85	6.80	4.88	4.88	0.18	
18	2.78	2.78	27.50	13.86	13.86	40.12	17.82	17.82	6.80	5.11	4.88	0.18	
19	2.78	2.78	20.85	13.86	13.86	102.00	17.82	17.82	6.80	4.88	4.88	0.18	
20	2.78	2.78	16.56	12.78	14.94	69.30	17.82	17.82	6.55	4.88	3.14	0.18	
21	2.78	2.78	13.14	10.00	64.80	55.00	17.82	15.72	6.55	4.88	0.27	0.18	
22	2.78	2.78	13.50	11.70	20.85	55.00	17.82	10.34	6.55	4.88	0.24	0.18	
23	2.78	2.78	24.00	19.08	20.85	41.37	17.82	10.34	6.55	4.88	0.24	0.18	
24	2.78	2.78	22.20	29.00	20.85	35.12	17.82	10.00	6.55	4.88	0.24	0.18	
25	2.78	2.78	32.85	29.00	17.82	37.62	17.82	8.98	6.55	4.88	0.21	0.18	
26	2.78	2.78	28.00	27.00	16.56	73.80	17.82	8.64	6.55	4.88	0.21	0.18	
27	2.78	2.78	31.20	26.00	13.86	67.50	17.82	8.64	6.30	4.88	0.21	0.18	
28	2.78	2.78	16.56	20.85	13.86	50.20	17.82	8.64	6.55	4.88	0.21	0.18	
29	2.78	2.78	13.86	17.82	14.58	35.75	17.82	7.30	6.55	4.88		0.18	
30	2.78	2.78	15.72	17.82	24.00	31.75	17.82	7.30	6.55	4.88		0.18	
31		2.78		17.82	47.00		17.82		6.55	4.88		0.18	
Total	83.40	87.26	436.43	571.22	564.57	1356.53	694.38	517.78	211.80	139.43	97.46	5.85	4766.11 CMSDAY
Mean	2.78	2.81	14.55	18.43	18.21	45.22	22.40	17.26	6.83	4.50	3.48	0.19	13.06 CMS
Max	2.78	2.96	32.85	33.40	64.80	153.80	37.62	62.20	7.30	6.55	4.88	0.24	153.80 CMS
Min	2.78	2.78	2.78	10.00	10.34	9.66	17.82	7.30	6.30	2.78	0.21	0.18	0.18 CMS
Runoff	7.21	7.54	37.71	49.35	48.78	117.20	59.99	44.74	18.30	12.05	8.42	0.51	411.79 MCM

Momentary Peak 242.40 CMS. at 264.74 m. (MSL.) at 07.00 Hours , on Sep 13 , 2016

Runoff Yield 3.34 Liters/Second/Square KM. Momentary Peak Yield 62.010 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Wat Sri Phirom **Amphoe** Khlong Khlung **Changwat** Kamphaeng Phet

Drainge Area	44,461 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+51.555 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 30 meters from the south of Wat Sri Phirom. **Elevation** +56.617 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1964 - 1974 , 1997 to date
Rated by Flot	-
Rated by Current Meter	1964 - 1974 , 1997 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

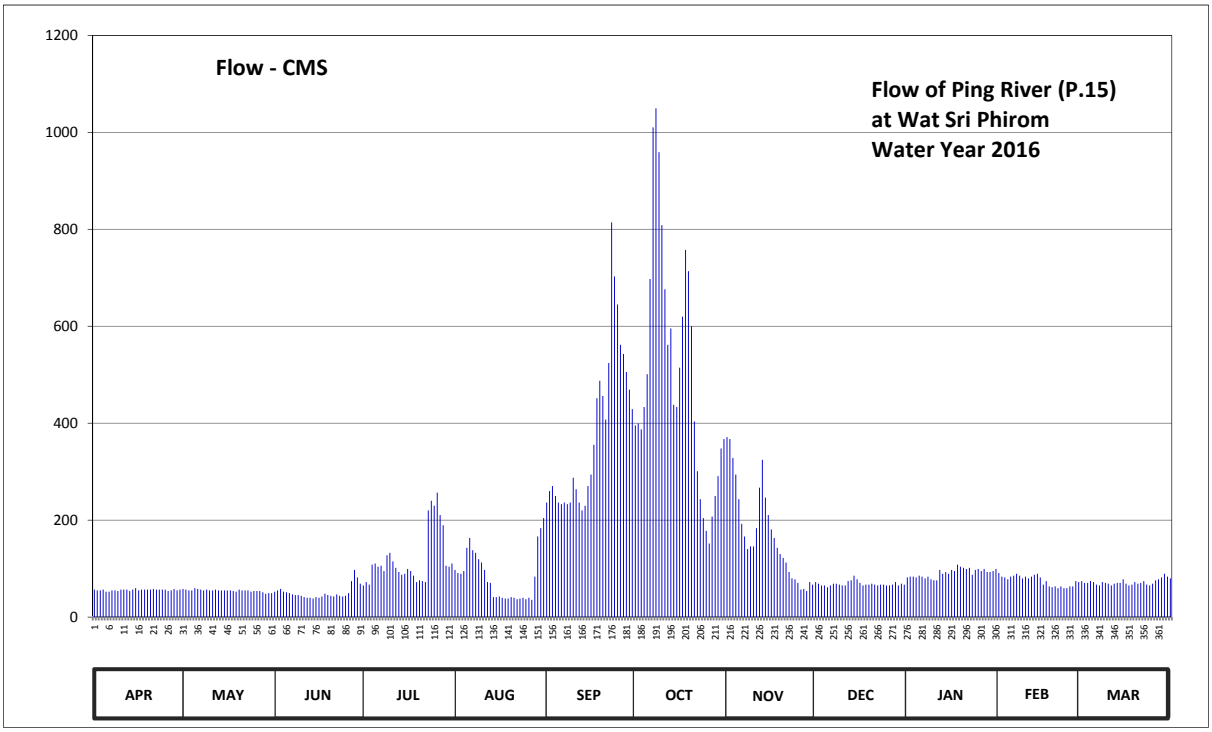
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.49	52.50	52.46	52.54	52.71	53.21	53.64	53.58	52.58	52.63	52.68	52.59	
2	52.48	52.49	52.48	52.58	52.68	53.28	53.65	53.57	52.56	52.64	52.64	52.57	
3	52.48	52.48	52.50	52.55	52.67	53.31	53.62	53.47	52.54	52.64	52.63	52.57	
4	52.49	52.48	52.46	52.76	52.70	53.25	53.73	53.38	52.54	52.63	52.61	52.59	
5	52.46	52.51	52.45	52.77	52.90	53.21	53.88	53.23	52.52	52.65	52.64	52.58	
6	52.46	52.50	52.44	52.74	52.97	53.20	54.28	53.07	52.54	52.64	52.65	52.55	
7	52.48	52.49	52.42	52.75	52.88	53.21	54.81	52.98	52.56	52.62	52.67	52.54	
8	52.48	52.48	52.41	52.70	52.86	53.20	54.87	52.89	52.56	52.64	52.65	52.58	
9	52.47	52.49	52.41	52.84	52.81	53.21	54.73	52.91	52.55	52.61	52.62	52.57	
10	52.49	52.48	52.40	52.86	52.78	53.36	54.48	52.91	52.54	52.60	52.64	52.56	
11	52.49	52.48	52.38	52.79	52.71	53.29	54.24	53.04	52.54	52.60	52.62	52.54	
12	52.49	52.49	52.37	52.73	52.58	53.21	54.01	53.30	52.59	52.71	52.64	52.56	
13	52.47	52.48	52.37	52.69	52.57	53.16	54.08	53.46	52.60	52.67	52.66	52.57	
14	52.49	52.48	52.36	52.66	52.38	53.19	53.74	53.24	52.65	52.69	52.67	52.57	
15	52.51	52.48	52.38	52.67	52.38	53.31	53.73	53.13	52.61	52.67	52.63	52.61	
16	52.48	52.48	52.37	52.72	52.39	53.38	53.91	53.03	52.57	52.71	52.55	52.56	
17	52.49	52.48	52.39	52.70	52.37	53.54	54.13	52.97	52.54	52.70	52.59	52.54	
18	52.49	52.47	52.43	52.65	52.36	53.77	54.39	52.90	52.55	52.76	52.53	52.55	
19	52.49	52.46	52.41	52.58	52.36	53.85	54.31	52.85	52.55	52.74	52.52	52.58	
20	52.49	52.49	52.40	52.60	52.38	53.78	54.09	52.82	52.56	52.73	52.53	52.56	
21	52.50	52.48	52.39	52.59	52.37	53.67	53.66	52.78	52.55	52.72	52.51	52.57	
22	52.49	52.48	52.42	52.58	52.35	53.93	53.40	52.69	52.54	52.73	52.53	52.59	
23	52.49	52.48	52.40	53.16	52.36	54.49	53.23	52.62	52.55	52.66	52.51	52.55	
24	52.49	52.46	52.39	53.22	52.37	54.29	53.11	52.61	52.55	52.71	52.51	52.54	
25	52.49	52.47	52.40	53.19	52.35	54.18	53.02	52.57	52.54	52.72	52.53	52.56	
26	52.47	52.47	52.44	53.27	52.37	54.01	52.93	52.49	52.54	52.70	52.53	52.60	
27	52.48	52.47	52.59	53.13	52.34	53.97	53.12	52.50	52.55	52.72	52.59	52.61	
28	52.50	52.45	52.71	53.06	52.64	53.89	53.25	52.47	52.58	52.69	52.58	52.63	
29	52.48	52.43	52.63	52.75	52.98	53.81	53.37	52.58	52.54	52.69		52.67	
30	52.49	52.44	52.56	52.74	53.04	53.72	53.52	52.55	52.56	52.70		52.64	
31		52.44		52.77	53.11		53.57		52.55	52.72		52.62	
Mean	52.49	52.48	52.44	52.79	52.60	53.56	53.82	52.95	52.56	52.68	52.59	52.58	
Max	52.51	52.51	52.71	53.27	53.11	54.49	54.87	53.58	52.65	52.76	52.68	52.67	54.87
Min	52.46	52.43	52.36	52.54	52.34	53.16	52.93	52.47	52.52	52.60	52.51	52.54	52.34

Annual Max Momentary Gage Height 54.93 m. (MSL.) , at 18.00 Hours , on Oct 7 , 2016

Zero Gage at Bottom Elevation 51.56 m. (MSL.) , River Bed 51.77 m. (MSL.)

Left Bank Elevation 57.55 m. (MSL.) ,

Right Bank Elevation 57.62 m. (MSL.) , Drainage Are 44,461 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	56.60	58.00	52.40	65.20	97.20	236.40	395.40	371.20	72.40	81.70	91.20	74.20	
2	55.20	56.60	55.20	72.40	91.20	260.20	399.50	367.30	68.80	83.60	83.60	70.60	
3	55.20	55.20	58.00	67.00	89.30	270.40	387.20	328.30	65.20	83.60	81.70	70.60	
4	56.60	55.20	52.40	108.20	95.00	250.00	433.50	294.20	65.20	81.70	77.90	74.20	
5	52.40	59.80	51.00	110.40	143.00	236.40	501.00	243.20	61.60	85.50	83.60	72.40	
6	52.40	58.00	49.60	103.80	163.30	233.00	697.40	192.30	65.20	83.60	85.50	67.00	
7	55.20	56.60	46.80	106.00	137.80	236.40	1010.50	166.20	68.80	79.80	89.30	65.20	
8	55.20	55.20	45.40	95.00	132.60	233.00	1049.50	140.40	68.80	83.60	85.50	72.40	
9	53.80	56.60	45.40	127.40	119.60	236.40	959.20	145.90	67.00	77.90	79.80	70.60	
10	56.60	55.20	44.00	132.60	112.60	287.40	808.60	145.90	65.20	76.00	83.60	68.80	
11	56.60	55.20	41.20	114.80	97.20	263.60	676.20	183.60	65.20	76.00	79.80	65.20	
12	56.60	56.60	39.80	101.60	72.40	236.40	561.80	267.00	74.20	97.20	83.60	68.80	
13	53.80	55.20	39.80	93.10	70.60	220.20	595.40	324.40	76.00	89.30	87.40	70.60	
14	56.60	55.20	38.40	87.40	41.20	229.80	438.00	246.60	85.50	93.10	89.30	70.60	
15	59.80	55.20	41.20	89.30	41.20	270.40	433.50	210.60	77.90	89.30	81.70	77.90	
16	55.20	55.20	39.80	99.40	42.60	294.20	514.70	180.70	70.60	97.20	67.00	68.80	
17	56.60	55.20	42.60	95.00	39.80	355.60	620.00	163.30	65.20	95.00	74.20	65.20	
18	56.60	53.80	48.20	85.50	38.40	451.50	757.50	143.00	67.00	108.20	63.40	67.00	
19	56.60	52.40	45.40	72.40	38.40	487.50	713.50	130.00	67.00	103.80	61.60	72.40	
20	56.60	56.60	44.00	76.00	41.20	456.00	600.20	122.20	68.80	101.60	63.40	68.80	
21	58.00	55.20	42.60	74.20	39.80	407.70	403.60	112.60	67.00	99.40	59.80	70.60	
22	56.60	55.20	46.80	72.40	37.00	524.10	301.00	93.10	65.20	101.60	63.40	74.20	
23	56.60	55.20	44.00	220.20	38.40	814.30	243.20	79.80	67.00	87.40	59.80	67.00	
24	56.60	52.40	42.60	239.80	39.80	702.70	204.20	77.90	67.00	97.20	59.80	65.20	
25	56.60	53.80	44.00	229.80	37.00	645.00	177.80	70.60	65.20	99.40	63.40	68.80	
26	53.80	53.80	49.60	256.80	39.80	561.80	151.70	56.60	65.20	95.00	63.40	76.00	
27	55.20	53.80	74.20	210.60	35.60	542.90	207.40	58.00	67.00	99.40	74.20	77.90	
28	58.00	51.00	97.20	189.40	83.60	505.50	250.00	53.80	72.40	93.10	72.40	81.70	
29	55.20	48.20	81.70	106.00	166.20	469.50	290.80	72.40	65.20	93.10		89.30	
30	56.60	49.60	68.80	103.80	183.60	429.00	347.80	67.00	68.80	95.00		83.60	
31		49.60		110.40	204.20		367.30		67.00	99.40		79.80	
Total	1677.40	1694.80	1512.10	3715.90	2609.60	11347.30	15497.40	5108.10	2122.60	2827.70	2109.30	2235.40	52457.60 CMSDAY
Mean	55.91	54.67	50.40	119.87	84.18	378.24	499.92	170.27	68.47	91.22	75.33	72.11	143.72 CMS
Max	59.80	59.80	97.20	256.80	204.20	814.30	1049.50	371.20	85.50	108.20	91.20	89.30	1049.50 CMS
Min	52.40	48.20	38.40	65.20	35.60	220.20	151.70	53.80	61.60	76.00	59.80	65.20	35.60 CMS
Runoff	144.93	146.43	130.65	321.05	225.47	980.41	1338.98	441.34	183.39	244.31	182.24	193.14	4532.34 MCM

Momentary Peak 1089.10 CMS. at 54.93 m. (MSL.) at 18.00 Hours , on Oct 7 , 2016

Runoff Yield 3.23 Liters/Second/Square KM. Momentary Peak Yield 24.500 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on right bank behind the Post Office.

Ban San Tor **Amphoe** Khanu Woralaksaburi **Changwat** Kamphaeng Phet

Drainge Area	45,076 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+41.780 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the automatic gage building. **Elevation** +46.604 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1960 , 1967 - 1974 , 1990 to date
Rated by Flot	-
Rated by Current Meter	1960 , 1964 - 1975 , 1979 , 1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

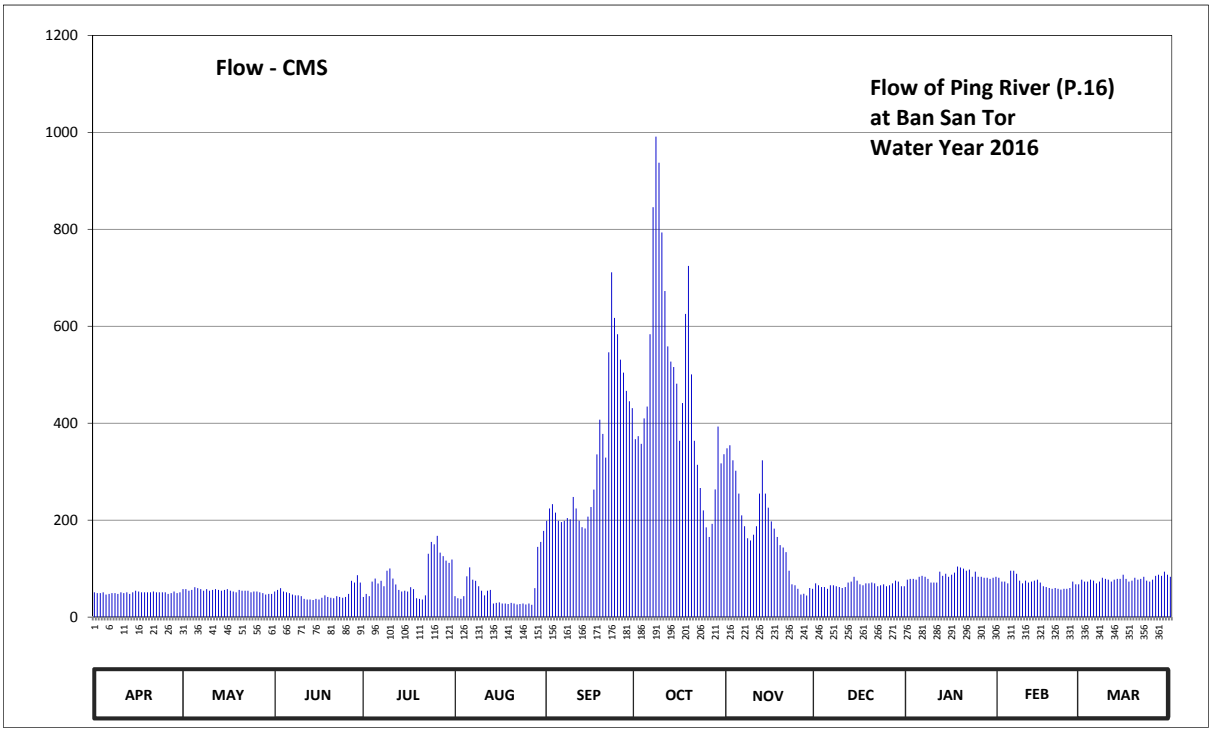
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.67	40.71	40.68	40.61	40.62	41.31	41.69	41.63	40.55	40.59	40.61	40.59	
2	40.66	40.71	40.70	40.65	40.59	41.40	41.71	41.65	40.53	40.60	40.57	40.57	
3	40.66	40.69	40.72	40.62	40.58	41.43	41.66	41.55	40.51	40.60	40.57	40.57	
4	40.67	40.70	40.68	40.79	40.62	41.37	41.82	41.48	40.51	40.59	40.55	40.59	
5	40.64	40.73	40.67	40.82	40.84	41.31	41.89	41.32	40.49	40.62	40.68	40.58	
6	40.65	40.72	40.66	40.77	40.92	41.30	42.28	41.16	40.53	40.63	40.68	40.55	
7	40.66	40.71	40.64	40.80	40.81	41.31	42.87	41.07	40.53	40.62	40.65	40.57	
8	40.66	40.69	40.63	40.74	40.80	41.33	43.17	40.97	40.52	40.60	40.58	40.61	
9	40.65	40.71	40.63	40.89	40.74	41.32	43.06	40.95	40.51	40.56	40.55	40.60	
10	40.67	40.69	40.62	40.91	40.69	41.48	42.76	41.00	40.50	40.56	40.58	40.59	
11	40.66	40.70	40.58	40.82	40.63	41.40	42.49	41.07	40.51	40.56	40.56	40.57	
12	40.67	40.71	40.57	40.76	40.69	41.31	42.22	41.32	40.56	40.67	40.57	40.59	
13	40.65	40.70	40.57	40.70	40.70	41.26	42.14	41.55	40.57	40.63	40.58	40.60	
14	40.67	40.69	40.56	40.68	40.50	41.25	42.11	41.32	40.62	40.65	40.59	40.60	
15	40.69	40.70	40.58	40.69	40.51	41.34	42.02	41.22	40.58	40.62	40.56	40.64	
16	40.68	40.71	40.57	40.68	40.52	41.41	41.68	41.11	40.54	40.64	40.52	40.60	
17	40.67	40.69	40.60	40.73	40.50	41.53	41.91	41.05	40.53	40.66	40.51	40.57	
18	40.67	40.68	40.63	40.71	40.50	41.76	42.38	40.98	40.55	40.72	40.50	40.58	
19	40.67	40.67	40.61	40.59	40.49	41.96	42.61	40.91	40.55	40.71	40.49	40.61	
20	40.67	40.70	40.60	40.58	40.51	41.88	42.07	40.89	40.56	40.70	40.50	40.59	
21	40.68	40.69	40.59	40.57	40.50	41.74	41.68	40.85	40.55	40.68	40.49	40.60	
22	40.67	40.69	40.62	40.63	40.48	42.19	41.52	40.68	40.52	40.69	40.48	40.62	
23	40.67	40.69	40.61	41.04	40.49	42.58	41.36	40.54	40.53	40.62	40.49	40.58	
24	40.67	40.67	40.60	41.14	40.50	42.36	41.20	40.53	40.54	40.67	40.49	40.57	
25	40.67	40.68	40.61	41.12	40.48	42.28	41.06	40.49	40.52	40.62	40.50	40.59	
26	40.65	40.68	40.65	41.19	40.50	42.15	40.98	40.42	40.53	40.62	40.57	40.63	
27	40.66	40.67	40.80	41.05	40.47	42.08	41.09	40.43	40.55	40.61	40.54	40.64	
28	40.68	40.66	40.78	41.02	40.72	41.98	41.35	40.41	40.58	40.61	40.54	40.63	
29	40.66	40.64	40.85	40.98	41.10	41.92	41.77	40.50	40.57	40.60		40.67	
30	40.67	40.65	40.78	40.96	41.14	41.88	41.53	40.49	40.52	40.61		40.64	
31		40.65		40.99	41.23		41.59		40.52	40.62		40.62	
Mean	40.67	40.69	40.65	40.81	40.66	41.66	41.92	40.98	40.54	40.63	40.55	40.60	
Max	40.69	40.73	40.85	41.19	41.23	42.58	43.17	41.65	40.62	40.72	40.68	40.67	43.17
Min	40.64	40.64	40.56	40.57	40.47	41.25	40.98	40.41	40.49	40.56	40.48	40.55	40.41

Annual Max Momentary Gage Height 43.19 m. (MSL.) , at 06.00 Hours , on Oct 8 , 2016

Zero Gage at Bottom Elevation 41.78 m. (MSL.) , River Bed 38.10 m. (MSL.)

Left Bank Elevation 49.14 m. (MSL.) ,

Right Bank Elevation 51.49 m. (MSL.) , Drainage Are 45,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.20	57.90	52.80	41.60	43.20	198.80	366.90	348.30	69.50	77.10	81.10	77.10	
2	49.60	57.90	56.00	48.00	38.80	224.00	373.30	354.50	65.70	79.00	73.30	73.30	
3	49.60	54.40	59.80	43.20	37.60	233.00	357.60	323.50	61.90	79.00	73.30	73.30	
4	51.20	56.00	52.80	73.10	43.20	215.60	410.00	302.00	61.90	77.10	69.50	77.10	
5	46.40	61.70	51.20	79.60	84.20	198.80	434.50	254.80	58.30	83.20	95.80	75.20	
6	48.00	59.80	49.60	69.30	102.60	196.00	583.60	210.00	65.70	85.30	95.80	69.50	
7	49.60	57.90	46.40	75.00	77.30	198.80	845.60	187.50	65.70	83.20	89.50	73.30	
8	49.60	54.40	44.80	63.60	75.00	204.40	991.30	162.80	63.80	79.00	75.20	81.10	
9	48.00	57.90	44.80	95.70	63.60	201.60	937.40	158.00	61.90	71.40	69.50	79.00	
10	51.20	54.40	43.20	100.30	54.40	248.00	793.60	170.00	60.00	71.40	75.20	77.10	
11	49.60	56.00	37.60	79.60	44.80	224.00	672.70	187.50	61.90	71.40	71.40	73.30	
12	51.20	57.90	36.40	67.40	54.40	198.80	558.40	254.80	71.40	93.70	73.30	77.10	
13	48.00	56.00	36.40	56.00	56.00	185.60	527.20	323.50	73.30	85.30	75.20	79.00	
14	51.20	54.40	35.20	52.80	28.00	183.00	515.80	254.80	83.20	89.50	77.10	79.00	
15	54.40	56.00	37.60	54.40	29.20	207.20	481.60	225.80	75.20	83.20	71.40	87.40	
16	52.80	57.90	36.40	52.80	30.40	227.00	363.80	197.50	67.60	87.40	63.80	79.00	
17	51.20	54.40	40.00	61.70	28.00	263.00	441.60	182.50	65.70	91.60	61.90	73.30	
18	51.20	52.80	44.80	57.90	28.00	335.80	625.60	165.20	69.50	104.40	60.00	75.20	
19	51.20	51.20	41.60	38.80	27.10	407.20	724.60	148.40	69.50	102.20	58.30	81.10	
20	51.20	56.00	40.00	37.60	29.20	377.80	500.60	143.60	71.40	100.00	60.00	77.10	
21	52.80	54.40	38.80	36.40	28.00	329.20	363.80	134.00	69.50	95.80	58.30	79.00	
22	51.20	54.40	43.20	44.80	26.20	546.20	314.20	95.80	63.80	97.90	56.60	83.20	
23	51.20	54.40	41.60	130.60	27.10	711.40	266.40	67.60	65.70	83.20	58.30	75.20	
24	51.20	51.20	40.00	155.00	28.00	617.20	220.00	65.70	67.60	93.70	58.30	73.30	
25	51.20	52.80	41.60	150.00	26.20	583.60	185.00	58.30	63.80	83.20	60.00	77.10	
26	48.00	52.80	48.00	167.50	28.00	531.00	165.20	46.40	65.70	83.20	73.30	85.30	
27	49.60	51.20	75.00	133.00	25.30	504.40	192.50	48.10	69.50	81.10	67.60	87.40	
28	52.80	49.60	71.20	125.80	59.80	466.80	263.50	44.70	75.20	81.10	67.60	85.30	
29	49.60	46.40	86.50	116.40	145.00	445.20	393.10	60.00	73.30	79.00		93.70	
30	51.20	48.00	71.20	111.80	155.00	431.00	317.30	58.30	63.80	81.10		87.40	
31		48.00		118.70	177.80		335.90		63.80	83.20		83.20	
Total	1515.20	1688.10	1444.50	2538.40	1701.40	9894.40	14522.60	5233.90	2084.80	2636.90	1970.60	2447.60	47678.40 CMSDAY
Mean	50.51	54.45	48.15	81.88	54.88	329.81	468.47	174.46	67.25	85.06	70.38	78.95	130.63 CMS
Max	54.40	61.70	86.50	167.50	177.80	711.40	991.30	354.50	83.20	104.40	95.80	93.70	991.30 CMS
Min	46.40	46.40	35.20	36.40	25.30	183.00	165.20	44.70	58.30	71.40	56.60	69.50	25.30 CMS
Runoff	130.91	145.85	124.80	219.32	147.00	854.88	1254.75	452.21	180.13	227.83	170.26	211.47	4119.41 MCM

Momentary Peak 1001.10 CMS. at 43.19 m. (MSL.) at 06.00 Hours , on Oct 8 , 2016

Runoff Yield 2.90 Liters/Second/Square KM. Momentary Peak Yield 22.210 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

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

Location : on right bank at Som Sieo Market

Ban Tha Ngiu **Amphoe** Banphot Phisai **Changwat** Nakhon Sawan

Drainge Area	45,297 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 5.00 meters from the top staff gage **Elevation** +37.900 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1960, 1967 - 1974, 1990 to date
Rated by Flot	-
Rated by Current Meter	1954 - 1979, 1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam.
	Stage-discharge relation defined by 44 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

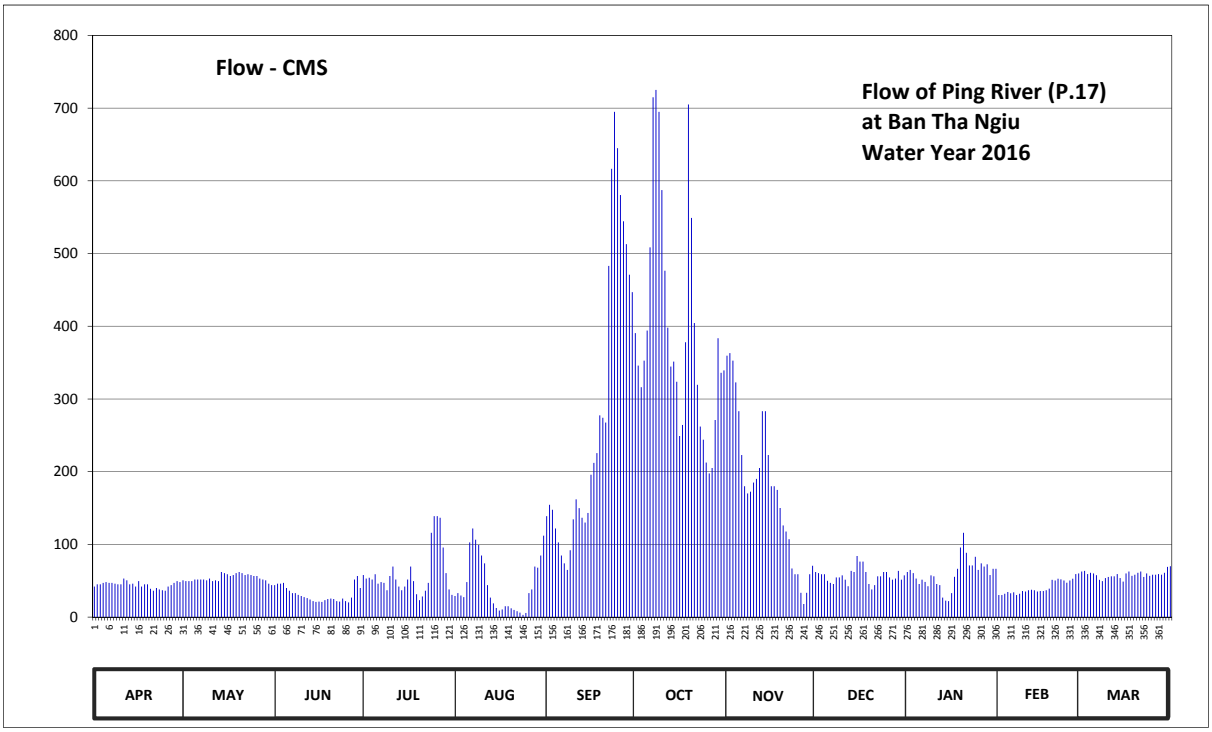
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.35	34.43	34.37	34.49	34.20	34.94	35.33	35.24	34.08	34.08	34.49	34.93	
2	34.38	34.42	34.39	34.45	34.25	35.01	35.20	35.25	34.07	34.10	34.49	34.94	
3	34.38	34.42	34.39	34.46	34.21	34.98	35.11	35.22	34.06	34.07	34.52	34.89	
4	34.40	34.42	34.40	34.44	34.18	34.86	35.22	35.13	34.06	34.02	34.56	34.91	
5	34.41	34.44	34.33	34.50	34.41	34.76	35.34	35.01	34.00	33.97	34.53	34.90	
6	34.40	34.44	34.29	34.39	34.76	34.66	35.63	34.81	33.98	34.01	34.55	34.87	
7	34.40	34.44	34.25	34.41	34.86	34.60	36.07	34.64	33.97	33.99	34.49	34.79	
8	34.39	34.44	34.25	34.40	34.78	34.54	36.45	34.60	34.03	33.95	34.52	34.77	
9	34.38	34.43	34.22	34.30	34.74	34.70	36.40	34.61	34.03	34.05	34.58	34.82	
10	34.38	34.45	34.20	34.48	34.66	34.92	36.21	34.66	34.05	34.04	34.57	34.84	
11	34.45	34.42	34.18	34.57	34.60	35.04	35.98	34.68	34.01	33.97	34.60	34.85	
12	34.43	34.43	34.16	34.44	34.37	34.99	35.79	34.74	33.95	33.96	34.61	34.85	
13	34.38	34.42	34.13	34.35	34.17	34.93	35.65	35.01	34.09	34.17	34.60	34.89	
14	34.39	34.52	34.10	34.30	34.05	34.90	35.67	35.01	34.08	34.11	34.57	34.82	
15	34.35	34.51	34.08	34.35	33.93	34.96	35.59	34.81	34.20	34.10	34.58	34.76	
16	34.42	34.50	34.09	34.44	33.85	35.17	35.36	34.64	34.16	34.25	34.58	34.90	
17	34.35	34.48	34.08	34.57	33.89	35.23	35.41	34.64	34.16	34.47	34.60	34.93	
18	34.38	34.49	34.12	34.42	33.98	35.28	35.74	34.62	34.08	34.55	34.63	34.86	
19	34.38	34.51	34.14	34.23	33.98	35.45	36.05	34.52	33.97	34.72	34.79	34.88	
20	34.32	34.52	34.15	34.12	33.92	35.44	35.72	34.41	33.92	34.83	34.78	34.91	
21	34.29	34.51	34.14	34.19	33.87	35.42	35.37	34.37	33.96	34.68	34.81	34.93	
22	34.33	34.49	34.10	34.29	33.83	35.57	35.12	34.32	34.04	34.58	34.80	34.84	
23	34.31	34.50	34.09	34.40	33.78	35.87	34.94	34.11	34.04	34.58	34.78	34.90	
24	34.30	34.49	34.15	34.83	33.70	36.03	34.88	34.06	34.08	34.65	34.74	34.86	
25	34.29	34.48	34.10	34.94	33.77	35.93	34.77	34.06	34.08	34.54	34.78	34.88	
26	34.35	34.48	34.07	34.94	34.25	35.79	34.71	33.89	34.03	34.60	34.81	34.88	
27	34.37	34.45	34.17	34.93	34.31	35.71	34.74	33.78	34.01	34.57	34.89	34.89	
28	34.40	34.44	34.44	34.72	34.57	35.64	34.97	33.89	34.02	34.59	34.90	34.88	
29	34.42	34.43	34.48	34.51	34.56	35.54	35.31	34.06	34.09	34.49		34.91	
30	34.41	34.39	34.33	34.31	34.66	35.48	35.17	34.13	34.01	34.55		35.00	
31		34.37		34.22	34.81		35.18		34.05	34.55		35.01	
Mean	34.37	34.46	34.21	34.46	34.25	35.21	35.45	34.56	34.04	34.32	34.65	34.88	
Max	34.45	34.52	34.48	34.94	34.86	36.03	36.45	35.25	34.20	34.83	34.90	35.01	36.45
Min	34.29	34.37	34.07	34.12	33.70	34.54	34.71	33.78	33.92	33.95	34.49	34.76	33.70

Annual Max Momentary Gage Height 36.47 m. (MSL.) , at 08.00 Hours , on Oct 8 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 30.51 m. (MSL.)

Left Bank Elevation 39.83 m. (MSL.) ,

Right Bank Elevation 39.80 m. (MSL.) , Drainage Are 45,297 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.00	50.60	44.00	57.80	29.00	138.80	390.50	359.60	62.00	62.00	30.40	62.70	
2	45.00	49.40	46.00	53.00	33.00	154.50	346.00	363.00	60.50	65.00	30.40	63.60	
3	45.00	49.40	46.00	54.20	29.80	147.60	316.30	352.80	59.00	60.50	32.20	59.20	
4	47.00	49.40	47.00	51.80	27.60	122.00	352.80	322.90	59.00	53.00	34.60	60.90	
5	48.20	51.80	40.00	59.00	48.20	102.80	394.00	283.30	50.00	45.50	32.80	60.00	
6	47.00	51.80	36.20	46.00	102.80	84.80	508.50	223.00	47.00	51.50	34.00	57.60	
7	47.00	51.80	33.00	48.20	122.00	74.00	715.00	180.00	45.50	48.50	30.40	51.20	
8	46.00	51.80	33.00	47.00	106.40	65.00	725.00	170.00	54.50	42.50	32.20	49.60	
9	45.00	50.60	30.60	37.00	99.20	92.00	695.00	172.50	54.50	57.50	35.80	53.60	
10	45.00	53.00	29.00	56.60	84.80	134.40	587.30	185.00	57.50	56.00	35.20	55.20	
11	53.00	49.40	27.60	69.50	74.00	162.00	476.40	190.00	51.50	45.50	37.00	56.00	
12	50.60	50.60	26.20	51.80	44.00	149.80	398.00	205.00	42.50	44.00	37.70	56.00	
13	45.00	49.40	24.10	42.00	26.90	136.60	344.50	283.30	63.50	26.90	37.00	59.20	
14	46.00	62.00	22.00	37.00	19.00	130.00	351.50	283.30	62.00	22.70	35.20	53.60	
15	42.00	60.50	20.80	42.00	12.50	143.20	323.70	223.00	84.00	22.00	35.80	48.80	
16	49.40	59.00	21.40	51.80	9.00	195.90	249.00	180.00	76.40	33.00	35.80	60.00	
17	42.00	56.60	20.80	69.50	10.60	212.10	264.30	180.00	76.40	55.40	37.00	62.70	
18	45.00	57.80	23.40	49.40	15.00	225.60	378.00	175.00	62.00	66.50	39.10	56.80	
19	45.00	60.50	24.80	31.40	15.00	277.50	705.00	150.00	45.50	95.60	51.20	58.40	
20	39.00	62.00	25.50	23.40	12.00	274.20	549.00	126.10	38.00	116.00	50.40	60.90	
21	36.20	60.50	24.80	28.30	9.80	267.60	404.50	117.70	44.00	88.40	52.80	62.70	
22	40.00	57.80	22.00	36.20	8.20	483.00	319.60	107.20	56.00	71.00	52.00	55.20	
23	38.00	59.00	21.40	47.00	6.20	616.50	262.00	66.90	56.00	71.00	50.40	60.00	
24	37.00	57.80	25.50	116.00	3.00	695.00	244.00	59.00	62.00	83.00	47.20	56.80	
25	36.20	56.60	22.00	138.80	5.80	645.00	212.50	59.00	62.00	65.00	50.40	58.40	
26	42.00	56.60	20.20	138.80	33.00	580.50	197.50	33.50	54.50	74.00	52.80	58.40	
27	44.00	53.00	26.90	136.60	38.00	544.50	205.00	18.00	51.50	69.50	59.20	59.20	
28	47.00	51.80	51.80	95.60	69.50	513.00	271.00	33.50	53.00	72.50	60.00	58.40	
29	49.40	50.60	56.60	60.50	68.00	471.00	383.50	59.00	63.50	57.80		60.90	
30	48.20	46.00	40.00	38.00	84.80	447.00	336.10	70.70	51.50	66.50		69.00	
31		44.00		30.60	112.00		339.40		57.50	66.50		70.00	
Total	1332.20	1671.10	932.60	1844.80	1359.10	8285.90	12244.90	5232.30	1762.80	1854.80	1149.00	1815.00	39484.50	CMSDAY
Mean	44.41	53.91	31.09	59.51	43.84	276.20	395.00	174.41	56.86	59.83	41.04	58.55	108.18	CMS
Max	53.00	62.00	56.60	138.80	122.00	695.00	725.00	363.00	84.00	116.00	60.00	70.00	725.00	CMS
Min	36.20	44.00	20.20	23.40	3.00	65.00	197.50	18.00	38.00	22.00	30.40	48.80	3.00	CMS
Runoff	115.10	144.38	80.58	159.39	117.43	715.90	1057.96	452.07	152.31	160.25	99.27	156.82	3411.46	MCM

Momentary Peak 737.00 CMS. at 36.47 m. (MSL.) at 08.00 Hours , on Oct 8, 2016

Runoff Yield 2.39 Liters/Second/Square KM. Momentary Peak Yield 16.270 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on right bank near War Inthra Ram.

Ban Chiang Dao **Amphoe** Chiang Dao **Changwat** Chiang Mai

Drainge Area	1,345 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+379.900 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 2 meters from automatic gage building. **Elevation** +384.033 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1979 - 1982 , 1989 to date
Rated by Flot	-
Rated by Current Meter	1979 - 1982 , 1989 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

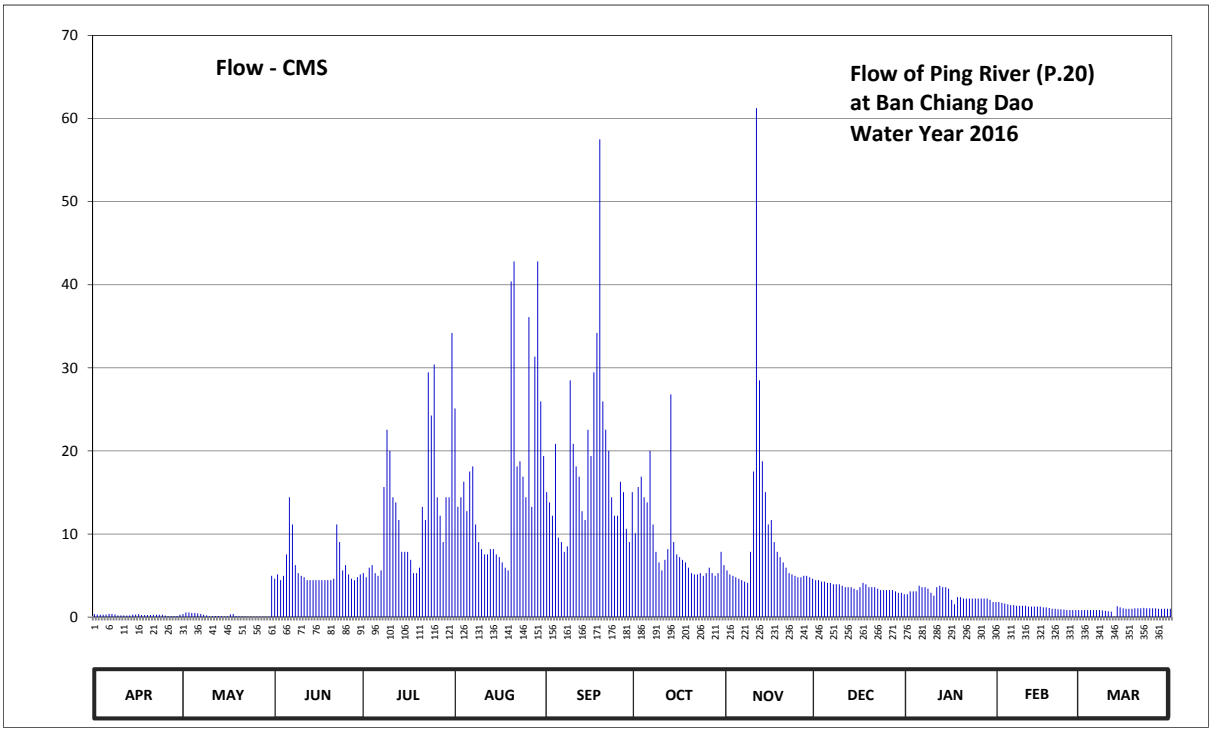
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.25	380.25	380.06	380.10	380.46	380.32	380.23	380.11	380.05	379.95	379.89	379.77	
2	380.23	380.31	380.09	380.07	380.29	380.30	380.33	380.09	380.05	379.97	379.88	379.77	
3	380.22	380.31	380.05	380.12	380.31	380.27	380.35	380.08	380.04	379.97	379.87	379.77	
4	380.22	380.30	380.08	380.13	380.34	380.41	380.31	380.07	380.04	379.97	379.86	379.77	
5	380.23	380.30	380.17	380.10	380.28	380.22	380.30	380.06	380.03	380.01	379.85	379.77	
6	380.26	380.28	380.31	380.08	380.36	380.21	380.40	380.05	380.03	380.00	379.85	379.77	
7	380.26	380.26	380.25	380.11	380.37	380.18	380.25	380.04	380.02	380.00	379.84	379.77	
8	380.24	380.22	380.13	380.33	380.25	380.20	380.18	380.03	380.02	379.99	379.84	379.76	
9	380.20	380.19	380.10	380.43	380.21	380.50	380.14	380.18	380.02	379.96	379.84	379.75	
10	380.20	380.08	380.08	380.40	380.19	380.41	380.11	380.36	380.01	379.94	379.84	379.74	
11	380.19	380.11	380.07	380.31	380.17	380.37	380.15	380.79	380.00	380.00	379.83	379.73	
12	380.17	380.12	380.05	380.30	380.17	380.35	380.19	380.50	380.00	380.01	379.83	379.97	
13	380.19	380.13	380.05	380.26	380.19	380.28	380.48	380.38	380.00	380.00	379.83	380.45	
14	380.23	380.10	380.05	380.18	380.19	380.26	380.21	380.32	379.99	380.00	379.83	380.43	
15	380.23	380.05	380.05	380.18	380.17	380.43	380.17	380.25	379.98	379.99	379.83	380.41	
16	380.25	380.07	380.05	380.18	380.16	380.39	380.16	380.26	380.00	379.91	379.82	380.40	
17	380.21	380.24	380.05	380.15	380.14	380.51	380.15	380.21	380.03	379.86	379.82	380.40	
18	380.21	380.25	380.05	380.10	380.12	380.56	380.14	380.18	380.02	379.93	379.81	380.40	
19	380.21	380.12	380.05	380.10	380.11	380.76	380.12	380.16	380.00	379.93	379.80	380.41	
20	380.21	380.08	380.05	380.12	380.62	380.47	380.10	380.14	380.00	379.92	379.80	380.41	
21	380.22	380.06	380.06	380.29	380.64	380.43	380.09	380.12	380.00	379.92	379.79	380.41	
22	380.22	380.03	380.25	380.26	380.37	380.40	380.09	380.10	379.99	379.92	379.79	380.42	
23	380.22	380.00	380.21	380.51	380.38	380.31	380.10	380.09	379.98	379.92	379.78	380.41	
24	380.22	380.00	380.11	380.45	380.35	380.27	380.08	380.08	379.98	379.92	379.77	380.41	
25	380.18	380.00	380.13	380.52	380.31	380.27	380.10	380.07	379.98	379.92	379.77	380.41	
26	380.10	379.99	380.09	380.31	380.58	380.34	380.12	380.07	379.98	379.92	379.77	380.41	
27	380.11	379.98	380.06	380.27	380.29	380.32	380.10	380.08	379.98	379.92	379.77	380.40	
28	380.11	379.97	380.05	380.21	380.53	380.24	380.08	380.08	379.97	379.92	379.77	380.40	
29	380.12	379.96	380.07	380.31	380.64	380.21	380.10	380.07	379.96	379.91		380.40	
30	380.22	379.98	380.09	380.31	380.47	380.32	380.18	380.06	379.96	379.89		380.40	
31		380.08		380.56	380.39		380.13		379.95	379.89		380.40	
Mean	380.20	380.12	380.10	380.25	380.32	380.35	380.18	380.17	380.00	379.95	379.82	380.17	
Max	380.26	380.31	380.31	380.56	380.64	380.76	380.48	380.79	380.05	380.01	379.89	380.45	380.79
Min	380.10	379.96	380.05	380.07	380.11	380.18	380.08	380.03	379.95	379.86	379.77	379.73	379.73

Annual Max Momentary Gage Height 380.95 m. (MSL.) , at 10.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 379.90 m. (MSL.) , River Bed 378.73 m. (MSL.)

Left Bank Elevation 385.62 m. (MSL.) ,

Right Bank Elevation 386.72 m. (MSL.) , Drainage Are 1,345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.36	0.36	4.62	5.30	25.10	15.04	10.09	5.62	4.45	2.75	1.81	0.85		
2	0.30	0.55	5.13	4.79	13.27	13.80	15.66	5.13	4.45	3.09	1.72	0.85		
3	0.28	0.55	4.45	5.94	14.42	12.21	16.90	4.96	4.28	3.09	1.63	0.85		
4	0.28	0.50	4.96	6.26	16.28	20.85	14.42	4.79	4.28	3.09	1.54	0.85		
5	0.30	0.50	7.54	5.30	12.74	9.56	13.80	4.62	4.11	3.77	1.45	0.85		
6	0.39	0.44	14.42	4.96	17.52	9.03	20.00	4.45	4.11	3.60	1.45	0.85		
7	0.39	0.39	11.15	5.62	18.14	7.86	11.15	4.28	3.94	3.60	1.36	0.85		
8	0.33	0.28	6.26	15.66	11.15	8.50	7.86	4.11	3.94	3.43	1.36	0.80		
9	0.22	0.21	5.30	22.55	9.03	28.50	6.58	7.86	3.94	2.92	1.36	0.75		
10	0.22	0.10	4.96	20.00	8.18	20.85	5.62	17.52	3.77	2.58	1.36	0.70		
11	0.21	0.12	4.79	14.42	7.54	18.14	6.90	61.25	3.60	3.60	1.27	0.65		
12	0.19	0.13	4.45	13.80	7.54	16.90	8.18	28.50	3.60	3.77	1.27	0.05		
13	0.21	0.14	4.45	11.68	8.18	12.74	26.80	18.76	3.60	3.60	1.27	1.30		
14	0.30	0.11	4.45	7.86	8.18	11.68	9.03	15.04	3.43	3.60	1.27	1.18		
15	0.30	0.08	4.45	7.86	7.54	22.55	7.54	11.15	3.26	3.43	1.27	1.06		
16	0.36	0.09	4.45	7.86	7.22	19.38	7.22	11.68	3.60	2.07	1.18	1.00		
17	0.25	0.33	4.45	6.90	6.58	29.45	6.90	9.03	4.11	1.54	1.18	1.00		
18	0.25	0.36	4.45	5.30	5.94	34.20	6.58	7.86	3.94	2.41	1.09	1.00		
19	0.25	0.13	4.45	5.30	5.62	57.50	5.94	7.22	3.60	2.41	1.00	1.06		
20	0.25	0.10	4.45	5.94	40.40	25.95	5.30	6.58	3.60	2.24	1.00	1.06		
21	0.28	0.09	4.62	13.27	42.80	22.55	5.13	5.94	3.60	2.24	0.95	1.06		
22	0.28	0.07	11.15	11.68	18.14	20.00	5.13	5.30	3.43	2.24	0.95	1.12		
23	0.28	0.06	9.03	29.45	18.76	14.42	5.30	5.13	3.26	2.24	0.90	1.06		
24	0.28	0.06	5.62	24.25	16.90	12.21	4.96	4.96	3.26	2.24	0.85	1.06		
25	0.20	0.06	6.26	30.40	14.42	12.21	5.30	4.79	3.26	2.24	0.85	1.06		
26	0.11	0.06	5.13	14.42	36.10	16.28	5.94	4.79	3.26	2.24	0.85	1.06		
27	0.12	0.06	4.62	12.21	13.27	15.04	5.30	4.96	3.26	2.24	0.85	1.00		
28	0.12	0.05	4.45	9.03	31.35	10.62	4.96	4.96	3.09	2.24	0.85	1.00		
29	0.13	0.05	4.79	14.42	42.80	9.03	5.30	4.79	2.92	2.07		1.00		
30	0.28	0.06	5.13	14.42	25.95	15.04	7.86	4.62	2.92	1.81		1.00		
31		4.96		34.20	19.38		6.26		2.75	1.81		1.00		
Total	7.72	11.05	174.43	391.05	530.44	542.09	273.91	290.65	112.62	84.20	33.89	28.98	2481.03	CMSDAY
Mean	0.26	0.36	5.81	12.61	17.11	18.07	8.84	9.69	3.63	2.72	1.21	0.93	6.80	CMS
Max	0.39	4.96	14.42	34.20	42.80	57.50	26.80	61.25	4.45	3.77	1.81	1.30	61.25	CMS
Min	0.11	0.05	4.45	4.79	5.62	7.86	4.96	4.11	2.75	1.54	0.85	0.05	0.05	CMS
Runoff	0.67	0.95	15.07	33.79	45.83	46.84	23.67	25.11	9.73	7.27	2.93	2.50	214.36	MCM

Momentary Peak 87.50 CMS. at 380.95 m. (MSL.) at 10.00 Hours , on Nov 11 , 2016

Runoff Yield 5.02 Liters/Second/Square KM. Momentary Peak Yield 64.580 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Mae Rim Tai **Amphoe** Mae Rim **Changwat** Chiang Mai

Drainge Area	452 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+319.700 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In the vicinity of gage observer's house. **Elevation** +325.270 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1954 - 1960 , 1977 to date
Rated by Flot	-
Rated by Current Meter	1954 - 1960 , 1977 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

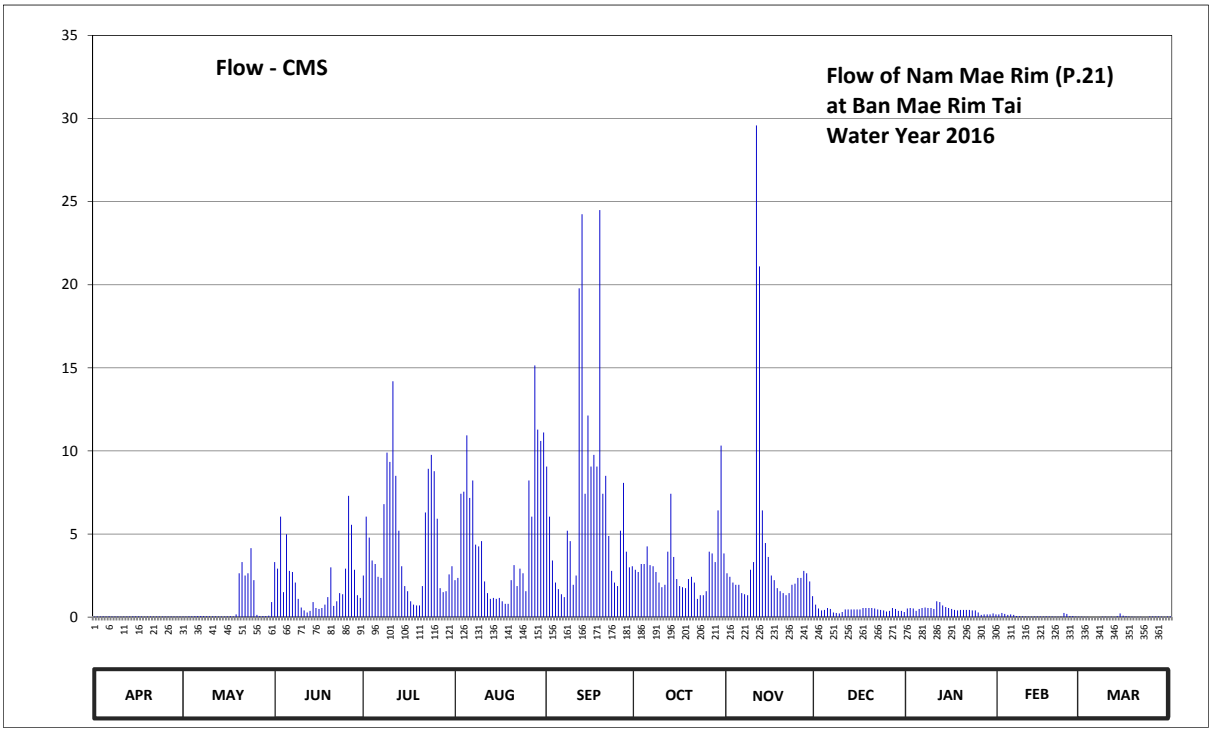
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.06	320.09	320.81	320.70	320.66	321.29	320.75	320.72	320.41	320.34	320.22	320.07	
2	320.08	320.09	320.76	321.06	320.68	321.06	320.73	320.69	320.34	320.35	320.25	320.05	
3	320.09	320.10	321.06	320.95	321.17	320.82	320.80	320.64	320.30	320.34	320.23	320.04	
4	320.10	320.10	320.55	320.82	321.18	320.64	320.80	320.62	320.31	320.29	320.21	320.00	
5	320.09	320.12	320.97	320.80	321.42	320.58	320.90	320.62	320.35	320.33	320.22	319.98	
6	320.10	320.14	320.74	320.69	321.15	320.53	320.79	320.54	320.33	320.35	320.21	319.97	
7	320.09	320.15	320.73	320.68	321.23	320.50	320.78	320.53	320.26	320.36	320.14	320.02	
8	320.08	320.14	320.64	321.12	320.91	320.99	320.73	320.52	320.25	320.35	320.12	320.07	
9	320.09	320.12	320.48	321.35	320.90	320.93	320.64	320.75	320.24	320.35	320.11	320.06	
10	320.07	320.10	320.36	321.31	320.93	320.62	320.60	320.81	320.27	320.33	320.09	320.04	
11	320.08	320.11	320.30	321.61	320.65	320.70	320.62	322.28	320.32	320.45	320.06	320.06	
12	320.09	320.10	320.26	321.25	320.54	321.89	320.87	321.95	320.32	320.44	320.06	320.05	
13	320.08	320.08	320.29	320.99	320.48	322.08	321.17	321.09	320.32	320.40	320.08	320.12	
14	320.10	320.09	320.44	320.78	320.49	321.17	320.84	320.92	320.32	320.37	320.09	320.24	
15	320.10	320.09	320.35	320.61	320.48	321.49	320.67	320.84	320.32	320.35	320.09	320.19	
16	320.10	320.10	320.33	320.56	320.49	321.29	320.61	320.70	320.32	320.33	320.09	320.12	
17	320.09	320.12	320.35	320.45	320.45	321.34	320.60	320.66	320.35	320.31	320.10	320.09	
18	320.07	320.10	320.41	320.41	320.42	321.29	320.59	320.59	320.35	320.30	320.09	320.06	
19	320.08	320.22	320.50	320.40	320.42	322.09	320.67	320.56	320.35	320.31	320.08	320.05	
20	320.08	320.72	320.77	320.40	320.66	321.17	320.69	320.54	320.35	320.31	320.07	320.05	
21	320.08	320.81	320.39	320.61	320.79	321.25	320.64	320.52	320.34	320.31	320.06	320.04	
22	320.08	320.70	320.45	321.08	320.61	320.96	320.48	320.54	320.32	320.31	320.09	320.03	
23	320.08	320.72	320.54	321.28	320.76	320.74	320.52	320.62	320.31	320.30	320.25	320.03	
24	320.08	320.89	320.53	321.34	320.72	320.64	320.52	320.63	320.30	320.30	320.23	320.08	
25	320.08	320.66	320.76	321.27	320.56	320.61	320.56	320.68	320.28	320.26	320.15	320.08	
26	320.08	320.21	321.16	321.05	321.23	320.99	320.87	320.68	320.29	320.21	320.14	320.09	
27	320.08	320.15	321.02	320.59	321.06	321.22	320.86	320.74	320.35	320.22	320.08	320.08	
28	320.09	320.15	320.75	320.55	321.66	320.87	320.81	320.72	320.33	320.22	320.07	320.06	
29	320.09	320.15	320.52	320.56	321.44	320.77	321.09	320.65	320.29	320.22		320.04	
30	320.09	320.18	320.49	320.71	321.40	320.78	321.38	320.51	320.29	320.24		320.08	
31		320.44		320.78	321.43		320.86		320.27	320.22		320.08	
Mean	320.09	320.26	320.59	320.86	320.87	321.04	320.76	320.76	320.31	320.32	320.13	320.07	
Max	320.10	320.89	321.16	321.61	321.66	322.09	321.38	322.28	320.41	320.45	320.25	320.24	322.28
Min	320.06	320.08	320.26	320.40	320.42	320.50	320.48	320.51	320.24	320.21	320.06	319.97	319.97

Annual Max Momentary Gage Height 322.46 m. (MSL.) , at 10.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 319.70 m. (MSL.) , River Bed 319.58 m. (MSL.)

Left Bank Elevation 325.17 m. (MSL.) ,

Right Bank Elevation 325.21 m. (MSL.) , Drainage Are 452 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.04	3.31	2.50	2.22	9.06	2.85	2.64	0.75	0.52	0.16	0.03		
2	0.04	0.04	2.92	6.05	2.36	6.05	2.71	2.43	0.52	0.55	0.25	0.02		
3	0.04	0.05	6.05	4.78	7.42	3.41	3.20	2.08	0.40	0.52	0.19	0.02		
4	0.05	0.05	1.50	3.41	7.55	2.08	3.20	1.94	0.43	0.37	0.13	0.00		
5	0.04	0.06	4.99	3.20	10.94	1.68	4.25	1.94	0.55	0.49	0.16	0.00		
6	0.05	0.07	2.78	2.43	7.17	1.38	3.13	1.44	0.49	0.55	0.13	0.00		
7	0.04	0.07	2.71	2.36	8.22	1.20	3.06	1.38	0.28	0.58	0.07	0.01		
8	0.04	0.07	2.08	6.80	4.36	5.20	2.71	1.32	0.25	0.55	0.06	0.03		
9	0.04	0.06	1.10	9.90	4.25	4.57	2.08	2.85	0.22	0.55	0.05	0.03		
10	0.03	0.05	0.58	9.34	4.57	1.94	1.80	3.31	0.31	0.49	0.04	0.02		
11	0.04	0.05	0.40	14.19	2.15	2.50	1.94	29.58	0.46	0.95	0.03	0.03		
12	0.04	0.05	0.28	8.50	1.44	19.78	3.94	21.10	0.46	0.90	0.03	0.02		
13	0.04	0.04	0.37	5.20	1.10	24.24	7.42	6.42	0.46	0.70	0.04	0.06		
14	0.05	0.04	0.90	3.06	1.15	7.42	3.62	4.46	0.46	0.61	0.04	0.22		
15	0.05	0.04	0.55	1.87	1.10	12.13	2.29	3.62	0.46	0.55	0.04	0.09		
16	0.05	0.05	0.49	1.56	1.15	9.06	1.87	2.50	0.46	0.49	0.04	0.06		
17	0.04	0.06	0.55	0.95	0.95	9.76	1.80	2.22	0.55	0.43	0.05	0.04		
18	0.03	0.05	0.75	0.75	0.80	9.06	1.74	1.74	0.55	0.40	0.04	0.03		
19	0.04	0.16	1.20	0.70	0.80	24.49	2.29	1.56	0.55	0.43	0.04	0.02		
20	0.04	2.64	2.99	0.70	2.22	7.42	2.43	1.44	0.55	0.43	0.03	0.02		
21	0.04	3.31	0.67	1.87	3.13	8.50	2.08	1.32	0.52	0.43	0.03	0.02		
22	0.04	2.50	0.95	6.30	1.87	4.88	1.10	1.44	0.46	0.43	0.04	0.01		
23	0.04	2.64	1.44	8.92	2.92	2.78	1.32	1.94	0.43	0.40	0.25	0.01		
24	0.04	4.15	1.38	9.76	2.64	2.08	1.32	2.01	0.40	0.40	0.19	0.04		
25	0.04	2.22	2.92	8.78	1.56	1.87	1.56	2.36	0.34	0.28	0.07	0.04		
26	0.04	0.13	7.30	5.92	8.22	5.20	3.94	2.36	0.37	0.13	0.07	0.04		
27	0.04	0.07	5.55	1.74	6.05	8.08	3.83	2.78	0.55	0.16	0.04	0.04		
28	0.04	0.07	2.85	1.50	15.14	3.94	3.31	2.64	0.49	0.16	0.03	0.03		
29	0.04	0.07	1.32	1.56	11.28	2.99	6.42	2.15	0.37	0.16		0.02		
30	0.04	0.09	1.15	2.57	10.60	3.06	10.32	1.26	0.37	0.22		0.04		
31		0.90		3.06	11.11		3.83		0.31	0.16		0.04		
Total	1.22	19.89	62.03	140.23	146.44	205.81	97.36	116.23	13.77	13.99	2.34	1.08	820.39	CMSDAY
Mean	0.04	0.64	2.07	4.52	4.72	6.86	3.14	3.87	0.44	0.45	0.08	0.03	2.25	CMS
Max	0.05	4.15	7.30	14.19	15.14	24.49	10.32	29.58	0.75	0.95	0.25	0.22	29.58	CMS
Min	0.03	0.04	0.28	0.70	0.80	1.20	1.10	1.26	0.22	0.13	0.03	0.00	0.00	CMS
Runoff	0.11	1.72	5.36	12.12	12.65	17.78	8.41	10.04	1.19	1.21	0.20	0.09	70.88	MCM

Momentary Peak 34.74 CMS. at 322.46 m. (MSL.) at 10.00 Hours , on Nov 11 , 2016

Runoff Yield 4.97 Liters/Second/Square KM. Momentary Peak Yield 76.860 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at Pracha Uthit Bridge.

	Ban Pracha Uthit Bridge	**Amphoe** Chom Thong	**Changwat** Chiang Mai
Drainge Area	452 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+275.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	near the gage observer's house.	**Elevation**	+277.954 m. (MSL.)
Gage Reading Frequency	3-time daily reading at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

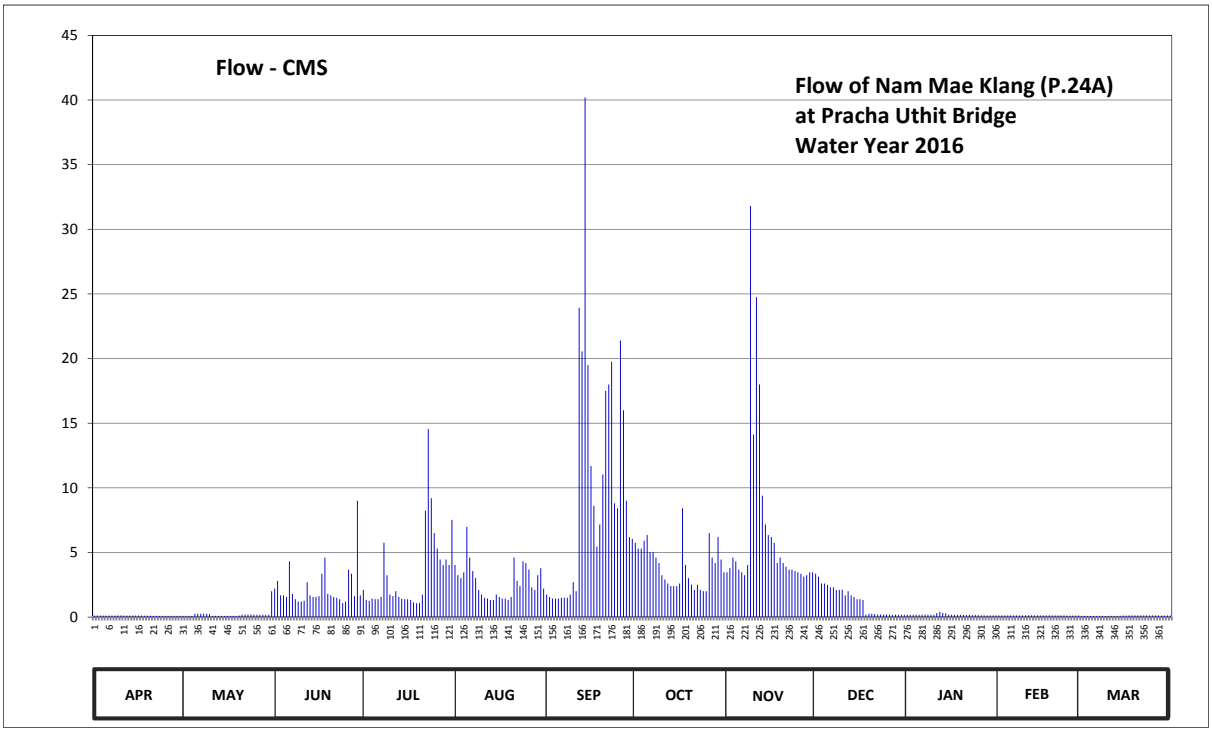
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.24	275.20	275.44	275.43	275.61	275.39	275.73	275.56	275.55	275.38	275.26	275.20	
2	275.24	275.20	275.50	275.32	275.54	275.36	275.70	275.59	275.53	275.38	275.28	275.20	
3	275.24	275.20	275.38	275.31	275.52	275.34	275.70	275.65	275.48	275.36	275.28	275.20	
4	275.24	275.20	275.38	275.34	275.56	275.34	275.74	275.63	275.48	275.35	275.27	275.20	
5	275.24	275.45	275.36	275.33	275.81	275.34	275.77	275.58	275.47	275.34	275.27	275.20	
6	275.24	275.46	275.63	275.33	275.65	275.35	275.68	275.56	275.45	275.36	275.26	275.20	
7	275.24	275.46	275.40	275.36	275.57	275.35	275.68	275.54	275.45	275.36	275.26	275.20	
8	275.24	275.46	275.33	275.73	275.52	275.35	275.65	275.61	275.43	275.36	275.26	275.20	
9	275.26	275.46	275.30	275.54	275.43	275.39	275.62	276.80	275.43	275.35	275.26	275.18	
10	275.26	275.43	275.30	275.39	275.39	275.49	275.54	276.16	275.43	275.34	275.26	275.20	
11	275.24	275.20	275.31	275.37	275.35	275.42	275.51	276.57	275.38	275.51	275.26	275.20	
12	275.24	275.20	275.49	275.42	275.34	276.54	275.48	276.32	275.42	275.61	275.25	275.20	
13	275.24	275.20	275.38	275.36	275.32	276.42	275.46	275.94	275.38	275.52	275.25	275.20	
14	275.24	275.20	275.36	275.34	275.32	277.04	275.46	275.82	275.36	275.49	275.25	275.21	
15	275.24	275.20	275.36	275.33	275.39	276.38	275.46	275.77	275.33	275.36	275.27	275.24	
16	275.24	275.20	275.37	275.33	275.36	276.05	275.48	275.76	275.33	275.36	275.25	275.24	
17	275.24	275.20	275.55	275.32	275.34	275.90	275.89	275.73	275.32	275.34	275.26	275.26	
18	275.22	275.20	275.65	275.29	275.34	275.71	275.61	275.62	275.35	275.34	275.26	275.26	
19	275.22	275.20	275.40	275.28	275.32	275.82	275.52	275.65	275.46	275.33	275.26	275.26	
20	275.22	275.24	275.38	275.28	275.36	276.02	275.47	275.62	275.46	275.33	275.25	275.26	
21	275.20	275.36	275.36	275.39	275.65	276.30	275.43	275.60	275.43	275.33	275.25	275.25	
22	275.20	275.36	275.35	275.88	275.50	276.32	275.47	275.58	275.40	275.33	275.25	275.25	
23	275.20	275.37	275.33	276.18	275.46	276.39	275.43	275.58	275.40	275.32	275.25	275.25	
24	275.20	275.40	275.28	275.93	275.63	275.91	275.42	275.57	275.40	275.34	275.24	275.25	
25	275.20	275.40	275.30	275.78	275.62	275.89	275.42	275.56	275.40	275.32	275.24	275.25	
26	275.20	275.36	275.58	275.70	275.58	276.45	275.78	275.55	275.40	275.27	275.24	275.25	
27	275.20	275.36	275.55	275.64	275.45	276.24	275.65	275.53	275.33	275.27	275.24	275.25	
28	275.20	275.35	275.37	275.61	275.43	275.92	275.62	275.54	275.36	275.27	275.24	275.24	
29	275.20	275.34	275.92	275.64	275.54	275.76	275.76	275.56	275.33	275.27		275.24	
30	275.20	275.35	275.38	275.61	275.59	275.75	275.64	275.56	275.38	275.27		275.24	
31		275.42		275.84	275.44		275.56		275.38	275.27		275.24	
Mean	275.23	275.31	275.42	275.50	275.48	275.86	275.59	275.74	275.41	275.36	275.26	275.23	
Max	275.26	275.46	275.92	276.18	275.81	277.04	275.89	276.80	275.55	275.61	275.28	275.26	277.04
Min	275.20	275.20	275.28	275.28	275.32	275.34	275.42	275.53	275.32	275.27	275.24	275.18	275.18

Annual Max Momentary Gage Height 278.75 m. (MSL.) , at 15.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 275.00 m. (MSL.) , River Bed 274.80 m. (MSL.)

Left Bank Elevation 280.22 m. (MSL.) ,

Right Bank Elevation 280.08 m. (MSL.) , Drainage Are 452 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	0.10	2.20	2.10	4.04	1.74	5.75	3.46	3.35	0.19	0.13	0.10		
2	0.12	0.10	2.80	1.32	3.24	1.56	5.30	3.79	3.13	0.19	0.14	0.10		
3	0.12	0.10	1.68	1.26	3.02	1.44	5.30	4.60	2.60	0.18	0.14	0.10		
4	0.12	0.10	1.68	1.44	3.46	1.44	5.90	4.32	2.60	0.18	0.14	0.10		
5	0.12	0.25	1.56	1.38	6.98	1.44	6.35	3.68	2.50	0.17	0.14	0.10		
6	0.12	0.26	4.32	1.38	4.60	1.50	5.02	3.46	2.30	0.18	0.13	0.10		
7	0.12	0.26	1.80	1.56	3.57	1.50	5.02	3.24	2.30	0.18	0.13	0.10		
8	0.12	0.26	1.38	5.75	3.02	1.50	4.60	4.04	2.10	0.18	0.13	0.10		
9	0.13	0.26	1.20	3.24	2.10	1.74	4.18	31.80	2.10	0.18	0.13	0.09		
10	0.13	0.23	1.20	1.74	1.74	2.70	3.24	14.12	2.10	0.17	0.13	0.10		
11	0.12	0.10	1.26	1.62	1.50	2.00	2.91	24.76	1.68	0.31	0.13	0.10		
12	0.12	0.10	2.70	2.00	1.44	23.92	2.60	18.00	2.00	0.41	0.13	0.10		
13	0.12	0.10	1.68	1.56	1.32	20.56	2.40	9.40	1.68	0.32	0.13	0.10		
14	0.12	0.10	1.56	1.44	1.32	40.20	2.40	7.16	1.56	0.29	0.13	0.11		
15	0.12	0.10	1.56	1.38	1.74	19.50	2.40	6.35	1.38	0.18	0.14	0.12		
16	0.12	0.10	1.62	1.38	1.56	11.70	2.60	6.20	1.38	0.18	0.13	0.12		
17	0.12	0.10	3.35	1.32	1.44	8.60	8.42	5.75	1.32	0.17	0.13	0.13		
18	0.11	0.10	4.60	1.14	1.44	5.45	4.04	4.18	0.18	0.17	0.13	0.13		
19	0.11	0.10	1.80	1.08	1.32	7.16	3.02	4.60	0.26	0.17	0.13	0.13		
20	0.11	0.12	1.68	1.08	1.56	11.04	2.50	4.18	0.26	0.17	0.13	0.13		
21	0.10	0.18	1.56	1.74	4.60	17.50	2.10	3.90	0.23	0.17	0.13	0.13		
22	0.10	0.18	1.50	8.24	2.80	18.00	2.50	3.68	0.20	0.17	0.13	0.13		
23	0.10	0.19	1.38	14.56	2.40	19.75	2.10	3.68	0.20	0.16	0.13	0.13		
24	0.10	0.20	1.08	9.20	4.32	8.80	2.00	3.57	0.20	0.17	0.12	0.13		
25	0.10	0.20	1.20	6.50	4.18	8.42	2.00	3.46	0.20	0.16	0.12	0.13		
26	0.10	0.18	3.68	5.30	3.68	21.40	6.50	3.35	0.20	0.14	0.12	0.13		
27	0.10	0.18	3.35	4.46	2.30	16.00	4.60	3.13	0.17	0.14	0.12	0.13		
28	0.10	0.18	1.62	4.04	2.10	9.00	4.18	3.24	0.18	0.14	0.12	0.12		
29	0.10	0.17	9.00	4.46	3.24	6.20	6.20	3.46	0.17	0.14		0.12		
30	0.10	0.18	1.68	4.04	3.79	6.05	4.46	3.46	0.19	0.14		0.12		
31		2.00		7.52	2.20		3.46		0.19	0.14		0.12		
Total	3.39	6.78	67.68	105.23	86.02	297.81	124.05	202.02	38.91	5.84	3.64	3.55	944.92	CMSDAY
Mean	0.11	0.22	2.26	3.39	2.77	9.93	4.00	6.73	1.26	0.19	0.13	0.11	2.59	CMS
Max	0.13	2.00	9.00	14.56	6.98	40.20	8.42	31.80	3.35	0.41	0.14	0.13	40.20	CMS
Min	0.10	0.10	1.08	1.08	1.32	1.44	2.00	3.13	0.17	0.14	0.12	0.09	0.09	CMS
Runoff	0.29	0.59	5.85	9.09	7.43	25.73	10.72	17.45	3.36	0.50	0.31	0.31	81.64	MCM

Momentary Peak 120.33 CMS. at 278.75 m. (MSL.) at 15.00 Hours , on Sep 14 , 2016

Runoff Yield 5.63 Liters/Second/Square KM. Momentary Peak Yield 261.590 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Mai **Amphoe** Mueang **Changwat** Kamphaeng Phet

Drainge Area	974 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+84.110 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 30 meters from the south of Wat Sri Phirom. **Elevation** +89.637 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1972 - 1974 , 1980 to date
Rated by Flot	-
Rated by Current Meter	1972 - 1974 , 1980 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

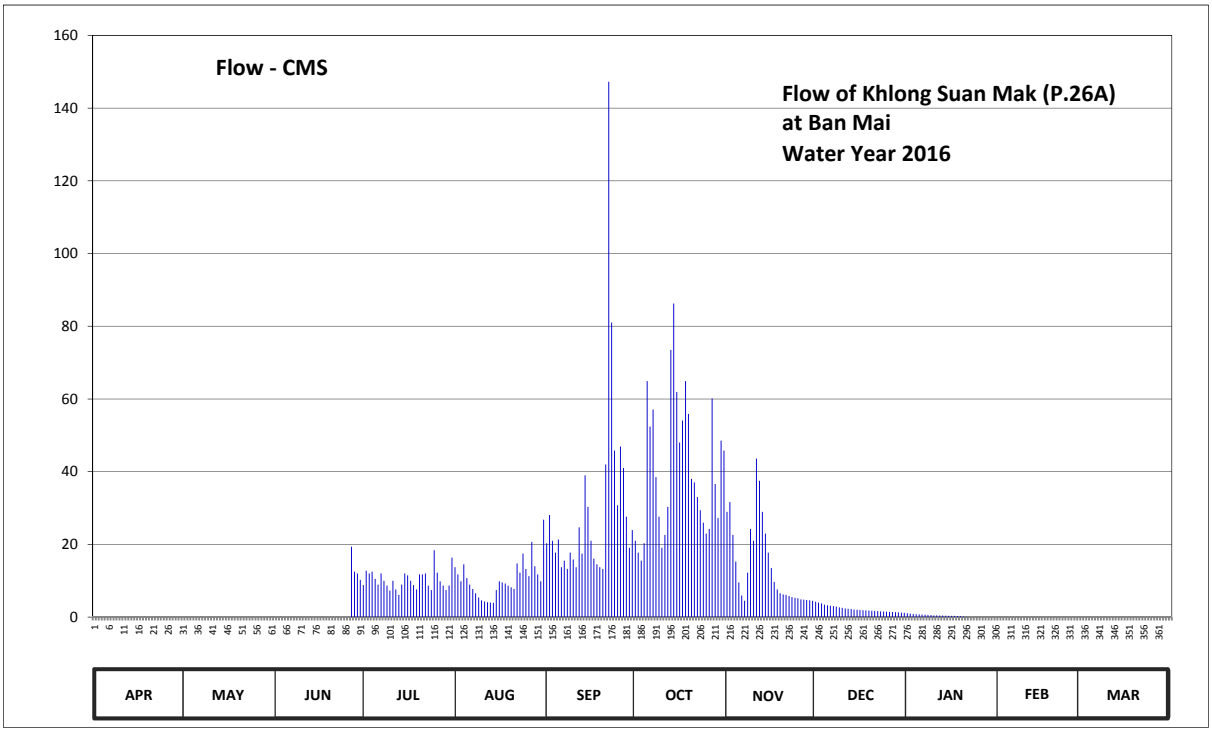
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	83.30	83.30	83.30	86.32	86.55	86.78	86.80	87.01	85.97	85.51	85.06	85.00	
2	83.30	83.30	83.30	86.51	86.47	86.99	86.70	87.07	85.95	85.49	85.06	85.00	
3	83.30	83.30	83.30	86.48	86.39	86.80	86.62	86.85	85.93	85.47	85.06	85.00	
4	83.30	83.30	83.30	86.50	86.58	86.70	86.78	86.61	85.89	85.46	85.05	85.00	
5	83.30	83.30	83.30	86.42	86.43	86.81	87.69	86.37	85.87	85.45	85.05	85.00	
6	83.30	83.30	83.30	86.33	86.33	86.55	87.48	86.13	85.85	85.44	85.05	85.00	
7	83.30	83.30	83.30	86.48	86.25	86.62	87.56	86.00	85.84	85.43	85.05	85.00	
8	83.30	83.30	83.30	86.40	86.17	86.53	87.22	86.49	85.82	85.42	85.04	85.00	
9	83.30	83.30	83.30	86.31	86.09	86.70	86.98	86.90	85.79	85.41	85.04	85.00	
10	83.30	83.30	83.30	86.22	86.01	86.63	86.74	86.80	85.77	85.40	85.04	85.00	
11	83.30	83.30	83.30	86.40	85.98	86.55	86.85	87.32	85.75	85.39	85.03	84.99	
12	83.30	83.30	83.30	86.24	85.96	86.91	87.04	87.20	85.74	85.38	85.03	84.99	
13	83.30	83.30	83.30	86.14	85.95	86.69	87.82	87.01	85.73	85.37	85.03	84.99	
14	83.30	83.30	83.30	86.33	85.94	87.23	87.99	86.86	85.71	85.36	85.02	84.99	
15	83.30	83.30	83.30	86.48	86.23	87.04	87.64	86.70	85.70	85.35	85.02	84.99	
16	83.30	83.30	83.30	86.46	86.39	86.80	87.40	86.54	85.69	85.34	85.02	84.99	
17	83.30	83.30	83.30	86.40	86.37	86.64	87.51	86.38	85.68	85.33	85.02	84.99	
18	83.30	83.30	83.30	86.32	86.35	86.58	87.69	86.24	85.67	85.32	85.01	84.99	
19	83.30	83.30	83.30	86.24	86.31	86.55	87.54	86.17	85.66	85.31	85.01	84.99	
20	83.30	83.30	83.30	86.47	86.28	86.53	87.21	86.15	85.65	85.27	85.01	84.99	
21	83.30	83.30	83.30	86.47	86.25	87.29	87.19	86.14	85.64	85.23	85.01	84.99	
22	83.30	83.30	83.30	86.48	86.59	88.65	87.10	86.12	85.63	85.13	85.01	84.98	
23	83.30	83.30	83.30	86.31	86.49	87.92	87.02	86.10	85.62	85.08	85.01	84.98	
24	83.30	83.30	83.30	86.23	86.69	87.36	86.94	86.08	85.61	85.08	85.01	84.98	
25	83.30	83.30	83.30	86.72	86.53	87.05	86.86	86.07	85.60	85.08	85.01	84.98	
26	83.30	83.30	83.56	86.49	86.45	87.38	86.90	86.04	85.59	85.07	85.01	84.98	
27	83.30	83.30	86.75	86.39	86.79	87.27	87.61	86.03	85.58	85.07	85.01	84.98	
28	83.30	83.30	86.50	86.31	86.56	86.98	87.18	86.02	85.57	85.07	85.01	84.98	
29	83.30	83.30	86.48	86.23	86.47	86.74	86.97	86.01	85.56	85.06		84.98	
30	83.30	83.30	86.41	86.31	86.39	86.89	87.41	86.00	85.55	85.06		84.98	
31		83.30		86.65	86.96		87.36		85.54	85.06		84.98	
Mean	83.30	83.30	83.74	86.39	86.36	86.94	87.22	86.45	85.71	85.29	85.03	84.99	
Max	83.30	83.30	86.75	86.72	86.96	88.65	87.99	87.32	85.97	85.51	85.06	85.00	88.65
Min	83.30	83.30	83.30	86.14	85.94	86.53	86.62	86.00	85.54	85.06	85.01	84.98	83.30

Annual Max Momentary Gage Height 88.77 m. (MSL.) , at 15.00 Hours , on Sep 22 , 2016

Zero Gage at Bottom Elevation 84.11 m. (MSL.) , River Bed 82.66 m. (MSL.)

Left Bank Elevation 87.62 m. (MSL.) ,

Right Bank Elevation 89.36 m. (MSL.) , Drainage Are 974 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	8.80	13.75	20.35	21.00	28.95	4.20	1.05	0.00	0.00	
2	0.00	0.00	0.00	12.75	11.75	28.07	17.75	31.65	4.00	0.95	0.00	0.00	
3	0.00	0.00	0.00	12.00	9.85	21.00	15.55	22.62	3.80	0.85	0.00	0.00	
4	0.00	0.00	0.00	12.50	14.50	17.75	20.35	15.28	3.42	0.80	0.00	0.00	
5	0.00	0.00	0.00	10.50	10.75	21.33	64.90	9.55	3.27	0.75	0.00	0.00	
6	0.00	0.00	0.00	8.95	8.95	13.75	52.40	5.95	3.12	0.70	0.00	0.00	
7	0.00	0.00	0.00	12.00	7.75	15.55	57.10	4.50	3.05	0.65	0.00	0.00	
8	0.00	0.00	0.00	10.00	6.55	13.25	38.50	12.25	2.90	0.60	0.00	0.00	
9	0.00	0.00	0.00	8.65	5.40	17.75	27.65	24.25	2.68	0.55	0.00	0.00	
10	0.00	0.00	0.00	7.30	4.60	15.83	19.05	21.00	2.53	0.50	0.00	0.00	
11	0.00	0.00	0.00	10.00	4.30	13.75	22.62	43.60	2.38	0.47	0.00	0.00	
12	0.00	0.00	0.00	7.60	4.10	24.67	30.30	37.50	2.30	0.45	0.00	0.00	
13	0.00	0.00	0.00	6.10	4.00	17.48	73.50	28.95	2.23	0.42	0.00	0.00	
14	0.00	0.00	0.00	8.95	3.90	39.00	86.25	22.95	2.08	0.40	0.00	0.00	
15	0.00	0.00	0.00	12.00	7.45	30.30	61.90	17.75	2.00	0.37	0.00	0.00	
16	0.00	0.00	0.00	11.50	9.85	21.00	48.00	13.50	1.95	0.35	0.00	0.00	
17	0.00	0.00	0.00	10.00	9.55	16.10	54.10	9.70	1.90	0.33	0.00	0.00	
18	0.00	0.00	0.00	8.80	9.25	14.50	64.90	7.60	1.85	0.30	0.00	0.00	
19	0.00	0.00	0.00	7.60	8.65	13.75	55.90	6.55	1.80	0.28	0.00	0.00	
20	0.00	0.00	0.00	11.75	8.20	13.25	38.00	6.25	1.75	0.18	0.00	0.00	
21	0.00	0.00	0.00	11.75	7.75	42.00	37.05	6.10	1.70	0.08	0.00	0.00	
22	0.00	0.00	0.00	12.00	14.75	147.25	33.00	5.80	1.65	0.00	0.00	0.00	
23	0.00	0.00	0.00	8.65	12.25	81.00	29.40	5.50	1.60	0.00	0.00	0.00	
24	0.00	0.00	0.00	7.45	17.48	45.80	25.95	5.30	1.55	0.00	0.00	0.00	
25	0.00	0.00	0.00	18.40	13.25	30.75	22.95	5.20	1.50	0.00	0.00	0.00	
26	0.00	0.00	0.00	12.25	11.25	46.90	24.25	4.90	1.45	0.00	0.00	0.00	
27	0.00	0.00	19.38	9.85	20.68	41.00	60.10	4.80	1.40	0.00	0.00	0.00	
28	0.00	0.00	12.50	8.65	14.00	27.65	36.60	4.70	1.35	0.00	0.00	0.00	
29	0.00	0.00	12.00	7.45	11.75	19.05	27.22	4.60	1.30	0.00		0.00	
30	0.00	0.00	10.25	8.65	9.85	23.92	48.55	4.50	1.25	0.00		0.00	
31		0.00		16.38	26.80		45.80		1.20	0.00		0.00	
Total	0.00	0.00	54.13	319.23	322.91	893.75	1260.59	421.75	69.16	11.03	0.00	0.00	3352.55	CMSDAY
Mean	0.00	0.00	1.80	10.30	10.42	29.79	40.66	14.06	2.23	0.36	0.00	0.00	9.19	CMS
Max	0.00	0.00	19.38	18.40	26.80	147.25	86.25	43.60	4.20	1.05	0.00	0.00	147.25	CMS
Min	0.00	0.00	0.00	6.10	3.90	13.25	15.55	4.50	1.20	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	4.68	27.58	27.90	77.22	108.91	36.44	5.98	0.95	0.00	0.00	289.66	MCM

Momentary Peak 160.20 CMS. at 88.77 m. (MSL.) at 15.00 Hours , on Sep 22 , 2016

Runoff Yield 9.43 Liters/Second/Square KM. Momentary Peak Yield 164.480 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on right bank at Ban Pong Ron.

Ban Pong Nam Ron **Amphoe** Khlong Lan **Changwat** Kamphaeng Phet

Drainge Area	529 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+143.770 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 9 meters from the top staff gage. **Elevation** +153.134 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Flot	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

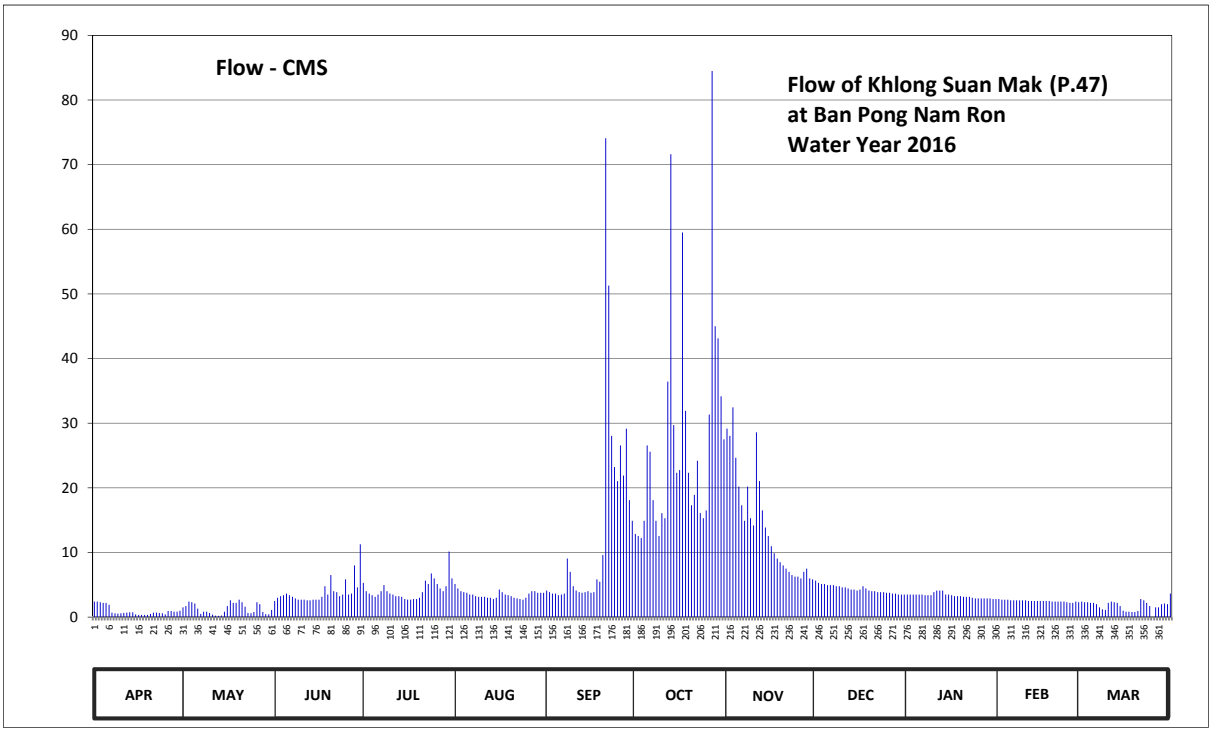
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.14	144.05	144.15	144.36	144.35	144.29	144.65	145.03	144.38	144.24	144.18	144.14	
2	144.14	144.07	144.20	144.28	144.31	144.27	144.64	145.01	144.36	144.24	144.17	144.13	
3	144.13	144.14	144.22	144.25	144.28	144.25	144.63	145.09	144.35	144.24	144.17	144.13	
4	144.12	144.13	144.23	144.23	144.27	144.25	144.71	144.94	144.35	144.24	144.17	144.12	
5	144.12	144.11	144.25	144.21	144.26	144.23	144.98	144.84	144.34	144.24	144.16	146.29	
6	144.09	144.03	144.23	144.24	144.24	144.24	144.96	144.77	144.34	144.24	144.16	144.10	
7	143.94	143.90	144.21	144.28	144.24	144.25	144.79	144.71	144.34	144.23	144.16	144.05	
8	143.92	143.97	144.19	144.34	144.22	144.52	144.71	144.84	144.33	144.23	144.16	144.02	
9	143.91	143.97	144.17	144.28	144.21	144.44	144.64	144.72	144.33	144.23	144.16	144.01	
10	143.92	143.93	144.17	144.25	144.21	144.33	144.74	144.69	144.32	144.27	144.16	144.12	
11	143.93	143.86	144.17	144.24	144.21	144.29	144.72	145.02	144.32	144.29	144.15	144.14	
12	143.94	143.79	144.16	144.22	144.20	144.27	145.16	144.86	144.31	144.29	144.15	144.13	
13	143.95	143.78	144.16	144.22	144.20	144.26	145.65	144.75	144.30	144.29	144.15	144.12	
14	143.95	143.80	144.17	144.21	144.18	144.27	145.04	144.68	144.30	144.24	144.15	144.07	
15	143.87	143.97	144.17	144.18	144.20	144.28	144.89	144.64	144.29	144.24	144.15	144.00	
16	143.84	144.07	144.17	144.17	144.30	144.26	144.90	144.59	144.30	144.23	144.15	143.97	
17	143.84	144.16	144.21	144.17	144.27	144.27	145.50	144.55	144.33	144.22	144.15	143.97	
18	143.84	144.12	144.33	144.18	144.24	144.39	145.08	144.52	144.31	144.22	144.15	143.96	
19	143.84	144.12	144.24	144.18	144.23	144.37	144.89	144.50	144.29	144.22	144.14	143.96	
20	143.90	144.17	144.42	144.20	144.22	144.54	144.77	144.48	144.28	144.21	144.14	143.99	
21	143.94	144.13	144.28	144.27	144.20	145.68	144.81	144.46	144.28	144.21	144.14	144.18	
22	143.94	144.06	144.27	144.38	144.19	145.39	144.93	144.44	144.27	144.21	144.14	144.16	
23	143.93	143.93	144.22	144.35	144.18	145.01	144.74	144.42	144.27	144.20	144.14	144.12	
24	143.92	143.92	144.24	144.43	144.17	144.91	144.72	144.41	144.27	144.19	144.13	144.07	
25	143.87	143.96	144.39	144.40	144.20	144.86	144.75	144.41	144.26	144.19	144.12		
26	143.99	144.13	144.24	144.35	144.25	144.98	145.07	144.40	144.26	144.19	144.12	144.05	
27	143.99	144.10	144.25	144.31	144.28	144.88	145.80	144.44	144.25	144.19	144.14	144.05	
28	143.97	143.96	144.48	144.28	144.28	145.03	145.30	144.46	144.25	144.19	144.13	144.10	
29	143.97	143.88	144.32	144.33	144.26	144.79	145.27	144.40	144.24	144.19		144.11	
30	144.00	143.87	144.60	144.56	144.26	144.71	145.12	144.39	144.24	144.18		144.10	
31		144.01		144.40	144.26		145.00		144.24	144.18		144.25	
Mean	143.96	144.00	144.25	144.28	144.24	144.55	144.95	144.65	144.30	144.22	144.15	144.15	
Max	144.14	144.17	144.60	144.56	144.35	145.68	145.80	145.09	144.38	144.29	144.18	146.29	146.29
Min	143.84	143.78	144.15	144.17	144.17	144.23	144.63	144.39	144.24	144.18	144.12	143.96	143.78

Annual Max Momentary Gage Height 146.22 m. (MSL.) , at 09.00 Hours , on Oct 13 , 2016

Zero Gage at Bottom Elevation 143.77 m. (MSL.) , River Bed 143.30 m. (MSL.)

Left Bank Elevation 147.75 m. (MSL.) ,

Right Bank Elevation 149.08 m. (MSL.) , Drainage Are 529 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	1.50	2.50	5.30	5.13	4.12	12.87	29.15	5.65	3.50	2.80	2.40	
2	2.40	1.70	3.00	4.00	4.42	3.87	12.55	28.05	5.30	3.50	2.70	2.30	
3	2.30	2.40	3.25	3.63	4.00	3.63	12.22	32.45	5.13	3.50	2.70	2.30	
4	2.20	2.30	3.38	3.38	3.87	3.63	14.90	24.65	5.13	3.50	2.70	2.20	
5	2.20	2.10	3.63	3.13	3.75	3.38	26.55	20.20	4.95	3.50	2.60	2.20	
6	1.90	1.30	3.38	3.50	3.50	3.50	25.60	17.30	4.95	3.50	2.60	2.00	
7	0.70	0.50	3.13	4.00	3.50	3.63	18.10	14.90	4.95	3.38	2.60	1.50	
8	0.60	0.85	2.90	4.95	3.25	9.05	14.90	20.20	4.77	3.38	2.60	1.20	
9	0.55	0.85	2.70	4.00	3.13	7.00	12.55	15.30	4.77	3.38	2.60	1.10	
10	0.60	0.65	2.70	3.63	3.13	4.77	16.10	14.18	4.60	3.87	2.60	2.20	
11	0.65	0.40	2.70	3.50	3.13	4.12	15.30	28.60	4.60	4.12	2.50	2.40	
12	0.70	0.23	2.60	3.25	3.00	3.87	36.45	21.05	4.42	4.12	2.50	2.30	
13	0.75	0.20	2.60	3.25	3.00	3.75	71.62	16.50	4.25	4.12	2.50	2.20	
14	0.75	0.25	2.70	3.13	2.80	3.87	29.70	13.85	4.25	3.50	2.50	1.70	
15	0.43	0.85	2.70	2.80	3.00	4.00	22.33	12.55	4.12	3.50	2.50	1.00	
16	0.35	1.70	2.70	2.70	4.25	3.75	22.75	10.97	4.25	3.38	2.50	0.85	
17	0.35	2.60	3.13	2.70	3.87	3.87	59.50	9.87	4.77	3.25	2.50	0.85	
18	0.35	2.20	4.77	2.80	3.50	5.83	31.90	9.05	4.42	3.25	2.50	0.80	
19	0.35	2.20	3.50	2.80	3.38	5.48	22.33	8.50	4.12	3.25	2.40	0.80	
20	0.50	2.70	6.50	3.00	3.25	9.60	17.30	8.00	4.00	3.13	2.40	0.95	
21	0.70	2.30	4.00	3.87	3.00	74.10	18.92	7.50	4.00	3.13	2.40	2.80	
22	0.70	1.60	3.87	5.65	2.90	51.30	24.18	7.00	3.87	3.13	2.40	2.60	
23	0.65	0.65	3.25	5.13	2.80	28.05	16.10	6.50	3.87	3.00	2.40	2.20	
24	0.60	0.60	3.50	6.75	2.70	23.23	15.30	6.25	3.87	2.90	2.30	1.70	
25	0.43	0.80	5.83	6.00	3.00	21.05	16.50	6.25	3.75	2.90	2.20		
26	0.95	2.30	3.50	5.13	3.63	26.55	31.35	6.00	3.75	2.90	2.20	1.50	
27	0.95	2.00	3.63	4.42	4.00	21.90	84.50	7.00	3.63	2.90	2.40	1.50	
28	0.85	0.80	8.00	4.00	4.00	29.15	45.00	7.50	3.63	2.90	2.30	2.00	
29	0.85	0.45	4.60	4.77	3.75	18.10	43.12	6.00	3.50	2.90		2.10	
30	1.00	0.43	11.25	10.15	3.75	14.90	34.15	5.83	3.50	2.80		2.00	
31		1.10		6.00	3.75		27.50		3.50	2.80		3.63	
Total	28.71	40.51	115.90	131.32	108.14	403.05	852.14	421.15	134.27	102.89	69.90	55.28	2463.26 CMSDAY
Mean	0.96	1.31	3.86	4.24	3.49	13.44	27.49	14.04	4.33	3.32	2.50	1.84	6.77 CMS
Max	2.40	2.70	11.25	10.15	5.13	74.10	84.50	32.45	5.65	4.12	2.80	3.63	84.50 CMS
Min	0.35	0.20	2.50	2.70	2.70	3.38	12.22	5.83	3.50	2.80	2.20	0.80	0.20 CMS
Runoff	2.48	3.50	10.01	11.35	9.34	34.82	73.62	36.39	11.60	8.89	6.04	4.78	212.83 MCM

Momentary Peak 129.65 CMS. at 146.22 m. (MSL.) at 09.00 Hours , on Oct 13 , 2016

Runoff Yield 12.76 Liters/Second/Square KM. Momentary Peak Yield 245.090 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at Ban Thai Tawee.

Ban Thai Tawee **Amphoe** Kosumpee Nakhon **Changwat** Kamphaeng Phet

Drainge Area	480 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+104.360 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10 meters from the top staff gage. **Elevation** +109.825 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

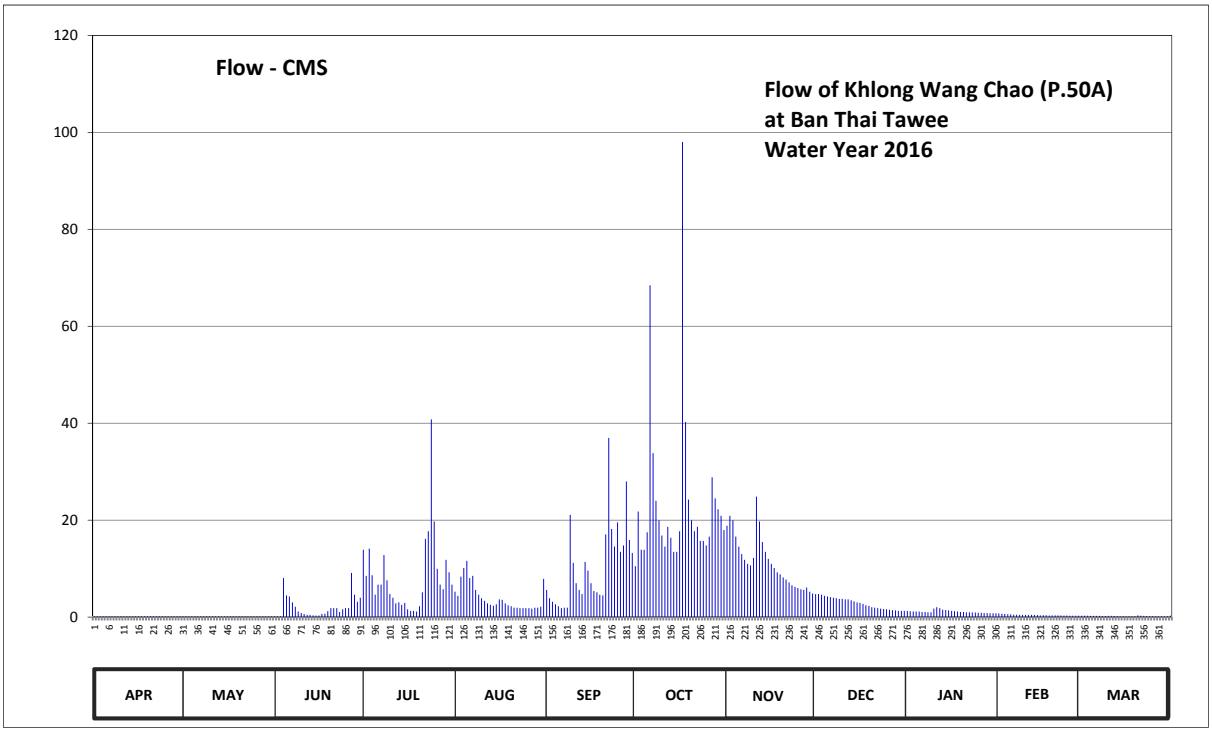
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.66	104.66	104.66	105.84	105.32	105.35	105.67	106.06	105.28	104.94	104.85	104.72	
2	104.66	104.66	104.66	105.55	105.25	105.21	106.19	106.15	105.28	104.93	104.84	104.72	
3	104.66	104.66	104.66	105.85	105.54	105.14	105.84	106.11	105.27	104.92	104.83	104.72	
4	104.66	104.66	105.52	105.56	105.65	105.09	105.84	105.96	105.25	104.92	104.82	104.71	
5	104.66	104.66	105.26	105.27	105.73	105.05	106.00	105.87	105.24	104.92	104.81	104.71	
6	104.66	104.66	105.24	105.43	105.52	105.01	107.04	105.80	105.23	104.91	104.80	104.70	
7	104.66	104.66	105.13	105.43	105.55	105.02	106.53	105.74	105.22	104.91	104.80	104.70	
8	104.66	104.66	105.04	105.79	105.35	105.02	106.28	105.70	105.21	104.90	104.79	104.69	
9	104.66	104.66	104.92	105.49	105.27	106.16	106.11	105.68	105.20	104.90	104.79	104.69	
10	104.66	104.66	104.87	105.28	105.21	105.71	105.97	105.76	105.20	105.00	104.78	104.70	
11	104.66	104.66	104.83	105.22	105.16	105.45	105.87	106.31	105.19	105.03	104.78	104.70	
12	104.66	104.66	104.78	105.11	105.11	105.35	106.05	106.10	105.19	105.01	104.78	104.69	
13	104.66	104.66	104.78	105.13	105.08	105.28	105.95	105.91	105.17	104.97	104.78	104.68	
14	104.66	104.66	104.75	105.08	105.06	105.72	105.82	105.82	105.15	104.96	104.77	104.67	
15	104.66	104.66	104.73	105.12	105.09	105.62	105.82	105.75	105.13	104.95	104.75	104.67	
16	104.66	104.66	104.73	104.98	105.19	105.45	106.01	105.70	105.12	104.94	104.76	104.66	
17	104.66	104.66	104.83	104.94	105.18	105.33	107.32	105.65	105.10	104.93	104.76	104.66	
18	104.66	104.66	104.84	104.94	105.11	105.31	106.65	105.60	105.07	104.92	104.73	104.66	
19	104.66	104.66	104.93	104.92	105.07	105.27	106.29	105.57	105.06	104.91	104.74	104.66	
20	104.66	104.66	105.01	105.05	105.05	105.26	106.11	105.53	105.03	104.91	104.74	104.74	
21	104.66	104.66	105.01	105.31	105.02	105.98	106.01	105.50	105.02	104.90	104.75	104.72	
22	104.66	104.66	105.01	105.94	105.02	106.59	106.05	105.46	105.01	104.90	104.74	104.70	
23	104.66	104.66	104.91	106.01	105.01	106.03	105.92	105.42	105.00	104.89	104.73	104.69	
24	104.66	104.66	104.98	106.66	105.01	105.87	105.92	105.40	104.99	104.89	104.73	104.68	
25	104.66	104.66	105.01	106.10	105.01	106.09	105.88	105.38	104.98	104.88	104.72	104.68	
26	104.66	104.66	105.01	105.64	105.01	105.82	105.96	105.36	104.97	104.88	104.72	104.67	
27	104.66	104.66	105.59	105.43	105.00	105.88	106.42	105.35	104.96	104.87	104.72	104.67	
28	104.66	104.66	105.27	105.36	105.02	106.40	106.30	105.39	104.95	104.87	104.72	104.67	
29	104.66	104.66	105.14	105.74	105.02	105.93	106.21	105.32	104.94	104.86		104.66	
30	104.66	104.66	105.22	105.60	105.04	105.81	106.15	105.29	104.94	104.86		104.66	
31		104.66		105.43	105.51		106.02		104.94	104.86		104.72	
Mean	104.66	104.66	104.98	105.46	105.20	105.57	106.14	105.69	105.11	104.92	104.77	104.69	
Max	104.66	104.66	105.59	106.66	105.73	106.59	107.32	106.31	105.28	105.03	104.85	104.74	107.32
Min	104.66	104.66	104.66	104.92	105.00	105.01	105.67	105.29	104.94	104.86	104.72	104.66	104.66

Annual Max Momentary Gage Height 107.84 m. (MSL.) , at 18.00 Hours , on Oct 17 , 2016

Zero Gage at Bottom Elevation 104.36 m. (MSL.) , River Bed 103.51 m. (MSL.)

Left Bank Elevation 109.86 m. (MSL.) ,

Right Bank Elevation 109.85 m. (MSL.) , Drainage Are 480 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.15	0.15	13.90	5.25	5.62	10.48	18.85	4.75	1.30	0.75	0.30		
2	0.15	0.15	0.15	8.50	4.38	3.88	21.78	20.88	4.75	1.22	0.70	0.30		
3	0.15	0.15	0.15	14.12	8.35	3.15	13.90	19.98	4.63	1.15	0.65	0.30		
4	0.15	0.15	8.05	8.65	10.13	2.65	13.90	16.60	4.38	1.15	0.60	0.27		
5	0.15	0.15	4.50	4.63	11.60	2.25	17.50	14.57	4.25	1.15	0.55	0.27		
6	0.15	0.15	4.25	6.70	8.05	1.85	68.45	13.00	4.13	1.07	0.50	0.25		
7	0.15	0.15	3.05	6.70	8.50	1.95	33.83	11.80	4.00	1.07	0.50	0.25		
8	0.15	0.15	2.15	12.80	5.62	1.95	24.00	11.00	3.88	1.00	0.47	0.22		
9	0.15	0.15	1.15	7.60	4.63	21.10	19.98	10.65	3.75	1.00	0.47	0.22		
10	0.15	0.15	0.85	4.75	3.88	11.20	16.82	12.20	3.75	1.75	0.45	0.25		
11	0.15	0.15	0.65	4.00	3.35	7.00	14.57	24.85	3.65	2.05	0.45	0.25		
12	0.15	0.15	0.45	2.85	2.85	5.62	18.63	19.75	3.65	1.85	0.45	0.22		
13	0.15	0.15	0.45	3.05	2.55	4.75	16.37	15.47	3.45	1.52	0.45	0.20		
14	0.15	0.15	0.37	2.55	2.35	11.40	13.45	13.45	3.25	1.45	0.42	0.17		
15	0.15	0.15	0.32	2.95	2.65	9.60	13.45	12.00	3.05	1.37	0.37	0.17		
16	0.15	0.15	0.32	1.60	3.65	7.00	17.73	11.00	2.95	1.30	0.40	0.15		
17	0.15	0.15	0.65	1.30	3.55	5.38	98.00	10.13	2.75	1.22	0.40	0.15		
18	0.15	0.15	0.70	1.30	2.85	5.13	40.25	9.25	2.45	1.15	0.32	0.15		
19	0.15	0.15	1.22	1.15	2.45	4.63	24.25	8.80	2.35	1.07	0.35	0.15		
20	0.15	0.15	1.85	2.25	2.25	4.50	19.98	8.20	2.05	1.07	0.35	0.35		
21	0.15	0.15	1.85	5.13	1.95	17.05	17.73	7.75	1.95	1.00	0.37	0.30		
22	0.15	0.15	1.85	16.15	1.95	36.98	18.63	7.15	1.85	1.00	0.35	0.25		
23	0.15	0.15	1.07	17.73	1.85	18.18	15.70	6.55	1.75	0.95	0.32	0.22		
24	0.15	0.15	1.60	40.80	1.85	14.57	15.70	6.25	1.67	0.95	0.32	0.20		
25	0.15	0.15	1.85	19.75	1.85	19.53	14.80	6.00	1.60	0.90	0.30	0.20		
26	0.15	0.15	1.85	9.95	1.85	13.45	16.60	5.75	1.52	0.90	0.30	0.17		
27	0.15	0.15	9.10	6.70	1.75	14.80	28.85	5.62	1.45	0.85	0.30	0.17		
28	0.15	0.15	4.63	5.75	1.95	28.00	24.50	6.12	1.37	0.85	0.30	0.17		
29	0.15	0.15	3.15	11.80	1.95	15.92	22.25	5.25	1.30	0.80		0.15		
30	0.15	0.15	4.00	9.25	2.15	13.22	20.88	4.88	1.30	0.80		0.15		
31		0.15		6.70	7.90		17.95		1.30	0.80		0.30		
Total	4.50	4.65	62.38	261.06	125.89	312.31	730.91	343.75	88.93	35.71	12.16	6.87	1989.12	CMSDAY
Mean	0.15	0.15	2.08	8.42	4.06	10.41	23.58	11.46	2.87	1.15	0.43	0.22	5.45	CMS
Max	0.15	0.15	9.10	40.80	11.60	36.98	98.00	24.85	4.75	2.05	0.75	0.35	98.00	CMS
Min	0.15	0.15	0.15	1.15	1.75	1.85	10.48	4.88	1.30	0.80	0.30	0.15	0.15	CMS
Runoff	0.39	0.40	5.39	22.56	10.88	26.98	63.15	29.70	7.68	3.09	1.05	0.59	171.86	MCM

Momentary Peak 182.65 CMS. at 107.84 m. (MSL.) at 18.00 Hours , on Oct 17 , 2016

Runoff Yield 11.42 Liters/Second/Square KM. Momentary Peak Yield 382.910 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Sahakorn Romklao **Amphoe** Phrao **Changwat** Chiang Mai

Drainge Area	546 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+408.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10 meters from the top staff gage. **Elevation** +416.250 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1998 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

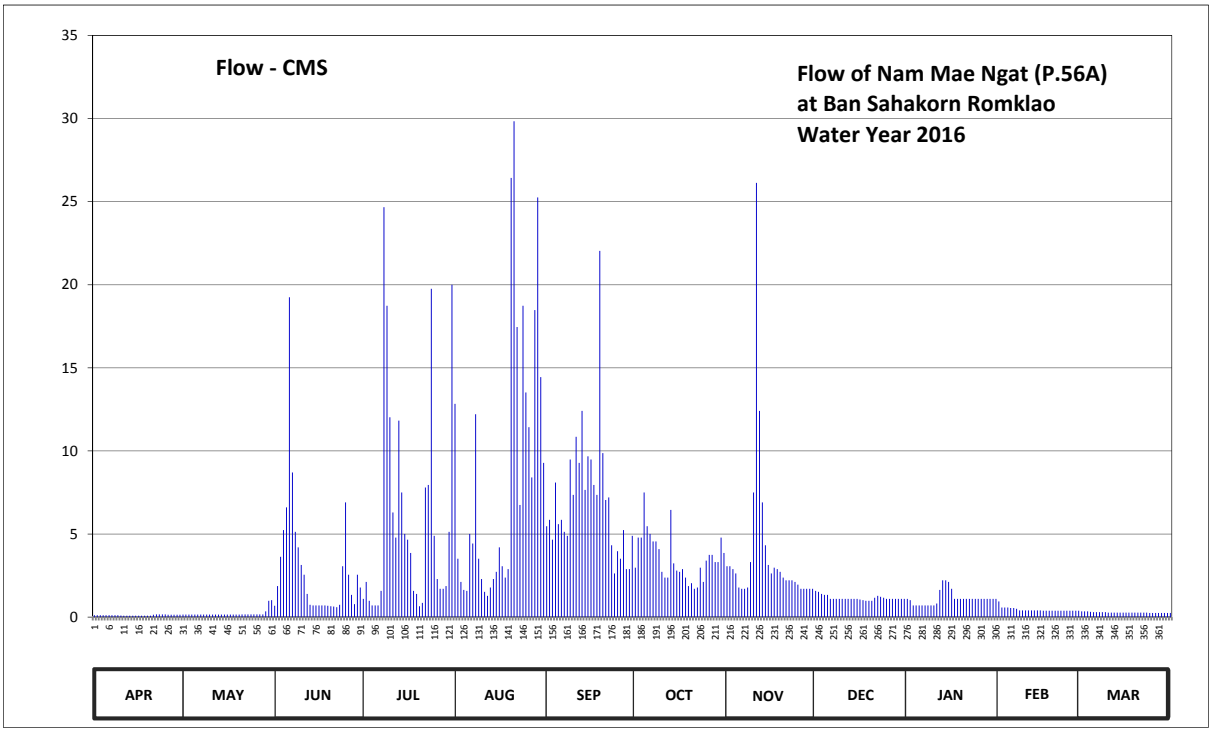
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	408.51	408.55	408.79	408.90	409.81	409.38	409.15	409.16	408.98	408.90	408.86	408.66	
2	408.51	408.55	409.02	409.05	409.21	409.41	409.32	409.16	408.97	408.88	408.75	408.66	
3	408.51	408.55	409.22	408.87	409.05	409.31	409.32	409.14	408.95	408.80	408.75	408.66	
4	408.51	408.55	409.36	408.80	408.99	409.56	409.52	409.11	408.94	408.80	408.75	408.65	
5	408.51	408.55	409.46	408.80	408.98	409.39	409.38	409.01	408.94	408.80	408.74	408.64	
6	408.51	408.55	410.08	408.80	409.34	409.41	409.34	409.00	408.90	408.80	408.74	408.64	
7	408.51	408.55	409.60	408.98	409.29	409.35	409.30	409.00	408.90	408.80	408.72	408.64	
8	408.51	408.55	409.35	410.28	409.78	409.33	409.30	409.01	408.90	408.80	408.68	408.64	
9	408.51	408.55	409.27	410.06	409.21	409.64	409.26	409.19	408.90	408.80	408.68	408.64	
10	408.50	408.55	409.17	409.77	409.07	409.51	409.12	409.52	408.90	408.80	408.68	408.63	
11	408.49	408.55	409.10	409.44	408.97	409.71	409.08	410.33	408.90	408.83	408.68	408.63	
12	408.49	408.55	408.95	409.32	408.93	409.63	409.08	409.79	408.90	408.99	408.68	408.63	
13	408.49	408.55	408.81	409.76	409.01	409.79	409.45	409.48	408.90	409.06	408.68	408.63	
14	408.49	408.55	408.80	409.52	409.07	409.53	409.18	409.28	408.90	409.06	408.68	408.63	
15	408.49	408.55	408.80	409.34	409.12	409.65	409.13	409.17	408.90	409.05	408.68	408.63	
16	408.49	408.55	408.80	409.31	409.27	409.64	409.12	409.11	408.89	409.00	408.67	408.63	
17	408.49	408.55	408.80	409.24	409.16	409.55	409.14	409.15	408.88	408.90	408.67	408.63	
18	408.49	408.55	408.80	408.98	409.08	409.51	409.08	409.14	408.87	408.90	408.67	408.63	
19	408.49	408.55	408.79	408.95	409.14	410.19	409.02	409.12	408.87	408.90	408.67	408.63	
20	408.49	408.55	408.78	408.78	410.34	409.66	409.04	409.08	408.87	408.90	408.67	408.63	
21	408.54	408.56	408.77	408.84	410.45	409.49	409.00	409.06	408.91	408.90	408.67	408.63	
22	408.56	408.56	408.76	409.54	410.01	409.50	409.01	409.06	408.93	408.90	408.67	408.63	
23	408.56	408.56	408.81	409.55	409.47	409.28	409.15	409.06	408.92	408.90	408.67	408.63	
24	408.56	408.56	409.16	410.10	410.06	409.11	409.05	409.05	408.91	408.90	408.67	408.62	
25	408.56	408.56	409.48	409.33	409.84	409.25	409.20	409.03	408.90	408.90	408.67	408.62	
26	408.54	408.56	409.10	409.07	409.74	409.21	409.23	409.00	408.90	408.90	408.67	408.62	
27	408.54	408.56	408.94	409.00	409.58	409.36	409.23	409.00	408.90	408.90	408.67	408.62	
28	408.54	408.56	408.82	409.00	410.05	409.14	409.19	409.00	408.90	408.90	408.67	408.62	
29	408.54	408.66	409.10	409.02	410.30	409.14	409.19	409.00	408.90	408.90		408.62	
30	408.54	408.87	409.01	409.35	409.88	409.33	409.32	409.00	408.90	408.90		408.62	
31		408.88		410.11	409.63		409.24		408.90	408.90		408.62	
Mean	408.52	408.58	409.06	409.29	409.48	409.47	409.20	409.17	408.91	408.89	408.70	408.63	
Max	408.56	408.88	410.08	410.28	410.45	410.19	409.52	410.33	408.98	409.06	408.86	408.66	410.45
Min	408.49	408.55	408.76	408.78	408.93	409.11	409.00	409.00	408.87	408.80	408.67	408.62	408.49

Annual Max Momentary Gage Height 410.75 m. (MSL.) , at 22.00 Hours , on Aug 20 , 2016

Zero Gage at Bottom Elevation 408.30 m. (MSL.) , River Bed 408.40 m. (MSL.)

Left Bank Elevation 415.74 m. (MSL.) ,

Right Bank Elevation 415.78 m. (MSL.) , Drainage Are 546 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.11	0.15	0.68	1.10	12.83	5.47	2.97	3.06	1.58	1.10	0.94	0.35		
2	0.11	0.15	1.87	2.12	3.51	5.85	4.78	3.06	1.52	1.02	0.58	0.35		
3	0.11	0.15	3.63	0.98	2.12	4.66	4.78	2.89	1.40	0.70	0.58	0.35		
4	0.11	0.15	5.24	0.70	1.64	8.10	7.50	2.63	1.34	0.70	0.58	0.32		
5	0.11	0.15	6.60	0.70	1.58	5.59	5.47	1.78	1.34	0.70	0.55	0.30		
6	0.11	0.15	19.24	0.70	5.01	5.85	5.01	1.70	1.10	0.70	0.55	0.30		
7	0.11	0.15	8.70	1.58	4.43	5.13	4.55	1.70	1.10	0.70	0.50	0.30		
8	0.11	0.15	5.13	24.66	12.21	4.89	4.55	1.78	1.10	0.70	0.40	0.30		
9	0.11	0.15	4.20	18.73	3.51	9.48	4.09	3.31	1.10	0.70	0.40	0.30		
10	0.10	0.15	3.14	12.02	2.29	7.35	2.72	7.50	1.10	0.70	0.40	0.27		
11	0.09	0.15	2.55	6.30	1.52	10.85	2.38	26.13	1.10	0.82	0.40	0.27		
12	0.09	0.15	1.40	4.78	1.28	9.28	2.38	12.41	1.10	1.64	0.40	0.27		
13	0.09	0.15	0.74	11.82	1.78	12.41	6.45	6.90	1.10	2.21	0.40	0.27		
14	0.09	0.15	0.70	7.50	2.29	7.65	3.23	4.32	1.10	2.21	0.40	0.27		
15	0.09	0.15	0.70	5.01	2.72	9.67	2.80	3.14	1.10	2.12	0.40	0.27		
16	0.09	0.15	0.70	4.66	4.20	9.48	2.72	2.63	1.06	1.70	0.38	0.27		
17	0.09	0.15	0.70	3.86	3.06	7.95	2.89	2.97	1.02	1.10	0.38	0.27		
18	0.09	0.15	0.70	1.58	2.38	7.35	2.38	2.89	0.98	1.10	0.38	0.27		
19	0.09	0.15	0.68	1.40	2.89	22.04	1.87	2.72	0.98	1.10	0.38	0.27		
20	0.09	0.15	0.65	0.65	26.43	9.87	2.04	2.38	0.98	1.10	0.38	0.27		
21	0.14	0.16	0.63	0.86	29.83	7.05	1.70	2.21	1.16	1.10	0.38	0.27		
22	0.16	0.16	0.60	7.80	17.45	7.20	1.78	2.21	1.28	1.10	0.38	0.27		
23	0.16	0.16	0.74	7.95	6.75	4.32	2.97	2.21	1.22	1.10	0.38	0.27		
24	0.16	0.16	3.06	19.75	18.73	2.63	2.12	2.12	1.16	1.10	0.38	0.25		
25	0.16	0.16	6.90	4.89	13.52	3.97	3.40	1.95	1.10	1.10	0.38	0.25		
26	0.14	0.16	2.55	2.29	11.43	3.51	3.74	1.70	1.10	1.10	0.38	0.25		
27	0.14	0.16	1.34	1.70	8.40	5.24	3.74	1.70	1.10	1.10	0.38	0.25		
28	0.14	0.16	0.78	1.70	18.47	2.89	3.31	1.70	1.10	1.10	0.38	0.25		
29	0.14	0.35	2.55	1.87	25.25	2.89	3.31	1.70	1.10	1.10		0.25		
30	0.14	0.98	1.78	5.13	14.44	4.89	4.78	1.70	1.10	1.10		0.25		
31		1.02		20.00	9.28		3.86		1.10	1.10		0.25		
Total	3.47	6.63	88.88	184.79	271.23	213.51	110.27	115.10	35.72	34.92	12.42	8.65	1085.59	CMSDAY
Mean	0.12	0.21	2.96	5.96	8.75	7.12	3.56	3.84	1.15	1.13	0.44	0.28	2.97	CMS
Max	0.16	1.02	19.24	24.66	29.83	22.04	7.50	26.13	1.58	2.21	0.94	0.35	29.83	CMS
Min	0.09	0.15	0.60	0.65	1.28	2.63	1.70	1.70	0.98	0.70	0.38	0.25	0.09	CMS
Runoff	0.30	0.57	7.68	15.97	23.43	18.45	9.53	9.94	3.09	3.02	1.07	0.75	93.79	MCM

Momentary Peak 40.18 CMS. at 410.75 m. (MSL.) at 22.00 Hours , on Aug 20 , 2016

Runoff Yield 5.52 Liters/Second/Square KM. Momentary Peak Yield 74.550 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Mae Tae , Chiang Mai (P.67)

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

Location : on left bank at the bridge on highway.

Ban Mae Tae **Amphoe** San Sai **Changwat** Chiang Mai

Drainge Area	5,323 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+315.926 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the top staff gage. **Elevation** +323.690 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1995 to date
Rated by Flot	-
Rated by Current Meter	1995 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Mae Faek and Mae Taeng weir situated above gage site. Flow effected by the sand-dredger about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

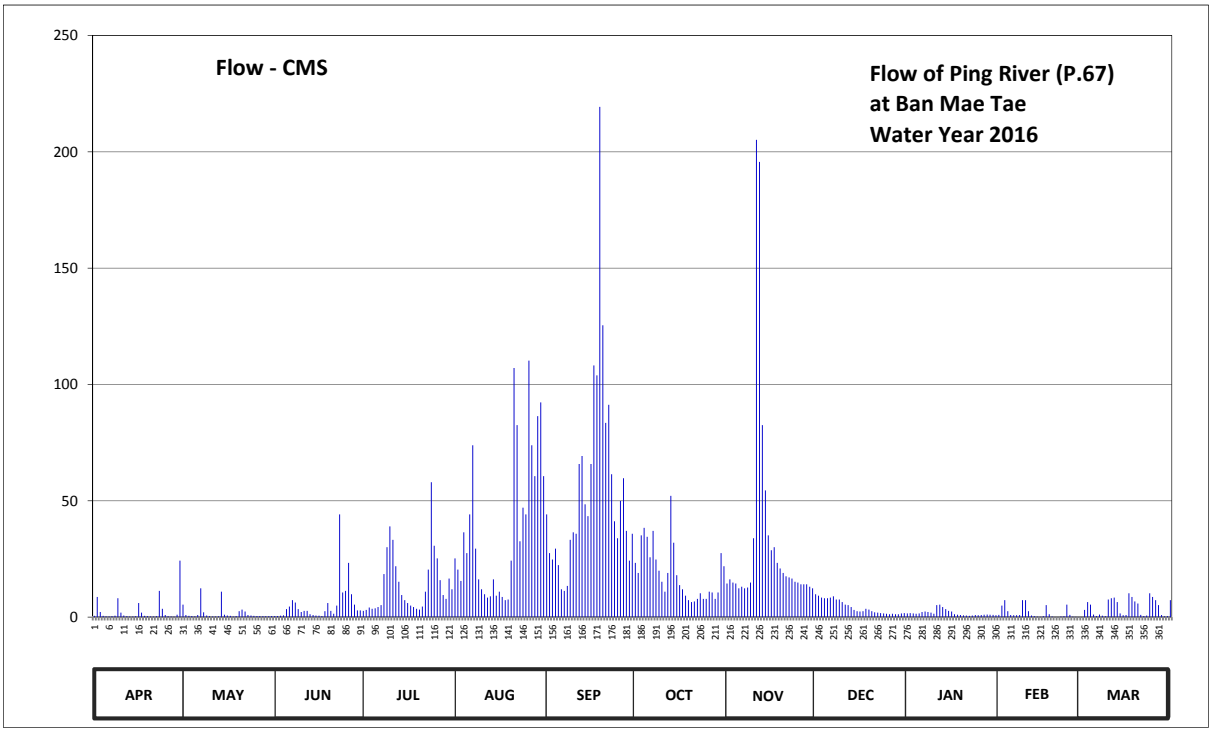
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	314.91	315.24	314.89	315.10	315.78	316.07	315.74	315.54	315.41	315.03	314.98	314.79	
2	315.37	314.97	314.90	315.12	315.68	315.82	315.65	315.59	315.39	315.04	315.22	315.12	
3	315.07	314.91	314.92	315.18	315.57	315.77	315.94	315.55	315.36	315.03	315.32	315.29	
4	314.91	314.89	314.94	315.15	315.96	315.85	315.99	315.54	315.35	315.02	315.09	315.24	
5	314.86	314.86	315.14	315.16	315.82	315.72	315.93	315.48	315.35	315.03	314.97	315.00	
6	314.85	314.96	315.20	315.19	316.07	315.47	315.79	315.50	315.36	315.07	314.95	314.89	
7	314.88	315.48	315.32	315.23	316.43	315.45	315.97	315.48	315.38	315.08	314.95	315.00	
8	314.92	315.06	315.28	315.64	315.85	315.51	315.77	315.49	315.33	315.07	314.97	314.92	
9	315.35	314.93	315.14	315.86	315.59	315.91	315.67	315.55	315.33	315.05	315.32	314.88	
10	315.05	314.88	315.07	316.00	315.47	315.96	315.56	315.92	315.29	315.02	315.32	315.33	
11	314.93	314.85	315.10	315.91	315.41	315.95	315.44	317.48	315.24	315.23	315.09	315.35	
12	314.87	314.84	315.10	315.71	315.36	316.34	315.65	317.42	315.23	315.24	314.93	315.36	
13	314.85	314.86	315.01	315.56	315.38	316.38	316.18	316.52	315.19	315.19	314.87	315.29	
14	314.85	315.44	314.97	315.40	315.59	316.13	315.89	316.21	315.12	315.14	314.82	315.03	
15	314.88	314.99	314.93	315.32	315.39	316.06	315.63	315.94	315.09	315.10	314.80	314.95	
16	315.27	314.93	314.92	315.27	315.44	316.34	315.52	315.84	315.08	315.08	314.87	314.96	
17	315.05	314.91	314.89	315.22	315.37	316.77	315.47	315.86	315.09	315.01	315.23	315.42	
18	314.91	314.85	315.09	315.19	315.32	316.73	315.39	315.74	315.15	314.99	315.01	315.37	
19	314.87	314.89	315.27	315.15	315.33	317.57	315.32	315.69	315.13	314.96	314.85	315.30	
20	314.85	315.09	315.10	315.13	315.76	316.91	315.29	315.65	315.09	314.94	314.79	315.26	
21	314.84	315.13	315.02	315.20	316.76	316.53	315.30	315.62	315.06	314.93	314.79	314.98	
22	314.88	315.08	315.22	315.44	316.52	316.61	315.34	315.61	315.05	314.91	314.85	314.90	
23	315.45	314.96	316.07	315.68	315.90	316.29	315.42	315.60	315.04	314.93	314.87	314.93	
24	315.15	314.93	315.43	316.25	316.11	316.03	315.34	315.56	315.03	314.96	315.24	315.42	
25	314.96	314.91	315.45	315.87	316.07	315.92	315.34	315.55	315.02	314.95	314.98	315.37	
26	314.87	314.89	315.74	315.78	316.79	316.15	315.44	315.53	315.01	314.97	314.83	315.32	
27	314.84	314.89	315.41	315.58	316.43	316.27	315.43	315.53	315.02	314.99	314.81	315.23	
28	314.83	314.87	315.24	315.40	316.28	315.97	315.34	315.53	315.01	315.00	314.78	314.97	
29	314.99	314.87	315.11	315.34	316.56	315.76	315.43	315.50	315.01	314.99		314.86	
30	315.76	314.88	315.11	315.60	316.62	315.95	315.82	315.48	315.03	314.98		314.88	
31		314.89		315.47	316.28		315.71		315.04	314.95		315.32	
Mean	315.00	314.97	315.17	315.45	315.90	316.14	315.60	315.78	315.17	315.03	314.98	315.13	
Max	315.76	315.48	316.07	316.25	316.79	317.57	316.18	317.48	315.41	315.24	315.32	315.42	317.57
Min	314.83	314.84	314.89	315.10	315.32	315.45	315.29	315.48	315.01	314.91	314.78	314.79	314.78

Annual Max Momentary Gage Height 318.27 m. (MSL.) , at 14.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 315.93 m. (MSL.) , River Bed 312.75 m. (MSL.)

Left Bank Elevation 326.33 m. (MSL.) ,

Right Bank Elevation 326.21 m. (MSL.) , Drainage Are 5,323 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.56	5.38	0.46	2.70	25.24	44.11	23.32	14.47	9.86	1.58	0.98	0.09		
2	8.66	0.92	0.50	3.06	20.44	27.48	19.00	16.24	9.22	1.74	4.94	3.06		
3	2.22	0.56	0.62	4.14	15.53	24.76	35.16	14.82	8.38	1.58	7.26	6.48		
4	0.56	0.46	0.74	3.60	36.44	29.40	38.36	14.47	8.10	1.42	2.54	5.38		
5	0.34	0.34	3.42	3.78	27.48	22.36	34.52	12.34	8.10	1.58	0.92	1.10		
6	0.30	0.86	4.50	4.32	44.11	11.99	25.72	13.05	8.38	2.22	0.80	0.46		
7	0.42	12.34	7.26	5.16	73.88	11.28	37.08	12.34	8.94	2.38	0.80	1.10		
8	0.62	2.06	6.26	18.52	29.40	13.40	24.76	12.70	7.54	2.22	0.92	0.62		
9	8.10	0.68	3.42	30.04	16.24	33.24	19.96	14.82	7.54	1.90	7.26	0.42		
10	1.90	0.42	2.22	39.00	11.99	36.44	15.18	33.88	6.48	1.42	7.26	7.54		
11	0.68	0.30	2.70	33.24	9.86	35.80	10.92	205.10	5.38	5.16	2.54	8.10		
12	0.38	0.26	2.70	21.88	8.38	65.78	19.00	195.65	5.16	5.38	0.68	8.38		
13	0.30	0.34	1.26	15.18	8.94	69.26	52.14	82.52	4.32	4.32	0.38	6.48		
14	0.30	10.92	0.92	9.50	16.24	48.49	31.96	54.47	3.06	3.42	0.18	1.58		
15	0.42	1.04	0.68	7.26	9.22	43.38	18.04	35.16	2.54	2.70	0.10	0.80		
16	6.04	0.68	0.62	6.04	10.92	65.78	13.76	28.76	2.38	2.38	0.38	0.86		
17	1.90	0.56	0.46	4.94	8.66	108.14	11.99	30.04	2.54	1.26	5.16	10.21		
18	0.56	0.30	2.54	4.32	7.26	103.92	9.22	23.32	3.60	1.04	1.26	8.66		
19	0.38	0.46	6.04	3.60	7.54	219.27	7.26	20.92	3.24	0.86	0.30	6.70		
20	0.30	2.54	2.70	3.24	24.28	125.44	6.48	19.00	2.54	0.74	0.09	5.82		
21	0.26	3.24	1.42	4.50	107.08	83.48	6.70	17.56	2.06	0.68	0.09	0.98		
22	0.42	2.38	4.94	10.92	82.52	91.25	7.82	17.08	1.90	0.56	0.30	0.50		
23	11.28	0.86	44.11	20.44	32.60	61.43	10.21	16.60	1.74	0.68	0.38	0.68		
24	3.60	0.68	10.57	57.95	47.03	41.19	7.82	15.18	1.58	0.86	5.38	10.21		
25	0.86	0.56	11.28	30.68	44.11	33.88	7.82	14.82	1.42	0.80	0.98	8.66		
26	0.38	0.46	23.32	25.24	110.25	49.95	10.92	14.11	1.26	0.92	0.22	7.26		
27	0.26	0.46	9.86	15.89	73.88	59.69	10.57	14.11	1.42	1.04	0.14	5.16		
28	0.22	0.38	5.38	9.50	60.56	37.08	7.82	14.11	1.26	1.10	0.08	0.92		
29	1.04	0.38	2.88	7.82	86.36	24.28	10.57	13.05	1.26	1.04		0.34		
30	24.28	0.42	2.88	16.60	92.31	35.80	27.48	12.34	1.58	0.98		0.42		
31		0.46		11.99	60.56		21.88		1.74	0.80		7.26		
Total	77.54	51.70	166.66	435.05	1209.31	1657.75	583.44	1003.03	134.52	54.76	52.32	126.23	5552.31	CMSDAY
Mean	2.58	1.67	5.56	14.03	39.01	55.26	18.82	33.43	4.34	1.77	1.87	4.07	15.21	CMS
Max	24.28	12.34	44.11	57.95	110.25	219.27	52.14	205.10	9.86	5.38	7.26	10.21	219.27	CMS
Min	0.22	0.26	0.46	2.70	7.26	11.28	6.48	12.34	1.26	0.56	0.08	0.09	0.08	CMS
Runoff	6.70	4.47	14.40	37.59	104.48	143.23	50.41	86.66	11.62	4.73	4.52	10.91	479.72	MCM

Momentary Peak 341.30 CMS. at 318.27 m. (MSL.) at 14.00 Hours , on Nov 11 , 2016

Runoff Yield 2.88 Liters/Second/Square KM. Momentary Peak Yield 64.530 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Klang **Amphoe** San Pa Tong **Changwat** Chiang Mai

Drainge Area	1,634 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+283.285 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 3 meters from the top staff gage. **Elevation** +287.570 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. The concrete weir made by R.I.D. about 3 kilometers and the temporary weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

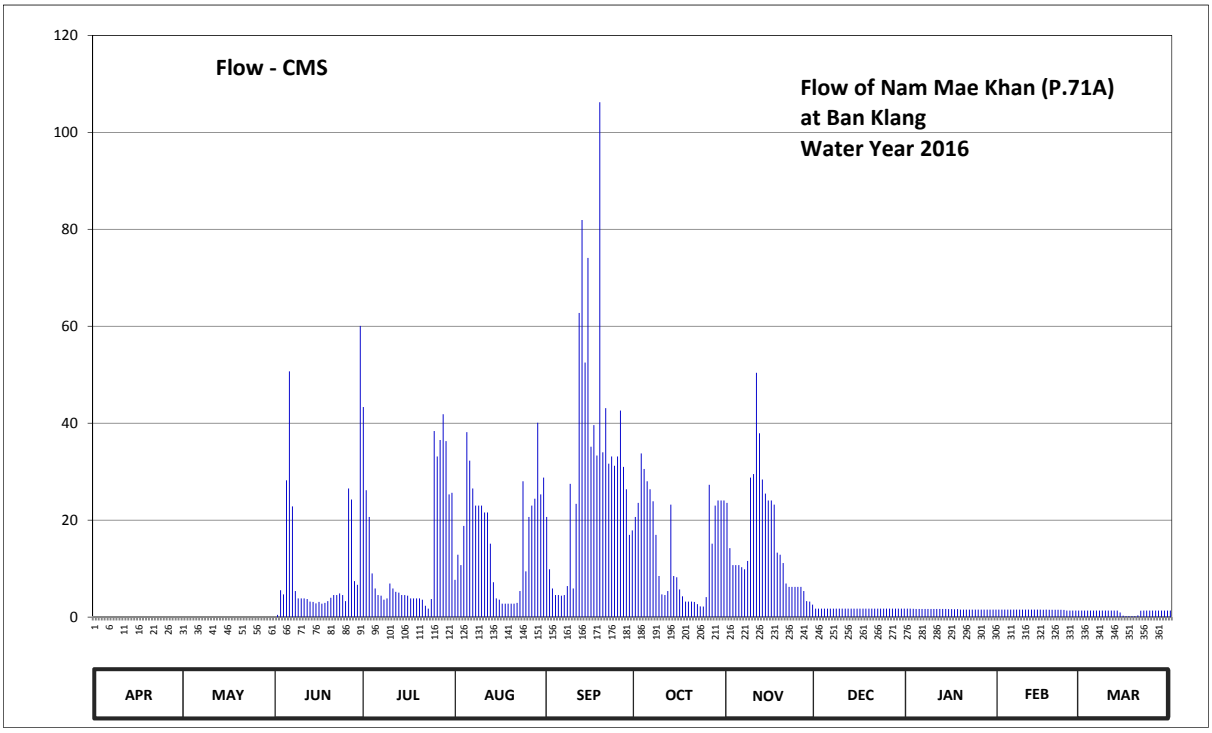
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.09	284.05	283.79	285.99	284.75	284.98	284.98	285.06	284.29	284.29	284.24	284.19	
2	284.09	283.88	283.92	285.21	284.89	284.82	285.06	284.91	284.29	284.29	284.24	284.19	
3	284.09	283.79	284.65	284.98	284.84	284.67	285.59	284.84	284.29	284.28	284.24	284.19	
4	284.09	283.78	284.60	284.80	284.96	284.59	285.44	284.84	284.29	284.27	284.24	284.19	
5	284.09	283.78	285.32	284.67	285.78	284.59	285.31	284.84	284.29	284.27	284.24	284.19	
6	284.09	283.78	286.25	284.59	285.52	284.58	285.22	284.83	284.29	284.27	284.24	284.19	
7	284.09	283.78	285.02	284.58	285.23	284.59	285.08	284.82	284.29	284.27	284.24	284.19	
8	284.09	283.78	284.64	284.52	285.03	284.70	284.94	284.86	284.29	284.27	284.24	284.19	
9	284.09	283.78	284.54	284.54	285.03	285.28	284.78	285.35	284.29	284.27	284.24	284.19	
10	284.09	283.78	284.54	284.72	285.03	284.67	284.60	285.39	284.29	284.27	284.24	284.19	
11	284.09	283.79	284.54	284.67	284.99	285.05	284.59	286.24	284.29	284.27	284.24	284.19	
12	284.09	283.78	284.53	284.63	284.99	286.63	284.64	285.77	284.29	284.27	284.24	284.19	
13	284.09	283.78	284.49	284.62	284.92	287.14	285.04	285.33	284.29	284.27	284.24	284.19	
14	284.09	283.78	284.48	284.59	284.73	286.31	284.78	285.17	284.29	284.27	284.24	284.09	
15	284.09	283.78	284.45	284.59	284.54	286.94	284.77	285.09	284.29	284.26	284.24	283.85	
16	284.09	283.78	284.48	284.58	284.52	285.65	284.66	285.09	284.29	284.26	284.23	283.79	
17	284.09	283.78	284.44	284.54	284.44	285.84	284.57	285.04	284.29	284.25	284.24	283.79	
18	284.09	283.78	284.46	284.54	284.44	285.57	284.49	284.90	284.29	284.26	284.23	283.79	
19	284.09	283.78	284.50	284.54	284.44	287.72	284.49	284.89	284.29	284.24	284.23	283.79	
20	284.09	283.78	284.55	284.54	284.44	285.60	284.49	284.85	284.29	284.24	284.23	283.88	
21	284.09	283.79	284.59	284.52	284.44	285.98	284.48	284.72	284.29	284.24	284.23	284.18	
22	284.09	283.79	284.59	284.39	284.46	285.49	284.43	284.69	284.29	284.24	284.23	284.19	
23	284.09	283.79	284.61	284.29	284.64	285.56	284.37	284.69	284.29	284.24	284.22	284.19	
24	284.09	283.79	284.59	284.53	285.31	285.47	284.36	284.69	284.29	284.24	284.19	284.19	
25	284.09	283.79	284.50	285.79	284.81	285.56	284.56	284.69	284.29	284.24	284.19	284.19	
26	284.09	283.79	285.23	285.56	284.98	285.96	285.27	284.69	284.29	284.24	284.19	284.19	
27	284.09	283.79	285.10	285.71	285.03	285.46	284.92	284.64	284.29	284.24	284.19	284.19	
28	284.09	283.79	284.74	285.93	285.11	285.22	285.03	284.50	284.29	284.24	284.19	284.19	
29	284.09	283.79	284.71	285.70	285.86	284.94	285.09	284.49	284.29	284.24		284.19	
30	284.09	283.79	286.55	285.16	285.16	284.95	285.09	284.42	284.29	284.24		284.19	
31		283.79		285.18	285.35		285.09		284.29	284.24		284.19	
Mean	284.09	283.80	284.71	284.88	284.92	285.48	284.85	284.94	284.29	284.26	284.23	284.11	
Max	284.09	284.05	286.55	285.99	285.86	287.72	285.59	286.24	284.29	284.29	284.24	284.19	287.72
Min	284.09	283.78	283.79	284.29	284.44	284.58	284.36	284.42	284.29	284.24	284.19	283.79	283.78

Annual Max Momentary Gage Height 288.21 m. (MSL.) , at 12.00 Hours , on Sep 19 , 2016

Zero Gage at Bottom Elevation 283.29 m. (MSL.) , River Bed 282.13 m. (MSL.)

Left Bank Elevation 290.13 m. (MSL.) ,

Right Bank Elevation 290.17 m. (MSL.) , Drainage Are 1,634 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	43.35	7.70	20.66	20.66	23.55	1.76	1.76	1.56	1.36	
2	0.00	0.00	0.46	26.18	12.87	9.86	23.55	14.22	1.76	1.76	1.56	1.36	
3	0.00	0.00	5.55	20.66	10.72	5.89	33.78	10.72	1.76	1.72	1.56	1.36	
4	0.00	0.00	4.70	9.00	18.82	4.56	30.56	10.72	1.76	1.68	1.56	1.36	
5	0.00	0.00	28.22	5.89	38.14	4.56	28.03	10.72	1.76	1.68	1.56	1.36	
6	0.00	0.00	50.70	4.56	32.28	4.42	26.37	10.29	1.76	1.68	1.56	1.36	
7	0.00	0.00	22.85	4.42	26.55	4.56	23.90	9.86	1.76	1.68	1.56	1.36	
8	0.00	0.00	5.38	3.58	23.02	6.40	16.98	11.58	1.76	1.68	1.56	1.36	
9	0.00	0.00	3.86	3.86	23.02	27.48	8.48	28.78	1.76	1.68	1.56	1.36	
10	0.00	0.00	3.86	6.92	23.02	5.89	4.70	29.52	1.76	1.68	1.56	1.36	
11	0.00	0.00	3.86	5.89	21.58	23.37	4.56	50.40	1.76	1.68	1.56	1.36	
12	0.00	0.00	3.72	5.21	21.58	62.75	5.38	37.91	1.76	1.68	1.56	1.36	
13	0.00	0.00	3.21	5.04	15.14	81.93	23.20	28.40	1.76	1.68	1.56	1.36	
14	0.00	0.00	3.12	4.56	7.18	52.50	8.48	25.47	1.76	1.68	1.56	0.97	
15	0.00	0.00	2.85	4.56	3.86	74.09	8.22	24.07	1.76	1.64	1.56	0.30	
16	0.00	0.00	3.12	4.42	3.58	35.15	5.72	24.07	1.76	1.64	1.52	0.18	
17	0.00	0.00	2.76	3.86	2.76	39.60	4.28	23.20	1.76	1.60	1.56	0.18	
18	0.00	0.00	2.94	3.86	2.76	33.35	3.21	13.30	1.76	1.64	1.52	0.18	
19	0.00	0.00	3.30	3.86	2.76	106.22	3.21	12.87	1.76	1.56	1.52	0.18	
20	0.00	0.00	4.00	3.86	2.76	34.00	3.21	11.15	1.76	1.56	1.52	0.36	
21	0.00	0.00	4.56	3.58	2.76	43.10	3.12	6.92	1.76	1.56	1.52	1.32	
22	0.00	0.00	4.56	2.34	2.94	31.64	2.67	6.23	1.76	1.56	1.52	1.36	
23	0.00	0.00	4.87	1.76	5.38	33.14	2.22	6.23	1.76	1.56	1.48	1.36	
24	0.00	0.00	4.56	3.72	28.03	31.21	2.16	6.23	1.76	1.56	1.36	1.36	
25	0.00	0.00	3.30	38.37	9.43	33.14	4.14	6.23	1.76	1.56	1.36	1.36	
26	0.00	0.00	26.55	33.14	20.66	42.60	27.29	6.23	1.76	1.56	1.36	1.36	
27	0.00	0.00	24.25	36.53	23.02	30.99	15.14	5.38	1.76	1.56	1.36	1.36	
28	0.00	0.00	7.44	41.85	24.42	26.37	23.02	3.30	1.76	1.56	1.36	1.36	
29	0.00	0.00	6.66	36.30	40.10	16.98	24.07	3.21	1.76	1.56		1.36	
30	0.00	0.00	60.07	25.30	25.30	17.90	24.07	2.58	1.76	1.56		1.36	
31		0.00		25.65	28.78		24.07		1.76	1.56		1.36	
Total	0.00	0.00	305.28	422.08	510.92	944.31	438.45	463.34	54.56	50.52	42.36	34.95	3266.77	CMSDAY
Mean	0.00	0.00	10.18	13.62	16.48	31.48	14.14	15.44	1.76	1.63	1.51	1.13	8.95	CMS
Max	0.00	0.00	60.07	43.35	40.10	106.22	33.78	50.40	1.76	1.76	1.56	1.36	106.22	CMS
Min	0.00	0.00	0.00	1.76	2.76	4.42	2.16	2.58	1.76	1.56	1.36	0.18	0.00	CMS
Runoff	0.00	0.00	26.38	36.47	44.14	81.59	37.88	40.03	4.71	4.36	3.66	3.02	282.25	MCM

Momentary Peak 128.16 CMS. at 288.21 m. (MSL.) at 12.00 Hours , on Sep 19 , 2016

Runoff Yield 5.48 Liters/Second/Square KM. Momentary Peak Yield 78.430 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Sop Soi , Chiang Mai (P.73)

Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

Location : on left bank at Sop Soi Phatana Bridge.

Ban Sop Soi **Amphoe** Chom Thong **Changwat** Chiang Mai

Drainge Area	14,814 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+261.750 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 15 meters from the abutment of the bridge. **Elevation** +267.505 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. No gage height in the drought period. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

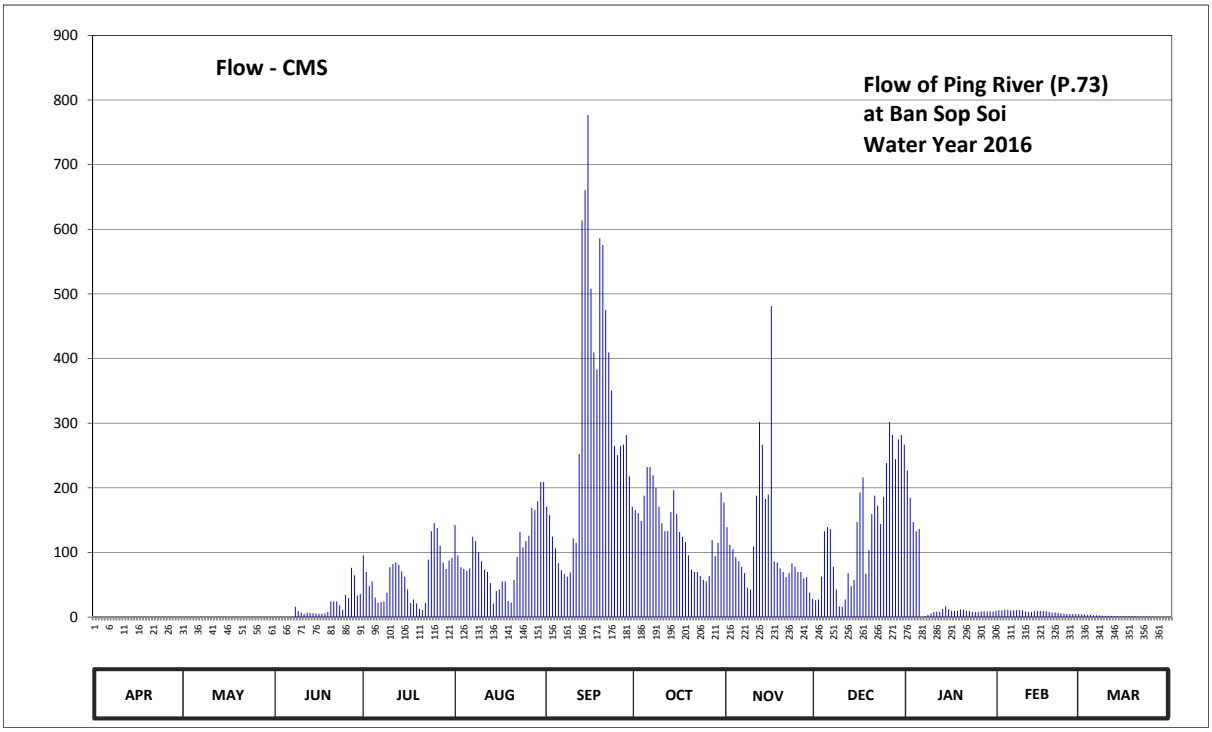
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.75	259.75	259.75	261.33	261.66	261.84	261.81	261.64	260.81	262.16	264.08	262.85	
2	259.75	259.75	259.75	261.11	261.33	261.76	261.78	261.45	260.82	261.92	264.07	262.77	
3	259.75	259.75	259.75	260.95	261.19	261.54	261.70	261.40	261.03	261.69	264.21	262.64	
4	259.75	259.75	259.75	260.98	261.16	261.41	261.94	261.31	261.60	261.60	264.19	262.57	
5	259.75	259.75	259.75	260.85	261.13	261.24	262.19	261.26	261.64	261.62	264.03	262.45	
6	259.75	259.75	259.75	260.76	261.17	261.14	262.19	261.20	261.62	261.79	264.07	262.42	
7	259.75	259.75	259.94	260.77	261.54	261.07	262.12	261.09	261.20	262.14	264.10	262.37	
8	259.75	259.75	260.66	260.79	261.49	261.03	262.01	260.94	260.93	262.60	264.12	262.31	
9	259.75	259.75	260.52	260.91	261.37	261.10	261.84	260.93	260.67	263.13	264.04	262.25	
10	259.75	259.75	260.45	261.19	261.26	261.52	261.68	261.43	260.66	263.51	263.72	262.22	
11	259.75	259.75	260.37	261.23	261.15	261.47	261.60	261.94	260.82	263.68	263.63	262.21	
12	259.75	259.75	260.45	261.25	261.11	262.29	261.60	262.52	261.09	263.63	263.52	262.20	
13	259.75	259.75	260.44	261.22	260.97	263.63	261.79	262.36	260.95	264.39	263.88	262.10	
14	259.75	259.75	260.43	261.12	260.74	263.76	261.99	261.91	260.99	264.97	263.95	262.07	
15	259.75	259.75	260.41	261.03	260.92	264.06	261.77	261.95	261.69	264.29	263.90	262.12	
16	259.75	259.75	260.39	260.93	260.93	263.31	261.59	263.22	261.97	263.96	263.84	262.09	
17	259.75	259.75	260.39	260.75	260.98	262.96	261.54	261.26	262.10	263.88	263.76	262.06	
18	259.75	259.75	260.41	260.82	260.98	262.86	261.48	261.25	261.08	263.99	263.59	262.03	
19	259.75	259.75	260.49	260.74	260.80	263.55	261.33	261.17	261.39	264.27	263.39	262.03	
20	259.75	259.75	260.79	260.60	260.76	263.52	261.15	261.11	261.77	264.21	263.41	262.00	
21	259.75	259.75	260.79	260.56	260.99	263.20	261.11	261.02	261.94	264.00	263.32	261.95	
22	259.75	259.75	260.79	260.75	261.31	262.96	261.11	261.09	261.85	263.81	263.19	261.95	
23	259.75	259.75	260.70	261.28	261.59	262.73	261.04	261.24	261.67	263.62	263.11	261.92	
24	259.75	259.75	260.57	261.60	261.42	262.35	260.99	261.20	261.93	263.57	263.01	261.89	
25	259.75	259.75	260.89	261.68	261.49	262.28	260.98	261.11	262.22	263.65	262.96	261.87	
26	259.75	259.75	260.84	261.63	261.55	262.35	261.04	261.11	262.52	263.78	262.94	261.78	
27	259.75	259.75	261.18	261.44	261.83	262.36	261.50	261.00	262.43	263.85	262.93	261.55	
28	259.75	259.75	261.05	261.25	261.81	262.43	261.32	261.02	262.25	263.73	262.87	261.48	
29	259.75	259.75	260.88	261.16	261.89	262.11	261.47	260.91	262.40	263.85		261.45	
30	259.75	259.75	260.90	261.27	262.06	261.84	261.97	260.83	262.43	263.79		261.44	
31		259.75		261.30	262.06		261.88		262.36	264.00		261.44	
Mean	259.75	259.75	260.44	261.07	261.31	262.32	261.60	261.40	261.58	263.39	263.64	262.08	
Max	259.75	259.75	261.18	261.68	262.06	264.06	262.19	263.22	262.52	264.97	264.21	262.85	264.97
Min	259.75	259.75	259.75	260.56	260.74	261.03	260.98	260.83	260.66	261.60	262.87	261.44	259.75

Annual Max Momentary Gage Height 265.09 m. (MSL.) , at 10.00 Hours , on Jan 14 , 2017

Zero Gage at Bottom Elevation 261.75 m. (MSL.) , River Bed 258.95 m. (MSL.)

Left Bank Elevation 267.73 m. (MSL.) ,

Right Bank Elevation 268.14 m. (MSL.) , Drainage Are 14,814 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	95.55	142.30	170.80	165.70	139.20	26.05	226.80	10.56	4.40		
2	0.00	0.00	0.00	69.90	95.55	157.80	160.90	112.00	27.10	184.40	10.49	4.08		
3	0.00	0.00	0.00	47.75	77.10	124.60	148.50	105.00	62.70	146.95	11.47	3.56		
4	0.00	0.00	0.00	55.10	74.40	106.40	187.80	92.85	133.00	133.00	11.33	3.28		
5	0.00	0.00	0.00	30.25	71.70	83.40	232.20	86.10	139.20	136.10	10.21	2.80		
6	0.00	0.00	0.00	22.32	75.30	72.60	232.20	78.00	136.10	0.28	10.49	2.68		
7	0.00	0.00	0.32	22.99	124.60	66.30	219.60	68.10	78.00	1.56	10.70	2.48		
8	0.00	0.00	15.98	24.33	117.60	62.70	199.80	45.30	42.85	3.40	10.84	2.24		
9	0.00	0.00	9.30	37.95	100.95	69.00	170.80	42.85	16.56	5.65	10.28	2.00		
10	0.00	0.00	6.90	77.10	86.10	121.80	145.40	109.20	15.98	7.55	8.60	1.88		
11	0.00	0.00	4.67	82.05	73.50	114.80	133.00	187.80	27.10	8.40	8.15	1.84		
12	0.00	0.00	6.90	84.75	69.90	252.45	133.00	302.00	68.10	8.15	7.60	1.80		
13	0.00	0.00	6.58	80.70	52.65	613.80	162.45	266.80	47.75	12.73	9.40	1.40		
14	0.00	0.00	6.26	70.80	20.98	660.60	196.30	182.70	57.55	16.79	9.75	1.28		
15	0.00	0.00	5.62	62.70	40.40	776.90	159.35	189.50	146.95	12.03	9.50	1.48		
16	0.00	0.00	5.09	42.85	42.85	508.00	131.60	481.00	192.90	9.80	9.20	1.36		
17	0.00	0.00	5.09	21.65	55.10	409.40	124.60	86.10	216.00	9.40	8.80	1.24		
18	0.00	0.00	5.62	27.10	55.10	382.90	116.20	84.75	67.20	9.95	7.95	1.12		
19	0.00	0.00	8.18	20.98	25.00	586.00	95.55	75.30	103.65	11.89	6.95	1.12		
20	0.00	0.00	24.33	12.50	22.32	575.80	73.50	69.90	159.35	11.47	7.05	1.00		
21	0.00	0.00	24.33	10.90	57.55	475.00	69.90	61.80	187.80	10.00	6.60	0.80		
22	0.00	0.00	24.33	21.65	92.85	409.40	69.90	68.10	172.50	9.05	5.95	0.80		
23	0.00	0.00	18.30	88.80	131.60	350.55	63.60	83.40	143.85	8.10	5.55	0.68		
24	0.00	0.00	11.30	133.00	107.80	264.75	57.55	78.00	186.10	7.85	5.05	0.57		
25	0.00	0.00	34.45	145.40	117.60	250.40	55.10	69.90	238.10	8.25	4.84	0.51		
26	0.00	0.00	29.20	137.65	126.00	264.75	63.60	69.90	302.00	8.90	4.76	0.26		
27	0.00	0.00	76.20	110.60	169.10	266.80	119.00	60.00	281.75	9.25	4.72	0.00		
28	0.00	0.00	64.50	84.75	165.70	281.75	94.20	61.80	244.25	8.65	4.48	0.00		
29	0.00	0.00	33.40	74.40	179.30	217.80	114.80	37.95	275.00	9.25		0.00		
30	0.00	0.00	35.50	87.45	208.80	170.80	192.90	28.15	281.75	8.95		0.00		
31		0.00		91.50	208.80		177.60		266.80	10.00		0.00		
Total	0.00	0.00	462.35	1975.42	2988.50	8868.05	4266.60	3423.45	4343.99	1054.55	231.27	46.66	27660.84	CMSDAY
Mean	0.00	0.00	15.41	63.72	96.40	295.60	137.63	114.12	140.13	34.02	8.26	1.51	75.78	CMS
Max	0.00	0.00	76.20	145.40	208.80	776.90	232.20	481.00	302.00	226.80	11.47	4.40	776.90	CMS
Min	0.00	0.00	0.00	10.90	20.98	62.70	55.10	28.15	15.98	0.28	4.48	0.00	0.00	CMS
Runoff	0.00	0.00	39.95	170.68	258.21	766.20	368.63	295.79	375.32	91.11	19.98	4.03	2389.90	MCM

Momentary Peak 17.72 CMS. at 265.09 m. (MSL.) at 10.00 Hours , on Jan 14 , 2017

Runoff Yield 5.12 Liters/Second/Square KM. Momentary Peak Yield 1.200 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Cho Lae , Chiang Mai (P.75)

Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

Location : on left bank at the bridge on road.

	Ban Cho Lae	**Amphoe** Mae Teang	**Changwat** Chiang Mai
Drainge Area	3,088 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+337.600 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 3 meters from the top staff gage.		**Elevation** +341.805 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

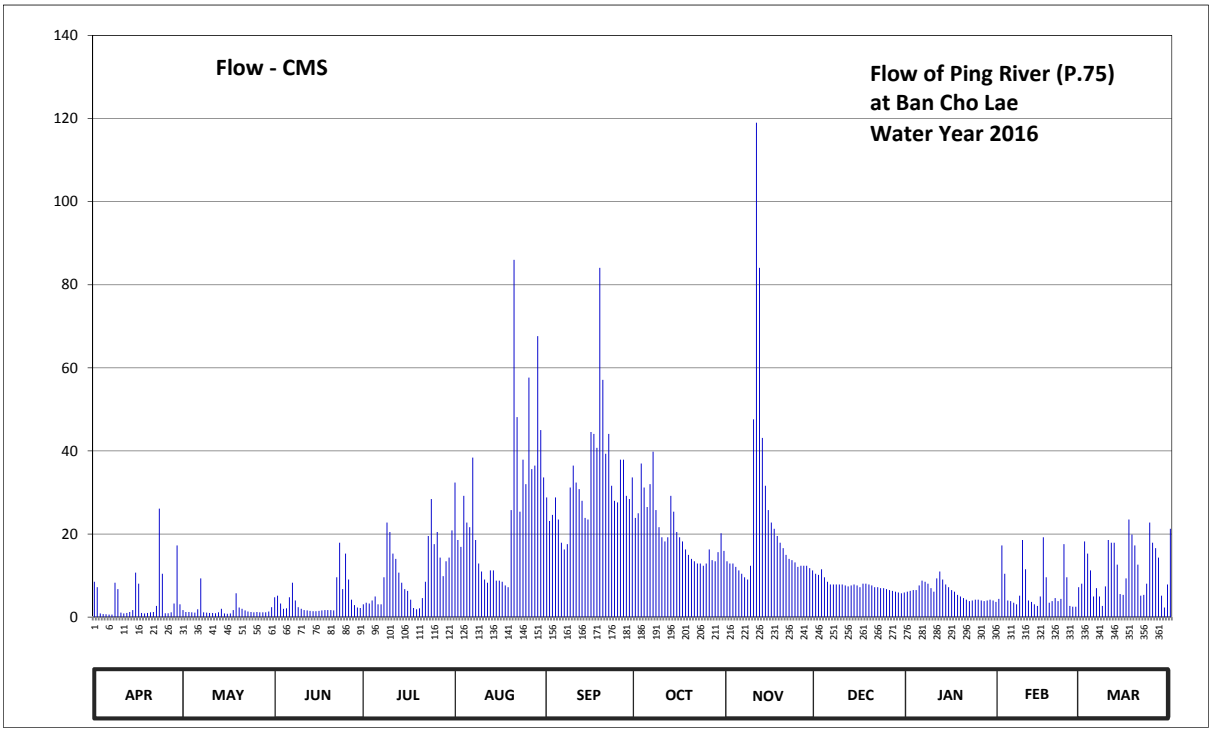
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	338.00	337.62	337.82	337.73	338.71	338.62	338.49	338.18	338.07	337.89	337.80	337.98	
2	337.94	337.56	337.84	337.75	338.34	338.47	338.52	338.16	338.06	337.90	338.30	338.33	
3	337.51	337.56	337.74	337.74	338.29	338.51	338.82	338.16	338.11	337.91	338.07	338.24	
4	337.49	337.55	337.65	337.78	338.63	338.62	338.68	338.13	338.04	337.91	337.78	338.10	
5	337.48	337.54	337.66	337.83	338.46	338.48	338.56	338.10	338.00	337.96	337.77	337.83	
6	337.47	337.64	337.82	337.73	338.43	338.32	338.70	338.07	337.97	338.01	337.75	337.93	
7	337.47	338.03	337.99	337.73	338.85	338.27	338.88	338.04	337.97	338.00	337.73	337.83	
8	337.99	337.55	337.78	338.04	338.34	338.31	338.54	338.02	337.97	337.98	337.84	337.71	
9	337.92	337.54	337.69	338.46	338.16	338.68	338.43	338.14	337.97	337.93	338.34	337.95	
10	337.54	337.53	337.65	338.40	338.09	338.81	338.36	339.04	337.97	337.89	338.11	338.34	
11	337.51	337.53	337.62	338.24	338.02	338.71	338.33	340.16	337.96	338.03	337.78	338.32	
12	337.53	337.52	337.61	338.20	337.99	338.67	338.36	339.67	337.95	338.09	337.76	338.32	
13	337.56	337.55	337.60	338.08	338.10	338.60	338.63	338.95	337.96	338.02	337.73	338.15	
14	337.62	337.65	337.59	337.99	338.10	338.49	338.53	338.69	337.97	337.97	337.71	337.86	
15	338.08	337.51	337.59	337.92	338.01	338.48	338.40	338.54	337.96	337.94	337.83	337.85	
16	337.98	337.50	337.60	337.90	338.01	338.98	338.36	338.46	337.94	337.91	338.36	338.03	
17	337.53	337.51	337.61	337.79	338.00	338.97	338.33	338.42	337.98	337.89	338.04	338.48	
18	337.51	337.62	337.62	337.67	337.96	338.90	338.27	338.37	337.98	337.85	337.75	338.38	
19	337.53	337.87	337.62	337.64	337.94	339.67	338.23	338.32	337.97	337.83	337.77	338.30	
20	337.55	337.68	337.62	337.66	338.54	339.22	338.20	338.28	337.96	337.81	337.81	338.15	
21	337.56	337.65	337.61	337.81	339.70	338.87	338.18	338.23	337.94	337.79	337.77	337.84	
22	337.71	337.61	338.04	338.00	339.05	338.97	338.16	338.20	337.94	337.77	337.80	337.85	
23	338.55	337.58	338.32	338.37	338.53	338.69	338.16	338.19	337.93	337.78	338.31	337.98	
24	338.07	337.56	337.92	338.61	338.84	338.60	338.14	338.17	337.93	337.79	338.04	338.46	
25	337.52	337.55	338.24	338.31	338.70	338.59	338.16	338.13	337.92	337.79	337.71	338.32	
26	337.52	337.56	338.02	338.40	339.23	338.84	338.27	338.14	337.91	337.78	337.70	338.28	
27	337.55	337.55	337.79	338.21	338.79	338.84	338.19	338.14	337.90	337.77	337.70	338.21	
28	337.74	337.55	337.72	338.05	338.81	338.63	338.18	338.14	337.89	337.78	337.94	337.84	
29	338.30	337.55	337.68	338.18	339.41	338.61	338.25	338.12	337.88	337.79		337.68	
30	337.73	337.58	337.67	338.21	338.99	338.74	338.39	338.10	337.87	337.78		337.97	
31		337.69		338.41	338.74		338.26		337.88	337.76		338.42	
Mean	337.72	337.60	337.76	338.03	338.51	338.71	338.39	338.38	337.96	337.88	337.89	338.09	
Max	338.55	338.03	338.32	338.61	339.70	339.67	338.88	340.16	338.11	338.09	338.36	338.48	340.16
Min	337.47	337.50	337.59	337.64	337.94	338.27	338.14	338.02	337.87	337.76	337.70	337.68	337.47

Annual Max Momentary Gage Height 340.42 m. (MSL.) , at 14.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 337.60 m. (MSL.) , River Bed 336.91 m. (MSL.)

Left Bank Elevation 345.12 m. (MSL.) ,

Right Bank Elevation 345.16 m. (MSL.) , Drainage Are 3,088 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.50	1.70	4.78	3.07	32.40	28.80	23.88	13.45	10.42	6.11	4.40	8.06	
2	7.18	1.22	5.16	3.45	18.55	23.13	25.00	12.90	10.15	6.30	17.25	18.22	
3	0.87	1.22	3.26	3.26	16.92	24.62	36.95	12.90	11.52	6.52	10.42	15.30	
4	0.74	1.15	2.00	4.02	29.20	28.80	31.20	12.07	9.60	6.52	4.02	11.25	
5	0.68	1.08	2.10	4.97	22.75	23.50	26.50	11.25	8.50	7.62	3.83	4.97	
6	0.62	1.90	4.78	3.07	21.63	17.90	32.00	10.42	7.84	8.77	3.45	6.96	
7	0.62	9.32	8.28	3.07	38.38	16.27	39.80	9.60	7.84	8.50	3.07	4.97	
8	8.28	1.15	4.02	9.60	18.55	17.57	25.75	9.05	7.84	8.06	5.16	2.69	
9	6.74	1.08	2.40	22.75	12.90	31.20	21.63	12.35	7.84	6.96	18.55	7.40	
10	1.08	1.01	2.00	20.50	10.97	36.48	19.20	47.60	7.84	6.11	11.52	18.55	
11	0.87	1.01	1.70	15.30	9.05	32.40	18.22	119.00	7.62	9.32	4.02	17.90	
12	1.01	0.94	1.60	14.00	8.28	30.80	19.20	84.05	7.40	10.97	3.64	17.90	
13	1.22	1.15	1.50	10.70	11.25	28.00	29.20	43.13	7.62	9.05	3.07	12.62	
14	1.70	2.00	1.43	8.28	11.25	23.88	25.37	31.60	7.84	7.84	2.69	5.54	
15	10.70	0.87	1.43	6.74	8.77	23.50	20.50	25.75	7.62	7.18	4.97	5.35	
16	8.06	0.80	1.50	6.30	8.77	44.55	19.20	22.75	7.18	6.52	19.20	9.32	
17	1.01	0.87	1.60	4.21	8.50	44.08	18.22	21.25	8.06	6.11	9.60	23.50	
18	0.87	1.70	1.70	2.20	7.62	40.75	16.27	19.53	8.06	5.35	3.45	19.85	
19	1.01	5.73	1.70	1.90	7.18	84.05	14.97	17.90	7.84	4.97	3.83	17.25	
20	1.15	2.30	1.70	2.10	25.75	57.10	14.00	16.60	7.62	4.59	4.59	12.62	
21	1.22	2.00	1.60	4.59	86.00	39.33	13.45	14.97	7.18	4.21	3.83	5.16	
22	2.69	1.60	9.60	8.50	48.12	44.08	12.90	14.00	7.18	3.83	4.40	5.35	
23	26.12	1.36	17.90	19.53	25.37	31.60	12.90	13.72	6.96	4.02	17.57	8.06	
24	10.42	1.22	6.74	28.40	37.90	28.00	12.35	13.17	6.96	4.21	9.60	22.75	
25	0.94	1.15	15.30	17.57	32.00	27.62	12.90	12.07	6.74	4.21	2.69	17.90	
26	0.94	1.22	9.05	20.50	57.65	37.90	16.27	12.35	6.52	4.02	2.50	16.60	
27	1.15	1.15	4.21	14.32	35.60	37.90	13.72	12.35	6.30	3.83	2.50	14.32	
28	3.26	1.15	2.88	9.87	36.48	29.20	13.45	12.35	6.11	4.02	7.18	5.16	
29	17.25	1.15	2.30	13.45	67.63	28.40	15.62	11.80	5.92	4.21		2.30	
30	3.07	1.36	2.20	14.32	45.03	33.60	20.18	11.25	5.73	4.02		7.84	
31		2.40		20.88	33.60		15.95		5.92	3.64		21.25	
Total	129.97	53.96	126.42	321.42	834.05	995.01	636.75	681.18	237.77	187.59	191.00	366.91	4762.03 CMSDAY
Mean	4.33	1.74	4.21	10.37	26.90	33.17	20.54	22.71	7.67	6.05	6.82	11.84	13.05 CMS
Max	26.12	9.32	17.90	28.40	86.00	84.05	39.80	119.00	11.52	10.97	19.20	23.50	119.00 CMS
Min	0.62	0.80	1.43	1.90	7.18	16.27	12.35	9.05	5.73	3.64	2.50	2.30	0.62 CMS
Runoff	11.23	4.66	10.92	27.77	72.06	85.97	55.02	58.85	20.54	16.21	16.50	31.70	411.44 MCM

Momentary Peak 139.10 CMS. at 340.42 m. (MSL.) at 14.00 Hours , on Nov 11 , 2016

Runoff Yield 4.22 Liters/Second/Square KM. Momentary Peak Yield 45.020 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	**Amphoe** Li	**Changwat** Lamphun
Drainge Area	1,544 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+363.617 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 15 meters from the top staff gage.	**Elevation**	+370.937 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

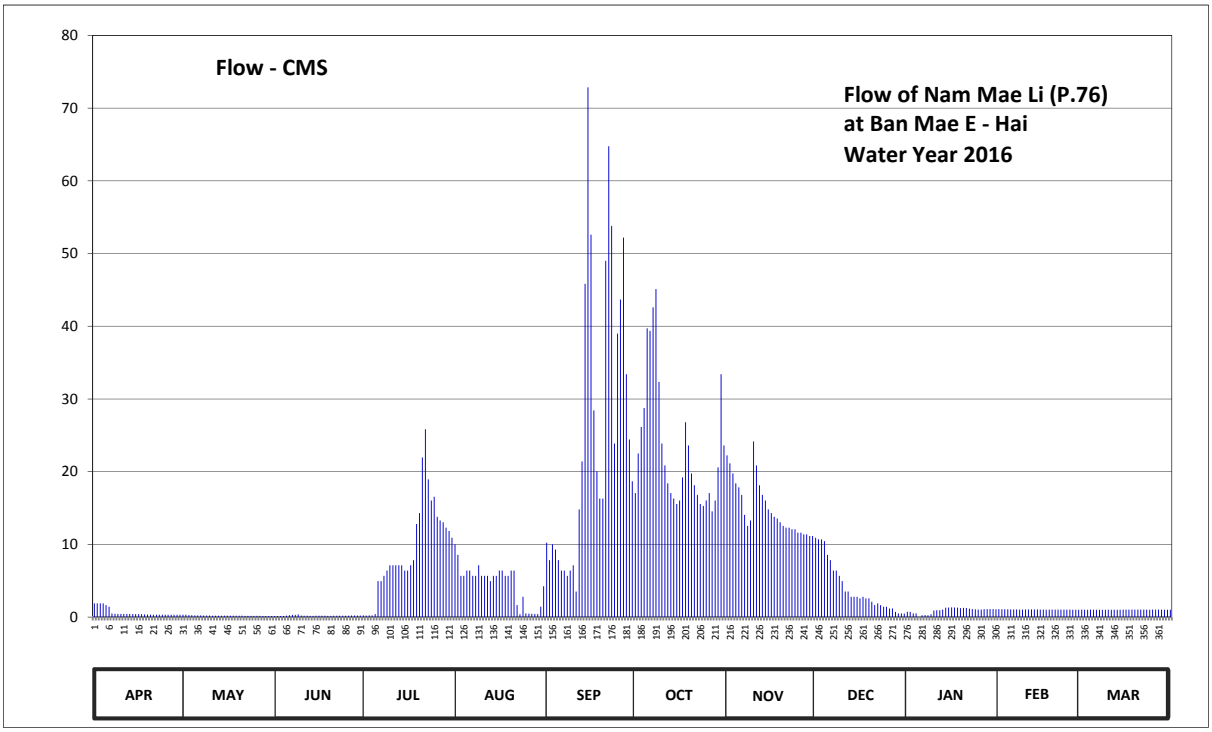
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.06	363.83	363.66	363.73	364.20	364.21	364.49	364.68	364.24	364.01	365.10	365.07	
2	364.06	363.82	363.66	363.72	364.18	364.17	364.69	364.64	364.23	364.01	365.09	365.06	
3	364.06	363.79	363.66	363.74	364.14	364.20	364.82	364.59	364.23	364.00	365.09	365.06	
4	364.06	363.76	363.66	363.75	364.14	364.19	364.90	364.54	364.22	364.00	365.09	365.07	
5	364.05	363.74	363.69	363.92	364.15	364.17	365.22	364.52	364.18	364.22	365.08	365.06	
6	364.04	363.74	363.76	364.13	364.15	364.15	365.21	364.48	364.17	364.66	365.08	365.06	
7	364.00	363.73	363.80	364.13	364.14	364.15	365.30	364.37	364.15	364.68	365.08	365.06	
8	363.96	363.71	363.80	364.14	364.14	364.14	365.37	364.31	364.15	364.67	365.07	365.06	
9	363.94	363.71	363.87	364.15	364.16	364.15	365.01	364.34	364.14	364.75	365.07	365.06	
10	363.93	363.71	363.72	364.16	364.14	364.16	364.74	364.75	364.13	365.00	365.08	365.05	
11	363.93	363.70	363.70	364.16	364.14	364.11	364.63	364.63	364.11	365.02	365.08	365.06	
12	363.93	363.70	363.70	364.16	364.14	364.40	364.54	364.53	364.11	365.02	365.08	365.06	
13	363.93	363.70	363.68	364.16	364.13	364.65	364.49	364.48	364.10	365.07	365.08	365.06	
14	363.92	363.70	363.68	364.16	364.14	365.39	364.46	364.45	364.10	365.20	365.08	365.06	
15	363.91	363.69	363.69	364.15	364.14	366.03	364.43	364.40	364.10	365.21	365.07	365.07	
16	363.91	363.70	363.69	364.15	364.15	365.56	364.45	364.38	364.09	365.22	365.07	365.07	
17	363.90	363.69	363.70	364.16	364.15	364.89	364.57	364.36	364.10	365.21	365.06	365.07	
18	363.87	363.69	363.69	364.17	364.14	364.60	364.84	364.35	364.09	365.20	365.07	365.07	
19	363.86	363.69	363.68	364.32	364.14	364.46	364.73	364.33	364.09	365.17	365.07	365.07	
20	363.83	363.69	363.68	364.38	364.15	364.46	364.59	364.31	364.07	365.19	365.07	365.07	
21	363.83	363.69	363.69	364.67	364.15	365.47	364.53	364.30	364.05	365.18	365.07	365.07	
22	363.83	363.68	363.69	364.81	364.05	365.85	364.48	364.30	364.06	365.13	365.07	365.07	
23	363.83	363.68	363.69	364.56	363.90	365.59	364.43	364.29	364.05	365.10	365.07	365.07	
24	363.83	363.67	363.69	364.45	364.10	364.74	364.42	364.29	364.04	365.09	365.07	365.06	
25	363.83	363.67	363.70	364.47	364.00	365.20	364.45	364.27	364.04	365.07	365.07	365.07	
26	363.83	363.67	363.70	364.36	363.98	365.33	364.49	364.27	364.03	365.07	365.06	365.07	
27	363.82	363.67	363.71	364.34	363.95	365.55	364.39	364.26	364.03	365.10	365.05	365.07	
28	363.82	363.66	363.72	364.33	363.93	365.04	364.45	364.26	364.01	365.10	365.06	365.07	
29	363.82	363.66	363.72	364.30	363.92	364.76	364.62	364.25	364.00	365.10		365.05	
30	363.83	363.66	363.72	364.28	364.04	364.55	365.04	364.25	364.00	365.10		365.05	
31		363.66		364.24	364.12		364.73		363.99	365.09		365.06	
Mean	363.91	363.71	363.71	364.20	364.10	364.74	364.69	364.41	364.10	364.89	365.07	365.06	
Max	364.06	363.83	363.87	364.81	364.20	366.03	365.37	364.75	364.24	365.22	365.10	365.07	366.03
Min	363.82	363.66	363.66	363.72	363.90	364.11	364.39	364.25	363.99	364.00	365.05	365.05	363.66

Annual Max Momentary Gage Height 366.42 m. (MSL.) , at 12.00 Hours , on Sep 21 , 2016

Zero Gage at Bottom Elevation 363.62 m. (MSL.) , River Bed 363.28 m. (MSL.)

Left Bank Elevation 371.47 m. (MSL.) ,

Right Bank Elevation 371.53 m. (MSL.) , Drainage Are 1,544 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.88	0.33	0.16	0.23	10.00	10.23	17.05	22.25	10.92	0.73	1.10	1.04	
2	1.88	0.32	0.16	0.22	8.56	7.84	22.52	21.15	10.69	0.73	1.08	1.02	
3	1.88	0.29	0.16	0.24	5.68	10.00	26.15	19.77	10.69	0.50	1.08	1.02	
4	1.88	0.26	0.16	0.25	5.68	9.28	28.75	18.40	10.46	0.50	1.08	1.04	
5	1.65	0.24	0.19	0.42	6.40	7.84	39.72	17.85	8.56	0.00	1.06	1.02	
6	1.42	0.24	0.26	4.96	6.40	6.40	39.36	16.80	7.84	0.26	1.06	1.02	
7	0.50	0.23	0.30	4.96	5.68	6.40	42.60	14.05	6.40	0.28	1.06	1.02	
8	0.46	0.21	0.30	5.68	5.68	5.68	45.12	12.55	6.40	0.27	1.04	1.02	
9	0.44	0.21	0.37	6.40	7.12	6.40	32.35	13.30	5.68	0.40	1.04	1.02	
10	0.43	0.21	0.22	7.12	5.68	7.12	23.88	24.15	4.96	0.90	1.06	1.00	
11	0.43	0.20	0.20	7.12	5.68	3.52	20.87	20.87	3.52	0.94	1.06	1.02	
12	0.43	0.20	0.20	7.12	5.68	14.80	18.40	18.12	3.52	0.94	1.06	1.02	
13	0.43	0.20	0.18	7.12	4.96	21.42	17.05	16.80	2.80	1.04	1.06	1.02	
14	0.42	0.20	0.18	7.12	5.68	45.84	16.30	16.05	2.80	1.30	1.06	1.02	
15	0.41	0.19	0.19	6.40	5.68	72.85	15.55	14.80	2.80	1.32	1.04	1.04	
16	0.41	0.20	0.19	6.40	6.40	52.60	16.05	14.30	2.57	1.34	1.04	1.04	
17	0.40	0.19	0.20	7.12	6.40	28.43	19.22	13.80	2.80	1.32	1.02	1.04	
18	0.37	0.19	0.19	7.84	5.68	20.05	26.80	13.55	2.57	1.30	1.04	1.04	
19	0.36	0.19	0.18	12.80	5.68	16.30	23.61	13.05	2.57	1.24	1.04	1.04	
20	0.33	0.19	0.18	14.30	6.40	16.30	19.77	12.55	2.11	1.28	1.04	1.04	
21	0.33	0.19	0.19	21.97	6.40	49.00	18.12	12.30	1.65	1.26	1.04	1.04	
22	0.33	0.18	0.19	25.83	1.65	64.75	16.80	12.30	1.88	1.16	1.04	1.04	
23	0.33	0.18	0.19	18.95	0.40	53.80	15.55	12.07	1.65	1.10	1.04	1.04	
24	0.33	0.17	0.19	16.05	2.80	23.88	15.30	12.07	1.42	1.08	1.04	1.02	
25	0.33	0.17	0.20	16.55	0.50	39.00	16.05	11.61	1.42	1.04	1.04	1.04	
26	0.33	0.17	0.20	13.80	0.48	43.68	17.05	11.61	1.19	1.04	1.02	1.04	
27	0.32	0.17	0.21	13.30	0.45	52.20	14.55	11.38	1.19	1.10	1.00	1.04	
28	0.32	0.16	0.22	13.05	0.43	33.40	16.05	11.38	0.73	1.10	1.02	1.04	
29	0.32	0.16	0.22	12.30	0.42	24.42	20.60	11.15	0.50	1.10		1.00	
30	0.33	0.16	0.22	11.84	1.42	18.67	33.40	11.15	0.50	1.10		1.00	
31		0.16		10.92	4.24		23.61		0.49	1.08		1.02	
Total	19.68	6.36	6.20	288.38	144.31	772.10	718.20	451.18	123.28	28.75	29.36	31.86	2619.66	CMSDAY
Mean	0.66	0.21	0.21	9.30	4.66	25.74	23.17	15.04	3.98	0.93	1.05	1.03	7.18	CMS
Max	1.88	0.33	0.37	25.83	10.00	72.85	45.12	24.15	10.92	1.34	1.10	1.04	72.85	CMS
Min	0.32	0.16	0.16	0.22	0.40	3.52	14.55	11.15	0.49	0.00	1.00	1.00	0.00	CMS
Runoff	1.70	0.55	0.54	24.92	12.47	66.71	62.05	38.98	10.65	2.48	2.54	2.75	226.34	MCM

Momentary Peak 90.96 CMS. at 366.42 m. (MSL.) at 12.00 Hours , on Sep 21 , 2016

Runoff Yield 4.66 Liters/Second/Square KM. Momentary Peak Yield 59.030 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

	Ban Sop Mae Sapuad	**Amphoe** Mae Tha	**Changwat** Lamphun
Drainge Area	550 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+364.378 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20 meters from the top staff gage.	**Elevation**	+369.286 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

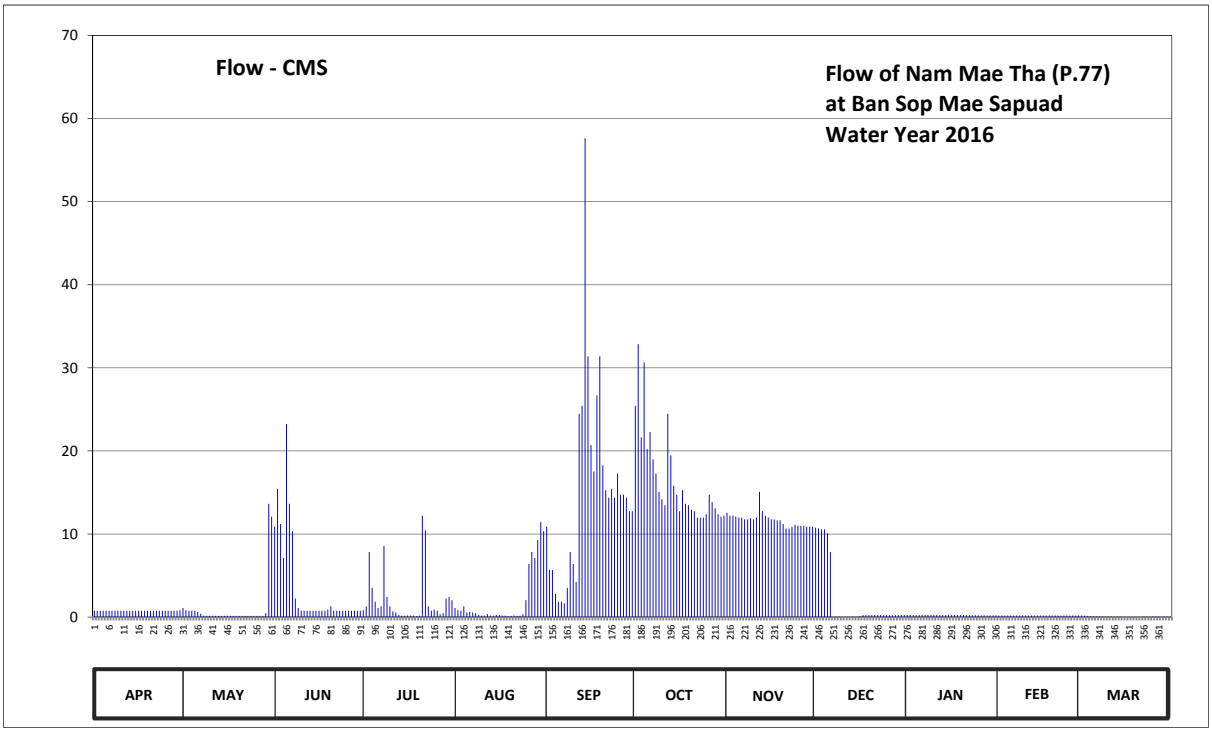
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.78	365.81	366.08	365.79	365.81	366.08	366.75	366.22	366.07	366.55	366.50	366.48	
2	365.78	365.79	366.38	365.82	365.79	365.94	366.96	366.20	366.06	366.55	366.50	366.44	
3	365.78	365.78	366.11	365.97	365.78	365.94	366.63	366.20	366.05	366.55	366.50	366.32	
4	365.78	365.78	365.96	365.91	365.82	365.90	366.90	366.19	366.05	366.55	366.50	366.33	
5	365.78	365.78	366.68	365.85	365.75	365.85	366.58	366.18	366.01	366.54	366.50	366.29	
6	365.78	365.76	366.28	365.81	365.76	365.85	366.65	366.18	365.97	366.54	366.50	366.27	
7	365.78	365.73	366.03	365.82	365.75	365.84	366.53	366.16	365.97	366.55	366.50	366.25	
8	365.78	365.69	365.87	365.98	365.74	365.91	366.46	366.16	366.03	366.57	366.50	366.22	
9	365.78	365.68	365.81	365.88	365.71	365.97	366.36	366.17	366.03	366.56	366.49	366.18	
10	365.78	365.68	365.78	365.82	365.70	365.95	366.31	366.16	366.02	366.56	366.49	366.15	
11	365.78	365.68	365.78	365.77	365.70	365.92	366.27	366.18	366.02	366.56	366.49	366.13	
12	365.78	365.68	365.78	365.75	365.72	366.72	366.72	366.36	366.02	366.55	366.49	366.11	
13	365.78	365.68	365.78	365.71	365.70	366.75	366.55	366.23	366.02	366.54	366.49	366.08	
14	365.78	365.68	365.78	365.69	365.69	367.45	366.40	366.20	366.02	366.56	366.49	366.05	
15	365.78	365.68	365.78	365.69	365.71	366.92	366.34	366.18	366.05	366.58	366.49	366.02	
16	365.78	365.68	365.78	365.70	365.71	366.60	366.23	366.16	366.33	366.57	366.49	365.98	
17	365.78	365.68	365.78	365.70	365.70	366.47	366.37	366.16	366.55	366.57	366.50	365.95	
18	365.78	365.68	365.78	365.69	365.69	366.79	366.28	366.15	366.56	366.56	366.50	365.94	
19	365.78	365.68	365.80	365.66	365.67	366.92	366.27	366.15	366.54	366.55	366.50	365.93	
20	365.78	365.68	365.82	365.69	365.68	366.50	366.24	366.11	366.54	366.55	366.50	365.88	
21	365.78	365.68	365.78	366.20	365.70	366.37	366.23	366.06	366.55	366.55	366.50	365.90	
22	365.78	365.68	365.78	366.04	365.68	366.32	366.18	366.06	366.54	366.53	366.50	366.08	
23	365.78	365.68	365.78	365.82	365.69	366.38	366.18	366.08	366.55	366.53	366.50	366.10	
24	365.78	365.68	365.78	365.78	365.72	366.32	366.18	366.10	366.53	366.53	366.49	366.12	
25	365.78	365.68	365.78	365.80	365.86	366.46	366.21	366.09	366.53	366.52	366.48	366.13	
26	365.78	365.68	365.78	365.78	365.95	366.34	366.34	366.09	366.53	366.52	366.48	366.15	
27	365.78	365.68	365.78	365.72	365.97	366.34	366.29	366.09	366.53	366.52	366.48	366.15	
28	365.78	365.68	365.78	365.74	365.96	366.32	366.25	366.08	366.53	366.51	366.48	366.10	
29	365.78	365.74	365.78	365.87	365.99	366.23	366.21	366.08	366.54	366.51		366.18	
30	365.79	366.28	365.78	365.88	366.13	366.23	366.19	366.08	366.55	366.51		366.18	
31		366.19		365.86	366.03		366.20		366.55	366.51		366.16	
Mean	365.78	365.74	365.89	365.81	365.78	366.32	366.40	366.15	366.29	366.54	366.49	366.14	
Max	365.79	366.28	366.68	366.20	366.13	367.45	366.96	366.36	366.56	366.58	366.50	366.48	367.45
Min	365.78	365.68	365.78	365.66	365.67	365.84	366.18	366.06	365.97	366.51	366.48	365.88	365.66

Annual Max Momentary Gage Height 369.01 m. (MSL.) , at 02.00 Hours , on Oct 2 , 2016

Zero Gage at Bottom Elevation 364.38 m. (MSL.) , River Bed 365.20 m. (MSL.)

Left Bank Elevation 370.12 m. (MSL.) ,

Right Bank Elevation 374.26 m. (MSL.) , Drainage Are 550 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	1.09	10.88	0.83	1.09	10.88	25.43	12.56	10.77	0.25	0.20	0.19		
2	0.76	0.83	15.44	1.28	0.83	5.68	32.84	12.20	10.66	0.25	0.20	0.17		
3	0.76	0.76	11.21	7.84	0.76	5.68	21.64	12.20	10.55	0.25	0.20	0.11		
4	0.76	0.76	7.12	3.52	1.28	2.80	30.65	12.09	10.55	0.25	0.20	0.12		
5	0.76	0.76	23.22	1.85	0.55	1.85	20.21	11.98	10.11	0.24	0.20	0.10		
6	0.76	0.62	13.64	1.09	0.62	1.85	22.27	11.98	7.84	0.24	0.20	0.09		
7	0.76	0.41	10.33	1.28	0.55	1.66	18.98	11.76	0.02	0.25	0.20	0.08		
8	0.76	0.18	2.23	8.56	0.48	3.52	17.27	11.76	0.03	0.27	0.20	0.07		
9	0.76	0.16	1.09	2.42	0.27	7.84	15.08	11.87	0.03	0.26	0.20	0.06		
10	0.76	0.16	0.76	1.28	0.20	6.40	14.18	11.76	0.02	0.26	0.20	0.05		
11	0.76	0.16	0.76	0.69	0.20	4.24	13.46	11.98	0.02	0.26	0.20	0.05		
12	0.76	0.16	0.76	0.55	0.34	24.48	24.48	15.08	0.02	0.25	0.20	0.04		
13	0.76	0.16	0.76	0.27	0.20	25.43	19.47	12.74	0.02	0.24	0.20	0.04		
14	0.76	0.16	0.76	0.18	0.18	57.63	15.80	12.20	0.02	0.26	0.20	0.03		
15	0.76	0.16	0.76	0.18	0.27	31.38	14.72	11.98	0.03	0.28	0.20	0.02		
16	0.76	0.16	0.76	0.20	0.27	20.70	12.74	11.76	0.12	0.27	0.20	0.02		
17	0.76	0.16	0.76	0.20	0.20	17.52	15.26	11.76	0.25	0.27	0.20	0.02		
18	0.76	0.16	0.76	0.18	0.18	26.69	13.64	11.65	0.26	0.26	0.20	0.01		
19	0.76	0.16	0.90	0.12	0.14	31.38	13.46	11.65	0.24	0.25	0.20	0.01		
20	0.76	0.16	1.28	0.18	0.16	18.25	12.92	11.21	0.24	0.25	0.20	0.01		
21	0.76	0.16	0.76	12.20	0.20	15.26	12.74	10.66	0.25	0.25	0.20	0.01		
22	0.76	0.16	0.76	10.44	0.16	14.36	11.98	10.66	0.24	0.23	0.20	0.04		
23	0.76	0.16	0.76	1.28	0.18	15.44	11.98	10.88	0.25	0.23	0.20	0.04		
24	0.76	0.16	0.76	0.76	0.34	14.36	11.98	11.10	0.23	0.23	0.20	0.04		
25	0.76	0.16	0.76	0.90	2.04	17.27	12.38	10.99	0.23	0.22	0.19	0.05		
26	0.76	0.16	0.76	0.76	6.40	14.72	14.72	10.99	0.23	0.22	0.19	0.05		
27	0.76	0.16	0.76	0.34	7.84	14.72	13.82	10.99	0.23	0.22	0.19	0.05		
28	0.76	0.16	0.76	0.48	7.12	14.36	13.10	10.88	0.23	0.21	0.19	0.04		
29	0.76	0.48	0.76	2.23	9.28	12.74	12.38	10.88	0.24	0.21		0.06		
30	0.83	13.64	0.76	2.42	11.43	12.74	12.09	10.88	0.25	0.21		0.06		
31		12.09		2.04	10.33		12.20		0.25	0.21		0.05		
Total	22.87	34.82	111.78	66.55	64.09	451.83	513.87	351.08	64.43	7.55	5.56	1.78	1696.21	CMSDAY
Mean	0.76	1.12	3.73	2.15	2.07	15.06	16.58	11.70	2.08	0.24	0.20	0.06	4.65	CMS
Max	0.83	13.64	23.22	12.20	11.43	57.63	32.84	15.08	10.77	0.28	0.20	0.19	57.63	CMS
Min	0.76	0.16	0.76	0.12	0.14	1.66	11.98	10.66	0.02	0.21	0.19	0.01	0.01	CMS
Runoff	1.98	3.01	9.66	5.75	5.54	39.04	44.40	30.33	5.57	0.65	0.48	0.15	146.55	MCM

Momentary Peak 212.40 CMS. at 369.01 m. (MSL.) at 02.00 Hours , on Oct 2 , 2016

Runoff Yield 8.50 Liters/Second/Square KM. Momentary Peak Yield 388.300 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at Ban Sam Ruean.

Ban Sam Ruean **Amphoe** Khlong Khlung **Changwat** Kamphaeng Phet

Drainge Area	1,119 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+65.177 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +73.494 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

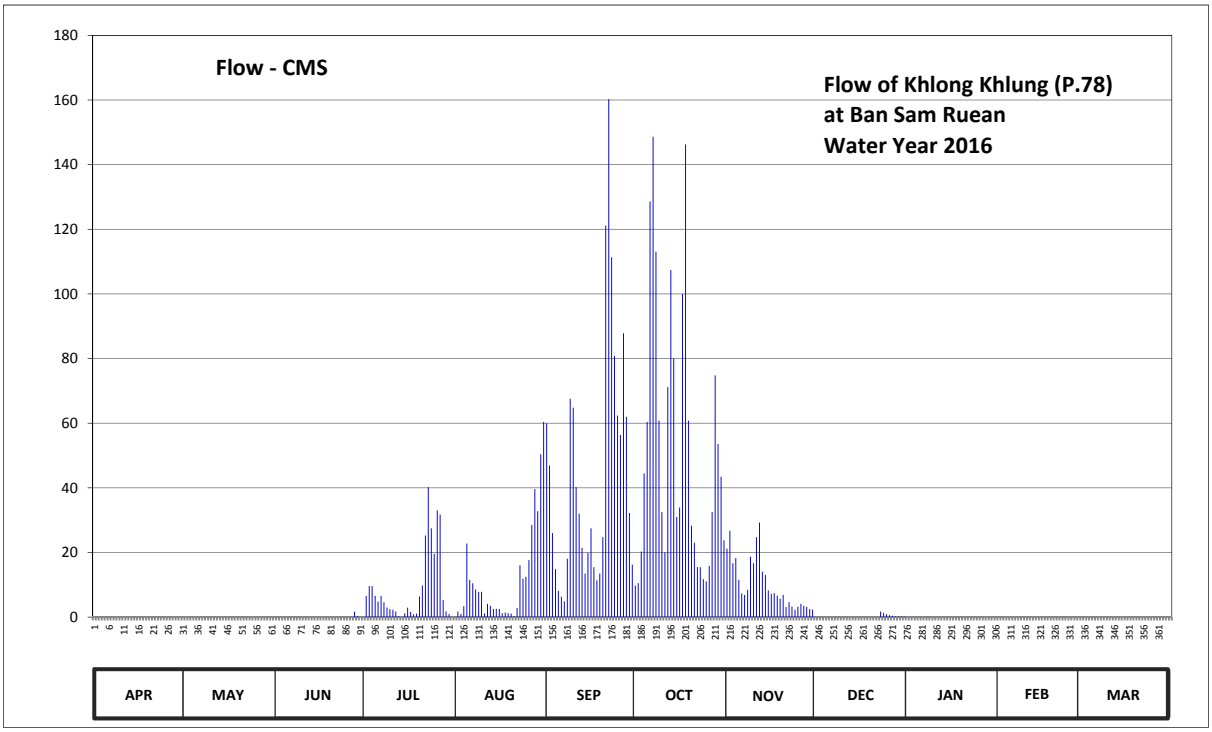
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.13	66.13	66.13	66.13	66.21	69.30	67.45	68.02	66.13	66.13	66.13	66.13	
2	66.13	66.13	66.13	67.21	66.60	68.94	67.50	68.25	66.13	66.13	66.13	66.13	
3	66.13	66.13	66.13	67.44	66.45	68.22	67.98	67.82	66.13	66.13	66.13	66.13	
4	66.13	66.13	66.13	67.44	66.88	67.73	68.87	67.89	66.13	66.13	66.13	66.13	
5	66.13	66.13	66.13	67.21	68.09	67.34	69.31	67.56	66.13	66.13	66.13	66.13	
6	66.13	66.13	66.13	67.03	67.56	67.18	70.75	67.28	66.13	66.13	66.13	66.13	
7	66.13	66.13	66.13	67.21	67.50	67.04	71.09	67.24	66.13	66.13	66.13	66.13	
8	66.13	66.13	66.13	67.01	67.37	67.88	70.48	67.36	66.13	66.13	66.13	66.13	
9	66.13	66.13	66.13	66.83	67.32	69.49	69.32	67.91	66.13	66.13	66.13	66.13	
10	66.13	66.13	66.13	66.74	67.32	69.42	68.48	67.82	66.13	66.13	66.13	66.13	
11	66.13	66.13	66.13	66.70	66.48	68.74	67.97	68.17	66.13	66.13	66.13	66.13	
12	66.13	66.13	66.13	66.60	66.96	68.46	69.58	68.35	66.13	66.13	66.13	66.13	
13	66.13	66.13	66.13	66.29	66.90	68.03	70.38	67.69	66.13	66.13	66.13	66.13	
14	66.13	66.13	66.13	66.14	66.75	67.66	69.80	67.64	66.13	66.13	66.13	66.13	
15	66.13	66.13	66.13	66.49	66.76	67.96	68.42	67.35	66.13	66.13	66.13	66.13	
16	66.13	66.13	66.13	66.82	66.75	68.28	68.53	67.27	66.13	66.13	66.13	66.13	
17	66.13	66.13	66.13	66.58	66.50	67.76	70.24	67.29	66.13	66.13	66.13	66.13	
18	66.13	66.13	66.13	66.43	66.54	67.55	71.05	67.22	66.13	66.13	66.13	66.13	
19	66.13	66.13	66.13	66.47	66.50	67.66	69.32	67.12	66.13	66.13	66.13	66.13	
20	66.13	66.13	66.13	67.19	66.47	68.17	68.31	67.24	66.13	66.13	66.13	66.13	
21	66.13	66.13	66.13	67.45	66.28	70.62	68.10	66.85	66.13	66.13	66.13	66.13	
22	66.13	66.13	66.13	68.19	66.81	71.28	67.76	67.01	66.13	66.13	66.13	66.13	
23	66.13	66.13	66.13	68.74	67.79	70.45	67.76	66.87	66.60	66.13	66.13	66.13	
24	66.13	66.13	66.13	68.28	67.58	69.82	67.57	66.70	66.52	66.13	66.13	66.13	
25	66.13	66.13	66.13	67.95	67.61	69.36	67.53	66.86	66.43	66.13	66.13	66.13	
26	66.13	66.13	66.13	68.50	67.86	69.21	67.78	66.96	66.37	66.13	66.13	66.13	
27	66.13	66.13	66.13	68.45	68.32	69.98	68.48	66.90	66.33	66.13	66.13	66.13	
28	66.13	66.13	66.59	67.08	68.72	69.35	69.67	66.86	66.29	66.13	66.13	66.13	
29	66.13	66.13	66.31	66.61	68.49	68.47	69.13	66.74	66.28	66.13		66.13	
30	66.13	66.13	66.13	66.44	69.04	67.80	68.84	66.71	66.27	66.13		66.13	
31		66.13		66.18	69.31		68.13		66.26	66.13		66.13	
Mean	66.13	66.13	66.15	67.09	67.28	68.64	68.89	67.36	66.20	66.13	66.13	66.13	
Max	66.13	66.13	66.59	68.74	69.31	71.28	71.09	68.35	66.60	66.13	66.13	66.13	71.28
Min	66.13	66.13	66.13	66.13	66.21	67.04	67.45	66.70	66.13	66.13	66.13	66.13	66.13

Annual Max Momentary Gage Height 71.36 m. (MSL.) , at 06.00 Hours , on Sep 22 , 2016

Zero Gage at Bottom Elevation 65.18 m. (MSL.) , River Bed 65.57 m. (MSL.)

Left Bank Elevation 73.29 m. (MSL.) ,

Right Bank Elevation 73.27 m. (MSL.) , Drainage Are 1,119 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.03	60.00	9.75	21.20	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	6.60	1.75	46.90	10.50	26.75	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	9.60	1.00	26.00	20.30	16.70	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	9.60	3.35	14.85	44.45	18.27	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	6.60	22.78	8.10	60.40	11.55	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	4.80	11.55	6.30	128.62	7.30	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	6.60	10.50	4.90	148.65	6.90	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	4.60	8.55	18.05	113.10	8.40	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	2.97	7.80	67.60	60.80	18.72	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	2.45	7.80	64.80	32.50	16.70	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	2.25	1.15	40.20	20.07	24.75	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	1.75	4.10	32.00	71.20	29.25	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.22	3.50	21.43	107.40	14.05	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	2.50	13.45	80.00	13.05	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	1.20	2.55	19.85	31.00	8.25	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	2.90	2.50	27.50	33.90	7.20	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	1.65	1.25	15.45	100.00	7.40	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.90	1.45	11.38	146.25	6.70	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	1.10	1.25	13.45	60.80	5.70	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	6.40	1.10	24.75	28.25	6.90	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	9.75	0.20	121.15	23.00	3.12	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	25.25	2.82	160.25	15.45	4.60	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	40.20	16.05	111.37	15.45	3.27	1.75	0.00	0.00	0.00		
24	0.00	0.00	0.00	27.50	11.90	80.85	11.73	2.25	1.35	0.00	0.00	0.00		
25	0.00	0.00	0.00	19.62	12.45	62.40	11.03	3.20	0.90	0.00	0.00	0.00		
26	0.00	0.00	0.00	33.00	17.60	56.40	15.85	4.10	0.60	0.00	0.00	0.00		
27	0.00	0.00	0.00	31.75	28.50	87.85	32.50	3.50	0.40	0.00	0.00	0.00		
28	0.00	0.00	1.70	5.30	39.60	62.00	74.80	3.20	0.22	0.00	0.00	0.00		
29	0.00	0.00	0.30	1.80	32.75	32.25	53.55	2.45	0.20	0.00		0.00		
30	0.00	0.00	0.00	0.95	50.40	16.25	43.40	2.30	0.17	0.00		0.00		
31		0.00		0.00	60.40		23.75		0.15	0.00		0.00		
Total	0.00	0.00	2.00	267.31	369.13	1327.73	1628.45	307.73	5.74	0.00	0.00	0.00	3908.09	CMSDAY
Mean	0.00	0.00	0.07	8.62	11.91	44.26	52.53	10.26	0.19	0.00	0.00	0.00	10.71	CMS
Max	0.00	0.00	1.70	40.20	60.40	160.25	148.65	29.25	1.75	0.00	0.00	0.00	160.25	CMS
Min	0.00	0.00	0.00	0.00	0.03	4.90	9.75	2.25	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.17	23.10	31.89	114.72	140.70	26.59	0.50	0.00	0.00	0.00	337.66	MCM

Momentary Peak 165.55 CMS. at 71.36 m. (MSL.) at 06.00 Hours , on Sep 22 , 2016

Runoff Yield 9.57 Liters/Second/Square KM. Momentary Peak Yield 147.940 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at the bridge on road.

	Ban Mae Wan	**Amphoe** Doi Saket	**Changwat** Chiang Mai
Drainge Area	136 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+442.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.	**Elevation**	+447.326 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

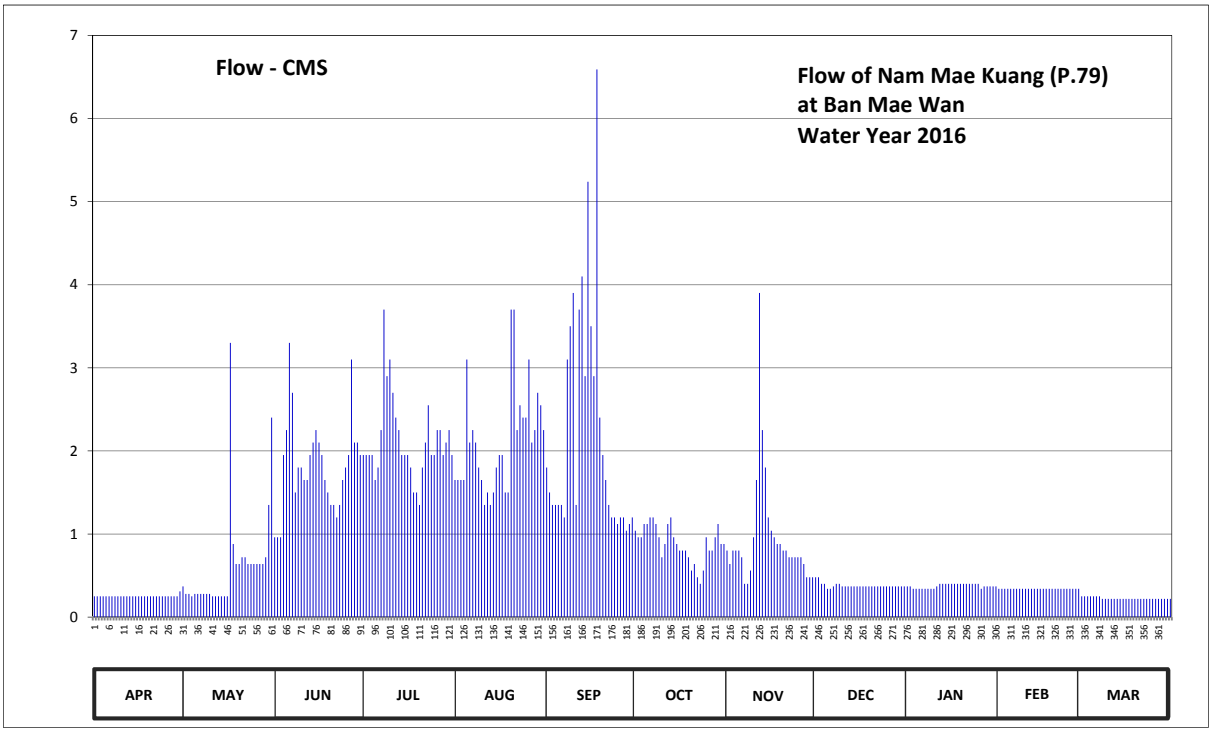
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.55	442.59	442.67	442.75	442.73	442.74	442.68	442.65	442.61	442.59	442.58	442.55	
2	442.55	442.56	442.67	442.75	442.73	442.72	442.67	442.63	442.61	442.59	442.58	442.55	
3	442.55	442.56	442.67	442.75	442.73	442.71	442.67	442.65	442.60	442.58	442.58	442.55	
4	442.55	442.55	442.75	442.75	442.73	442.71	442.69	442.65	442.60	442.58	442.58	442.55	
5	442.55	442.56	442.77	442.73	442.82	442.71	442.69	442.65	442.58	442.58	442.58	442.55	
6	442.55	442.56	442.83	442.74	442.76	442.71	442.70	442.64	442.58	442.58	442.58	442.55	
7	442.55	442.56	442.80	442.77	442.77	442.70	442.70	442.60	442.59	442.58	442.58	442.55	
8	442.55	442.56	442.72	442.85	442.76	442.82	442.69	442.60	442.60	442.58	442.58	442.54	
9	442.55	442.56	442.74	442.81	442.74	442.84	442.67	442.62	442.60	442.58	442.58	442.54	
10	442.55	442.56	442.74	442.82	442.73	442.86	442.64	442.67	442.59	442.58	442.58	442.54	
11	442.55	442.55	442.73	442.80	442.71	442.71	442.66	442.73	442.59	442.59	442.58	442.54	
12	442.55	442.55	442.73	442.78	442.72	442.85	442.69	442.86	442.59	442.60	442.58	442.54	
13	442.55	442.55	442.75	442.77	442.71	442.87	442.70	442.77	442.59	442.60	442.58	442.54	
14	442.55	442.55	442.76	442.75	442.72	442.81	442.67	442.74	442.59	442.60	442.58	442.54	
15	442.55	442.55	442.77	442.75	442.74	442.92	442.66	442.70	442.59	442.60	442.58	442.54	
16	442.55	442.55	442.76	442.75	442.75	442.84	442.65	442.68	442.59	442.60	442.58	442.54	
17	442.55	442.83	442.75	442.74	442.75	442.81	442.65	442.67	442.59	442.60	442.58	442.54	
18	442.55	442.66	442.73	442.72	442.72	442.97	442.65	442.66	442.59	442.60	442.58	442.54	
19	442.55	442.63	442.72	442.72	442.72	442.78	442.64	442.66	442.59	442.60	442.58	442.54	
20	442.55	442.63	442.71	442.71	442.85	442.75	442.62	442.65	442.59	442.60	442.58	442.54	
21	442.55	442.64	442.71	442.74	442.85	442.73	442.63	442.65	442.59	442.60	442.58	442.54	
22	442.55	442.64	442.70	442.76	442.77	442.71	442.61	442.64	442.59	442.60	442.58	442.54	
23	442.55	442.63	442.71	442.79	442.79	442.70	442.60	442.64	442.59	442.60	442.58	442.54	
24	442.55	442.63	442.73	442.75	442.78	442.70	442.62	442.64	442.59	442.60	442.58	442.54	
25	442.55	442.63	442.74	442.75	442.78	442.69	442.67	442.64	442.59	442.60	442.58	442.54	
26	442.55	442.63	442.75	442.77	442.82	442.70	442.65	442.64	442.59	442.58	442.58	442.54	
27	442.55	442.63	442.82	442.77	442.76	442.70	442.65	442.63	442.59	442.59	442.58	442.54	
28	442.55	442.63	442.76	442.75	442.77	442.68	442.67	442.61	442.59	442.59	442.58	442.54	
29	442.55	442.64	442.76	442.76	442.80	442.69	442.69	442.61	442.59	442.59		442.54	
30	442.57	442.71	442.75	442.77	442.79	442.70	442.66	442.61	442.59	442.59		442.54	
31		442.78		442.75	442.77		442.66		442.59	442.59		442.54	
Mean	442.55	442.61	442.74	442.76	442.76	442.76	442.66	442.66	442.59	442.59	442.58	442.54	
Max	442.57	442.83	442.83	442.85	442.85	442.97	442.70	442.86	442.61	442.60	442.58	442.55	442.97
Min	442.55	442.55	442.67	442.71	442.71	442.68	442.60	442.60	442.58	442.58	442.58	442.54	442.54

Annual Max Momentary Gage Height 443.56 m. (MSL.) , at 08.00 Hours , on Sep 18 , 2016

Zero Gage at Bottom Elevation 442.30 m. (MSL.) , River Bed 442.32 m. (MSL.)

Left Bank Elevation 446.86 m. (MSL.) ,

Right Bank Elevation 446.09 m. (MSL.) , Drainage Are 136 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.37	0.96	1.95	1.65	1.80	1.04	0.80	0.48	0.37	0.34	0.25	
2	0.25	0.28	0.96	1.95	1.65	1.50	0.96	0.64	0.48	0.37	0.34	0.25	
3	0.25	0.28	0.96	1.95	1.65	1.35	0.96	0.80	0.40	0.34	0.34	0.25	
4	0.25	0.25	1.95	1.95	1.65	1.35	1.12	0.80	0.40	0.34	0.34	0.25	
5	0.25	0.28	2.25	1.65	3.10	1.35	1.12	0.80	0.34	0.34	0.34	0.25	
6	0.25	0.28	3.30	1.80	2.10	1.35	1.20	0.72	0.34	0.34	0.34	0.25	
7	0.25	0.28	2.70	2.25	2.25	1.20	1.20	0.40	0.37	0.34	0.34	0.25	
8	0.25	0.28	1.50	3.70	2.10	3.10	1.12	0.40	0.40	0.34	0.34	0.22	
9	0.25	0.28	1.80	2.90	1.80	3.50	0.96	0.56	0.40	0.34	0.34	0.22	
10	0.25	0.28	1.80	3.10	1.65	3.90	0.72	0.96	0.37	0.34	0.34	0.22	
11	0.25	0.25	1.65	2.70	1.35	1.35	0.88	1.65	0.37	0.37	0.34	0.22	
12	0.25	0.25	1.65	2.40	1.50	3.70	1.12	3.90	0.37	0.40	0.34	0.22	
13	0.25	0.25	1.95	2.25	1.35	4.10	1.20	2.25	0.37	0.40	0.34	0.22	
14	0.25	0.25	2.10	1.95	1.50	2.90	0.96	1.80	0.37	0.40	0.34	0.22	
15	0.25	0.25	2.25	1.95	1.80	5.24	0.88	1.20	0.37	0.40	0.34	0.22	
16	0.25	0.25	2.10	1.95	1.95	3.50	0.80	1.04	0.37	0.40	0.34	0.22	
17	0.25	3.30	1.95	1.80	1.95	2.90	0.80	0.96	0.37	0.40	0.34	0.22	
18	0.25	0.88	1.65	1.50	1.50	6.59	0.80	0.88	0.37	0.40	0.34	0.22	
19	0.25	0.64	1.50	1.50	1.50	2.40	0.72	0.88	0.37	0.40	0.34	0.22	
20	0.25	0.64	1.35	1.35	3.70	1.95	0.56	0.80	0.37	0.40	0.34	0.22	
21	0.25	0.72	1.35	1.80	3.70	1.65	0.64	0.80	0.37	0.40	0.34	0.22	
22	0.25	0.72	1.20	2.10	2.25	1.35	0.48	0.72	0.37	0.40	0.34	0.22	
23	0.25	0.64	1.35	2.55	2.55	1.20	0.40	0.72	0.37	0.40	0.34	0.22	
24	0.25	0.64	1.65	1.95	2.40	1.20	0.56	0.72	0.37	0.40	0.34	0.22	
25	0.25	0.64	1.80	1.95	2.40	1.12	0.96	0.72	0.37	0.40	0.34	0.22	
26	0.25	0.64	1.95	2.25	3.10	1.20	0.80	0.72	0.37	0.34	0.34	0.22	
27	0.25	0.64	3.10	2.25	2.10	1.20	0.80	0.64	0.37	0.37	0.34	0.22	
28	0.25	0.64	2.10	1.95	2.25	1.04	0.96	0.48	0.37	0.37	0.34	0.22	
29	0.25	0.72	2.10	2.10	2.70	1.12	1.12	0.48	0.37	0.37		0.22	
30	0.31	1.35	1.95	2.25	2.55	1.20	0.88	0.48	0.37	0.37		0.22	
31		2.40		1.95	2.25		0.88		0.37	0.37		0.22	
Total	7.56	19.57	54.88	65.65	65.95	67.31	27.60	28.72	11.75	11.62	9.52	7.03	377.16 CMSDAY
Mean	0.25	0.63	1.83	2.12	2.13	2.24	0.89	0.96	0.38	0.37	0.34	0.23	1.03 CMS
Max	0.31	3.30	3.30	3.70	3.70	6.59	1.20	3.90	0.48	0.40	0.34	0.25	6.59 CMS
Min	0.25	0.25	0.96	1.35	1.35	1.04	0.40	0.40	0.34	0.34	0.34	0.22	0.22 CMS
Runoff	0.65	1.69	4.74	5.67	5.70	5.82	2.38	2.48	1.02	1.00	0.82	0.61	32.59 MCM

Momentary Peak 38.90 CMS. at 443.56 m. (MSL.) at 08.00 Hours , on Sep 18 , 2016

Runoff Yield 7.60 Liters/Second/Square KM. Momentary Peak Yield 286.030 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Pong Din **Amphoe** Doi Saket **Changwat** Chiang Mai

Drainge Area	129 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+455.096 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the approach of the bridge. **Elevation** +462.021 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

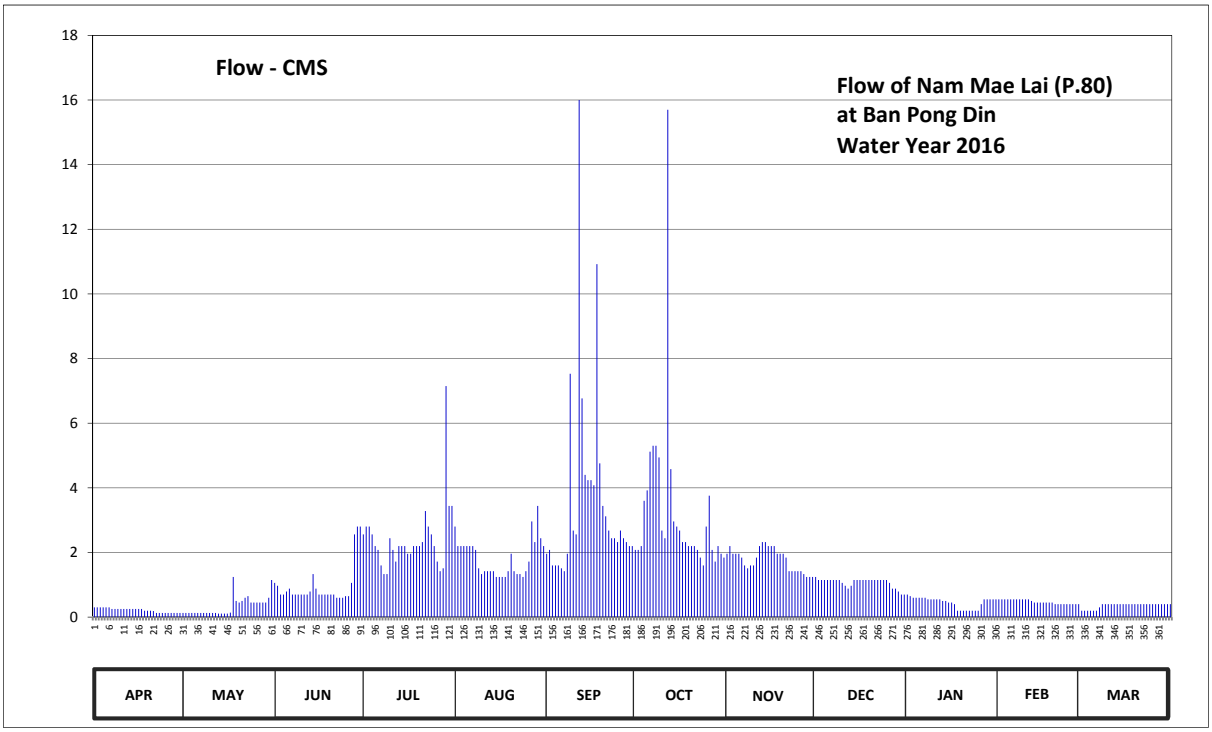
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.42	455.35	455.54	455.68	455.70	455.63	455.64	455.63	455.56	455.50	455.47	455.40	
2	455.42	455.35	455.53	455.70	455.65	455.64	455.64	455.65	455.55	455.49	455.47	455.40	
3	455.42	455.35	455.50	455.70	455.65	455.60	455.65	455.63	455.55	455.48	455.47	455.40	
4	455.42	455.35	455.50	455.68	455.65	455.60	455.75	455.63	455.55	455.48	455.47	455.40	
5	455.42	455.35	455.51	455.65	455.65	455.60	455.77	455.63	455.55	455.48	455.47	455.40	
6	455.42	455.35	455.52	455.64	455.65	455.59	455.84	455.62	455.55	455.48	455.47	455.40	
7	455.41	455.35	455.50	455.60	455.65	455.58	455.85	455.60	455.55	455.48	455.47	455.42	
8	455.41	455.35	455.50	455.57	455.64	455.63	455.85	455.59	455.55	455.47	455.47	455.44	
9	455.41	455.35	455.50	455.57	455.59	455.97	455.83	455.60	455.55	455.47	455.47	455.44	
10	455.41	455.35	455.50	455.67	455.57	455.69	455.69	455.60	455.54	455.47	455.47	455.44	
11	455.41	455.35	455.50	455.64	455.58	455.68	455.67	455.62	455.53	455.47	455.47	455.44	
12	455.41	455.35	455.50	455.61	455.58	456.30	456.29	455.65	455.52	455.47	455.46	455.44	
13	455.41	455.34	455.51	455.65	455.58	455.93	455.81	455.66	455.53	455.46	455.45	455.44	
14	455.41	455.34	455.57	455.65	455.58	455.80	455.71	455.66	455.55	455.46	455.45	455.44	
15	455.41	455.34	455.52	455.65	455.56	455.79	455.70	455.65	455.55	455.45	455.45	455.44	
16	455.41	455.34	455.50	455.63	455.56	455.79	455.69	455.65	455.55	455.45	455.45	455.44	
17	455.41	455.36	455.50	455.63	455.56	455.78	455.66	455.65	455.55	455.44	455.45	455.44	
18	455.40	455.56	455.50	455.65	455.56	456.12	455.66	455.63	455.55	455.40	455.45	455.44	
19	455.40	455.46	455.50	455.65	455.58	455.82	455.65	455.63	455.55	455.40	455.45	455.44	
20	455.40	455.45	455.50	455.65	455.63	455.74	455.65	455.63	455.55	455.40	455.44	455.44	
21	455.39	455.46	455.50	455.66	455.58	455.72	455.65	455.62	455.55	455.40	455.44	455.44	
22	455.35	455.48	455.48	455.73	455.57	455.69	455.64	455.58	455.55	455.40	455.44	455.44	
23	455.35	455.49	455.48	455.70	455.57	455.67	455.62	455.58	455.55	455.40	455.44	455.44	
24	455.35	455.45	455.48	455.68	455.56	455.67	455.60	455.58	455.55	455.40	455.44	455.44	
25	455.35	455.45	455.49	455.65	455.58	455.66	455.70	455.58	455.55	455.40	455.44	455.44	
26	455.35	455.45	455.49	455.61	455.61	455.69	455.76	455.58	455.54	455.44	455.44	455.44	
27	455.35	455.45	455.54	455.58	455.71	455.67	455.64	455.57	455.52	455.47	455.44	455.44	
28	455.35	455.45	455.68	455.59	455.66	455.66	455.61	455.56	455.52	455.47	455.44	455.44	
29	455.35	455.45	455.70	455.95	455.74	455.65	455.65	455.56	455.51	455.47		455.44	
30	455.35	455.48	455.70	455.74	455.67	455.65	455.63	455.56	455.50	455.47		455.44	
31		455.55		455.74	455.65		455.62		455.50	455.47		455.44	
Mean	455.39	455.40	455.52	455.66	455.62	455.73	455.71	455.61	455.54	455.45	455.46	455.43	
Max	455.42	455.56	455.70	455.95	455.74	456.30	456.29	455.66	455.56	455.50	455.47	455.44	456.30
Min	455.35	455.34	455.48	455.57	455.56	455.58	455.60	455.56	455.50	455.40	455.44	455.40	455.34

Annual Max Momentary Gage Height 457.19 m. (MSL.) , at 15.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 455.10 m. (MSL.) , River Bed 455.15 m. (MSL.)

Left Bank Elevation 461.90 m. (MSL.) ,

Right Bank Elevation 461.92 m. (MSL.) , Drainage Are 129 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.13	1.06	2.56	2.80	1.96	2.08	1.96	1.24	0.70	0.55	0.20	
2	0.30	0.13	0.97	2.80	2.20	2.08	2.08	2.20	1.15	0.65	0.55	0.20	
3	0.30	0.13	0.70	2.80	2.20	1.60	2.20	1.96	1.15	0.60	0.55	0.20	
4	0.30	0.13	0.70	2.56	2.20	1.60	3.60	1.96	1.15	0.60	0.55	0.20	
5	0.30	0.13	0.79	2.20	2.20	1.60	3.92	1.96	1.15	0.60	0.55	0.20	
6	0.30	0.13	0.88	2.08	2.20	1.51	5.12	1.84	1.15	0.60	0.55	0.20	
7	0.25	0.13	0.70	1.60	2.20	1.42	5.30	1.60	1.15	0.60	0.55	0.30	
8	0.25	0.13	0.70	1.33	2.08	1.96	5.30	1.51	1.15	0.55	0.55	0.40	
9	0.25	0.13	0.70	1.33	1.51	7.53	4.94	1.60	1.15	0.55	0.55	0.40	
10	0.25	0.13	0.70	2.44	1.33	2.68	2.68	1.60	1.06	0.55	0.55	0.40	
11	0.25	0.13	0.70	2.08	1.42	2.56	2.44	1.84	0.97	0.55	0.55	0.40	
12	0.25	0.13	0.70	1.72	1.42	16.00	15.70	2.20	0.88	0.55	0.50	0.40	
13	0.25	0.11	0.79	2.20	1.42	6.77	4.58	2.32	0.97	0.50	0.45	0.40	
14	0.25	0.11	1.33	2.20	1.42	4.40	2.96	2.32	1.15	0.50	0.45	0.40	
15	0.25	0.11	0.88	2.20	1.24	4.24	2.80	2.20	1.15	0.45	0.45	0.40	
16	0.25	0.11	0.70	1.96	1.24	4.24	2.68	2.20	1.15	0.45	0.45	0.40	
17	0.25	0.14	0.70	1.96	1.24	4.08	2.32	2.20	1.15	0.40	0.45	0.40	
18	0.20	1.24	0.70	2.20	1.24	10.92	2.32	1.96	1.15	0.20	0.45	0.40	
19	0.20	0.50	0.70	2.20	1.42	4.76	2.20	1.96	1.15	0.20	0.45	0.40	
20	0.20	0.45	0.70	2.20	1.96	3.44	2.20	1.96	1.15	0.20	0.40	0.40	
21	0.19	0.50	0.70	2.32	1.42	3.12	2.20	1.84	1.15	0.20	0.40	0.40	
22	0.13	0.60	0.60	3.28	1.33	2.68	2.08	1.42	1.15	0.20	0.40	0.40	
23	0.13	0.65	0.60	2.80	1.33	2.44	1.84	1.42	1.15	0.20	0.40	0.40	
24	0.13	0.45	0.60	2.56	1.24	2.44	1.60	1.42	1.15	0.20	0.40	0.40	
25	0.13	0.45	0.65	2.20	1.42	2.32	2.80	1.42	1.15	0.20	0.40	0.40	
26	0.13	0.45	0.65	1.72	1.72	2.68	3.76	1.42	1.06	0.40	0.40	0.40	
27	0.13	0.45	1.06	1.42	2.96	2.44	2.08	1.33	0.88	0.55	0.40	0.40	
28	0.13	0.45	2.56	1.51	2.32	2.32	1.72	1.24	0.88	0.55	0.40	0.40	
29	0.13	0.45	2.80	7.15	3.44	2.20	2.20	1.24	0.79	0.55		0.40	
30	0.13	0.60	2.80	3.44	2.44	2.20	1.96	1.24	0.70	0.55		0.40	
31		1.15		3.44	2.20		1.84		0.70	0.55		0.40	
Total	6.51	10.53	28.82	74.46	56.76	110.19	101.50	53.34	33.13	14.15	13.30	11.10	513.79 CMSDAY
Mean	0.22	0.34	0.96	2.40	1.83	3.67	3.27	1.78	1.07	0.46	0.48	0.36	1.41 CMS
Max	0.30	1.24	2.80	7.15	3.44	16.00	15.70	2.32	1.24	0.70	0.55	0.40	16.00 CMS
Min	0.13	0.11	0.60	1.33	1.24	1.42	1.60	1.24	0.70	0.20	0.40	0.20	0.11 CMS
Runoff	0.56	0.91	2.49	6.43	4.90	9.52	8.77	4.61	2.86	1.22	1.15	0.96	44.39 MCM

Momentary Peak 54.43 CMS. at 457.19 m. (MSL.) at 15.00 Hours , on Sep 12 , 2016

Runoff Yield 10.91 Liters/Second/Square KM. Momentary Peak Yield 421.940 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on right bank at Ban Pong.

Ban Pong **Amphoe** San Kamphaeng **Changwat** Chiang Mai

Drainge Area	1,190 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+289.919 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +295.749 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2002 to date
Rating Operation	
Period of Rating	2002 to date
Rated by Flot	-
Rated by Current Meter	2002 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

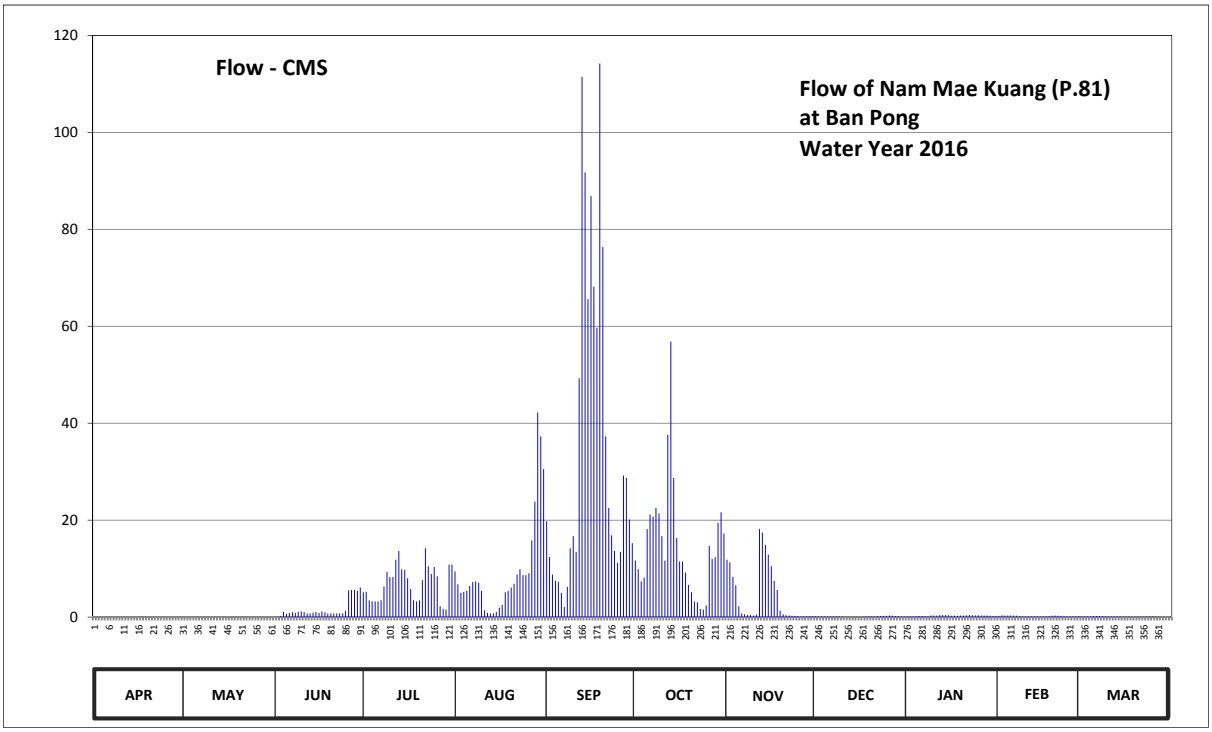
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.12	290.12	290.12	291.41	291.78	292.37	291.92	291.93	290.79	290.72	290.85	290.72	
2	290.12	290.12	290.16	291.42	291.57	291.96	291.81	291.90	290.72	290.72	290.92	290.72	
3	290.12	290.12	290.79	291.33	291.40	291.73	291.62	291.69	290.72	290.72	290.92	290.72	
4	290.12	290.12	291.16	291.32	291.42	291.63	291.68	291.55	290.72	290.75	290.92	290.75	
5	290.12	290.12	291.11	291.32	291.44	291.61	292.28	291.26	290.72	290.82	290.92	290.82	
6	290.12	290.12	291.13	291.32	291.54	291.40	292.44	291.12	290.72	290.82	290.92	290.82	
7	290.12	290.12	291.15	291.33	291.61	291.25	292.42	291.10	290.72	290.78	290.89	290.82	
8	290.12	290.12	291.13	291.53	291.62	291.52	292.50	291.02	290.72	290.77	290.79	290.79	
9	290.12	290.12	291.16	291.77	291.60	292.06	292.45	291.00	290.72	290.94	290.72	290.72	
10	290.12	290.12	291.17	291.69	291.44	292.20	292.20	290.92	290.69	290.92	290.72	290.72	
11	290.12	290.12	291.16	291.69	291.20	292.02	291.92	291.05	290.62	290.94	290.72	290.72	
12	290.12	290.12	291.12	291.93	291.13	293.44	293.08	292.28	290.62	291.02	290.72	290.72	
13	290.12	290.12	291.12	292.03	291.12	294.79	293.64	292.24	290.62	291.02	290.72	290.72	
14	290.12	290.12	291.14	291.81	291.12	294.41	292.76	292.10	290.62	291.02	290.72	290.72	
15	290.12	290.12	291.16	291.80	291.16	293.85	292.18	291.99	290.62	290.99	290.72	290.71	
16	290.12	290.12	291.13	291.67	291.24	294.31	291.91	291.85	290.62	290.90	290.72	290.67	
17	290.12	290.12	291.17	291.48	291.28	293.91	291.91	291.63	290.65	290.91	290.72	290.67	
18	290.12	290.12	291.15	291.33	291.41	293.71	291.76	291.46	290.72	290.85	290.77	290.65	
19	290.12	290.12	291.12	291.32	291.44	294.84	291.56	291.19	290.72	290.92	290.91	290.64	
20	290.12	290.12	291.12	291.33	291.51	294.09	291.41	291.09	290.72	290.92	290.92	290.67	
21	290.12	290.12	291.12	291.64	291.58	293.07	291.32	290.99	290.74	290.95	290.89	290.67	
22	290.12	290.12	291.12	292.06	291.73	292.50	291.31	290.92	290.82	291.03	290.79	290.69	
23	290.12	290.12	291.12	291.85	291.81	292.21	291.22	290.89	290.82	290.99	290.72	290.72	
24	290.12	290.12	291.12	291.74	291.72	292.03	291.21	290.82	290.82	290.95	290.72	290.72	
25	290.12	290.12	291.18	291.84	291.72	291.89	291.27	290.79	290.85	290.99	290.72	290.72	
26	290.12	290.12	291.45	291.70	291.75	292.02	292.09	290.72	290.92	290.92	290.72	290.69	
27	290.12	290.12	291.46	291.26	292.15	292.78	291.94	290.72	290.89	290.92	290.75	290.57	
28	290.12	290.12	291.46	291.22	292.56	292.76	291.96	290.75	290.82	290.92	290.79	290.43	
29	290.12	290.12	291.44	291.21	293.23	292.39	292.35	290.79	290.79	290.90		290.52	
30	290.12	290.12	291.51	291.87	293.07	292.12	292.46	290.76	290.72	290.82		290.47	
31		290.12		291.87	292.83		292.23		290.72	290.82		290.61	
Mean	290.12	290.12	291.11	291.58	291.68	292.70	292.03	291.28	290.73	290.89	290.80	290.69	
Max	290.12	290.12	291.51	292.06	293.23	294.84	293.64	292.28	290.92	291.03	290.92	290.82	294.84
Min	290.12	290.12	290.12	291.21	291.12	291.25	291.21	290.72	290.62	290.72	290.72	290.43	290.12

Annual Max Momentary Gage Height 294.97 m. (MSL.) , at 12.00 Hours , on Sep 19 , 2016

Zero Gage at Bottom Elevation 289.92 m. (MSL.) , River Bed 290.10 m. (MSL.)

Left Bank Elevation 296.87 m. (MSL.) ,

Right Bank Elevation 296.87 m. (MSL.) , Drainage Are 1,190 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	5.10	9.44	19.76	11.66	11.84	0.19	0.12	0.25	0.12		
2	0.00	0.00	0.00	5.20	6.77	12.38	9.86	11.30	0.12	0.12	0.32	0.12		
3	0.00	0.00	0.19	3.46	5.00	8.79	7.36	8.27	0.12	0.12	0.32	0.12		
4	0.00	0.00	1.08	3.24	5.20	7.49	8.14	6.55	0.12	0.15	0.32	0.15		
5	0.00	0.00	0.68	3.24	5.40	7.23	18.14	2.24	0.12	0.22	0.32	0.22		
6	0.00	0.00	0.84	3.24	6.44	5.00	21.18	0.76	0.12	0.22	0.32	0.22		
7	0.00	0.00	1.00	3.46	7.23	2.10	20.74	0.60	0.12	0.18	0.29	0.22		
8	0.00	0.00	0.84	6.33	7.36	6.22	22.50	0.44	0.12	0.17	0.19	0.19		
9	0.00	0.00	1.08	9.31	7.10	14.18	21.40	0.40	0.12	0.34	0.12	0.12		
10	0.00	0.00	1.16	8.27	5.40	16.70	16.70	0.32	0.10	0.32	0.12	0.12		
11	0.00	0.00	1.08	8.27	1.40	13.46	11.66	0.50	0.07	0.34	0.12	0.12		
12	0.00	0.00	0.76	11.84	0.84	49.28	37.60	18.14	0.07	0.44	0.12	0.12		
13	0.00	0.00	0.76	13.64	0.76	111.48	56.84	17.42	0.07	0.44	0.12	0.12		
14	0.00	0.00	0.92	9.86	0.76	91.72	28.70	14.90	0.07	0.44	0.12	0.12		
15	0.00	0.00	1.08	9.70	1.08	65.58	16.34	12.92	0.07	0.39	0.12	0.11		
16	0.00	0.00	0.84	8.01	1.96	86.83	11.48	10.50	0.07	0.30	0.12	0.09		
17	0.00	0.00	1.16	5.80	2.52	68.19	11.48	7.49	0.08	0.31	0.12	0.09		
18	0.00	0.00	1.00	3.46	5.10	59.71	9.18	5.60	0.12	0.25	0.17	0.08		
19	0.00	0.00	0.76	3.24	5.40	114.20	6.66	1.32	0.12	0.32	0.31	0.08		
20	0.00	0.00	0.76	3.46	6.11	76.33	5.10	0.58	0.12	0.32	0.32	0.09		
21	0.00	0.00	0.76	7.62	6.88	37.30	3.24	0.39	0.14	0.35	0.29	0.09		
22	0.00	0.00	0.76	14.18	8.79	22.50	3.02	0.32	0.22	0.46	0.19	0.10		
23	0.00	0.00	0.76	10.50	9.86	16.88	1.68	0.29	0.22	0.39	0.12	0.12		
24	0.00	0.00	0.76	8.92	8.66	13.64	1.54	0.22	0.22	0.35	0.12	0.12		
25	0.00	0.00	1.24	10.34	8.66	11.14	2.38	0.19	0.25	0.39	0.12	0.12		
26	0.00	0.00	5.50	8.40	9.05	13.46	14.72	0.12	0.32	0.32	0.12	0.10		
27	0.00	0.00	5.60	2.24	15.80	29.20	12.02	0.12	0.29	0.32	0.15	0.05		
28	0.00	0.00	5.60	1.68	23.82	28.70	12.38	0.15	0.22	0.32	0.19	0.03		
29	0.00	0.00	5.40	1.54	42.19	20.12	19.40	0.19	0.19	0.30		0.04		
30	0.00	0.00	6.11	10.82	37.30	15.26	21.62	0.16	0.12	0.22		0.03		
31		0.00		10.82	30.53		17.24		0.12	0.22		0.06		
Total	0.00	0.00	48.48	215.19	292.81	1044.83	461.96	134.24	4.42	9.15	5.51	3.48	2220.07	CMSDAY
Mean	0.00	0.00	1.62	6.94	9.45	34.83	14.90	4.47	0.14	0.30	0.20	0.11	6.08	CMS
Max	0.00	0.00	6.11	14.18	42.19	114.20	56.84	18.14	0.32	0.46	0.32	0.22	114.20	CMS
Min	0.00	0.00	0.00	1.54	0.76	2.10	1.54	0.12	0.07	0.12	0.12	0.03	0.00	CMS
Runoff	0.00	0.00	4.19	18.59	25.30	90.27	39.91	11.60	0.38	0.79	0.48	0.30	191.81	MCM

Momentary Peak 121.35 CMS. at 294.97 m. (MSL.) at 12.00 Hours , on Sep 19 , 2016

Runoff Yield 5.11 Liters/Second/Square KM. Momentary Peak Yield 101.970 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

Lat 18 - 39 - 06 N Long 98 - 41 - 23 E

Location : on left bank at Ban Sop Win.

	Ban Sop Win	**Amphoe** Mae Wang	**Changwat** Chiang Mai
Drainge Area	389 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+400.196 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5.00 meters from the top staff gage.	**Elevation**	+406.756 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable by some scouring.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

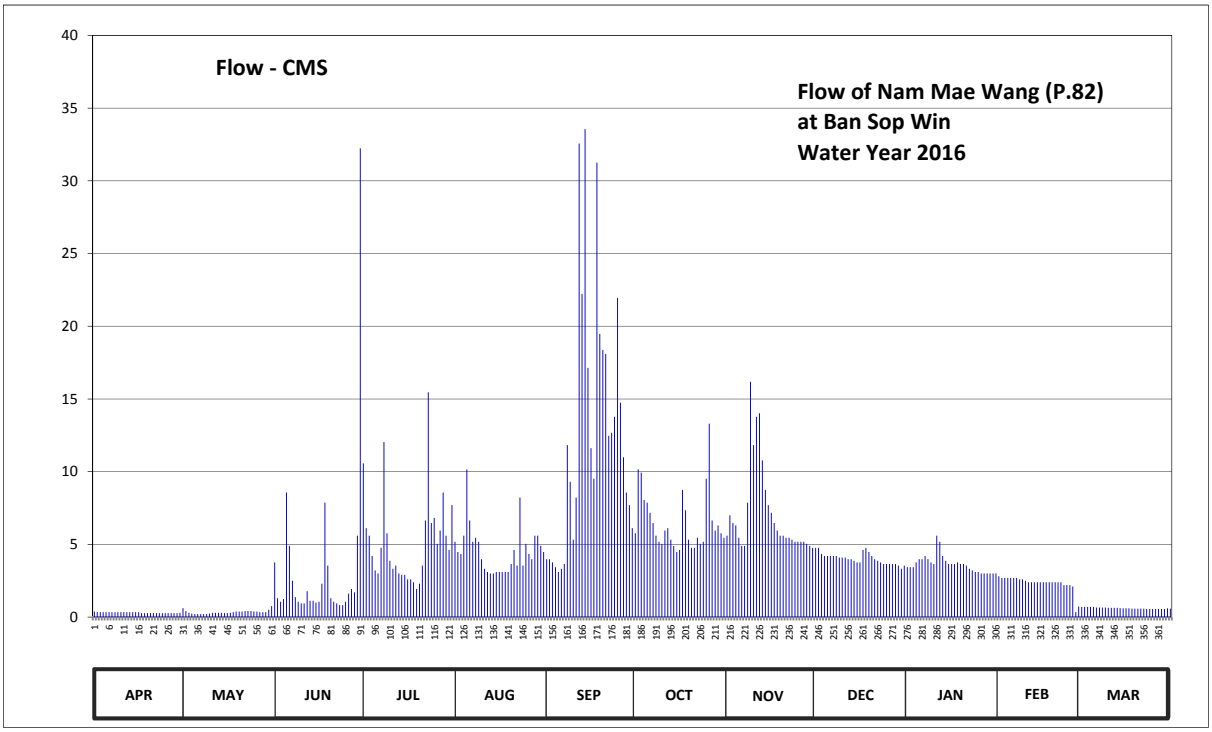
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	400.42	400.48	400.86	401.27	400.97	400.88	401.01	401.00	400.94	400.83	400.77	400.95	
2	400.41	400.43	400.60	401.03	400.92	400.88	401.25	401.08	400.94	400.83	400.76	400.95	
3	400.41	400.40	400.56	401.00	400.91	400.86	401.24	401.05	400.91	400.83	400.76	400.95	
4	400.41	400.38	400.59	400.90	401.00	400.83	401.14	401.04	400.90	400.86	400.76	400.95	
5	400.41	400.37	401.17	400.81	401.25	400.80	401.13	400.99	400.90	400.88	400.76	400.95	
6	400.41	400.37	400.95	400.79	401.06	400.82	401.09	400.95	400.90	400.88	400.76	400.93	
7	400.41	400.37	400.74	400.94	400.97	400.85	401.05	400.95	400.90	400.90	400.76	400.93	
8	400.41	400.37	400.61	401.34	400.99	401.33	401.00	401.13	400.90	400.88	400.75	400.93	
9	400.41	400.37	400.56	401.01	400.97	401.21	400.97	401.52	400.89	400.86	400.75	400.93	
10	400.41	400.38	400.54	400.87	400.88	400.98	400.96	401.33	400.89	400.85	400.74	400.92	
11	400.41	400.40	400.54	400.82	400.82	401.15	401.02	401.42	400.89	401.00	400.73	400.92	
12	400.41	400.40	400.66	400.84	400.80	402.09	401.03	401.43	400.88	400.97	400.73	400.92	
13	400.41	400.40	400.57	400.79	400.79	401.75	400.98	401.28	400.88	400.90	400.73	400.92	
14	400.41	400.40	400.57	400.78	400.79	402.12	400.95	401.18	400.87	400.87	400.73	400.91	
15	400.41	400.39	400.55	400.78	400.80	401.56	400.92	401.12	400.86	400.85	400.73	400.90	
16	400.41	400.39	400.56	400.75	400.80	401.32	400.93	401.09	400.86	400.85	400.73	400.90	
17	400.39	400.40	400.72	400.75	400.80	401.22	401.18	401.05	400.93	400.85	400.73	400.90	
18	400.39	400.41	401.13	400.73	400.80	402.05	401.10	401.02	400.94	400.86	400.73	400.89	
19	400.39	400.42	400.84	400.68	400.80	401.65	400.98	401.00	400.92	400.85	400.73	400.89	
20	400.39	400.42	400.60	400.72	400.85	401.61	400.94	401.00	400.90	400.85	400.73	400.89	
21	400.39	400.42	400.56	400.84	400.93	401.60	400.94	400.99	400.88	400.84	400.73	400.89	
22	400.39	400.43	400.54	401.06	400.84	401.36	400.99	400.99	400.87	400.82	400.73	400.89	
23	400.39	400.43	400.52	401.49	401.15	401.37	400.96	400.98	400.86	400.81	400.71	400.88	
24	400.39	400.43	400.52	401.05	400.84	401.42	400.97	400.97	400.85	400.80	400.71	400.88	
25	400.39	400.42	400.56	401.07	400.96	401.74	401.22	400.97	400.85	400.80	400.71	400.88	
26	400.39	400.42	400.64	400.96	400.91	401.46	401.40	400.97	400.85	400.79	400.70	400.88	
27	400.39	400.41	400.68	401.02	400.88	401.29	401.06	400.97	400.85	400.79	400.77	400.88	
28	400.39	400.41	400.65	401.17	401.00	401.17	401.02	400.96	400.85	400.79	400.96	400.88	
29	400.39	400.41	401.00	401.00	401.00	401.12	401.04	400.95	400.84	400.79		400.88	
30	400.40	400.45	402.08	400.93	400.95	401.03	401.01	400.94	400.82	400.79		400.90	
31		400.51		401.12	400.92		400.99		400.84	400.79		400.89	
Mean	400.40	400.41	400.72	400.95	400.91	401.32	401.05	401.08	400.88	400.85	400.75	400.91	
Max	400.42	400.51	402.08	401.49	401.25	402.12	401.40	401.52	400.94	401.00	400.96	400.95	402.12
Min	400.39	400.37	400.52	400.68	400.79	400.80	400.92	400.94	400.82	400.79	400.70	400.88	400.37

Annual Max Momentary Gage Height 404.95 m. (MSL.) , at 02.00 Hours , on Jun 30 , 2016

Zero Gage at Bottom Elevation 400.20 m. (MSL.) , River Bed 400.16 m. (MSL.)

Left Bank Elevation 407.68 m. (MSL.) ,

Right Bank Elevation 408.29 m. (MSL.) , Drainage Are 389 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.62	3.76	10.57	5.18	3.98	5.77	5.60	4.76	3.43	2.80	0.70	
2	0.34	0.42	1.30	6.12	4.48	3.98	10.15	7.00	4.76	3.43	2.70	0.70	
3	0.34	0.30	1.06	5.60	4.34	3.76	9.94	6.47	4.34	3.43	2.70	0.70	
4	0.34	0.24	1.24	4.20	5.60	3.43	8.05	6.30	4.20	3.76	2.70	0.70	
5	0.34	0.21	8.57	3.21	10.15	3.10	7.87	5.46	4.20	3.98	2.70	0.70	
6	0.34	0.21	4.90	3.00	6.65	3.32	7.17	4.90	4.20	3.98	2.70	0.66	
7	0.34	0.21	2.50	4.76	5.18	3.65	6.47	4.90	4.20	4.20	2.70	0.66	
8	0.34	0.21	1.38	12.04	5.46	11.83	5.60	7.87	4.20	3.98	2.60	0.66	
9	0.34	0.21	1.06	5.77	5.18	9.31	5.18	16.18	4.09	3.76	2.60	0.66	
10	0.34	0.24	0.94	3.87	3.98	5.32	5.04	11.83	4.09	3.65	2.50	0.64	
11	0.34	0.30	0.94	3.32	3.32	8.22	5.95	13.78	4.09	5.60	2.40	0.64	
12	0.34	0.30	1.78	3.54	3.10	32.57	6.12	14.02	3.98	5.18	2.40	0.64	
13	0.34	0.30	1.12	3.00	3.00	22.23	5.32	10.78	3.98	4.20	2.40	0.64	
14	0.34	0.30	1.12	2.90	3.00	33.56	4.90	8.75	3.87	3.87	2.40	0.62	
15	0.34	0.27	1.00	2.90	3.10	17.14	4.48	7.70	3.76	3.65	2.40	0.60	
16	0.34	0.27	1.06	2.60	3.10	11.62	4.62	7.17	3.76	3.65	2.40	0.60	
17	0.27	0.30	2.30	2.60	3.10	9.52	8.75	6.47	4.62	3.65	2.40	0.60	
18	0.27	0.34	7.87	2.40	3.10	31.25	7.35	5.95	4.76	3.76	2.40	0.58	
19	0.27	0.38	3.54	1.94	3.10	19.47	5.32	5.60	4.48	3.65	2.40	0.58	
20	0.27	0.38	1.30	2.30	3.65	18.37	4.76	5.60	4.20	3.65	2.40	0.58	
21	0.27	0.38	1.06	3.54	4.62	18.10	4.76	5.46	3.98	3.54	2.40	0.58	
22	0.27	0.42	0.94	6.65	3.54	12.46	5.46	5.46	3.87	3.32	2.40	0.58	
23	0.27	0.42	0.82	15.46	8.22	12.67	5.04	5.32	3.76	3.21	2.20	0.56	
24	0.27	0.42	0.82	6.47	3.54	13.78	5.18	5.18	3.65	3.10	2.20	0.56	
25	0.27	0.38	1.06	6.82	5.04	21.95	9.52	5.18	3.65	3.10	2.20	0.56	
26	0.27	0.38	1.62	5.04	4.34	14.74	13.30	5.18	3.65	3.00	2.10	0.56	
27	0.27	0.34	1.94	5.95	3.98	10.99	6.65	5.18	3.65	3.00	0.34	0.56	
28	0.27	0.34	1.70	8.57	5.60	8.57	5.95	5.04	3.65	3.00	0.72	0.56	
29	0.27	0.34	5.60	5.60	5.60	7.70	6.30	4.90	3.54	3.00		0.56	
30	0.30	0.50	32.24	4.62	4.90	6.12	5.77	4.76	3.32	3.00		0.60	
31		0.76		7.70	4.48		5.46		3.54	3.00		0.58	
Total	9.29	10.69	96.54	163.06	141.63	382.71	202.20	213.99	124.80	112.73	65.26	19.12	1542.02 CMSDAY
Mean	0.31	0.34	3.22	5.26	4.57	12.76	6.52	7.13	4.03	3.64	2.33	0.62	4.22 CMS
Max	0.38	0.76	32.24	15.46	10.15	33.56	13.30	16.18	4.76	5.60	2.80	0.70	33.56 CMS
Min	0.27	0.21	0.82	1.94	3.00	3.10	4.48	4.76	3.32	3.00	0.34	0.56	0.21 CMS
Runoff	0.80	0.92	8.34	14.09	12.24	33.07	17.47	18.49	10.78	9.74	5.64	1.65	133.23 MCM

Momentary Peak 83.80 CMS. at 404.95 m. (MSL.) at 02.00 Hours , on Jun 30 , 2016

Runoff Yield 10.86 Liters/Second/Square KM. Momentary Peak Yield 215.420 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

Lat 18 - 35 - 19 N Long 98 - 47 - 58 E

Location : on left bank at Ban Phan Ton.

	Ban Phan Ton	**Amphoe** Mae Wang	**Changwat** Chiang Mai
Drainge Area	491 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+303.244 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+309.244 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

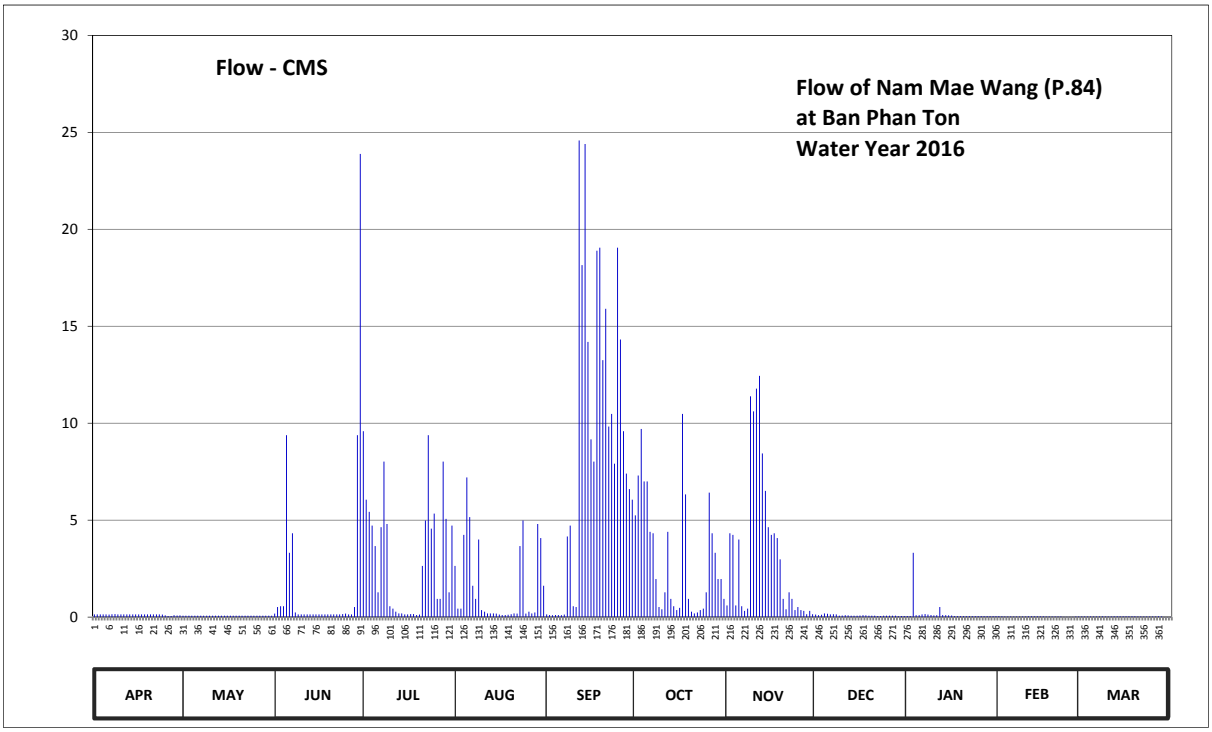
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.34	303.24	303.38	304.19	303.56	303.34	303.75	303.50	303.33	303.22	303.21	303.12	
2	303.34	303.24	303.48	303.84	303.46	303.31	303.97	303.64	303.29	303.23	303.18	303.14	
3	303.34	303.24	303.49	303.77	303.46	303.30	304.20	303.63	303.32	303.58	303.14	303.14	
4	303.34	303.24	303.49	303.69	303.63	303.31	303.94	303.50	303.39	303.29	303.14	303.14	
5	303.34	303.24	304.17	303.59	303.96	303.31	303.94	303.60	303.37	303.30	303.12	303.14	
6	303.33	303.24	303.58	303.52	303.74	303.29	303.65	303.49	303.34	303.34	303.12	303.14	
7	303.35	303.24	303.64	303.68	303.53	303.33	303.64	303.43	303.35	303.36	303.12	303.14	
8	303.36	303.24	303.41	304.04	303.51	303.62	303.54	303.46	303.34	303.33	303.14	303.16	
9	303.34	303.24	303.34	303.70	303.60	303.69	303.48	304.33	303.24	303.31	303.14	303.14	
10	303.34	303.24	303.34	303.49	303.44	303.49	303.45	304.27	303.26	303.27	303.15	303.14	
11	303.34	303.24	303.34	303.46	303.42	303.48	303.52	304.36	303.29	303.29	303.16	303.14	
12	303.34	303.24	303.34	303.42	303.39	305.21	303.65	304.41	303.27	303.48	303.16	303.16	
13	303.34	303.24	303.34	303.39	303.39	304.81	303.51	304.08	303.24	303.31	303.16	303.16	
14	303.34	303.24	303.34	303.39	303.39	305.20	303.49	303.89	303.24	303.29	303.17	303.16	
15	303.34	303.24	303.34	303.34	303.38	304.54	303.44	303.68	303.24	303.28	303.17	303.16	
16	303.34	303.24	303.34	303.34	303.33	304.15	303.47	303.63	303.26	303.26	303.17	303.16	
17	303.34	303.24	303.34	303.36	303.31	304.04	304.26	303.64	303.29	303.21	303.15	303.16	
18	303.34	303.24	303.34	303.36	303.31	304.86	303.87	303.61	303.27	303.21	303.13	303.16	
19	303.34	303.24	303.34	303.31	303.32	304.87	303.51	303.57	303.24	303.21	303.14	303.16	
20	303.34	303.24	303.34	303.33	303.35	304.47	303.42	303.51	303.24	303.21	303.14	303.14	
21	303.34	303.24	303.34	303.56	303.39	304.66	303.39	303.45	303.24	303.21	303.14	303.14	
22	303.34	303.24	303.34	303.72	303.38	304.21	303.41	303.52	303.22	303.21	303.12	303.14	
23	303.34	303.24	303.34	304.17	303.59	304.26	303.44	303.51	303.22	303.21	303.10	303.14	
24	303.33	303.24	303.36	303.67	303.72	304.03	303.46	303.44	303.24	303.19	303.11	303.14	
25	303.28	303.24	303.38	303.76	303.38	304.87	303.52	303.48	303.24	303.20	303.11	303.14	
26	303.23	303.24	303.34	303.51	303.42	304.55	303.88	303.44	303.24	303.19	303.11	303.14	
27	303.22	303.24	303.34	303.51	303.39	304.19	303.64	303.43	303.24	303.21	303.12	303.16	
28	303.30	303.24	303.48	304.04	303.41	303.98	303.58	303.35	303.24	303.21	303.12	303.15	
29	303.26	303.24	304.17	303.73	303.70	303.90	303.54	303.43	303.21	303.21		303.05	
30	303.28	303.24	305.17	303.52	303.61	303.84	303.54	303.35	303.22	303.21		303.04	
31		303.24		303.69	303.53		303.51		303.22	303.21		303.04	
Mean	303.32	303.24	303.50	303.62	303.48	304.07	303.63	303.65	303.27	303.27	303.14	303.14	
Max	303.36	303.24	305.17	304.19	303.96	305.21	304.26	304.41	303.39	303.58	303.21	303.16	305.21
Min	303.22	303.24	303.34	303.31	303.31	303.29	303.39	303.35	303.21	303.19	303.10	303.04	303.04

Annual Max Momentary Gage Height 307.59 m. (MSL.) , at 06.00 Hours , on Jun 30 , 2016

Zero Gage at Bottom Elevation 303.24 m. (MSL.) , River Bed 302.75 m. (MSL.)

Left Bank Elevation 309.08 m. (MSL.) ,

Right Bank Elevation 309.07 m. (MSL.) , Drainage Are 491 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.07	0.18	9.59	2.64	0.14	5.25	0.60	0.13	0.06	0.05	0.03		
2	0.14	0.07	0.52	6.06	0.44	0.11	7.30	4.32	0.10	0.06	0.04	0.03		
3	0.14	0.07	0.56	5.43	0.44	0.10	9.70	4.24	0.12	3.32	0.03	0.03		
4	0.14	0.07	0.56	4.72	4.24	0.11	7.00	0.60	0.19	0.10	0.03	0.03		
5	0.14	0.07	9.38	3.66	7.20	0.11	7.00	4.00	0.17	0.10	0.03	0.03		
6	0.13	0.07	3.32	1.28	5.16	0.10	4.40	0.56	0.14	0.14	0.03	0.03		
7	0.15	0.07	4.32	4.64	1.62	0.13	4.32	0.32	0.15	0.16	0.03	0.03		
8	0.16	0.07	0.24	8.02	0.94	4.16	1.96	0.44	0.14	0.13	0.03	0.04		
9	0.14	0.07	0.14	4.80	4.00	4.72	0.52	11.39	0.07	0.11	0.03	0.03		
10	0.14	0.07	0.14	0.56	0.36	0.56	0.40	10.61	0.08	0.09	0.03	0.03		
11	0.14	0.07	0.14	0.44	0.28	0.52	1.28	11.78	0.10	0.10	0.04	0.03		
12	0.14	0.07	0.14	0.28	0.19	24.58	4.40	12.44	0.09	0.52	0.04	0.04		
13	0.14	0.07	0.14	0.19	0.19	18.15	0.94	8.44	0.07	0.11	0.04	0.04		
14	0.14	0.07	0.14	0.19	0.19	24.40	0.56	6.51	0.07	0.10	0.04	0.04		
15	0.14	0.07	0.14	0.14	0.18	14.19	0.36	4.64	0.07	0.09	0.04	0.04		
16	0.14	0.07	0.14	0.14	0.13	9.17	0.48	4.24	0.08	0.08	0.04	0.04		
17	0.14	0.07	0.14	0.16	0.11	8.02	10.48	4.32	0.10	0.05	0.03	0.04		
18	0.14	0.07	0.14	0.16	0.11	18.90	6.33	4.08	0.09	0.05	0.03	0.04		
19	0.14	0.07	0.14	0.11	0.12	19.05	0.94	2.98	0.07	0.05	0.03	0.04		
20	0.14	0.07	0.14	0.13	0.15	13.25	0.28	0.94	0.07	0.05	0.03	0.03		
21	0.14	0.07	0.14	2.64	0.19	15.90	0.19	0.40	0.07	0.05	0.03	0.03		
22	0.14	0.07	0.14	4.98	0.18	9.83	0.24	1.28	0.06	0.05	0.03	0.03		
23	0.14	0.07	0.14	9.38	3.66	10.48	0.36	0.94	0.06	0.05	0.02	0.03		
24	0.13	0.07	0.16	4.56	4.98	7.91	0.44	0.36	0.07	0.05	0.02	0.03		
25	0.09	0.07	0.18	5.34	0.18	19.05	1.28	0.52	0.07	0.05	0.02	0.03		
26	0.06	0.07	0.14	0.94	0.28	14.32	6.42	0.36	0.07	0.05	0.02	0.03		
27	0.06	0.07	0.14	0.94	0.19	9.59	4.32	0.32	0.07	0.05	0.03	0.04		
28	0.10	0.07	0.52	8.02	0.24	7.40	3.32	0.15	0.07	0.05	0.03	0.03		
29	0.08	0.07	9.38	5.07	4.80	6.60	1.96	0.32	0.05	0.05		0.01		
30	0.09	0.07	23.89	1.28	4.08	6.06	1.96	0.15	0.06	0.05		0.01		
31		0.07		4.72	1.62		0.94		0.06	0.05		0.01		
Total	3.85	2.17	55.59	98.57	49.09	267.61	95.33	102.25	2.81	6.02	0.89	0.97	685.15	CMSDAY
Mean	0.13	0.07	1.85	3.18	1.58	8.92	3.08	3.41	0.09	0.19	0.03	0.03	1.88	CMS
Max	0.16	0.07	23.89	9.59	7.20	24.58	10.48	12.44	0.19	3.32	0.05	0.04	24.58	CMS
Min	0.06	0.07	0.14	0.11	0.11	0.10	0.19	0.15	0.05	0.05	0.02	0.01	0.01	CMS
Runoff	0.33	0.19	4.80	8.52	4.24	23.12	8.24	8.83	0.24	0.52	0.08	0.08	59.20	MCM

Momentary Peak 77.74 CMS. at 307.59 m. (MSL.) at 06.00 Hours , on Jun 30 , 2016

Runoff Yield 3.73 Liters/Second/Square KM. Momentary Peak Yield 154.510 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

Lat 18 - 21 - 49 N Long 98 - 46 - 31 E

Location : on right bank at Ban Lai Khaeo.

	Ban Lai Khaeo	**Amphoe** Ban Hong	**Changwat** Lamphun
Drainge Area	2,037 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+290.368 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+295.123 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable because of back water effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

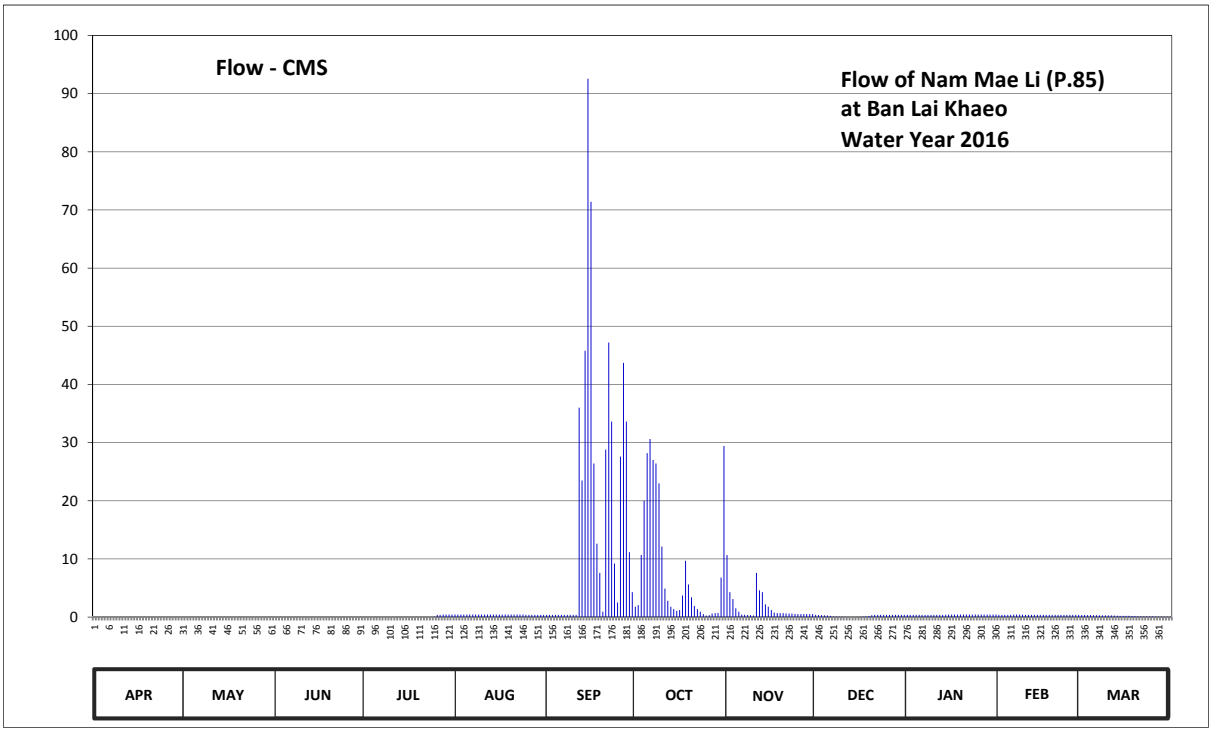
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.87	288.45	288.38	288.31	289.91	289.87	290.07	290.33	289.89	289.89	289.89	289.85	
2	288.87	288.42	288.42	288.31	289.91	289.87	290.09	290.17	289.85	289.89	289.89	289.85	
3	288.85	288.41	288.41	288.31	289.91	289.87	290.33	290.13	289.84	289.89	289.88	289.85	
4	288.77	288.41	288.41	288.31	289.91	289.87	290.52	290.05	289.80	289.89	289.87	289.85	
5	288.77	288.41	288.41	288.31	289.91	289.87	290.67	290.01	289.77	289.89	289.88	289.84	
6	288.77	288.41	288.41	288.31	289.91	289.89	290.71	289.91	289.71	289.89	289.91	289.82	
7	288.77	288.39	288.41	288.31	289.91	289.89	290.65	289.90	289.57	289.89	289.91	289.80	
8	288.77	288.37	288.37	288.31	289.91	289.89	290.64	289.89	289.55	289.89	289.91	289.79	
9	288.77	288.37	288.34	288.31	289.91	289.89	290.58	289.82	289.50	289.89	289.90	289.79	
10	288.77	288.37	288.37	288.31	289.91	289.89	290.36	289.76	289.45	289.89	289.89	289.79	
11	288.77	288.37	288.37	288.31	289.91	289.89	290.19	290.26	289.32	289.89	289.89	289.79	
12	288.77	288.35	288.35	288.31	289.91	290.80	290.12	290.18	289.16	289.89	289.89	289.77	
13	288.77	288.30	288.29	288.31	289.91	290.59	290.07	290.17	289.12	289.89	289.89	289.74	
14	288.77	288.29	288.29	288.31	289.91	290.94	290.04	290.10	289.17	289.90	289.89	289.73	
15	288.77	288.34	288.34	288.31	289.91	291.49	290.02	290.07	289.37	289.91	289.89	289.73	
16	288.77	288.31	288.31	288.31	289.91	291.26	290.03	290.03	289.41	289.91	289.89	289.72	
17	288.77	288.31	288.31	288.31	289.91	290.64	290.15	289.99	289.55	289.91	289.89	289.72	
18	288.77	288.31	288.31	288.31	289.91	290.37	290.31	289.97	289.62	289.91	289.89	289.70	
19	288.77	288.31	288.31	288.31	289.91	290.26	290.21	289.97	289.68	289.91	289.89	289.67	
20	288.77	288.31	288.31	288.31	289.91	290.01	290.14	289.97	289.82	289.91	289.88	289.64	
21	288.71	288.31	288.31	288.31	289.91	290.68	290.08	289.96	289.87	289.91	289.87	289.62	
22	288.57	288.31	288.31	288.31	289.91	290.96	290.04	289.95	289.87	289.91	289.87	289.62	
23	288.57	288.31	288.31	288.61	289.91	290.76	290.01	289.95	289.87	289.91	289.87	289.62	
24	288.57	288.31	288.31	289.08	289.91	290.30	289.93	289.94	289.87	289.91	289.87	289.62	
25	288.57	288.31	288.31	289.52	289.88	290.11	289.77	289.93	289.87	289.91	289.87	289.60	
26	288.57	288.31	288.31	289.87	289.87	290.66	289.82	289.93	289.87	289.91	289.87	289.57	
27	288.57	288.31	288.31	289.89	289.87	290.91	289.95	289.93	289.88	289.91	289.87	289.56	
28	288.54	288.31	288.31	289.91	289.87	290.76	289.97	289.93	289.89	289.91	289.87	289.54	
29	288.49	288.31	288.31	289.91	289.87	290.34	289.98	289.93	289.89	289.91		289.51	
30	288.47	288.31	288.31	289.91	289.87	290.17	290.24	289.93	289.89	289.91		289.48	
31		288.31		289.91	289.87		290.69		289.89	289.91		289.47	
Mean	288.71	288.34	288.34	288.69	289.90	290.36	290.21	290.00	289.67	289.90	289.88	289.70	
Max	288.87	288.45	288.42	289.91	289.91	291.49	290.71	290.33	289.89	289.91	289.91	289.85	291.49
Min	288.47	288.29	288.29	288.31	289.87	289.87	289.77	289.76	289.12	289.89	289.87	289.47	288.29

Annual Max Momentary Gage Height 291.63 m. (MSL.) , at 19.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 290.37 m. (MSL.) , River Bed 287.87 m. (MSL.)

Left Bank Elevation 295.41 m. (MSL.) ,

Right Bank Elevation 295.35 m. (MSL.) , Drainage Are 2,037 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.44	0.37	1.78	10.67	0.39	0.39	0.39	0.35	
2	0.00	0.00	0.00	0.00	0.44	0.37	2.06	4.30	0.35	0.39	0.39	0.35	
3	0.00	0.00	0.00	0.00	0.44	0.37	10.67	3.10	0.34	0.39	0.38	0.35	
4	0.00	0.00	0.00	0.00	0.44	0.37	20.00	1.50	0.30	0.39	0.37	0.35	
5	0.00	0.00	0.00	0.00	0.44	0.37	28.20	0.94	0.27	0.39	0.38	0.34	
6	0.00	0.00	0.00	0.00	0.44	0.39	30.60	0.44	0.21	0.39	0.44	0.32	
7	0.00	0.00	0.00	0.00	0.44	0.39	27.00	0.40	0.08	0.39	0.44	0.30	
8	0.00	0.00	0.00	0.00	0.44	0.39	26.40	0.39	0.07	0.39	0.44	0.29	
9	0.00	0.00	0.00	0.00	0.44	0.39	23.00	0.32	0.05	0.39	0.40	0.29	
10	0.00	0.00	0.00	0.00	0.44	0.39	12.14	0.26	0.04	0.39	0.39	0.29	
11	0.00	0.00	0.00	0.00	0.44	0.39	4.90	7.60	0.02	0.39	0.39	0.29	
12	0.00	0.00	0.00	0.00	0.44	36.00	2.80	4.60	0.01	0.39	0.39	0.27	
13	0.00	0.00	0.00	0.00	0.44	23.50	1.78	4.30	0.00	0.39	0.39	0.24	
14	0.00	0.00	0.00	0.00	0.44	45.80	1.36	2.20	0.01	0.40	0.39	0.23	
15	0.00	0.00	0.00	0.00	0.44	92.55	1.08	1.78	0.03	0.44	0.39	0.23	
16	0.00	0.00	0.00	0.00	0.44	71.40	1.22	1.22	0.03	0.44	0.39	0.22	
17	0.00	0.00	0.00	0.00	0.44	26.40	3.70	0.76	0.07	0.44	0.39	0.22	
18	0.00	0.00	0.00	0.00	0.44	12.63	9.69	0.68	0.12	0.44	0.39	0.20	
19	0.00	0.00	0.00	0.00	0.44	7.60	5.60	0.68	0.18	0.44	0.39	0.17	
20	0.00	0.00	0.00	0.00	0.44	0.94	3.40	0.68	0.32	0.44	0.38	0.14	
21	0.00	0.00	0.00	0.00	0.44	28.80	1.92	0.64	0.37	0.44	0.37	0.12	
22	0.00	0.00	0.00	0.00	0.44	47.20	1.36	0.60	0.37	0.44	0.37	0.12	
23	0.00	0.00	0.00	0.00	0.44	33.60	0.94	0.60	0.37	0.44	0.37	0.12	
24	0.00	0.00	0.00	0.00	0.44	9.20	0.52	0.56	0.37	0.44	0.37	0.12	
25	0.00	0.00	0.00	0.06	0.38	2.50	0.27	0.52	0.37	0.44	0.37	0.10	
26	0.00	0.00	0.00	0.37	0.37	27.60	0.32	0.52	0.37	0.44	0.37	0.08	
27	0.00	0.00	0.00	0.39	0.37	43.70	0.60	0.52	0.38	0.44	0.37	0.08	
28	0.00	0.00	0.00	0.44	0.37	33.60	0.68	0.52	0.39	0.44	0.37	0.07	
29	0.00	0.00	0.00	0.44	0.37	11.16	0.72	0.52	0.39	0.44		0.05	
30	0.00	0.00	0.00	0.44	0.37	4.30	6.80	0.52	0.39	0.44		0.05	
31		0.00		0.44	0.37		29.40		0.39	0.44		0.04	
Total	0.00	0.00	0.00	2.58	13.16	562.67	260.91	52.34	7.05	12.95	10.87	6.39	928.92 CMSDAY
Mean	0.00	0.00	0.00	0.08	0.42	18.76	8.42	1.74	0.23	0.42	0.39	0.21	2.54 CMS
Max	0.00	0.00	0.00	0.44	0.44	92.55	30.60	10.67	0.39	0.44	0.44	0.35	92.55 CMS
Min	0.00	0.00	0.00	0.00	0.37	0.37	0.27	0.26	0.00	0.39	0.37	0.04	0.00 CMS
Runoff	0.00	0.00	0.00	0.22	1.14	48.61	22.54	4.52	0.61	1.12	0.94	0.55	80.26 MCM

Momentary Peak 106.30 CMS. at 291.63 m. (MSL.) at 19.00 Hours , on Sep 15 , 2016

Runoff Yield 1.24 Liters/Second/Square KM. Momentary Peak Yield 51.800 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban Hong	**Amphoe** San Kamphaeng	**Changwat** Chiang Mai
Drainge Area	98 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+341.205 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+345.535 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

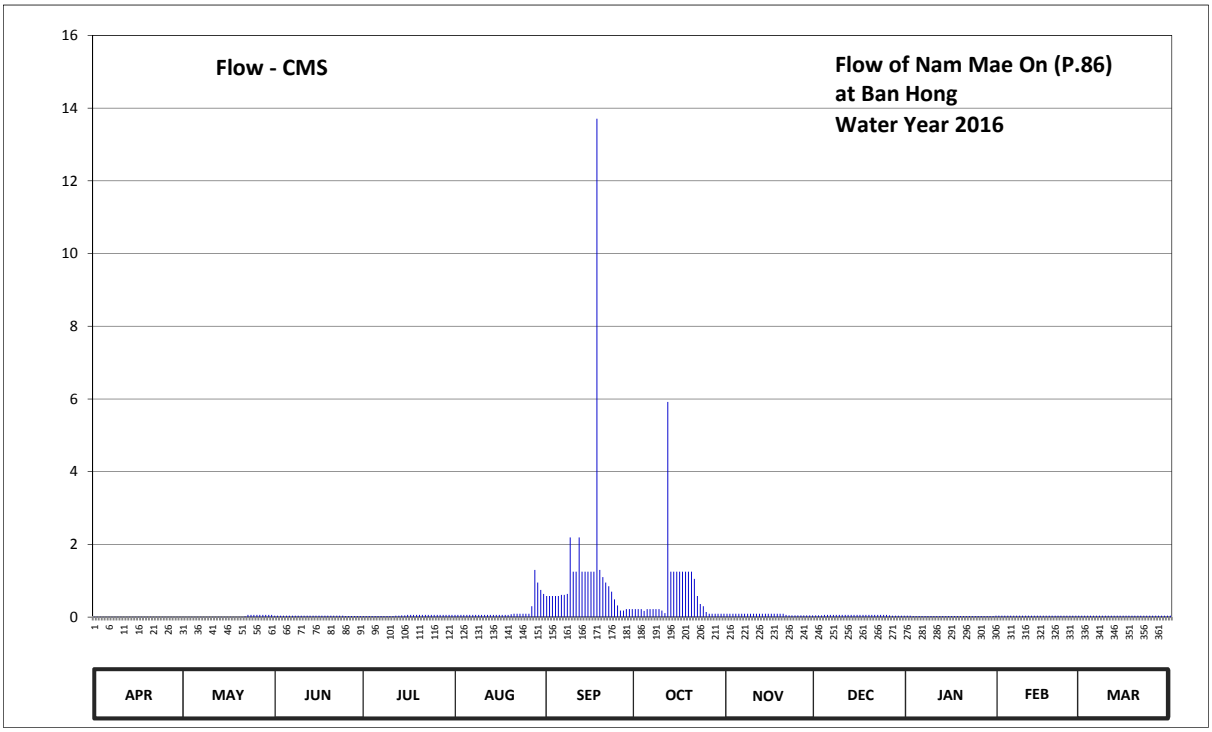
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.92	340.92	340.98	340.95	341.01	341.26	341.11	341.03	340.99	340.97	340.97	340.97	
2	340.92	340.92	340.98	340.95	341.01	341.26	341.11	341.03	340.99	340.97	340.97	340.97	
3	340.92	340.92	340.98	340.95	341.01	341.26	341.11	341.03	341.00	340.96	340.97	340.97	
4	340.92	340.92	340.98	340.95	341.01	341.26	341.08	341.03	341.01	340.96	340.97	340.97	
5	340.92	340.92	340.98	340.95	341.01	341.26	341.11	341.03	341.01	340.96	340.97	340.97	
6	340.92	340.92	340.98	340.95	341.01	341.27	341.11	341.03	341.01	340.96	340.97	340.97	
7	340.92	340.92	340.98	340.95	341.01	341.27	341.11	341.03	341.01	340.96	340.97	340.97	
8	340.92	340.92	340.98	340.95	341.01	341.28	341.11	341.03	341.01	340.96	340.97	340.97	
9	340.92	340.92	340.98	340.95	341.01	341.57	341.11	341.03	341.01	340.96	340.97	340.97	
10	340.92	340.92	340.98	340.95	341.01	341.41	341.09	341.03	341.01	340.96	340.97	340.97	
11	340.92	340.92	340.98	340.96	341.01	341.41	341.04	341.03	341.01	340.96	340.97	340.97	
12	340.92	340.92	340.98	340.97	341.01	341.57	341.96	341.03	341.01	340.96	340.97	340.97	
13	340.92	340.92	340.98	340.98	341.01	341.41	341.41	341.03	341.01	340.96	340.97	340.97	
14	340.92	340.92	340.98	340.99	341.01	341.41	341.41	341.03	341.01	340.96	340.97	340.97	
15	340.92	340.92	340.98	341.00	341.01	341.41	341.41	341.03	341.01	340.96	340.97	340.97	
16	340.92	340.92	340.98	341.01	341.01	341.41	341.41	341.03	341.01	340.96	340.97	340.97	
17	340.92	340.92	340.98	341.01	341.01	341.41	341.41	341.03	341.01	340.96	340.97	340.97	
18	340.92	340.92	340.98	341.01	341.01	342.46	341.41	341.03	341.01	340.96	340.97	340.97	
19	340.92	340.92	340.98	341.01	341.01	341.42	341.41	341.03	341.01	340.96	340.97	340.97	
20	340.92	340.92	340.98	341.01	341.02	341.38	341.41	341.03	341.01	340.96	340.97	340.97	
21	340.92	340.92	340.98	341.01	341.03	341.35	341.37	341.01	341.01	340.96	340.97	340.97	
22	340.92	340.94	340.97	341.01	341.03	341.33	341.26	341.00	341.01	340.96	340.97	340.97	
23	340.92	341.01	340.97	341.01	341.03	341.30	341.18	340.99	341.01	340.96	340.97	340.97	
24	340.92	341.01	340.97	341.01	341.03	341.23	341.15	340.99	341.01	340.96	340.97	340.97	
25	340.92	341.01	340.96	341.01	341.03	341.16	341.06	340.99	341.01	340.96	340.97	340.97	
26	340.92	341.01	340.96	341.01	341.03	341.09	341.03	340.99	340.99	340.96	340.97	340.97	
27	340.92	341.01	340.96	341.01	341.15	341.09	341.03	340.99	340.97	340.96	340.97	340.97	
28	340.92	341.01	340.95	341.01	341.42	341.11	341.03	340.99	340.97	340.96	340.97	340.97	
29	340.92	341.01	340.95	341.01	341.35	341.11	341.03	340.99	340.97	340.96		340.97	
30	340.92	341.01	340.95	341.01	341.31	341.11	341.03	340.99	340.97	340.96		340.97	
31		341.01		341.01	341.28		341.03		340.97	340.97		340.97	
Mean	340.92	340.95	340.97	340.99	341.06	341.34	341.21	341.02	341.00	340.96	340.97	340.97	
Max	340.92	341.01	340.98	341.01	341.42	342.46	341.96	341.03	341.01	340.97	340.97	340.97	342.46
Min	340.92	340.92	340.95	340.95	341.01	341.09	341.03	340.99	340.97	340.96	340.97	340.97	340.92

Annual Max Momentary Gage Height 344.59 m. (MSL.) , at 11.00 Hours , on Sep 18 , 2016

Zero Gage at Bottom Elevation 341.21 m. (MSL.) , River Bed 340.71 m. (MSL.)

Left Bank Elevation 345.43 m. (MSL.) ,

Right Bank Elevation 345.35 m. (MSL.) , Drainage Are 98 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	0.01	0.04	0.03	0.06	0.58	0.22	0.09	0.05	0.04	0.04	0.04		
2	0.01	0.01	0.04	0.03	0.06	0.58	0.22	0.09	0.05	0.04	0.04	0.04		
3	0.01	0.01	0.04	0.03	0.06	0.58	0.22	0.09	0.05	0.03	0.04	0.04		
4	0.01	0.01	0.04	0.03	0.06	0.58	0.17	0.09	0.06	0.03	0.04	0.04		
5	0.01	0.01	0.04	0.03	0.06	0.58	0.22	0.09	0.06	0.03	0.04	0.04		
6	0.01	0.01	0.04	0.03	0.06	0.61	0.22	0.09	0.06	0.03	0.04	0.04		
7	0.01	0.01	0.04	0.03	0.06	0.61	0.22	0.09	0.06	0.03	0.04	0.04		
8	0.01	0.01	0.04	0.03	0.06	0.64	0.22	0.09	0.06	0.03	0.04	0.04		
9	0.01	0.01	0.04	0.03	0.06	2.19	0.22	0.09	0.06	0.03	0.04	0.04		
10	0.01	0.01	0.04	0.03	0.06	1.25	0.18	0.09	0.06	0.03	0.04	0.04		
11	0.01	0.01	0.04	0.03	0.06	1.25	0.11	0.09	0.06	0.03	0.04	0.04		
12	0.01	0.01	0.04	0.04	0.06	2.19	5.92	0.09	0.06	0.03	0.04	0.04		
13	0.01	0.01	0.04	0.04	0.06	1.25	1.25	0.09	0.06	0.03	0.04	0.04		
14	0.01	0.01	0.04	0.05	0.06	1.25	1.25	0.09	0.06	0.03	0.04	0.04		
15	0.01	0.01	0.04	0.05	0.06	1.25	1.25	0.09	0.06	0.03	0.04	0.04		
16	0.01	0.01	0.04	0.06	0.06	1.25	1.25	0.09	0.06	0.03	0.04	0.04		
17	0.01	0.01	0.04	0.06	0.06	1.25	1.25	0.09	0.06	0.03	0.04	0.04		
18	0.01	0.01	0.04	0.06	0.06	13.71	1.25	0.09	0.06	0.03	0.04	0.04		
19	0.01	0.01	0.04	0.06	0.06	1.30	1.25	0.09	0.06	0.03	0.04	0.04		
20	0.01	0.01	0.04	0.06	0.08	1.10	1.25	0.09	0.06	0.03	0.04	0.04		
21	0.01	0.01	0.04	0.06	0.09	0.95	1.05	0.06	0.06	0.03	0.04	0.04		
22	0.01	0.02	0.04	0.06	0.09	0.85	0.58	0.05	0.06	0.03	0.04	0.04		
23	0.01	0.06	0.04	0.06	0.09	0.70	0.36	0.05	0.06	0.03	0.04	0.04		
24	0.01	0.06	0.04	0.06	0.09	0.49	0.30	0.05	0.06	0.03	0.04	0.04		
25	0.01	0.06	0.03	0.06	0.09	0.32	0.14	0.05	0.06	0.03	0.04	0.04		
26	0.01	0.06	0.03	0.06	0.09	0.18	0.09	0.05	0.05	0.03	0.04	0.04		
27	0.01	0.06	0.03	0.06	0.30	0.18	0.09	0.05	0.04	0.03	0.04	0.04		
28	0.01	0.06	0.03	0.06	1.30	0.22	0.09	0.05	0.04	0.03	0.04	0.04		
29	0.01	0.06	0.03	0.06	0.95	0.22	0.09	0.05	0.04	0.03		0.04		
30	0.01	0.06	0.03	0.06	0.75	0.22	0.09	0.05	0.04	0.03		0.04		
31		0.06		0.06	0.64		0.09		0.04	0.04		0.04		
Total	0.30	0.77	1.14	1.47	5.70	38.33	21.11	2.31	1.72	0.96	1.12	1.24	76.17	CMSDAY
Mean	0.01	0.02	0.04	0.05	0.18	1.28	0.68	0.08	0.06	0.03	0.04	0.04	0.21	CMS
Max	0.01	0.06	0.04	0.06	1.30	13.71	5.92	0.09	0.06	0.04	0.04	0.04	13.71	CMS
Min	0.01	0.01	0.03	0.03	0.06	0.18	0.09	0.05	0.04	0.03	0.04	0.04	0.01	CMS
Runoff	0.03	0.07	0.10	0.13	0.49	3.31	1.82	0.20	0.15	0.08	0.10	0.11	6.58	MCM

Momentary Peak 91.26 CMS. at 344.59 m. (MSL.) at 11.00 Hours , on Sep 18 , 2016

Runoff Yield 2.13 Liters/Second/Square KM. Momentary Peak Yield 931.220 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at Ban Pa Cang Noy.

	Ban Pa Cang Noy	**Amphoe** Pa Cang	**Changwat** Lamphun
Drainge Area	934 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+288.954 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +293.954 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +293.990 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

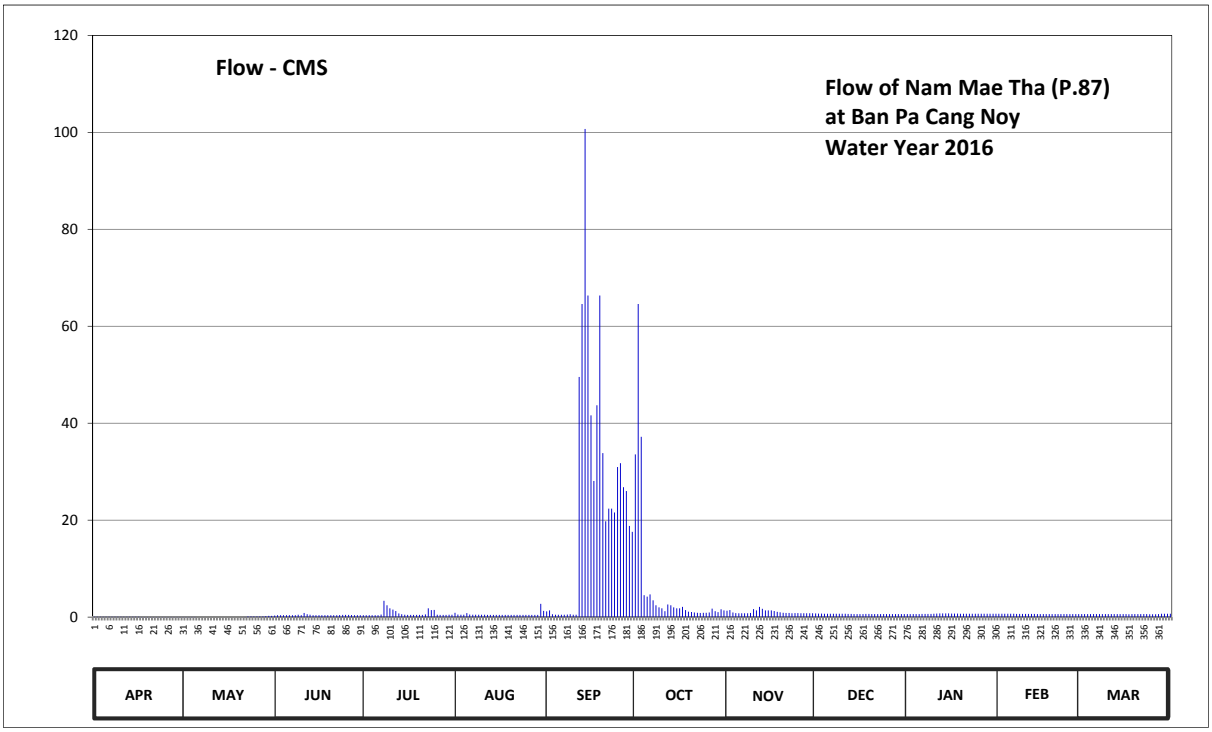
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.03	289.01	289.16	289.20	289.45	289.59	290.56	289.66	289.38	289.31	289.34	289.32	
2	289.03	289.01	289.20	289.20	289.27	289.69	291.56	289.73	289.37	289.31	289.34	289.32	
3	289.03	289.01	289.20	289.20	289.25	289.30	290.70	289.47	289.36	289.32	289.34	289.32	
4	289.03	289.01	289.20	289.20	289.25	289.25	290.86	289.41	289.35	289.32	289.34	289.32	
5	289.03	289.01	289.20	289.20	289.41	289.25	290.78	289.40	289.35	289.32	289.34	289.32	
6	289.03	289.00	289.20	289.20	289.26	289.25	290.91	289.40	289.34	289.33	289.34	289.32	
7	289.03	289.00	289.20	289.27	289.25	289.25	290.55	289.40	289.34	289.33	289.33	289.31	
8	289.03	289.00	289.20	290.52	289.25	289.27	290.17	289.40	289.34	289.33	289.33	289.31	
9	289.03	289.00	289.25	290.18	289.25	289.29	290.00	289.42	289.34	289.33	289.33	289.31	
10	289.03	289.00	289.20	289.90	289.25	289.25	289.90	289.82	289.34	289.34	289.33	289.31	
11	289.03	289.00	289.43	289.78	289.24	289.25	289.61	289.70	289.34	289.36	289.33	289.31	
12	289.03	289.00	289.29	289.63	289.23	291.13	290.24	290.04	289.33	289.38	289.33	289.31	
13	289.03	289.00	289.24	289.38	289.23	291.56	290.18	289.85	289.33	289.38	289.33	289.31	
14	289.03	289.00	289.20	289.29	289.23	292.45	290.00	289.70	289.32	289.38	289.32	289.31	
15	289.03	289.00	289.20	289.25	289.23	291.61	289.90	289.70	289.31	289.38	289.32	289.31	
16	289.03	289.00	289.20	289.23	289.23	290.87	289.91	289.69	289.31	289.37	289.32	289.31	
17	289.02	289.00	289.20	289.23	289.23	290.35	290.04	289.63	289.32	289.37	289.32	289.30	
18	289.02	289.00	289.20	289.23	289.23	290.95	289.72	289.55	289.33	289.36	289.32	289.31	
19	289.02	289.00	289.20	289.23	289.23	291.61	289.56	289.50	289.33	289.35	289.32	289.31	
20	289.02	289.00	289.20	289.23	289.23	290.57	289.53	289.45	289.32	289.35	289.32	289.31	
21	289.02	289.00	289.20	289.23	289.23	290.03	289.47	289.43	289.32	289.35	289.32	289.31	
22	289.02	289.02	289.20	289.28	289.23	290.13	289.45	289.42	289.32	289.35	289.32	289.31	
23	289.02	289.07	289.21	289.90	289.23	290.13	289.43	289.40	289.32	289.35	289.32	289.31	
24	289.02	289.07	289.23	289.72	289.23	290.10	289.44	289.41	289.32	289.35	289.32	289.30	
25	289.01	289.07	289.23	289.74	289.23	290.46	289.45	289.41	289.32	289.35	289.32	289.30	
26	289.01	289.07	289.23	289.24	289.23	290.49	289.47	289.40	289.32	289.35	289.32	289.30	
27	289.01	289.07	289.22	289.23	289.23	290.30	289.87	289.39	289.32	289.35	289.31	289.32	
28	289.01	289.07	289.20	289.23	289.23	290.27	289.61	289.39	289.32	289.35	289.32	289.35	
29	289.01	289.09	289.20	289.23	289.23	289.99	289.51	289.39	289.32	289.35		289.35	
30	289.01	289.13	289.20	289.25	290.29	289.93	289.80	289.39	289.31	289.34		289.35	
31		289.13		289.25	289.64		289.70		289.31	289.34		289.35	
Mean	289.02	289.03	289.22	289.41	289.30	290.19	290.00	289.53	289.33	289.35	289.33	289.32	
Max	289.03	289.13	289.43	290.52	290.29	292.45	291.56	290.04	289.38	289.38	289.34	289.35	292.45
Min	289.01	289.00	289.16	289.20	289.23	289.25	289.43	289.39	289.31	289.31	289.31	289.30	289.00

Annual Max Momentary Gage Height 294.10 m. (MSL.) , at 12.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 288.95 m. (MSL.) , River Bed 288.58 m. (MSL.)

Left Bank Elevation 293.99 m. (MSL.) ,

Right Bank Elevation 293.99 m. (MSL.) , Drainage Are 934 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.02	0.32	0.40	0.90	1.18	33.56	1.32	0.76	0.62	0.68	0.64		
2	0.06	0.02	0.40	0.40	0.54	1.38	64.60	1.46	0.74	0.62	0.68	0.64		
3	0.06	0.02	0.40	0.40	0.50	0.60	37.20	0.94	0.72	0.64	0.68	0.64		
4	0.06	0.02	0.40	0.40	0.50	0.50	4.51	0.82	0.70	0.64	0.68	0.64		
5	0.06	0.02	0.40	0.40	0.82	0.50	4.23	0.80	0.70	0.64	0.68	0.64		
6	0.06	0.00	0.40	0.40	0.52	0.50	4.68	0.80	0.68	0.66	0.68	0.64		
7	0.06	0.00	0.40	0.54	0.50	0.50	3.45	0.80	0.68	0.66	0.66	0.62		
8	0.06	0.00	0.40	3.36	0.50	0.54	2.43	0.80	0.68	0.66	0.66	0.62		
9	0.06	0.00	0.50	2.45	0.50	0.58	2.00	0.84	0.68	0.66	0.66	0.62		
10	0.06	0.00	0.40	1.80	0.50	0.50	1.80	1.64	0.68	0.68	0.66	0.62		
11	0.06	0.00	0.86	1.56	0.48	0.50	1.22	1.40	0.68	0.72	0.66	0.62		
12	0.06	0.00	0.58	1.26	0.46	49.55	2.60	2.10	0.66	0.76	0.66	0.62		
13	0.06	0.00	0.48	0.76	0.46	64.60	2.45	1.70	0.66	0.76	0.66	0.62		
14	0.06	0.00	0.40	0.58	0.46	100.70	2.00	1.40	0.64	0.76	0.64	0.62		
15	0.06	0.00	0.40	0.50	0.46	66.35	1.80	1.40	0.62	0.76	0.64	0.62		
16	0.06	0.00	0.40	0.46	0.46	41.62	1.82	1.38	0.62	0.74	0.64	0.62		
17	0.04	0.00	0.40	0.46	0.46	28.10	2.10	1.26	0.64	0.74	0.64	0.60		
18	0.04	0.00	0.40	0.46	0.46	43.70	1.44	1.10	0.66	0.72	0.64	0.62		
19	0.04	0.00	0.40	0.46	0.46	66.35	1.12	1.00	0.66	0.70	0.64	0.62		
20	0.04	0.00	0.40	0.46	0.46	33.82	1.06	0.90	0.64	0.70	0.64	0.62		
21	0.04	0.00	0.40	0.46	0.46	19.78	0.94	0.86	0.64	0.70	0.64	0.62		
22	0.04	0.04	0.40	0.56	0.46	22.38	0.90	0.84	0.64	0.70	0.64	0.62		
23	0.04	0.14	0.42	1.80	0.46	22.38	0.86	0.80	0.64	0.70	0.64	0.62		
24	0.04	0.14	0.46	1.44	0.46	21.60	0.88	0.82	0.64	0.70	0.64	0.60		
25	0.02	0.14	0.46	1.48	0.46	30.96	0.90	0.82	0.64	0.70	0.64	0.60		
26	0.02	0.14	0.46	0.48	0.46	31.74	0.94	0.80	0.64	0.70	0.64	0.60		
27	0.02	0.14	0.44	0.46	0.46	26.80	1.74	0.78	0.64	0.70	0.62	0.64		
28	0.02	0.14	0.40	0.46	0.46	26.02	1.22	0.78	0.64	0.70	0.64	0.70		
29	0.02	0.18	0.40	0.46	0.46	18.80	1.02	0.78	0.64	0.70		0.70		
30	0.02	0.26	0.40	0.50	2.73	17.60	1.60	0.78	0.62	0.68		0.70		
31		0.26		0.50	1.28		1.40		0.62	0.68		0.70		
Total	1.40	1.68	12.98	26.11	18.55	740.13	188.47	31.92	20.50	21.50	18.28	19.60	1101.12	CMSDAY
Mean	0.05	0.05	0.43	0.84	0.60	24.67	6.08	1.06	0.66	0.69	0.65	0.63	3.02	CMS
Max	0.06	0.26	0.86	3.36	2.73	100.70	64.60	2.10	0.76	0.76	0.68	0.70	100.70	CMS
Min	0.02	0.00	0.32	0.40	0.46	0.50	0.86	0.78	0.62	0.62	0.62	0.60	0.00	CMS
Runoff	0.12	0.15	1.12	2.26	1.60	63.95	16.28	2.76	1.77	1.86	1.58	1.69	95.14	MCM

Momentary Peak 189.00 CMS. at 294.10 m. (MSL.) at 12.00 Hours , on Sep 14 , 2016

Runoff Yield 3.23 Liters/Second/Square KM. Momentary Peak Yield 202.360 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban San Pu Loei	**Amphoe** Phrao	**Changwat** Chiang Mai
Drainge Area	234 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+413.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+419.380 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

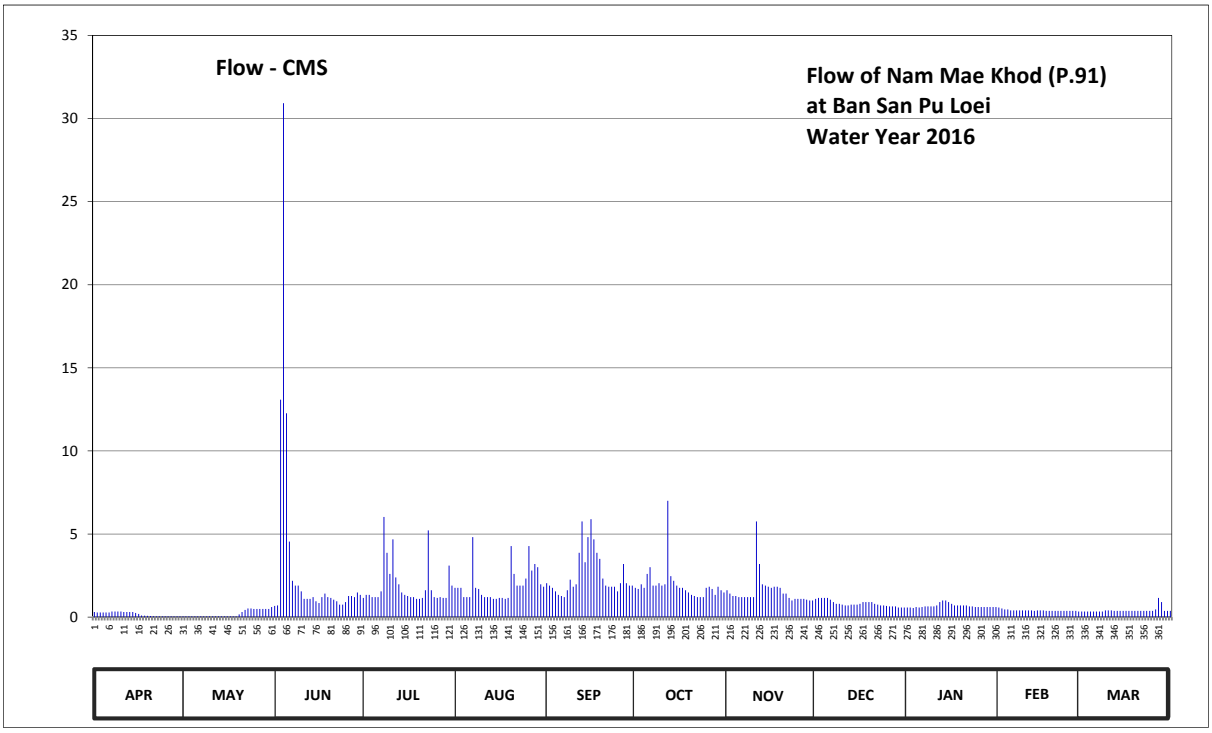
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	413.47	413.30	413.59	413.69	413.78	413.82	413.78	413.76	413.68	413.56	413.56	413.48	
2	413.46	413.30	413.60	413.72	413.78	413.80	413.77	413.73	413.69	413.56	413.54	413.48	
3	413.46	413.30	414.56	413.72	413.78	413.78	413.81	413.71	413.69	413.55	413.52	413.48	
4	413.46	413.30	415.17	413.70	413.70	413.75	413.78	413.71	413.69	413.57	413.52	413.48	
5	413.46	413.30	414.52	413.70	413.70	413.72	413.90	413.70	413.69	413.56	413.50	413.48	
6	413.46	413.30	414.07	413.70	413.70	413.71	413.94	413.70	413.67	413.57	413.50	413.48	
7	413.48	413.30	413.84	413.75	414.09	413.70	413.80	413.70	413.64	413.58	413.50	413.48	
8	413.48	413.30	413.80	414.18	413.78	413.76	413.80	413.70	413.62	413.58	413.50	413.48	
9	413.48	413.30	413.80	414.02	413.77	413.85	413.82	413.70	413.62	413.58	413.50	413.50	
10	413.48	413.30	413.75	413.90	413.72	413.79	413.80	413.70	413.61	413.58	413.50	413.50	
11	413.47	413.30	413.68	414.08	413.70	413.81	413.81	414.16	413.60	413.60	413.50	413.50	
12	413.47	413.30	413.68	413.87	413.70	414.02	414.24	413.96	413.60	413.64	413.50	413.49	
13	413.47	413.30	413.68	413.81	413.70	414.16	413.88	413.81	413.61	413.66	413.49	413.49	
14	413.47	413.30	413.70	413.74	413.68	413.97	413.84	413.80	413.61	413.66	413.50	413.49	
15	413.45	413.30	413.65	413.72	413.68	414.09	413.80	413.79	413.61	413.64	413.50	413.49	
16	413.43	413.30	413.63	413.71	413.69	414.17	413.78	413.78	413.62	413.62	413.50	413.49	
17	413.40	413.30	413.70	413.70	413.69	414.08	413.78	413.79	413.64	413.60	413.49	413.49	
18	413.38	413.30	413.73	413.70	413.68	414.02	413.76	413.79	413.64	413.60	413.49	413.49	
19	413.36	413.30	413.70	413.68	413.69	413.99	413.74	413.78	413.64	413.60	413.49	413.49	
20	413.34	413.42	413.69	413.68	414.05	413.86	413.72	413.73	413.64	413.60	413.49	413.49	
21	413.32	413.47	413.67	413.69	413.90	413.80	413.71	413.73	413.62	413.60	413.49	413.49	
22	413.31	413.51	413.65	413.76	413.80	413.79	413.70	413.69	413.61	413.58	413.49	413.49	
23	413.31	413.54	413.61	414.12	413.80	413.79	413.70	413.66	413.60	413.58	413.49	413.49	
24	413.31	413.54	413.61	413.76	413.80	413.79	413.70	413.68	413.60	413.57	413.49	413.49	
25	413.30	413.53	413.64	413.70	413.86	413.75	413.78	413.68	413.59	413.57	413.49	413.49	
26	413.30	413.53	413.71	413.69	414.05	413.82	413.79	413.68	413.58	413.57	413.49	413.52	
27	413.30	413.53	413.71	413.70	413.92	413.96	413.77	413.68	413.58	413.57	413.49	413.69	
28	413.30	413.53	413.70	413.69	413.96	413.82	413.72	413.67	413.58	413.57	413.48	413.64	
29	413.30	413.53	413.74	413.69	413.94	413.80	413.79	413.66	413.56	413.57		413.49	
30	413.30	413.53	413.72	413.95	413.81	413.80	413.76	413.66	413.56	413.57		413.49	
31		413.57		413.80	413.79		413.74		413.56	413.57		413.49	
Mean	413.40	413.38	413.81	413.78	413.80	413.87	413.80	413.74	413.62	413.59	413.50	413.50	
Max	413.48	413.57	415.17	414.18	414.09	414.17	414.24	414.16	413.69	413.66	413.56	413.69	415.17
Min	413.30	413.30	413.59	413.68	413.68	413.70	413.70	413.66	413.56	413.55	413.48	413.48	413.30

Annual Max Momentary Gage Height 415.80 m. (MSL.) , at 03.00 Hours , on Jun 4 , 2016

Zero Gage at Bottom Elevation 413.10 m. (MSL.) , River Bed 412.51 m. (MSL.)

Left Bank Elevation 418.78 m. (MSL.) ,

Right Bank Elevation 418.84 m. (MSL.) , Drainage Are 234 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.31	0.05	0.67	1.15	1.76	2.04	1.76	1.62	1.10	0.58	0.58	0.34		
2	0.28	0.05	0.70	1.34	1.76	1.90	1.69	1.41	1.15	0.58	0.52	0.34		
3	0.28	0.05	13.08	1.34	1.76	1.76	1.97	1.27	1.15	0.55	0.46	0.34		
4	0.28	0.05	30.92	1.20	1.20	1.55	1.76	1.27	1.15	0.61	0.46	0.34		
5	0.28	0.05	12.26	1.20	1.20	1.34	2.60	1.20	1.15	0.58	0.40	0.34		
6	0.28	0.05	4.54	1.20	1.20	1.27	3.00	1.20	1.05	0.61	0.40	0.34		
7	0.34	0.05	2.18	1.55	4.81	1.20	1.90	1.20	0.90	0.64	0.40	0.34		
8	0.34	0.05	1.90	6.03	1.76	1.62	1.90	1.20	0.80	0.64	0.40	0.34		
9	0.34	0.05	1.90	3.87	1.69	2.25	2.04	1.20	0.80	0.64	0.40	0.40		
10	0.34	0.05	1.55	2.60	1.34	1.83	1.90	1.20	0.75	0.64	0.40	0.40		
11	0.31	0.05	1.10	4.68	1.20	1.97	1.97	5.76	0.70	0.70	0.40	0.40		
12	0.31	0.05	1.10	2.39	1.20	3.87	7.00	3.20	0.70	0.90	0.40	0.37		
13	0.31	0.05	1.10	1.97	1.20	5.76	2.46	1.97	0.75	1.00	0.37	0.37		
14	0.31	0.05	1.20	1.48	1.10	3.30	2.18	1.90	0.75	1.00	0.40	0.37		
15	0.25	0.05	0.95	1.34	1.10	4.81	1.90	1.83	0.75	0.90	0.40	0.37		
16	0.19	0.05	0.85	1.27	1.15	5.89	1.76	1.76	0.80	0.80	0.40	0.37		
17	0.10	0.05	1.20	1.20	1.15	4.68	1.76	1.83	0.90	0.70	0.37	0.37		
18	0.09	0.05	1.41	1.20	1.10	3.87	1.62	1.83	0.90	0.70	0.37	0.37		
19	0.08	0.05	1.20	1.10	1.15	3.50	1.48	1.76	0.90	0.70	0.37	0.37		
20	0.07	0.16	1.15	1.10	4.27	2.32	1.34	1.41	0.90	0.70	0.37	0.37		
21	0.06	0.31	1.05	1.15	2.60	1.90	1.27	1.41	0.80	0.70	0.37	0.37		
22	0.05	0.43	0.95	1.62	1.90	1.83	1.20	1.15	0.75	0.64	0.37	0.37		
23	0.05	0.52	0.75	5.22	1.90	1.83	1.20	1.00	0.70	0.64	0.37	0.37		
24	0.05	0.52	0.75	1.62	1.90	1.83	1.20	1.10	0.70	0.61	0.37	0.37		
25	0.05	0.49	0.90	1.20	2.32	1.55	1.76	1.10	0.67	0.61	0.37	0.37		
26	0.05	0.49	1.27	1.15	4.27	2.04	1.83	1.10	0.64	0.61	0.37	0.46		
27	0.05	0.49	1.27	1.20	2.80	3.20	1.69	1.10	0.64	0.61	0.37	1.15		
28	0.05	0.49	1.20	1.15	3.20	2.04	1.34	1.05	0.64	0.61	0.34	0.90		
29	0.05	0.49	1.48	1.15	3.00	1.90	1.83	1.00	0.58	0.61		0.37		
30	0.05	0.49	1.34	3.10	1.97	1.90	1.62	1.00	0.58	0.61		0.37		
31		0.61		1.90	1.83		1.48		0.58	0.61		0.37		
Total	5.60	6.44	91.92	59.67	60.79	76.75	60.41	47.03	25.33	21.03	11.20	12.72	478.89	CMSDAY
Mean	0.19	0.21	3.06	1.92	1.96	2.56	1.95	1.57	0.82	0.68	0.40	0.41	1.31	CMS
Max	0.34	0.61	30.92	6.03	4.81	5.89	7.00	5.76	1.15	1.00	0.58	1.15	30.92	CMS
Min	0.05	0.05	0.67	1.10	1.10	1.20	1.20	1.00	0.58	0.55	0.34	0.34	0.05	CMS
Runoff	0.48	0.56	7.94	5.16	5.25	6.63	5.22	4.06	2.19	1.82	0.97	1.10	41.38	MCM

Momentary Peak 60.00 CMS. at 415.80 m. (MSL.) at 03.00 Hours , on Jun 4 , 2016

Runoff Yield 5.61 Liters/Second/Square KM. Momentary Peak Yield 256.410 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Mueang Kud.

Ban Mueang Kud **Amphoe** Mae Taeng **Changwat** Chiang Mai

Drainge Area	1,653 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+440.645 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +447.535 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2011 to date
Rating Operation	
Period of Rating	2011 to date
Rated by Flot	-
Rated by Current Meter	2011 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

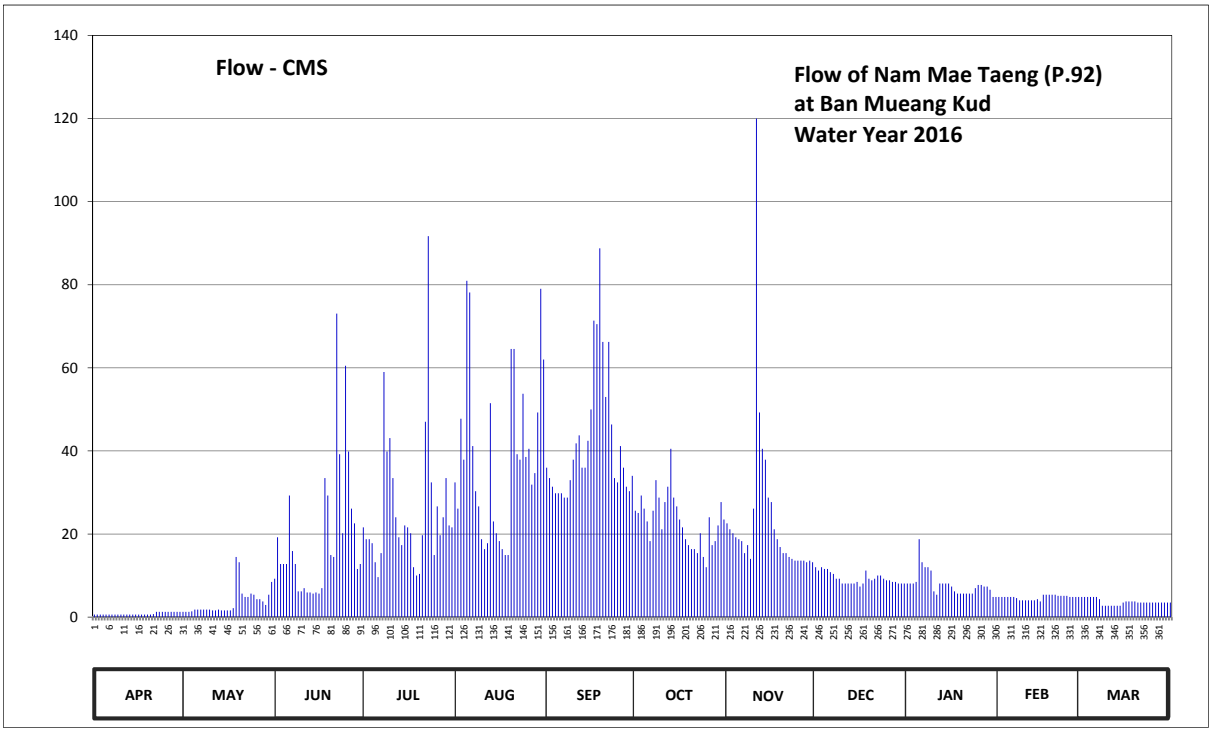
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	440.51	440.57	440.88	441.16	441.37	441.43	441.24	441.18	440.95	440.85	440.75	440.75	
2	440.51	440.57	441.11	441.10	441.25	441.39	441.23	441.15	440.93	440.85	440.75	440.75	
3	440.51	440.57	440.97	441.10	441.61	441.35	441.31	441.13	440.95	440.85	440.75	440.75	
4	440.51	440.58	440.97	441.08	441.46	441.32	441.25	441.11	440.94	440.86	440.75	440.75	
5	440.51	440.61	440.97	440.98	442.02	441.32	441.19	441.10	440.94	441.10	440.75	440.75	
6	440.51	440.61	441.31	440.89	441.99	441.32	441.09	441.09	440.92	440.98	440.75	440.75	
7	440.51	440.61	441.04	441.03	441.51	441.30	441.24	441.03	440.91	440.95	440.74	440.73	
8	440.51	440.61	440.97	441.76	441.33	441.30	441.38	441.07	440.88	440.95	440.72	440.66	
9	440.51	440.61	440.80	441.49	441.26	441.38	441.30	441.00	440.88	440.93	440.72	440.66	
10	440.51	440.61	440.80	441.54	441.10	441.46	441.15	441.25	440.85	440.80	440.72	440.66	
11	440.51	440.60	440.82	441.39	441.05	441.52	441.28	442.40	440.85	440.77	440.72	440.66	
12	440.51	440.60	440.79	441.21	441.08	441.55	441.35	441.63	440.85	440.85	440.72	440.66	
13	440.51	440.61	440.79	441.11	441.66	441.43	441.50	441.50	440.85	440.85	440.72	440.66	
14	440.51	440.60	440.78	441.07	441.19	441.43	441.30	441.46	440.85	440.85	440.73	440.66	
15	440.51	440.60	440.79	441.17	441.13	441.53	441.26	441.30	440.86	440.85	440.71	440.70	
16	440.51	440.60	440.78	441.16	441.09	441.64	441.20	441.28	440.83	440.83	440.77	440.71	
17	440.51	440.60	440.82	441.13	441.05	441.91	441.16	441.15	440.85	440.80	440.77	440.71	
18	440.51	440.63	441.39	440.95	441.02	441.90	441.10	441.10	440.93	440.78	440.77	440.71	
19	440.51	441.01	441.31	440.90	441.02	442.10	441.07	441.06	440.88	440.78	440.77	440.71	
20	440.51	440.98	441.02	440.91	441.83	441.85	441.05	441.03	440.87	440.78	440.77	440.70	
21	440.52	440.78	441.01	441.12	441.83	441.68	441.05	441.03	440.88	440.78	440.76	440.70	
22	440.57	440.75	441.93	441.60	441.48	441.85	441.03	441.01	440.90	440.78	440.76	440.70	
23	440.57	440.75	441.48	442.13	441.46	441.59	441.13	441.00	440.90	440.78	440.76	440.70	
24	440.57	440.78	441.13	441.37	441.69	441.39	441.01	440.99	440.88	440.82	440.76	440.70	
25	440.57	440.77	441.78	441.02	441.47	441.37	440.95	440.99	440.87	440.84	440.75	440.70	
26	440.57	440.73	441.49	441.26	441.50	441.51	441.21	440.99	440.87	440.84	440.75	440.70	
27	440.57	440.73	441.25	441.12	441.36	441.43	441.07	440.99	440.86	440.83	440.75	440.70	
28	440.57	440.71	441.18	441.21	441.41	441.35	441.09	440.98	440.86	440.83	440.75	440.70	
29	440.57	440.67	440.94	441.39	441.63	441.33	441.17	440.99	440.85	440.81		440.70	
30	440.57	440.77	440.97	441.17	442.00	441.40	441.28	440.98	440.85	440.75		440.70	
31		440.86		441.16	441.80		441.20		440.85	440.75		440.70	
Mean	440.53	440.68	441.08	441.22	441.44	441.51	441.19	441.17	440.88	440.84	440.75	440.70	
Max	440.57	441.01	441.93	442.13	442.02	442.10	441.50	442.40	440.95	441.10	440.77	440.75	442.40
Min	440.51	440.57	440.78	440.89	441.02	441.30	440.95	440.98	440.83	440.75	440.71	440.66	440.51

Annual Max Momentary Gage Height 443.35 m. (MSL.) , at 03.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 440.65 m. (MSL.) , River Bed 439.74 m. (MSL.)

Left Bank Elevation 447.42 m. (MSL.) ,

Right Bank Elevation 447.31 m. (MSL.) , Drainage Are 1,653 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	1.27	9.24	21.60	32.43	35.95	25.60	22.55	12.00	8.10	4.85	4.85	
2	0.61	1.27	19.22	18.75	26.12	33.48	25.07	21.12	11.20	8.10	4.85	4.85	
3	0.61	1.27	12.80	18.75	47.75	31.38	29.27	20.17	12.00	8.10	4.85	4.85	
4	0.61	1.38	12.80	17.80	37.90	29.80	26.12	19.22	11.60	8.48	4.85	4.85	
5	0.61	1.79	12.80	13.20	80.95	29.80	23.02	18.75	11.60	18.75	4.85	4.85	
6	0.61	1.79	29.27	9.62	78.15	29.80	18.27	18.27	10.80	13.20	4.85	4.85	
7	0.61	1.79	15.90	15.42	41.15	28.75	25.60	15.42	10.40	12.00	4.58	4.31	
8	0.61	1.79	12.80	59.00	30.32	28.75	32.95	17.32	9.24	12.00	4.04	2.74	
9	0.61	1.79	6.20	39.85	26.65	32.95	28.75	14.00	9.24	11.20	4.04	2.74	
10	0.61	1.79	6.20	43.10	18.75	37.90	21.12	26.12	8.10	6.20	4.04	2.74	
11	0.61	1.60	6.96	33.48	16.37	41.80	27.70	120.00	8.10	5.39	4.04	2.74	
12	0.61	1.60	5.93	24.02	17.80	43.75	31.38	49.25	8.10	8.10	4.04	2.74	
13	0.61	1.79	5.93	19.22	51.50	35.95	40.50	40.50	8.10	8.10	4.04	2.74	
14	0.61	1.60	5.66	17.32	23.02	35.95	28.75	37.90	8.10	8.10	4.31	2.74	
15	0.61	1.60	5.93	22.07	20.17	42.45	26.65	28.75	8.48	8.10	3.77	3.50	
16	0.61	1.60	5.66	21.60	18.27	50.00	23.50	27.70	7.34	7.34	5.39	3.77	
17	0.61	1.60	6.96	20.17	16.37	71.35	21.60	21.12	8.10	6.20	5.39	3.77	
18	0.61	2.17	33.48	12.00	14.95	70.50	18.75	18.75	11.20	5.66	5.39	3.77	
19	0.61	14.47	29.27	10.00	14.95	88.75	17.32	16.85	9.24	5.66	5.39	3.77	
20	0.61	13.20	14.95	10.40	64.55	66.25	16.37	15.42	8.86	5.66	5.39	3.50	
21	0.72	5.66	14.47	19.70	64.55	53.00	16.37	15.42	9.24	5.66	5.12	3.50	
22	1.27	4.85	73.05	47.00	39.20	66.25	15.42	14.47	10.00	5.66	5.12	3.50	
23	1.27	4.85	39.20	91.67	37.90	46.35	20.17	14.00	10.00	5.66	5.12	3.50	
24	1.27	5.66	20.17	32.43	53.75	33.48	14.47	13.60	9.24	6.96	5.12	3.50	
25	1.27	5.39	60.50	14.95	38.55	32.43	12.00	13.60	8.86	7.72	4.85	3.50	
26	1.27	4.31	39.85	26.65	40.50	41.15	24.02	13.60	8.86	7.72	4.85	3.50	
27	1.27	4.31	26.12	19.70	31.90	35.95	17.32	13.60	8.48	7.34	4.85	3.50	
28	1.27	3.77	22.55	24.02	34.65	31.38	18.27	13.20	8.48	7.34	4.85	3.50	
29	1.27	2.93	11.60	33.48	49.25	30.32	22.07	13.60	8.10	6.58		3.50	
30	1.27	5.39	12.80	22.07	79.00	34.00	27.70	13.20	8.10	4.85		3.50	
31		8.48		21.60	62.00		23.50		8.10	4.85		3.50	
Total	24.35	112.76	578.27	800.64	1209.37	1269.62	719.60	707.47	289.26	244.78	132.83	113.17	6202.12	CMSDAY
Mean	0.81	3.64	19.28	25.83	39.01	42.32	23.21	23.58	9.33	7.90	4.74	3.65	16.99	CMS
Max	1.27	14.47	73.05	91.67	80.95	88.75	40.50	120.00	12.00	18.75	5.39	4.85	120.00	CMS
Min	0.61	1.27	5.66	9.62	14.95	28.75	12.00	13.20	7.34	4.85	3.77	2.74	0.61	CMS
Runoff	2.10	9.74	49.96	69.18	104.49	109.70	62.17	61.13	24.99	21.15	11.48	9.78	535.86	MCM

Momentary Peak 250.25 CMS. at 443.35 m. (MSL.) at 03.00 Hours , on Nov 11 , 2016

Runoff Yield 10.28 Liters/Second/Square KM. Momentary Peak Yield 151.390 Liters/Second/Square KM.

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Rim at Ban Saluang Nok, Chiang Mai (P.93)

Lat 19 - 00 - 54 N Long 98 - 52 - 50 E

Location : on left bank at Ban Saluang Nok.

	Ban Saluang Nok	**Amphoe** Mae Rim	**Changwat** Chiang Mai
Drainge Area	411 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+340.588 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +344.720 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

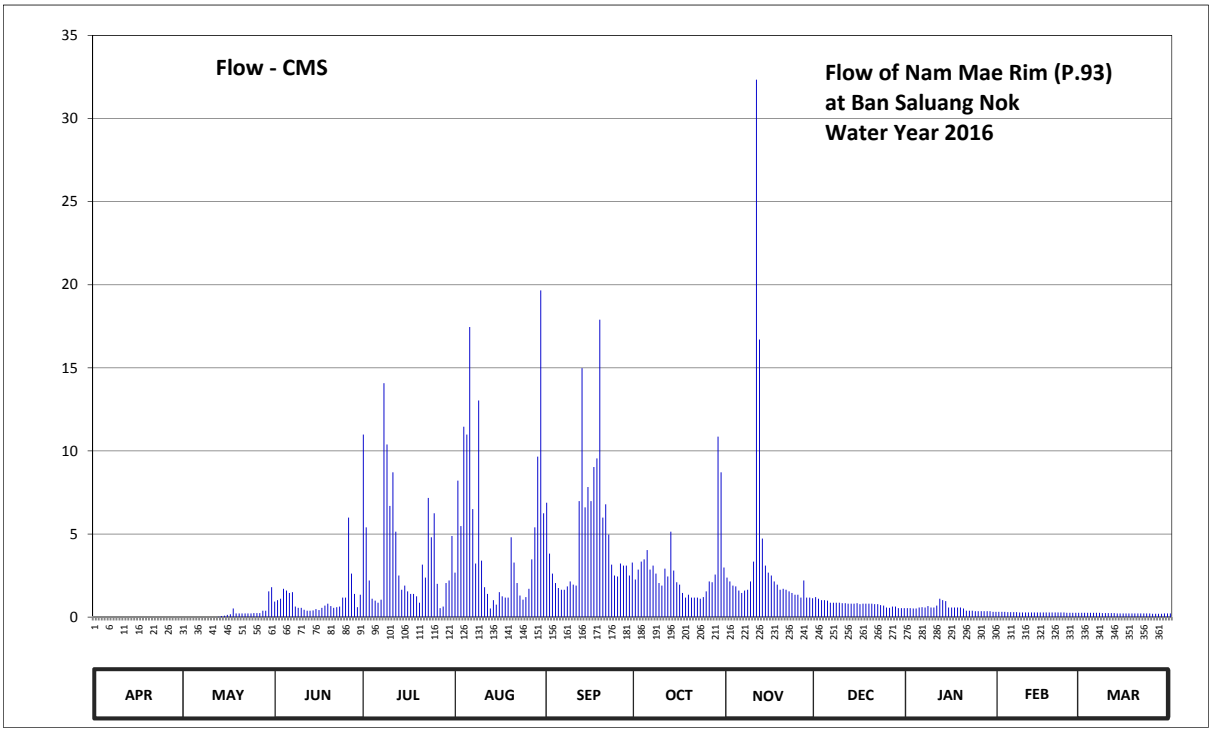
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.30	340.30	340.91	342.24	341.28	341.84	341.21	341.23	341.00	340.77	340.66	340.63	
2	340.30	340.30	340.94	341.67	341.98	341.46	341.31	341.19	340.97	340.77	340.66	340.63	
3	340.30	340.30	340.97	341.20	341.68	341.27	341.39	341.14	340.94	340.76	340.66	340.63	
4	340.30	340.30	341.10	340.97	342.28	341.17	341.41	341.13	340.94	340.76	340.65	340.63	
5	340.30	340.30	341.08	340.93	342.24	341.11	341.49	341.08	340.93	340.79	340.65	340.63	
6	340.30	340.30	341.05	340.89	342.73	341.09	341.31	341.05	340.89	340.80	340.65	340.63	
7	340.30	340.30	341.06	340.95	341.80	341.09	341.35	341.08	340.89	340.79	340.65	340.63	
8	340.30	340.30	340.81	342.49	341.37	341.13	341.27	341.09	340.89	340.82	340.64	340.62	
9	340.30	340.30	340.78	342.19	342.41	341.19	341.17	341.19	340.89	340.79	340.64	340.62	
10	340.30	340.30	340.78	341.82	341.40	341.15	341.14	341.39	340.88	340.79	340.64	340.62	
11	340.30	340.30	340.72	342.03	341.12	341.14	341.32	343.54	340.88	340.83	340.64	340.62	
12	340.30	340.30	340.69	341.64	341.04	341.85	341.24	342.68	340.87	340.97	340.64	340.62	
13	340.30	340.33	340.69	341.25	340.76	342.56	341.64	341.59	340.87	340.94	340.64	340.61	
14	340.30	340.40	340.70	341.09	340.94	341.81	341.30	341.35	340.87	340.92	340.64	340.61	
15	340.30	340.44	340.74	341.14	340.85	341.94	341.18	341.28	340.88	340.79	340.64	340.61	
16	340.30	340.49	340.71	341.07	341.06	341.85	341.15	341.25	340.86	340.79	340.64	340.61	
17	340.30	340.56	340.78	341.04	341.01	342.06	341.05	341.19	340.87	340.79	340.64	340.61	
18	340.30	340.76	340.83	341.04	340.99	342.11	340.99	341.15	340.87	340.79	340.64	340.61	
19	340.30	340.61	340.87	341.01	340.99	342.76	341.03	341.09	340.87	340.79	340.64	340.61	
20	340.30	340.61	340.82	340.89	341.60	341.74	340.99	341.10	340.87	340.76	340.64	340.61	
21	340.30	340.61	340.78	341.36	341.38	341.83	340.99	341.09	340.86	340.69	340.64	340.61	
22	340.30	340.61	340.80	341.23	341.17	341.62	340.99	341.07	340.86	340.69	340.64	340.61	
23	340.30	340.61	340.81	341.87	341.02	341.36	340.97	341.05	340.84	340.69	340.64	340.61	
24	340.30	340.61	340.99	341.60	340.95	341.25	341.00	341.03	340.83	340.68	340.63	340.61	
25	340.30	340.62	340.99	341.77	341.00	341.24	341.07	341.03	340.79	340.68	340.63	340.60	
26	340.30	340.62	341.74	341.16	341.10	341.37	341.19	340.99	340.78	340.68	340.63	340.60	
27	340.30	340.62	341.27	340.77	341.41	341.35	341.18	341.20	340.81	340.68	340.63	340.60	
28	340.30	340.69	341.04	340.81	341.67	341.35	341.26	340.99	340.81	340.68	340.63	340.60	
29	340.30	340.69	340.80	341.17	342.12	341.25	342.23	340.99	340.77	340.68		340.61	
30	340.30	341.07	341.03	341.20	342.87	341.38	342.03	340.98	340.77	340.66		340.61	
31		341.12		341.61	341.77		341.33		340.77	340.66		340.61	
Mean	340.30	340.51	340.91	341.36	341.48	341.54	341.26	341.27	340.87	340.76	340.64	340.61	
Max	340.30	341.12	341.74	342.49	342.87	342.76	342.23	343.54	341.00	340.97	340.66	340.63	343.54
Min	340.30	340.30	340.69	340.77	340.76	341.09	340.97	340.98	340.77	340.66	340.63	340.60	340.30

Annual Max Momentary Gage Height 343.91 m. (MSL.) , at 18.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 340.59 m. (MSL.) , River Bed 340.30 m. (MSL.)

Left Bank Elevation 344.27 m. (MSL.) ,

Right Bank Elevation 344.09 m. (MSL.) , Drainage Are 411 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.93	10.98	2.68	6.88	2.26	2.38	1.20	0.54	0.32	0.26		
2	0.00	0.00	1.02	5.40	8.21	3.82	2.86	2.15	1.11	0.54	0.32	0.26		
3	0.00	0.00	1.11	2.20	5.48	2.62	3.34	1.90	1.02	0.52	0.32	0.26		
4	0.00	0.00	1.70	1.11	11.46	2.05	3.47	1.85	1.02	0.52	0.30	0.26		
5	0.00	0.00	1.60	0.99	10.98	1.75	4.03	1.60	0.99	0.58	0.30	0.26		
6	0.00	0.00	1.45	0.87	17.45	1.65	2.86	1.45	0.87	0.60	0.30	0.26		
7	0.00	0.00	1.50	1.05	6.50	1.65	3.10	1.60	0.87	0.58	0.30	0.26		
8	0.00	0.00	0.63	14.07	3.22	1.85	2.62	1.65	0.87	0.66	0.28	0.24		
9	0.00	0.00	0.56	10.39	13.03	2.15	2.05	2.15	0.87	0.58	0.28	0.24		
10	0.00	0.00	0.56	6.69	3.40	1.95	1.90	3.34	0.84	0.58	0.28	0.24		
11	0.00	0.00	0.44	8.71	1.80	1.90	2.92	32.34	0.84	0.69	0.28	0.24		
12	0.00	0.00	0.38	5.14	1.40	6.98	2.44	16.70	0.81	1.11	0.28	0.24		
13	0.00	0.02	0.38	2.50	0.52	14.98	5.14	4.73	0.81	1.02	0.28	0.22		
14	0.00	0.07	0.40	1.65	1.02	6.60	2.80	3.10	0.81	0.96	0.28	0.22		
15	0.00	0.09	0.48	1.90	0.75	7.83	2.10	2.68	0.84	0.58	0.28	0.22		
16	0.00	0.13	0.42	1.55	1.50	6.98	1.95	2.50	0.78	0.58	0.28	0.22		
17	0.00	0.17	0.56	1.40	1.25	9.03	1.45	2.15	0.81	0.58	0.28	0.22		
18	0.00	0.52	0.69	1.40	1.17	9.55	1.17	1.95	0.81	0.58	0.28	0.22		
19	0.00	0.22	0.81	1.25	1.17	17.90	1.35	1.65	0.81	0.58	0.28	0.22		
20	0.00	0.22	0.66	0.87	4.80	5.99	1.17	1.70	0.81	0.52	0.28	0.22		
21	0.00	0.22	0.56	3.16	3.28	6.79	1.17	1.65	0.78	0.38	0.28	0.22		
22	0.00	0.22	0.60	2.38	2.05	4.97	1.17	1.55	0.78	0.38	0.28	0.22		
23	0.00	0.22	0.63	7.17	1.30	3.16	1.11	1.45	0.72	0.38	0.28	0.22		
24	0.00	0.22	1.17	4.80	1.05	2.50	1.20	1.35	0.69	0.36	0.26	0.22		
25	0.00	0.24	1.17	6.25	1.20	2.44	1.55	1.35	0.58	0.36	0.26	0.20		
26	0.00	0.24	5.99	2.00	1.70	3.22	2.15	1.17	0.56	0.36	0.26	0.20		
27	0.00	0.24	2.62	0.54	3.47	3.10	2.10	2.20	0.63	0.36	0.26	0.20		
28	0.00	0.38	1.40	0.63	5.40	3.10	2.56	1.17	0.63	0.36	0.26	0.20		
29	0.00	0.38	0.60	2.05	9.66	2.50	10.86	1.17	0.54	0.36		0.22		
30	0.00	1.55	1.35	2.20	19.66	3.28	8.71	1.14	0.54	0.32		0.22		
31		1.80		4.88	6.25		2.98		0.54	0.32		0.22		
Total	0.00	7.15	32.37	116.18	152.81	149.17	86.54	103.77	24.78	16.84	7.94	7.12	704.67	CMSDAY
Mean	0.00	0.23	1.08	3.75	4.93	4.97	2.79	3.46	0.80	0.54	0.28	0.23	1.93	CMS
Max	0.00	1.80	5.99	14.07	19.66	17.90	10.86	32.34	1.20	1.11	0.32	0.26	32.34	CMS
Min	0.00	0.00	0.38	0.54	0.52	1.65	1.11	1.14	0.54	0.32	0.26	0.20	0.00	CMS
Runoff	0.00	0.62	2.80	10.04	13.20	12.89	7.48	8.97	2.14	1.45	0.69	0.62	60.88	MCM

Momentary Peak 40.69 CMS. at 343.91 m. (MSL.) at 18.00 Hours , on Nov 11 , 2016

Runoff Yield 4.70 Liters/Second/Square KM. Momentary Peak Yield 99.000 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

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

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

Location : on left bank at the bridge.

Ban Setuwaree Bridge **Amphoe** Mueang **Changwat** Lampang

Drainge Area	3,478 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+229.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the approach of the bridge. **Elevation** +234.725 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1990 - 1998, 2006 to date
Rating Operation	
Period of Rating	1990 - 1998, 2006 to date
Rated by Flot	-
Rated by Current Meter	1990 - 1998, 2006 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

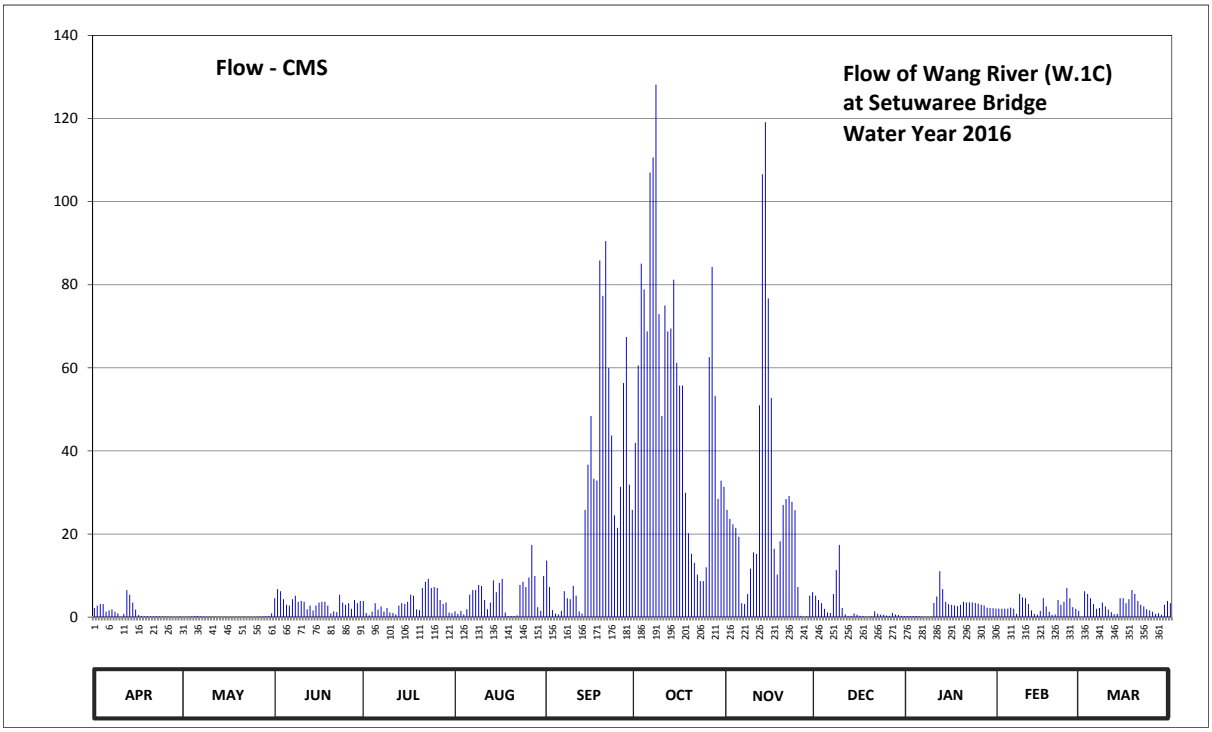
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.31	228.62	229.43	229.40	229.24	229.74	229.68	229.36	229.46	228.87	228.54		
2	229.34	228.64	229.53	229.20	229.14	229.55	229.99	229.31	229.41	228.88	228.54	229.51	
3	229.36	228.69	229.51	228.96	229.25	229.27	230.33	229.28	229.37	228.85	228.54	229.48	
4	229.36	228.75	229.42	229.23	229.07	229.15	230.25	229.26	229.30	228.85	228.54	229.43	
5	229.23	228.90	229.35	229.37	229.29	229.08	230.11	229.21	229.21	228.79	228.56	229.36	
6	229.26	228.86	229.34	229.28	229.47	229.25	230.60	229.37	229.20	228.73	228.54	229.30	
7	229.29	228.74	229.42	229.33	229.52	229.51	230.64	229.36	229.48	228.68	229.14	229.31	
8	229.23	228.70	229.46	229.23	229.52	229.43	230.83	229.48	229.68	228.64	229.48	229.38	
9	229.17	228.65	229.39	229.31	229.57	229.42	230.17	229.69	229.83	228.64	229.44	229.33	
10	228.60	228.65	229.40	229.21	229.56	229.56	229.79	229.79	229.31	228.64	229.43	229.28	
11	229.12	228.61	229.39	229.20	229.41	229.46	230.20	229.78	229.08	228.73	229.36	229.22	
12	229.52	228.52	229.29	229.08	229.29	229.24	230.11	230.32	228.88	228.98	229.26	229.10	
13	229.47	228.46	229.34	229.34	229.38	229.15	230.12	230.79	228.86	228.81	229.12	229.14	
14	229.38	228.41	229.26	229.37	229.61	229.36	230.28	230.86	229.16	228.66	229.05	229.43	
15	229.28	228.45	229.34	229.36	229.50	229.59	230.00	230.57	229.04	228.62	229.25	229.43	
16	229.00	228.45	229.38	229.39	229.59	229.79	229.91	230.34	228.90	228.61	229.43	229.37	
17	228.81	228.44	229.39	229.47	229.62	229.52	229.91	229.81	228.82	228.60	229.33	229.42	
18	228.75	228.45	229.39	229.46	229.21	229.51	229.45	229.65	228.73	228.59	229.23	229.52	
19	228.78	228.46	229.34	229.29	228.86	230.34	229.23	229.85	228.69	228.61	229.02	229.48	
20	228.77	228.50	229.16	229.27	228.85	230.23	229.10	230.01	228.81	228.66	229.07	229.40	
21	228.76	228.52	229.24	229.54	228.85	230.40	229.04	230.03	229.24	228.65	229.41	229.35	
22	228.78	228.52	229.22	229.60	228.97	229.98	228.95	230.04	229.14	228.65	229.35	229.33	
23	228.77	228.49	229.47	229.62	229.57	229.71	228.89	230.02	229.03	228.65	229.39	229.29	
24	228.71	228.48	229.38	229.54	229.60	229.33	228.89	229.99	229.02	228.64	229.54	229.26	
25	228.70	228.52	229.35	229.55	229.55	229.26	229.01	229.55	228.94	228.63	229.43	229.23	
26	228.70	228.62	229.37	229.54	229.63	229.48	230.02	228.90	228.91	228.61	229.32	229.12	
27	228.67	228.69	229.30	229.41	229.83	229.92	230.32	228.68	229.20	228.60	229.30	229.17	
28	228.50	228.76	229.41	229.36	229.64	230.09	229.87	228.77	229.05	228.56	229.25	229.03	
29	228.58	228.80	229.37	229.38	229.32	229.49	229.42	229.46	228.99	228.55		229.35	
30	228.69	228.82	229.40	229.21	229.25	229.36	229.51	229.50	228.90	228.55		229.40	
31		229.17		229.17	229.64		229.48		228.85	228.54		229.37	
Mean	229.00	228.62	229.37	229.34	229.38	229.57	229.81	229.70	229.11	228.68	229.14	229.33	
Max	229.52	229.17	229.53	229.62	229.83	230.40	230.83	230.86	229.83	228.98	229.54	229.52	230.86
Min	228.50	228.41	229.16	228.96	228.85	229.08	228.89	228.68	228.69	228.54	228.54	229.03	228.41

Annual Max Momentary Gage Height 231.14 m. (MSL.) , at 20.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 229.30 m. (MSL.) , River Bed 226.94 m. (MSL.)

Left Bank Elevation 234.69 m. (MSL.) ,

Right Bank Elevation 235.05 m. (MSL.) , Drainage Are 3,478 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.19	0.07	4.53	3.90	1.40	13.60	41.92	25.78	5.16	0.27	2.02			
2	2.76	0.08	6.75	1.00	0.82	7.25	60.59	23.63	4.11	0.28	2.02	6.25		
3	3.14	0.10	6.25	0.42	1.50	1.70	85.08	22.34	3.33	0.25	2.02	5.58		
4	3.14	0.15	4.32	1.30	0.64	0.85	78.88	21.48	2.00	0.25	2.02	4.53		
5	1.30	0.30	2.95	3.33	1.90	0.66	68.79	19.33	1.10	0.19	2.28	3.14		
6	1.60	0.26	2.76	1.80	5.37	1.50	107.00	3.33	1.00	0.13	2.02	2.00		
7	1.90	0.14	4.32	2.57	6.50	6.25	110.64	3.14	5.58	0.09	0.82	2.19		
8	1.30	0.10	5.16	1.30	6.50	4.53	128.17	5.58	11.30	0.08	5.58	3.52		
9	0.91	0.08	3.71	2.19	7.75	4.32	72.93	11.65	17.35	0.08	4.74	2.57		
10	0.06	0.08	3.90	1.10	7.50	7.50	48.41	15.60	2.19	3.40	4.53	1.80		
11	0.76	0.06	3.71	1.00	4.11	5.16	75.00	15.20	0.66	4.96	3.14	1.20		
12	6.50	0.04	1.90	0.66	1.90	1.40	68.79	51.00	0.28	11.06	1.60	0.70		
13	5.37	0.02	2.76	2.76	3.52	0.85	69.48	106.60	0.26	6.74	0.76	0.82		
14	3.52	0.01	1.60	3.33	8.85	25.78	81.20	119.10	0.88	3.70	0.60	4.53		
15	1.80	0.02	2.76	3.14	6.00	36.71	61.20	76.70	0.58	3.10	1.50	4.53		
16	0.50	0.02	3.52	3.71	8.25	48.41	55.71	52.75	0.30	2.95	4.53	3.33		
17	0.21	0.02	3.71	5.37	9.20	33.32	55.71	16.45	0.22	2.80	2.57	4.32		
18	0.15	0.02	3.71	5.16	1.10	32.83	29.93	10.25	0.13	2.67	1.30	6.50		
19	0.18	0.02	2.76	1.90	0.26	85.85	20.19	18.25	0.10	2.95	0.54	5.58		
20	0.17	0.03	0.88	1.70	0.25	77.33	15.25	27.01	0.21	3.70	0.64	3.90		
21	0.16	0.04	1.40	7.00	0.25	90.50	13.06	28.43	1.40	3.55	4.11	2.95		
22	0.18	0.04	1.20	8.50	0.44	59.98	10.25	29.14	0.82	3.55	2.95	2.57		
23	0.17	0.03	5.37	9.20	7.75	43.69	8.66	27.72	0.56	3.55	3.71	1.90		
24	0.11	0.03	3.52	7.00	8.50	24.49	8.66	25.72	0.54	3.40	7.00	1.60		
25	0.10	0.04	2.95	7.25	7.25	21.48	11.97	7.25	0.38	3.25	4.53	1.30		
26	0.10	0.07	3.33	7.00	9.55	31.38	62.58	0.30	0.32	2.95	2.38	0.76		
27	0.09	0.10	2.00	4.11	17.35	56.32	84.30	0.09	1.00	2.80	2.00	0.91		
28	0.03	0.16	4.11	3.14	9.90	67.41	53.27	0.17	0.60	2.28	1.50	0.56		
29	0.05	0.20	3.33	3.52	2.38	31.87	28.47	5.16	0.48	2.15		2.95		
30	0.10	0.22	3.90	1.10	1.50	25.78	32.83	6.00	0.30	2.15		3.90		
31		0.91		0.91	9.90		31.38		0.25	2.02		3.33		
Total	38.55	3.46	103.07	106.37	158.09	848.70	1680.30	775.15	63.39	81.30	73.41	89.72	4021.51	CMSDAY
Mean	1.29	0.11	3.44	3.43	5.10	28.29	54.20	25.84	2.04	2.62	2.62	2.99	11.05	CMS
Max	6.50	0.91	6.75	9.20	17.35	90.50	128.17	119.10	17.35	11.06	7.00	6.50	128.17	CMS
Min	0.03	0.01	0.88	0.42	0.25	0.66	8.66	0.09	0.10	0.08	0.54	0.56	0.01	CMS
Runoff	3.33	0.30	8.91	9.19	13.66	73.33	145.18	66.97	5.48	7.02	6.34	7.75	347.46	MCM

Momentary Peak 159.00 CMS. at 231.14 m. (MSL.) at 20.00 Hours , on Oct 6 , 2016

Runoff Yield 3.17 Liters/Second/Square KM. Momentary Peak Yield 45.720 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

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

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

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

	Ban Don Chai	**Amphoe** Thoen	**Changwat** Lampang
Drainge Area	8,924 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+161.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from automatic gage building	**Elevation**	+167.074 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 to date		
Rated by Flot	-		
Rated by Current Meter	1967 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The channel is fulled of the Mimosa pudica plants.		
	Stage-discharge relation defined by 31 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

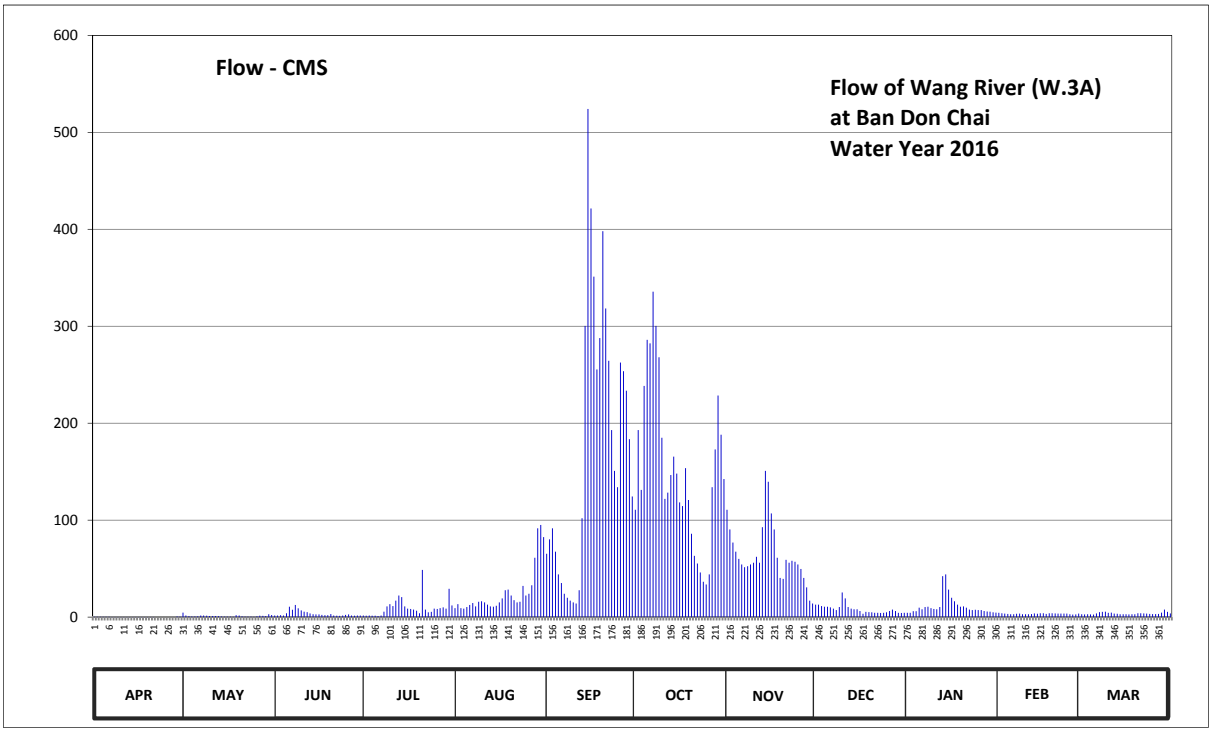
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.40	160.73	160.53	160.53	160.90	161.67	162.07	162.07	161.00	160.72	160.72	160.64	
2	160.38	160.54	160.53	160.52	161.01	161.81	162.65	161.90	161.00	160.72	160.70	160.62	
3	160.38	160.48	160.57	160.54	160.90	161.91	162.23	161.78	160.96	160.79	160.68	160.63	
4	160.37	160.44	160.53	160.52	160.88	161.69	162.93	161.69	160.94	160.79	160.66	160.62	
5	160.37	160.44	160.70	160.52	160.93	161.45	163.20	161.62	160.94	160.91	160.64	160.61	
6	160.35	160.45	160.94	160.49	160.99	161.34	163.18	161.56	160.92	160.86	160.64	160.69	
7	160.34	160.53	160.84	160.53	161.03	161.19	163.47	161.53	160.88	160.93	160.67	160.75	
8	160.34	160.53	160.99	160.77	160.95	161.12	163.28	161.54	160.83	160.94	160.68	160.76	
9	160.33	160.52	160.89	160.95	161.05	161.07	163.10	161.56	160.93	160.90	160.64	160.77	
10	160.33	160.50	160.82	161.01	161.06	161.04	162.60	161.58	161.21	160.87	160.63	160.72	
11	160.32	160.50	160.77	160.96	161.04	161.02	162.16	161.64	161.11	160.86	160.64	160.73	
12	160.32	160.49	160.75	161.07	161.00	161.24	162.21	161.58	160.93	160.93	160.65	160.68	
13	160.31	160.47	160.69	161.16	160.95	162.00	162.34	161.92	160.88	161.43	160.69	160.67	
14	160.31	160.43	160.64	161.13	160.94	163.28	162.47	162.37	160.86	161.45	160.67	160.64	
15	160.31	160.42	160.62	160.95	160.97	164.42	162.35	162.29	160.86	161.25	160.70	160.64	
16	160.30	160.41	160.62	160.88	161.04	163.91	162.13	162.04	160.80	161.12	160.70	160.63	
17	160.30	160.41	160.59	160.87	161.11	163.55	162.10	161.90	160.67	161.06	160.66	160.62	
18	160.30	160.37	160.57	160.85	161.24	163.03	162.39	161.63	160.76	161.00	160.70	160.63	
19	160.29	160.57	160.57	160.81	161.25	163.21	162.15	161.41	160.75	160.94	160.70	160.64	
20	160.28	160.53	160.65	160.70	161.16	163.79	161.86	161.40	160.74	160.95	160.69	160.70	
21	160.28	160.46	160.54	161.50	161.08	163.38	161.65	161.61	160.72	160.91	160.68	160.70	
22	160.26	160.42	160.52	160.85	161.04	163.08	161.57	161.58	160.72	160.85	160.68	160.69	
23	160.24	160.41	160.51	160.74	161.05	162.65	161.47	161.60	160.71	160.83	160.68	160.68	
24	160.23	160.41	160.53	160.76	161.30	162.37	161.36	161.59	160.72	160.84	160.68	160.66	
25	160.23	160.40	160.59	160.88	161.16	162.25	161.32	161.56	160.74	160.83	160.64	160.65	
26	160.24	160.45	160.62	160.87	161.19	163.07	161.45	161.51	160.80	160.83	160.61	160.65	
27	160.27	160.52	160.53	160.90	161.31	163.02	162.25	161.41	160.85	160.80	160.62	160.66	
28	160.26	160.51	160.52	160.92	161.63	162.90	162.52	161.28	160.80	160.78	160.68	160.73	
29	160.44	160.49	160.53	160.88	161.91	162.59	162.87	161.07	160.72	160.77		160.85	
30	160.42	160.64	160.53	161.26	161.94	162.18	162.62	161.02	160.71	160.74		160.76	
31		160.58		160.98	161.83		162.31		160.72	160.73		160.69	
Mean	160.32	160.49	160.64	160.85	161.16	162.37	162.33	161.64	160.84	160.91	160.67	160.68	
Max	160.44	160.73	160.99	161.50	161.94	164.42	163.47	162.37	161.21	161.45	160.72	160.85	164.42
Min	160.23	160.37	160.51	160.49	160.88	161.02	161.32	161.02	160.67	160.72	160.61	160.61	160.23

Annual Max Momentary Gage Height 164.62 m. (MSL.) , at 18.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 161.00 m. (MSL.) , River Bed 159.62 m. (MSL.)

Left Bank Elevation 169.04 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	4.69	1.56	1.56	9.30	65.35	110.75	110.75	12.80	4.46	4.46	3.04		
2	0.34	1.68	1.56	1.44	13.40	80.15	193.00	90.50	12.80	4.46	4.00	2.72		
3	0.34	1.04	2.04	1.68	9.30	91.65	131.20	76.90	11.40	6.07	3.68	2.88		
4	0.31	0.72	1.56	1.44	8.70	67.45	238.45	67.45	10.70	6.07	3.36	2.72		
5	0.31	0.72	4.00	1.44	10.35	44.13	286.00	60.10	10.70	9.65	3.04	2.56		
6	0.25	0.80	10.70	1.12	12.45	35.06	282.40	54.30	10.00	8.10	3.04	3.84		
7	0.22	1.56	7.50	1.56	14.59	24.11	335.65	51.52	8.70	10.35	3.52	5.15		
8	0.22	1.56	12.45	5.61	11.05	19.94	300.40	52.45	7.20	10.70	3.68	5.38		
9	0.19	1.44	9.00	11.05	15.78	16.97	268.00	54.30	10.35	9.30	3.04	5.61		
10	0.19	1.20	6.90	13.40	16.37	15.18	185.00	56.15	25.44	8.40	2.88	4.46		
11	0.16	1.20	5.61	11.40	15.18	13.99	122.00	62.20	19.35	8.10	3.04	4.69		
12	0.16	1.12	5.15	16.97	12.80	27.66	128.40	56.15	10.35	10.35	3.20	3.68		
13	0.13	0.96	3.84	22.32	11.05	102.00	146.60	92.80	8.70	42.28	3.84	3.52		
14	0.13	0.64	3.04	20.54	10.70	300.40	165.50	150.80	8.10	44.13	3.52	3.04		
15	0.13	0.56	2.72	11.05	11.75	524.10	148.00	139.60	8.10	28.40	4.00	3.04		
16	0.10	0.48	2.72	8.70	15.18	421.45	118.25	107.00	6.30	19.94	4.00	2.88		
17	0.10	0.48	2.28	8.40	19.35	351.25	114.50	90.50	3.52	16.37	3.36	2.72		
18	0.10	0.31	2.04	7.80	27.66	255.40	153.60	61.15	5.38	12.80	4.00	2.88		
19	0.09	2.04	2.04	6.60	28.40	287.80	120.75	40.43	5.15	10.70	4.00	3.04		
20	0.08	1.56	3.20	4.00	22.32	398.05	85.90	39.50	4.92	11.05	3.84	4.00		
21	0.08	0.88	1.68	48.75	17.56	318.40	63.25	59.05	4.46	9.65	3.68	4.00		
22	0.06	0.56	1.44	7.80	15.18	264.40	55.22	56.15	4.46	7.80	3.68	3.84		
23	0.04	0.48	1.32	4.92	15.78	193.00	45.98	58.00	4.23	7.20	3.68	3.68		
24	0.03	0.48	1.56	5.38	32.10	150.80	36.54	57.07	4.46	7.50	3.68	3.36		
25	0.03	0.40	2.28	8.70	22.32	134.00	33.58	54.30	4.92	7.20	3.04	3.20		
26	0.04	0.80	2.72	8.40	24.11	262.60	44.13	49.67	6.30	7.20	2.56	3.20		
27	0.07	1.44	1.56	9.30	32.84	253.60	134.00	40.43	7.80	6.30	2.72	3.36		
28	0.06	1.32	1.44	10.00	61.15	233.50	173.00	30.62	6.30	5.84	3.68	4.69		
29	0.72	1.12	1.56	8.70	91.65	183.50	228.55	16.97	4.46	5.61		7.80		
30	0.56	3.04	1.56	29.14	95.10	124.50	188.20	13.99	4.23	4.92		5.38		
31		2.16		12.10	82.45		142.40		4.46	4.69		3.84		
Total	5.64	37.44	107.03	311.27	785.92	5260.39	4779.20	1950.80	256.04	355.59	98.22	118.20	14065.74	CMSDAY
Mean	0.19	1.21	3.57	10.04	25.35	175.35	154.17	65.03	8.26	11.47	3.51	3.81	38.54	CMS
Max	0.72	4.69	12.45	48.75	95.10	524.10	335.65	150.80	25.44	44.13	4.46	7.80	524.10	CMS
Min	0.03	0.31	1.32	1.12	8.70	13.99	33.58	13.99	3.52	4.46	2.56	2.56	0.03	CMS
Runoff	0.49	3.23	9.25	26.89	67.90	454.50	412.92	168.55	22.12	30.72	8.49	10.21	1215.28	MCM

Momentary Peak 565.10 CMS. at 164.62 m. (MSL.) at 18.00 Hours , on Sep 15 , 2016

Runoff Yield 4.29 Liters/Second/Square KM. Momentary Peak Yield 62.890 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

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

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

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

Ban Wang Man **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	10,439 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+130.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of Wat Wang Man **Elevation** +143.191 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1968 to date
Rating Operation	
Period of Rating	1971 to date
Rated by Flot	-
Rated by Current Meter	1971 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good.Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

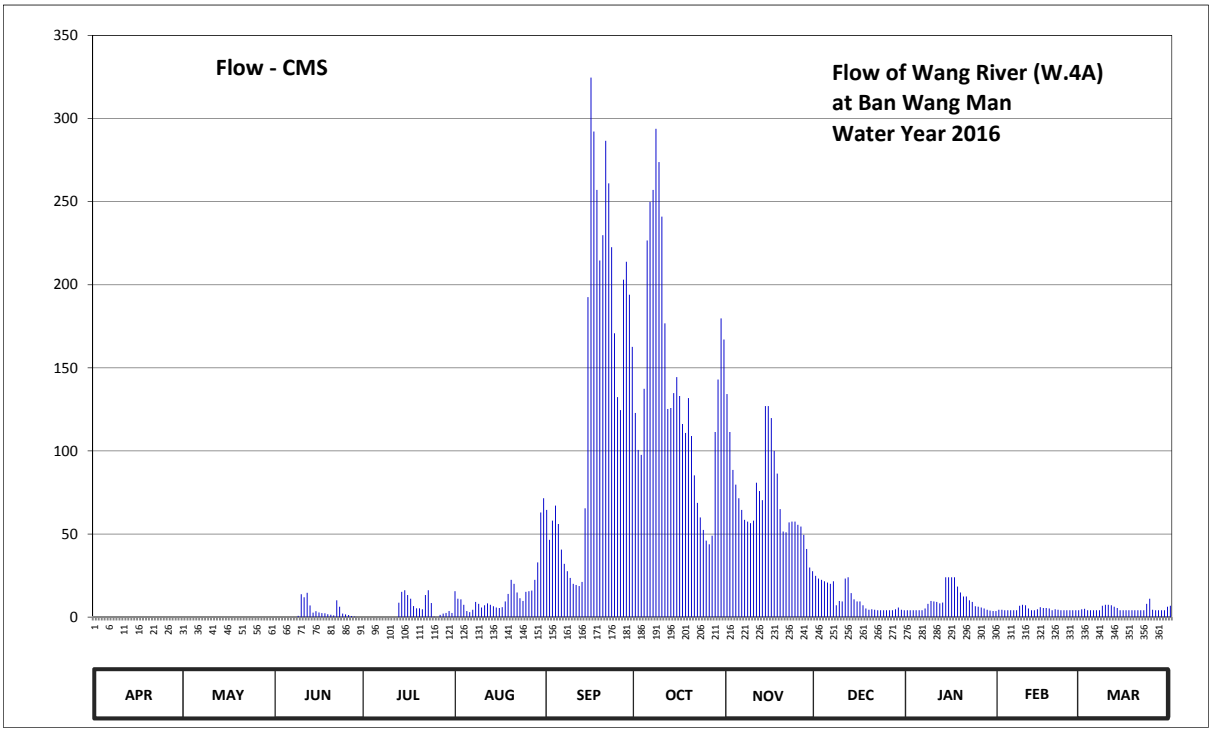
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.00	130.00	130.00	130.00	130.99	131.97	132.98	133.17	131.12	130.63	130.64	130.65	
2	130.00	130.00	130.00	130.00	130.87	131.61	132.61	132.79	131.08	130.63	130.64	130.66	
3	130.00	130.00	130.00	130.00	130.86	131.84	132.56	132.41	131.06	130.63	130.63	130.63	
4	130.00	130.00	130.00	130.00	130.75	132.02	133.22	132.25	131.04	130.63	130.63	130.63	
5	130.00	130.00	130.00	130.00	130.61	131.80	134.42	132.10	131.02	130.63	130.63	130.63	
6	130.00	130.00	130.00	130.00	130.58	131.48	134.71	131.97	131.00	130.63	130.63	130.63	
7	130.00	130.00	130.00	130.00	130.64	131.29	134.80	131.85	131.04	130.67	130.63	130.63	
8	130.00	130.00	130.00	130.00	130.81	131.19	135.26	131.83	130.74	130.77	130.73	130.73	
9	130.00	130.00	130.11	130.00	130.77	131.09	135.01	131.81	130.83	130.83	130.75	130.75	
10	130.00	130.00	130.80	130.00	130.69	131.00	134.60	131.84	130.82	130.82	130.74	130.75	
11	130.00	130.00	130.73	130.00	130.74	130.98	133.77	132.27	131.09	130.81	130.67	130.74	
12	130.00	130.00	130.83	130.00	130.78	130.96	133.02	132.18	131.16	130.78	130.63	130.71	
13	130.00	130.00	130.52	130.60	130.75	131.03	133.03	132.08	130.96	130.80	130.63	130.68	
14	130.00	130.00	130.27	130.85	130.72	131.99	133.18	133.05	130.86	131.17	130.65	130.63	
15	130.00	130.00	130.33	130.88	130.69	133.98	133.32	133.05	130.82	131.43	130.70	130.63	
16	130.00	130.00	130.28	130.78	130.68	135.64	133.15	132.93	130.82	131.24	130.68	130.63	
17	130.00	130.00	130.25	130.70	130.70	135.24	132.87	132.60	130.74	131.11	130.68	130.63	
18	130.00	130.00	130.24	130.50	130.82	134.80	132.78	132.37	130.67	131.03	130.67	130.63	
19	130.00	130.00	130.20	130.43	130.95	134.27	133.13	131.98	130.64	130.97	130.63	130.63	
20	130.00	130.00	130.17	130.43	131.08	134.46	132.75	131.71	130.65	130.91	130.65	130.63	
21	130.00	130.00	130.14	130.40	131.05	135.17	132.35	131.70	130.64	130.91	130.64	130.63	
22	130.00	130.00	130.66	130.78	130.97	134.85	132.05	131.82	130.63	130.84	130.63	130.63	
23	130.00	130.00	130.48	130.88	130.88	134.37	131.88	131.83	130.63	130.81	130.63	130.77	
24	130.00	130.00	130.23	130.59	130.83	133.69	131.73	131.83	130.63	130.72	130.63	130.87	
25	130.00	130.00	130.19	130.42	130.98	133.14	131.60	131.79	130.63	130.71	130.63	130.64	
26	130.00	130.00	130.15	130.37	130.99	133.01	131.55	131.77	130.63	130.69	130.63	130.63	
27	130.00	130.00	130.10	130.49	131.00	134.12	131.66	131.67	130.63	130.67	130.63	130.63	
28	130.00	130.00	130.04	130.53	131.08	134.26	132.79	131.49	130.65	130.64	130.63	130.63	
29	130.00	130.00	130.00	130.55	131.31	134.00	133.30	131.24	130.69	130.62		130.63	
30	130.00	130.00	130.00	130.61	131.94	133.58	133.81	131.19	130.64	130.61		130.71	
31		130.00		130.55	132.10		133.64		130.63	130.61		130.73	
Mean	130.00	130.00	130.22	130.37	130.92	132.96	133.15	132.09	130.81	130.80	130.65	130.67	
Max	130.00	130.00	130.83	130.88	132.10	135.64	135.26	133.17	131.16	131.43	130.75	130.87	135.64
Min	130.00	130.00	130.00	130.00	130.58	130.96	131.55	131.19	130.63	130.61	130.63	130.63	130.00

Annual Max Momentary Gage Height 135.73 m. (MSL.) , at 12.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 130.00 m. (MSL.) , River Bed 129.38 m. (MSL.)

Left Bank Elevation 141.87 m. (MSL.) ,

Right Bank Elevation 141.94 m. (MSL.) , Drainage Are 10,439 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	15.60	64.50	122.80	134.20	24.80	4.18	4.44	4.70		
2	0.00	0.00	0.00	0.00	11.04	46.50	100.60	111.40	23.20	4.18	4.44	4.96		
3	0.00	0.00	0.00	0.00	10.72	58.00	97.60	88.60	22.40	4.18	4.18	4.18		
4	0.00	0.00	0.00	0.00	7.40	67.10	137.40	79.75	21.60	4.18	4.18	4.18		
5	0.00	0.00	0.00	0.00	3.66	56.00	226.60	71.50	20.80	4.18	4.18	4.18		
6	0.00	0.00	0.00	0.00	3.02	40.60	249.80	64.50	20.00	4.18	4.18	4.18		
7	0.00	0.00	0.00	0.00	4.44	32.05	257.00	58.50	21.60	5.22	4.18	4.18		
8	0.00	0.00	0.00	0.00	9.12	27.60	293.80	57.50	7.12	7.96	6.84	6.84		
9	0.00	0.00	0.80	0.00	7.96	23.60	273.80	56.50	9.76	9.76	7.40	7.40		
10	0.00	0.00	13.80	0.00	5.74	20.00	241.00	58.00	9.44	9.44	7.12	7.40		
11	0.00	0.00	11.91	0.00	7.12	19.34	176.75	80.85	23.20	9.12	5.22	7.12		
12	0.00	0.00	14.67	0.00	8.24	18.68	125.20	75.90	24.00	8.24	4.18	6.28		
13	0.00	0.00	7.02	8.70	7.40	21.20	125.80	70.40	14.40	8.80	4.18	5.48		
14	0.00	0.00	2.68	15.25	6.56	65.50	134.80	127.00	10.72	24.00	4.70	4.18		
15	0.00	0.00	3.58	16.12	5.74	192.50	144.40	127.00	9.44	24.00	6.00	4.18		
16	0.00	0.00	2.82	13.26	5.48	324.60	133.00	119.80	9.44	24.00	5.48	4.18		
17	0.00	0.00	2.40	11.10	6.00	292.20	116.20	100.00	7.12	24.00	5.48	4.18		
18	0.00	0.00	2.26	6.60	9.44	257.00	110.80	86.35	5.22	18.40	5.22	4.18		
19	0.00	0.00	1.70	5.27	14.00	214.60	131.80	65.00	4.44	14.80	4.18	4.18		
20	0.00	0.00	1.40	5.27	22.40	229.80	109.00	51.50	4.70	12.40	4.70	4.18		
21	0.00	0.00	1.10	4.70	20.00	286.60	85.25	51.00	4.44	12.40	4.44	4.18		
22	0.00	0.00	10.14	13.26	14.80	261.00	68.75	57.00	4.18	10.08	4.18	4.18		
23	0.00	0.00	6.22	16.12	11.36	222.60	60.00	57.50	4.18	9.12	4.18	7.96		
24	0.00	0.00	2.12	8.49	9.76	170.75	52.50	57.50	4.18	6.56	4.18	11.04		
25	0.00	0.00	1.60	0.30	15.20	132.40	46.00	55.50	4.18	6.28	4.18	4.44		
26	0.00	0.00	1.20	0.00	15.60	124.60	43.75	54.50	4.18	5.74	4.18	4.18		
27	0.00	0.00	0.70	1.35	16.00	203.00	49.00	49.50	4.18	5.22	4.18	4.18		
28	0.00	0.00	0.28	2.07	22.40	213.80	111.40	41.05	4.70	4.44	4.18	4.18		
29	0.00	0.00	0.00	2.45	32.95	194.00	143.00	29.80	5.74	3.92		4.18		
30	0.00	0.00	0.00	3.66	63.00	162.60	179.75	27.60	4.44	3.66		6.28		
31		0.00		2.45	71.50		167.00		4.18	3.66		6.84		
Total	0.00	0.00	88.40	136.42	463.65	4042.72	4314.55	2165.20	341.98	296.30	134.18	161.98	12145.38	CMSDAY
Mean	0.00	0.00	2.95	4.40	14.96	134.76	139.18	72.17	11.03	9.56	4.79	5.23	33.28	CMS
Max	0.00	0.00	14.67	16.12	71.50	324.60	293.80	134.20	24.80	24.00	7.40	11.04	324.60	CMS
Min	0.00	0.00	0.00	0.00	3.02	18.68	43.75	27.60	4.18	3.66	4.18	4.18	0.00	CMS
Runoff	0.00	0.00	7.64	11.79	40.06	349.29	372.78	187.07	29.55	25.60	11.59	14.00	1049.36	MCM

Momentary Peak 332.70 CMS. at 135.73 m. (MSL.) at 12.00 Hours , on Sep 16 , 2016

Runoff Yield 3.17 Liters/Second/Square KM. Momentary Peak Yield 31.710 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Don Mun , Lampang (W.10A)

Lat 18 - 31 - 16 N Long 99 - 37 - 52 E

Location : on left bank at Ban Don Mun

Ban Don Mun **Amphoe** Mueang **Changwat** Lampang

Drainge Area	2,798 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+259.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the bridge. **Elevation** +270.290 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Flot	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

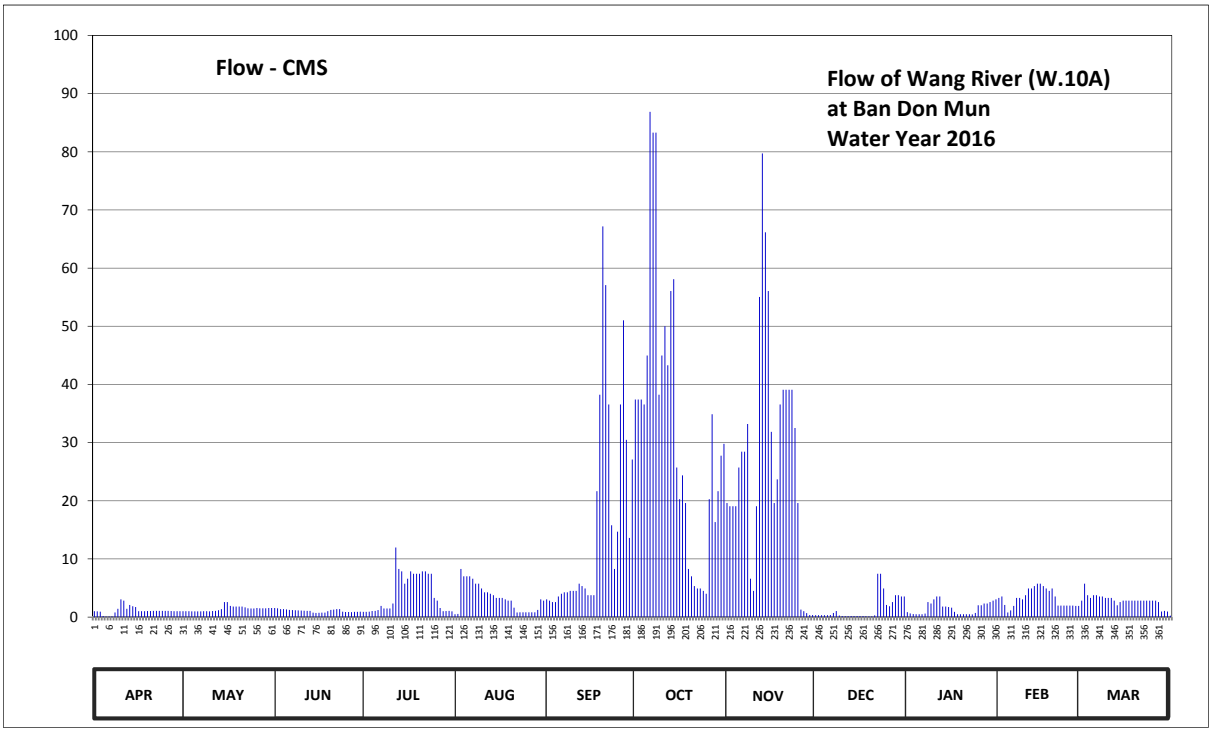
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	260.11	260.11	260.31	260.05	259.85	260.44	261.05	260.80	259.77	260.03	260.45	260.43	
2	260.10	260.11	260.30	260.05	259.87	260.43	261.05	260.79	259.77	259.91	260.46	260.53	
3	260.07	260.11	260.26	260.06	260.59	260.42	261.05	260.79	259.77	259.86	260.40	260.47	
4	259.70	260.10	260.26	260.12	260.56	260.42	261.04	260.79	259.77	259.84	260.00	260.45	
5	259.62	260.10	260.24	260.13	260.56	260.46	261.14	260.89	259.77	259.85	260.18	260.47	
6	259.62	260.10	260.21	260.20	260.56	260.48	261.54	260.93	259.78	259.85	260.37	260.47	
7	259.64	260.10	260.20	260.37	260.55	260.49	261.51	260.93	259.95	259.90	260.45	260.46	
8	260.00	260.11	260.19	260.29	260.53	260.49	261.51	261.00	260.12	260.42	260.45	260.46	
9	260.28	260.11	260.17	260.29	260.53	260.50	261.06	260.55	259.73	260.41	260.44	260.45	
10	260.44	260.10	260.16	260.29	260.51	260.50	261.14	260.50	259.69	260.44	260.47	260.45	
11	260.43	260.12	260.15	260.41	260.49	260.50	261.20	260.79	259.67	260.46	260.51	260.45	
12	260.28	260.14	260.14	260.66	260.49	260.53	261.12	261.25	259.67	260.46	260.51	260.43	
13	260.40	260.19	260.13	260.59	260.48	260.52	261.26	261.48	259.68	260.35	260.52	260.39	
14	260.36	260.26	259.99	260.58	260.47	260.51	261.28	261.36	259.68	260.35	260.53	260.42	
15	260.34	260.42	259.96	260.53	260.45	260.47	260.89	261.26	259.68	260.34	260.53	260.43	
16	260.11	260.42	259.97	260.55	260.45	260.47	260.81	260.98	259.68	260.32	260.52	260.43	
17	260.11	260.37	259.98	260.58	260.45	260.47	260.87	260.80	259.68	260.05	260.51	260.43	
18	260.11	260.35	259.98	260.57	260.44	260.83	260.80	260.86	259.65	259.85	260.50	260.43	
19	260.12	260.35	260.11	260.57	260.43	261.06	260.59	261.04	259.63	259.84	260.51	260.43	
20	260.12	260.35	260.21	260.57	260.43	261.37	260.56	261.07	259.63	259.84	260.46	260.43	
21	260.13	260.35	260.23	260.58	260.32	261.27	260.52	261.07	259.75	259.84	260.38	260.43	
22	260.13	260.33	260.26	260.58	260.00	261.04	260.51	261.07	260.57	259.84	260.38	260.43	
23	260.13	260.30	260.26	260.57	260.01	260.73	260.51	261.07	260.57	259.83	260.38	260.43	
24	260.13	260.29	260.06	260.57	260.01	260.59	260.50	260.99	260.51	259.95	260.38	260.43	
25	260.13	260.29	260.04	260.45	260.01	260.71	260.48	260.80	260.40	260.39	260.38	260.43	
26	260.13	260.31	260.04	260.43	260.01	261.04	260.81	260.23	260.36	260.39	260.38	260.43	
27	260.12	260.30	260.03	260.31	260.01	261.21	261.02	260.11	260.42	260.41	260.37	260.42	
28	260.11	260.30	260.05	260.11	260.01	260.96	260.74	259.94	260.47	260.41	260.37	260.08	
29	260.11	260.30	260.05	260.12	260.21	260.69	260.83	259.78	260.47	260.42		260.13	
30	260.11	260.31	260.06	260.13	260.44	260.91	260.92	259.78	260.46	260.43		260.08	
31		260.31		260.09	260.43		260.95		260.46	260.44		259.72	
Mean	260.11	260.24	260.13	260.37	260.33	260.68	260.94	260.79	259.97	260.15	260.42	260.38	
Max	260.44	260.42	260.31	260.66	260.59	261.37	261.54	261.48	260.57	260.46	260.53	260.53	261.54
Min	259.62	260.10	259.96	260.05	259.85	260.42	260.48	259.78	259.63	259.83	260.00	259.72	259.62

Annual Max Momentary Gage Height 261.65 m. (MSL.) , at 06.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 259.00 m. (MSL.) , River Bed 258.10 m. (MSL.)

Left Bank Elevation 270.17 m. (MSL.) ,

Right Bank Elevation 269.87 m. (MSL.) , Drainage Are 2,798 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.02	1.02	1.56	0.90	0.50	3.06	37.40	19.60	0.34	0.86	3.30	2.82	
2	1.00	1.02	1.50	0.90	0.54	2.82	37.40	19.06	0.34	0.62	3.54	5.76	
3	0.94	1.02	1.38	0.92	8.28	2.58	37.40	19.06	0.34	0.52	2.10	3.78	
4	0.20	1.00	1.38	1.04	7.02	2.58	36.56	19.06	0.34	0.48	0.80	3.30	
5	0.12	1.00	1.32	1.06	7.02	3.54	44.96	25.72	0.34	0.50	1.16	3.78	
6	0.12	1.00	1.23	1.20	7.02	4.02	86.86	28.44	0.36	0.50	1.92	3.78	
7	0.14	1.00	1.20	1.92	6.60	4.26	83.29	28.44	0.70	0.60	3.30	3.54	
8	0.80	1.02	1.18	1.47	5.76	4.26	83.29	33.20	1.04	2.58	3.30	3.54	
9	1.44	1.02	1.14	1.47	5.76	4.50	38.24	6.60	0.26	2.34	3.06	3.30	
10	3.06	1.00	1.12	1.47	4.92	4.50	44.96	4.50	0.19	3.06	3.78	3.30	
11	2.82	1.04	1.10	2.34	4.26	4.50	50.00	19.06	0.17	3.54	4.92	3.30	
12	1.44	1.08	1.08	11.97	4.26	5.76	43.28	55.05	0.17	3.54	4.92	2.82	
13	2.10	1.18	1.06	8.28	4.02	5.34	56.06	79.72	0.18	1.80	5.34	2.04	
14	1.86	1.38	0.78	7.86	3.78	4.92	58.08	66.16	0.18	1.80	5.76	2.58	
15	1.74	2.58	0.72	5.76	3.30	3.78	25.72	56.06	0.18	1.74	5.76	2.82	
16	1.02	2.58	0.74	6.60	3.30	3.78	20.28	31.84	0.18	1.62	5.34	2.82	
17	1.02	1.92	0.76	7.86	3.30	3.78	24.36	19.60	0.18	0.90	4.92	2.82	
18	1.02	1.80	0.76	7.44	3.06	21.64	19.60	23.68	0.15	0.50	4.50	2.82	
19	1.04	1.80	1.02	7.44	2.82	38.24	8.28	36.56	0.13	0.48	4.92	2.82	
20	1.04	1.80	1.23	7.44	2.82	67.17	7.02	39.08	0.13	0.48	3.54	2.82	
21	1.06	1.80	1.29	7.86	1.62	57.07	5.34	39.08	0.30	0.48	1.98	2.82	
22	1.06	1.68	1.38	7.86	0.80	36.56	4.92	39.08	7.44	0.48	1.98	2.82	
23	1.06	1.50	1.38	7.44	0.82	15.79	4.92	39.08	7.44	0.46	1.98	2.82	
24	1.06	1.47	0.92	7.44	0.82	8.28	4.50	32.52	4.92	0.70	1.98	2.82	
25	1.06	1.47	0.88	3.30	0.82	14.70	4.02	19.60	2.10	2.04	1.98	2.82	
26	1.06	1.56	0.88	2.82	0.82	36.56	20.28	1.29	1.86	2.04	1.98	2.82	
27	1.04	1.50	0.86	1.56	0.82	51.01	34.88	1.02	2.58	2.34	1.92	2.58	
28	1.02	1.50	0.90	1.02	0.82	30.48	16.33	0.68	3.78	2.34	1.92	0.96	
29	1.02	1.50	0.90	1.04	1.23	13.61	21.64	0.36	3.78	2.58		1.06	
30	1.02	1.56	0.92	1.06	3.06	27.08	27.76	0.36	3.54	2.82		0.96	
31		1.56		0.98	2.82		29.80		3.54	3.06		0.24	
Total	34.40	44.36	32.57	127.72	102.79	486.17	1017.43	803.56	47.18	47.80	91.90	87.28	2923.16 CMSDAY
Mean	1.15	1.43	1.09	4.12	3.32	16.21	32.82	26.79	1.52	1.54	3.28	2.82	8.01 CMS
Max	3.06	2.58	1.56	11.97	8.28	67.17	86.86	79.72	7.44	3.54	5.76	5.76	86.86 CMS
Min	0.12	1.00	0.72	0.90	0.50	2.58	4.02	0.36	0.13	0.46	0.80	0.24	0.12 CMS
Runoff	2.97	3.83	2.81	11.04	8.88	42.01	87.91	69.43	4.08	4.13	7.94	7.54	252.56 MCM

Momentary Peak 101.12 CMS. at 261.65 m. (MSL.) at 06.00 Hours , on Oct 6 , 2016

Runoff Yield 2.86 Liters/Second/Square KM. Momentary Peak Yield 36.140 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

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

Lat 18 - 46 - 45 N Long 99 - 37 - 52 E

Location : on left bank at Ban Hai

Ban Hai **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	1,392 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+304.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10.00 meters from the top staff gage. **Elevation** +310.113 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1995 to date
Rated by Flot	-
Rated by Current Meter	1995 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.The pumping station is located about 150 meters upstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

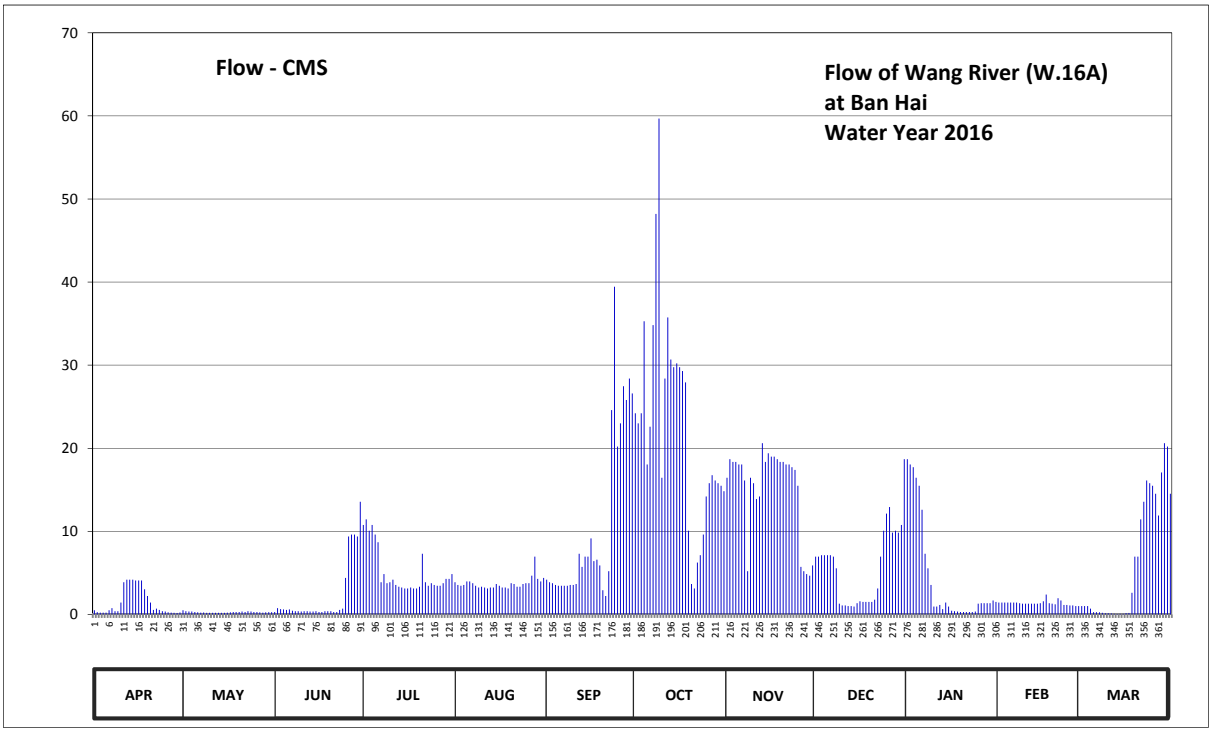
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	304.74	304.74	304.70	305.52	305.14	305.17	305.93	305.72	305.34	305.79	304.89	304.83	
2	304.69	304.72	304.79	305.55	305.11	305.14	305.90	305.79	305.34	305.77	304.89	304.83	
3	304.66	304.71	304.77	305.49	305.10	305.13	305.93	305.78	305.35	305.76	304.89	304.83	
4	304.66	304.71	304.76	305.52	305.11	305.11	306.18	305.78	305.35	305.72	304.89	304.78	
5	304.66	304.70	304.75	305.47	305.15	305.10	305.77	305.77	305.35	305.69	304.89	304.69	
6	304.74	304.68	304.76	305.43	305.15	305.10	305.89	305.77	305.35	305.60	304.89	304.69	
7	304.79	304.66	304.73	305.14	305.13	305.10	306.17	305.71	305.34	305.36	304.89	304.68	
8	304.72	304.67	304.72	305.22	305.10	305.10	306.42	305.24	305.26	305.26	304.88	304.65	
9	304.72	304.65	304.72	305.13	305.08	305.11	306.61	305.72	304.87	305.11	304.87	304.62	
10	304.89	304.65	304.71	305.14	305.09	305.11	305.72	305.70	304.84	304.82	304.87	304.62	
11	305.14	304.65	304.72	305.17	305.08	305.12	306.03	305.64	304.84	304.82	304.87	304.61	
12	305.17	304.65	304.72	305.11	305.07	305.36	306.19	305.65	304.83	304.85	304.87	304.59	
13	305.17	304.65	304.71	305.09	305.08	305.27	306.08	305.84	304.83	304.77	304.87	304.57	
14	305.17	304.65	304.71	305.08	305.08	305.34	306.06	305.78	304.82	304.89	304.87	304.58	
15	305.16	304.65	304.72	305.07	305.12	305.34	306.07	305.81	304.88	304.82	304.88	304.59	
16	305.16	304.66	304.70	305.07	305.10	305.45	306.06	305.80	304.91	304.73	304.91	304.63	
17	305.16	304.68	304.70	305.08	305.08	305.31	306.05	305.80	304.90	304.72	305.00	304.64	
18	305.06	304.70	304.72	305.07	305.08	305.32	306.02	305.79	304.90	304.71	304.88	305.02	
19	304.98	304.70	304.72	305.07	305.07	305.28	305.49	305.78	304.90	304.70	304.87	305.34	
20	304.89	304.70	304.72	305.09	305.13	305.05	305.12	305.78	304.90	304.70	304.86	305.34	
21	304.75	304.71	304.70	305.36	305.12	304.98	305.07	305.77	304.93	304.70	304.95	305.55	
22	304.78	304.70	304.70	305.14	305.09	305.24	305.30	305.77	305.07	304.70	304.92	305.63	
23	304.75	304.72	304.75	305.10	305.09	305.94	305.35	305.76	305.34	304.70	304.85	305.71	
24	304.72	304.71	304.78	305.13	305.12	306.26	305.47	305.75	305.49	304.71	304.85	305.70	
25	304.71	304.70	305.19	305.11	305.13	305.83	305.65	305.69	305.58	304.87	304.84	305.69	
26	304.68	304.70	305.46	305.10	305.13	305.90	305.70	305.27	305.61	304.88	304.84	305.66	
27	304.66	304.68	305.47	305.10	305.21	306.01	305.73	305.24	305.48	304.88	304.83	305.57	
28	304.65	304.66	305.47	305.13	305.34	305.97	305.71	305.22	305.49	304.88	304.83	305.74	
29	304.64	304.68	305.46	305.18	305.18	306.03	305.70	305.21	305.48	304.88		305.84	
30	304.67	304.69	305.63	305.18	305.15	305.99	305.69	305.28	305.52	304.92		305.83	
31		304.69		305.22	305.19		305.67		305.79	304.90		305.66	
Mean	304.84	304.68	304.87	305.20	305.12	305.41	305.83	305.65	305.19	305.02	304.88	305.09	
Max	305.17	304.74	305.63	305.55	305.34	306.26	306.61	305.84	305.79	305.79	305.00	305.84	306.61
Min	304.64	304.65	304.70	305.07	305.07	304.98	305.07	305.21	304.82	304.70	304.83	304.57	304.57

Annual Max Momentary Gage Height 307.95 m. (MSL.) , at 06.00 Hours , on Oct 9 , 2016

Zero Gage at Bottom Elevation 304.00 m. (MSL.) , River Bed 303.63 m. (MSL.)

Left Bank Elevation 310.13 m. (MSL.) ,

Right Bank Elevation 310.11 m. (MSL.) , Drainage Are 1,392 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	0.50	0.30	10.76	3.87	4.18	24.20	16.44	6.95	18.68	1.43	1.01		
2	0.28	0.40	0.75	11.45	3.55	3.87	23.00	18.68	6.95	18.04	1.43	1.01		
3	0.22	0.35	0.65	10.07	3.45	3.76	24.20	18.36	7.13	17.72	1.43	1.01		
4	0.22	0.35	0.60	10.76	3.55	3.55	35.28	18.36	7.13	16.44	1.43	0.70		
5	0.22	0.30	0.55	9.61	3.97	3.45	18.04	18.04	7.13	15.48	1.43	0.28		
6	0.50	0.26	0.60	8.69	3.97	3.45	22.60	18.04	7.13	12.60	1.43	0.28		
7	0.75	0.22	0.45	3.87	3.76	3.45	34.82	16.12	6.95	7.30	1.43	0.26		
8	0.40	0.24	0.40	4.85	3.45	3.45	48.20	5.20	5.55	5.55	1.36	0.20		
9	0.40	0.20	0.40	3.76	3.24	3.55	59.67	16.44	1.29	3.55	1.29	0.14		
10	1.43	0.20	0.35	3.87	3.34	3.55	16.44	15.80	1.08	0.94	1.29	0.14		
11	3.87	0.20	0.40	4.18	3.24	3.66	28.38	13.88	1.08	0.94	1.29	0.12		
12	4.18	0.20	0.40	3.55	3.13	7.30	35.74	14.20	1.01	1.15	1.29	0.09		
13	4.18	0.20	0.35	3.34	3.24	5.72	30.68	20.60	1.01	0.65	1.29	0.07		
14	4.18	0.20	0.35	3.24	3.24	6.95	29.76	18.36	0.94	1.43	1.29	0.08		
15	4.08	0.20	0.40	3.13	3.66	6.95	30.22	19.40	1.36	0.94	1.36	0.09		
16	4.08	0.22	0.30	3.13	3.45	9.15	29.76	19.00	1.59	0.45	1.59	0.16		
17	4.08	0.26	0.30	3.24	3.24	6.42	29.30	19.00	1.50	0.40	2.40	0.18		
18	3.03	0.30	0.40	3.13	3.24	6.60	27.92	18.68	1.50	0.35	1.36	2.61		
19	2.22	0.30	0.40	3.13	3.13	5.90	10.07	18.36	1.50	0.30	1.29	6.95		
20	1.43	0.30	0.40	3.34	3.76	2.92	3.66	18.36	1.50	0.30	1.22	6.95		
21	0.55	0.35	0.30	7.30	3.66	2.22	3.13	18.04	1.77	0.30	1.95	11.45		
22	0.70	0.30	0.30	3.87	3.34	5.20	6.25	18.04	3.13	0.30	1.68	13.56		
23	0.55	0.40	0.55	3.45	3.34	24.60	7.13	17.72	6.95	0.30	1.15	16.12		
24	0.40	0.35	0.70	3.76	3.66	39.44	9.61	17.40	10.07	0.35	1.15	15.80		
25	0.35	0.30	4.39	3.55	3.76	20.20	14.20	15.48	12.14	1.29	1.08	15.48		
26	0.26	0.30	9.38	3.45	3.76	23.00	15.80	5.72	12.92	1.36	1.08	14.52		
27	0.22	0.26	9.61	3.45	4.67	27.46	16.76	5.20	9.84	1.36	1.01	11.91		
28	0.20	0.22	9.61	3.76	6.95	25.80	16.12	4.85	10.07	1.36	1.01	17.08		
29	0.18	0.26	9.38	4.29	4.29	28.38	15.80	4.67	9.84	1.36		20.60		
30	0.24	0.28	13.56	4.29	3.97	26.60	15.48	5.90	10.76	1.68		20.20		
31		0.28		4.85	4.39		14.84		18.68	1.50		14.52		
Total	43.90	8.70	66.53	157.12	115.27	320.73	697.06	454.34	176.45	134.37	38.44	193.57	2406.48	CMSDAY
Mean	1.46	0.28	2.22	5.07	3.72	10.69	22.49	15.14	5.69	4.33	1.37	6.24	6.59	CMS
Max	4.18	0.50	13.56	11.45	6.95	39.44	59.67	20.60	18.68	18.68	2.40	20.60	59.67	CMS
Min	0.18	0.20	0.30	3.13	3.13	2.22	3.13	4.67	0.94	0.30	1.01	0.07	0.07	CMS
Runoff	3.79	0.75	5.75	13.58	9.96	27.71	60.23	39.25	15.25	11.61	3.32	16.72	207.92	MCM

Momentary Peak 175.38 CMS. at 307.95 m. (MSL.) at 06.00 Hours , on Oct 9 , 2016

Runoff Yield 4.74 Liters/Second/Square KM. Momentary Peak Yield 125.990 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

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

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

Ban Nong Nao **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	726 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+292.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 21 meters from the top staff gage. **Elevation** +296.276 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1980 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Flot	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

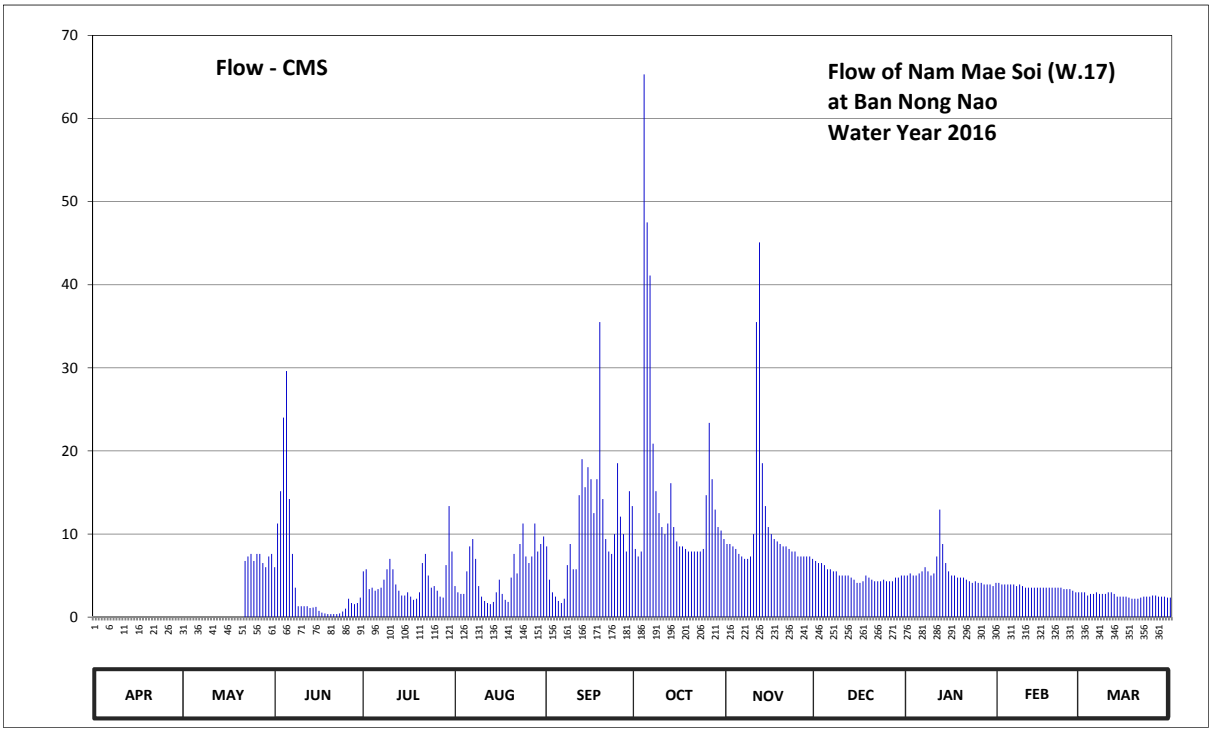
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.57	291.57	291.66	291.64	291.56	291.75	291.74	291.76	291.69	291.62	291.58	291.52	
2	291.58	291.56	291.83	291.65	291.52	291.60	291.71	291.76	291.68	291.63	291.57	291.52	
3	291.58	291.55	291.92	291.54	291.51	291.52	291.73	291.75	291.68	291.62	291.57	291.50	
4	291.58	291.55	292.08	291.55	291.51	291.49	292.58	291.74	291.67	291.62	291.57	291.51	
5	291.59	291.55	292.17	291.53	291.64	291.45	292.40	291.72	291.65	291.63	291.57	291.51	
6	291.58	291.54	291.90	291.54	291.75	291.43	292.32	291.71	291.65	291.64	291.57	291.52	
7	291.58	291.51	291.72	291.55	291.78	291.47	292.03	291.70	291.64	291.66	291.56	291.51	
8	291.57	291.50	291.55	291.60	291.70	291.67	291.92	291.70	291.64	291.64	291.57	291.51	
9	291.56	291.50	291.40	291.65	291.56	291.76	291.86	291.71	291.62	291.62	291.56	291.51	
10	291.55	291.50	291.40	291.70	291.49	291.65	291.82	291.80	291.62	291.63	291.55	291.52	
11	291.57	291.51	291.40	291.65	291.45	291.65	291.80	292.25	291.62	291.71	291.55	291.52	
12	291.57	291.50	291.40	291.57	291.43	291.91	291.83	292.37	291.62	291.87	291.55	291.51	
13	291.58	291.49	291.37	291.53	291.42	292.00	291.94	291.99	291.61	291.76	291.55	291.49	
14	291.60	291.48	291.38	291.50	291.44	291.93	291.82	291.88	291.60	291.68	291.55	291.49	
15	291.61	291.49	291.39	291.50	291.52	291.98	291.77	291.82	291.58	291.64	291.55	291.49	
16	291.62	291.56	291.32	291.52	291.60	291.95	291.75	291.80	291.58	291.62	291.55	291.49	
17	291.62	291.64	291.28	291.49	291.51	291.86	291.75	291.78	291.59	291.62	291.55	291.48	
18	291.63	291.63	291.25	291.46	291.46	291.95	291.74	291.77	291.62	291.61	291.55	291.47	
19	291.61	291.56	291.22	291.47	291.44	292.25	291.73	291.76	291.61	291.61	291.55	291.47	
20	291.59	291.55	291.22	291.52	291.61	291.90	291.73	291.75	291.60	291.61	291.55	291.47	
21	291.57	291.54	291.22	291.68	291.72	291.78	291.73	291.75	291.59	291.60	291.55	291.48	
22	291.56	291.69	291.22	291.72	291.63	291.73	291.73	291.74	291.59	291.59	291.55	291.49	
23	291.54	291.71	291.25	291.62	291.76	291.72	291.73	291.73	291.59	291.58	291.54	291.49	
24	291.54	291.72	291.31	291.55	291.83	291.80	291.74	291.73	291.60	291.59	291.54	291.49	
25	291.54	291.69	291.36	291.56	291.71	291.99	291.91	291.71	291.59	291.58	291.54	291.50	
26	291.53	291.72	291.47	291.53	291.68	291.85	292.07	291.71	291.59	291.58	291.53	291.50	
27	291.54	291.72	291.43	291.49	291.71	291.80	291.95	291.71	291.59	291.57	291.52	291.49	
28	291.56	291.68	291.42	291.48	291.83	291.73	291.87	291.71	291.61	291.57	291.52	291.49	
29	291.54	291.66	291.43	291.67	291.73	291.92	291.82	291.71	291.61	291.57		291.49	
30	291.54	291.71	291.48	291.88	291.76	291.88	291.81	291.70	291.62	291.56		291.48	
31		291.72		291.73	291.79		291.78		291.62	291.58		291.48	
Mean	291.57	291.59	291.48	291.58	291.61	291.78	291.87	291.79	291.62	291.63	291.55	291.50	
Max	291.63	291.72	292.17	291.88	291.83	292.25	292.58	292.37	291.69	291.87	291.58	291.52	292.58
Min	291.53	291.48	291.22	291.46	291.42	291.43	291.71	291.70	291.58	291.56	291.52	291.47	291.22

Annual Max Momentary Gage Height 293.47 m. (MSL.) , at 15.00 Hours , on Oct 4 , 2016

Zero Gage at Bottom Elevation 292.00 m. (MSL.) , River Bed 290.84 m. (MSL.)

Left Bank Elevation 296.45 m. (MSL.) ,

Right Bank Elevation 296.49 m. (MSL.) , Drainage Are 726 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.00	5.50	3.74	8.50	8.20	8.80	6.75	5.00	4.12	2.98	
2	0.00	0.00	11.26	5.75	2.98	4.50	7.30	8.80	6.50	5.25	3.93	2.98	
3	0.00	0.00	15.16	3.36	2.79	2.98	7.90	8.50	6.50	5.00	3.93	2.60	
4	0.00	0.00	24.00	3.55	2.79	2.47	65.32	8.20	6.25	5.00	3.93	2.79	
5	0.00	0.00	29.62	3.17	5.50	1.95	47.50	7.60	5.75	5.25	3.93	2.79	
6	0.00	0.00	14.20	3.36	8.50	1.69	41.10	7.30	5.75	5.50	3.93	2.98	
7	0.00	0.00	7.60	3.55	9.40	2.21	20.87	7.00	5.50	6.00	3.74	2.79	
8	0.00	0.00	3.55	4.50	7.00	6.25	15.16	7.00	5.50	5.50	3.93	2.79	
9	0.00	0.00	1.30	5.75	3.74	8.80	12.52	7.30	5.00	5.00	3.74	2.79	
10	0.00	0.00	1.30	7.00	2.47	5.75	10.84	10.00	5.00	5.25	3.55	2.98	
11	0.00	0.00	1.30	5.75	1.95	5.75	10.00	35.50	5.00	7.30	3.55	2.98	
12	0.00	0.00	1.30	3.93	1.69	14.68	11.26	45.10	5.00	12.94	3.55	2.79	
13	0.00	0.00	1.09	3.17	1.56	19.00	16.12	18.52	4.75	8.80	3.55	2.47	
14	0.00	0.00	1.16	2.60	1.82	15.64	10.84	13.36	4.50	6.50	3.55	2.47	
15	0.00	0.00	1.23	2.60	2.98	18.04	9.10	10.84	4.12	5.50	3.55	2.47	
16	0.00	0.00	0.74	2.98	4.50	16.60	8.50	10.00	4.12	5.00	3.55	2.47	
17	0.00	0.00	0.54	2.47	2.79	12.52	8.50	9.40	4.31	5.00	3.55	2.34	
18	0.00	0.00	0.45	2.08	2.08	16.60	8.20	9.10	5.00	4.75	3.55	2.21	
19	0.00	0.00	0.36	2.21	1.82	35.50	7.90	8.80	4.75	4.75	3.55	2.21	
20	0.00	0.00	0.36	2.98	4.75	14.20	7.90	8.50	4.50	4.75	3.55	2.21	
21	0.00	0.00	0.36	6.50	7.60	9.40	7.90	8.50	4.31	4.50	3.55	2.34	
22	0.00	6.75	0.36	7.60	5.25	7.90	7.90	8.20	4.31	4.31	3.55	2.47	
23	0.00	7.30	0.45	5.00	8.80	7.60	7.90	7.90	4.31	4.12	3.36	2.47	
24	0.00	7.60	0.67	3.55	11.26	10.00	8.20	7.90	4.50	4.31	3.36	2.47	
25	0.00	6.75	1.02	3.74	7.30	18.52	14.68	7.30	4.31	4.12	3.36	2.60	
26	0.00	7.60	2.21	3.17	6.50	12.10	23.37	7.30	4.31	4.12	3.17	2.60	
27	0.00	7.60	1.69	2.47	7.30	10.00	16.60	7.30	4.31	3.93	2.98	2.47	
28	0.00	6.50	1.56	2.34	11.26	7.90	12.94	7.30	4.75	3.93	2.98	2.47	
29	0.00	6.00	1.69	6.25	7.90	15.16	10.84	7.30	4.75	3.93		2.47	
30	0.00	7.30	2.34	13.36	8.80	13.36	10.42	7.00	5.00	3.74		2.34	
31		7.60		7.90	9.70		9.40		5.00	4.12		2.34	
Total	0.00	71.00	134.87	138.14	166.52	325.57	465.18	325.62	154.41	163.17	100.54	80.13	2125.15	CMSDAY
Mean	0.00	2.29	4.50	4.46	5.37	10.85	15.01	10.85	4.98	5.26	3.59	2.58	5.82	CMS
Max	0.00	7.60	29.62	13.36	11.26	35.50	65.32	45.10	6.75	12.94	4.12	2.98	65.32	CMS
Min	0.00	0.00	0.36	2.08	1.56	1.69	7.30	7.00	4.12	3.74	2.98	2.21	0.00	CMS
Runoff	0.00	6.13	11.65	11.94	14.39	28.13	40.19	28.13	13.34	14.10	8.69	6.92	183.61	MCM

Momentary Peak 209.25 CMS. at 293.47 m. (MSL.) at 15.00 Hours , on Oct 4 , 2016

Runoff Yield 8.02 Liters/Second/Square KM. Momentary Peak Yield 288.220 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Nam Mae Tui at Ban Tha Lo , Lampang (W.20)

Lat 18 - 18 - 34 N Long 99 - 27 - 40 E

Location : on left bank at the bridge of Lampang - Hang Chat Highway.

	Ban Tha Lo	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	941 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+230.420 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.	**Elevation**	+237.644 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

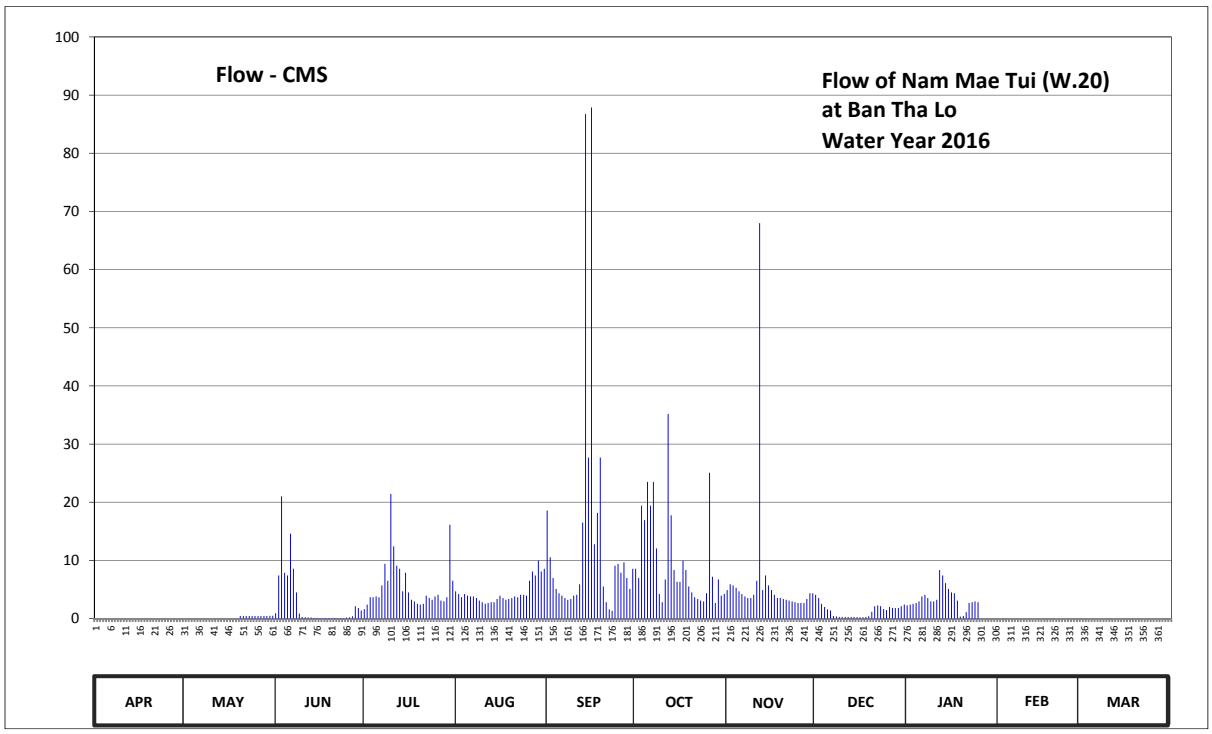
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.41	230.32	230.47	230.59	230.81	231.28	230.99	230.82	230.77	230.64	230.62	230.62	
2	230.40	230.33	230.94	230.65	230.78	231.06	230.92	230.87	230.73	230.65	230.62	230.62	
3	230.40	230.36	231.34	230.74	230.74	230.92	231.30	230.86	230.66	230.66	230.60	230.66	
4	230.40	230.37	230.96	230.74	230.78	230.83	231.24	230.84	230.62	230.67	230.59	230.67	
5	230.39	230.37	230.94	230.75	230.76	230.79	231.40	230.81	230.58	230.69	230.59	230.69	
6	230.38	230.37	231.18	230.74	230.75	230.76	231.30	230.78	230.55	230.75	230.57	230.70	
7	230.39	230.37	230.99	230.86	230.75	230.73	231.40	230.75	230.34	230.77	230.55	230.72	
8	230.39	230.38	230.80	231.02	230.73	230.71	231.11	230.73	230.26	230.73	230.53	230.69	
9	230.37	230.38	230.46	230.90	230.70	230.72	230.78	230.73	230.20	230.69	230.51	230.67	
10	230.36	230.38	230.19	231.35	230.68	230.76	230.68	230.77	230.19	230.69	230.50	230.65	
11	230.36	230.38	230.14	231.12	230.66	230.77	230.91	230.90	230.19	230.71	230.51	230.64	
12	230.35	230.38	230.11	231.01	230.67	230.87	231.62	232.07	230.18	230.98	230.51	230.63	
13	230.33	230.38	230.08	230.99	230.68	231.23	231.26	230.82	230.18	230.94	230.57	230.62	
14	230.32	230.35	230.03	230.81	230.68	232.26	230.98	230.94	230.18	230.88	230.64	230.62	
15	230.31	230.33	230.01	230.96	230.72	231.48	230.89	230.86	230.16	230.83	230.65	230.62	
16	230.30	230.31	230.00	230.80	230.76	232.27	230.89	230.82	230.13	230.80	230.65	230.62	
17	230.29	230.31	229.99	230.71	230.73	231.13	231.04	230.77	230.14	230.79	230.64	230.64	
18	230.28	230.31	229.99	230.69	230.71	231.27	230.98	230.73	230.18	230.70	230.63	230.65	
19	230.27	230.30	229.99	230.66	230.72	231.48	230.85	230.73	230.33	230.25	230.62	230.65	
20	230.26	230.35	230.00	230.65	230.73	230.85	230.80	230.72	230.51	230.34	230.62	230.64	
21	230.24	230.36	230.02	230.66	230.75	230.68	230.74	230.71	230.63	230.50	230.61	230.63	
22	230.23	230.36	229.99	230.76	230.74	230.58	230.72	230.70	230.64	230.67	230.61	230.64	
23	230.23	230.35	229.98	230.73	230.77	230.54	230.70	230.69	230.63	230.68	230.62	230.65	
24	230.21	230.35	229.98	230.71	230.77	231.01	230.69	230.68	230.59	230.69	230.63	230.66	
25	230.21	230.35	230.08	230.75	230.76	231.02	230.79	230.67	230.56	230.68	230.63	230.68	
26	230.19	230.35	230.14	230.77	230.90	230.96	231.43	230.67	230.62	230.68	230.63	230.69	
27	230.17	230.34	230.29	230.70	230.97	231.03	230.93	230.67	230.61	230.68	230.63	230.68	
28	230.16	230.34	230.63	230.69	230.94	230.92	230.67	230.72	230.61	230.66	230.63	230.66	
29	230.22	230.36	230.61	230.74	231.04	230.83	230.91	230.79	230.61	230.64		230.65	
30	230.32	230.39	230.55	231.22	230.97	230.99	230.76	230.79	230.63	230.63		230.64	
31		230.37		230.90	230.99		230.78		230.65	230.62		230.64	
Mean	230.30	230.35	230.36	230.82	230.78	231.02	230.98	230.81	230.45	230.69	230.60	230.65	
Max	230.41	230.39	231.34	231.35	231.04	232.27	231.62	232.07	230.77	230.98	230.65	230.72	232.27
Min	230.16	230.30	229.98	230.59	230.66	230.54	230.67	230.67	230.13	230.25	230.50	230.62	229.98

Annual Max Momentary Gage Height 232.71 m. (MSL.) , at 13.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 230.42 m. (MSL.) , River Bed 229.41 m. (MSL.)

Left Bank Elevation 238.02 m. (MSL.) ,

Right Bank Elevation 238.07 m. (MSL.) , Drainage Are 941 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.92	1.64	4.70	18.58	8.57	4.90	4.08	2.26	0.00	0.00		
2	0.00	0.00	7.42	2.40	4.22	10.54	6.96	5.90	3.52	2.40	0.00	0.00		
3	0.00	0.00	21.04	3.66	3.66	6.96	19.40	5.70	2.54	2.54	0.00	0.00		
4	0.00	0.00	7.88	3.66	4.22	5.10	16.94	5.30	1.98	2.68	0.00	0.00		
5	0.00	0.00	7.42	3.80	3.94	4.36	23.50	4.70	1.58	2.96	0.00	0.00		
6	0.00	0.00	14.58	3.66	3.80	3.94	19.40	4.22	1.40	3.80	0.00	0.00		
7	0.00	0.00	8.57	5.70	3.80	3.52	23.50	3.80	0.44	4.08	0.00	0.00		
8	0.00	0.00	4.50	9.38	3.52	3.24	12.06	3.52	0.36	3.52	0.00	0.00		
9	0.00	0.00	0.86	6.50	3.10	3.38	4.22	3.52	0.30	2.96	0.00	0.00		
10	0.00	0.00	0.29	21.45	2.82	3.94	2.82	4.08	0.29	2.96	0.00	0.00		
11	0.00	0.00	0.24	12.42	2.54	4.08	6.73	6.50	0.29	3.24	0.00	0.00		
12	0.00	0.00	0.21	9.09	2.68	5.90	35.20	67.98	0.28	8.34	0.00	0.00		
13	0.00	0.00	0.18	8.57	2.82	16.53	17.76	4.90	0.28	7.42	0.00	0.00		
14	0.00	0.00	0.13	4.70	2.82	86.75	8.34	7.42	0.28	6.10	0.00	0.00		
15	0.00	0.00	0.11	7.88	3.38	27.70	6.30	5.70	0.26	5.10	0.00	0.00		
16	0.00	0.00	0.10	4.50	3.94	87.88	6.30	4.90	0.23	4.50	0.00	0.00		
17	0.00	0.00	0.09	3.24	3.52	12.78	9.96	4.08	0.24	4.36	0.00	0.00		
18	0.00	0.00	0.09	2.96	3.24	18.17	8.34	3.52	0.28	3.10	0.00	0.00		
19	0.00	0.00	0.09	2.54	3.38	27.70	5.50	3.52	0.43	0.35	0.00	0.00		
20	0.00	0.45	0.10	2.40	3.52	5.50	4.50	3.38	1.16	0.44	0.00	0.00		
21	0.00	0.46	0.12	2.54	3.80	2.82	3.66	3.24	2.12	1.10	0.00	0.00		
22	0.00	0.46	0.09	3.94	3.66	1.58	3.38	3.10	2.26	2.68	0.00	0.00		
23	0.00	0.45	0.09	3.52	4.08	1.34	3.10	2.96	2.12	2.82	0.00	0.00		
24	0.00	0.45	0.09	3.24	4.08	9.09	2.96	2.82	1.64	2.96	0.00	0.00		
25	0.00	0.45	0.18	3.80	3.94	9.38	4.36	2.68	1.46	2.82	0.00	0.00		
26	0.00	0.45	0.24	4.08	6.50	7.88	25.08	2.68	1.98	0.00	0.00	0.00		
27	0.00	0.44	0.39	3.10	8.11	9.67	7.19	2.68	1.84	0.00	0.00	0.00		
28	0.00	0.44	2.12	2.96	7.42	6.96	2.68	3.38	1.84	0.00	0.00	0.00		
29	0.00	0.46	1.84	3.66	9.96	5.10	6.73	4.36	1.84	0.00		0.00		
30	0.00	0.49	1.40	16.12	8.11	8.57	3.94	4.36	2.12	0.00		0.00		
31		0.47		6.50	8.57		4.22		2.40	0.00		0.00		
Total	0.00	5.47	81.38	173.61	137.85	418.94	313.60	189.80	41.84	85.49	0.00	0.00	1447.98	CMSDAY
Mean	0.00	0.18	2.71	5.60	4.45	13.96	10.12	6.33	1.35	2.76	0.00	0.00	3.97	CMS
Max	0.00	0.49	21.04	21.45	9.96	87.88	35.20	67.98	4.08	8.34	0.00	0.00	87.88	CMS
Min	0.00	0.00	0.09	1.64	2.54	1.34	2.68	2.68	0.23	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.47	7.03	15.00	11.91	36.20	27.10	16.40	3.61	7.39	0.00	0.00	125.11	MCM

Momentary Peak 145.05 CMS. at 232.71 m. (MSL.) at 13.00 Hours , on Sep 14 , 2015

Runoff Yield 4.22 Liters/Second/Square KM. Momentary Peak Yield 154.140 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Tha Dua , Lampang (W.21)

Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban Tha Dua	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	3,367 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+232.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5 meters from the top staff gage.	**Elevation**	+236.495 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 41 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

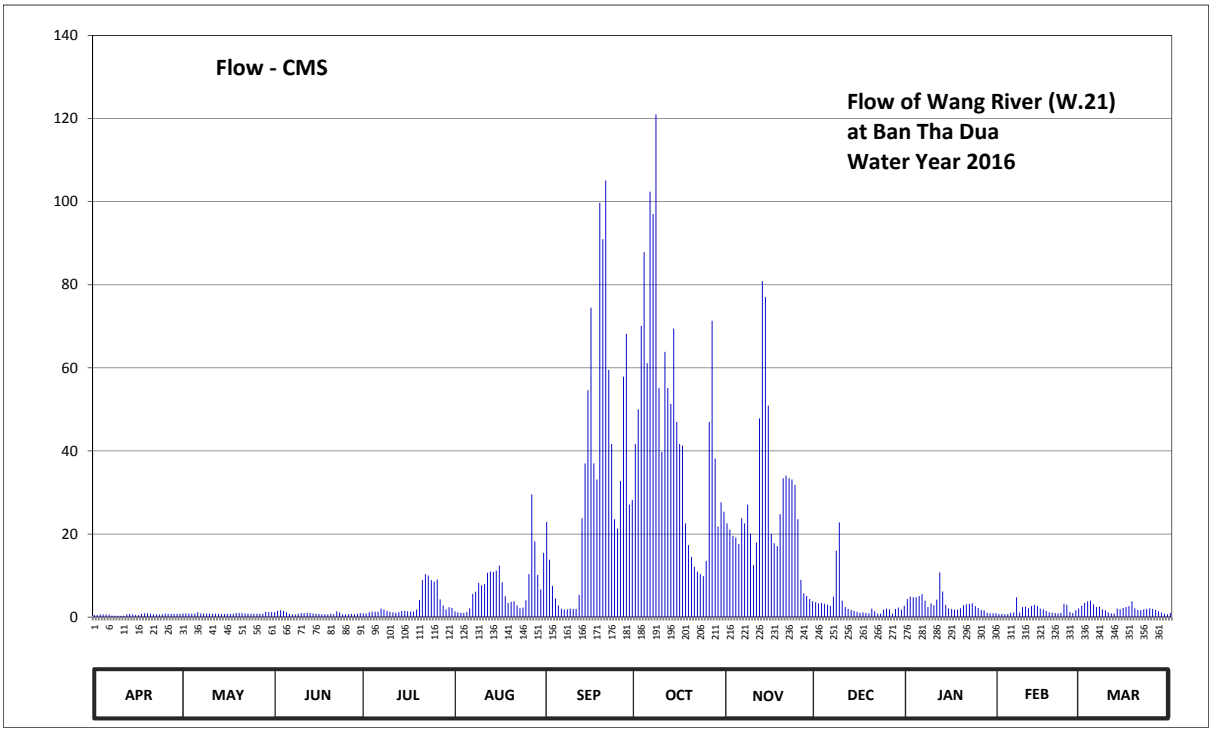
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	232.02	232.09	232.16	232.10	232.20	233.41	233.52	232.91	231.92	231.98	231.61	231.85	
2	232.03	232.10	232.21	232.10	232.15	233.09	233.72	232.85	231.90	232.02	231.61	231.91	
3	232.05	232.09	232.23	232.15	232.13	232.74	234.09	232.79	231.91	232.01	231.60	231.94	
4	232.05	232.09	232.21	232.18	232.12	232.51	234.34	232.77	231.89	232.01	231.61	231.95	
5	232.05	232.09	232.15	232.18	232.17	232.36	233.94	232.70	231.87	232.03	231.65	231.88	
6	232.04	232.15	232.07	232.18	232.29	232.28	234.51	232.96	231.85	232.06	231.66	231.82	
7	232.00	232.10	232.05	232.28	232.60	232.25	234.45	232.91	232.02	231.95	232.01	231.83	
8	231.99	232.10	232.05	232.25	232.64	232.26	234.70	233.08	232.63	231.82	231.66	231.76	
9	231.99	232.09	232.09	232.21	232.79	232.28	233.83	232.81	232.92	231.90	231.82	231.73	
10	231.98	232.09	232.11	232.17	232.75	232.27	233.47	232.46	231.95	231.86	231.83	231.66	
11	231.99	232.08	232.11	232.15	232.77	232.27	233.99	232.72	231.82	231.97	231.79	231.63	
12	232.05	232.08	232.12	232.13	232.94	232.58	233.83	233.67	231.77	232.37	231.84	231.62	
13	232.07	232.08	232.12	232.16	232.96	232.96	233.75	234.25	231.74	232.10	231.87	231.78	
14	232.05	232.07	232.10	232.21	232.95	233.40	234.08	234.20	231.71	231.87	231.84	231.76	
15	232.03	232.07	232.08	232.21	232.97	233.82	233.65	233.74	231.68	231.79	231.78	231.80	
16	232.02	232.08	232.07	232.20	233.03	234.16	233.52	232.81	231.65	231.77	231.76	231.82	
17	232.08	232.07	232.06	232.19	232.80	233.40	233.51	232.71	231.66	231.75	231.71	231.84	
18	232.10	232.08	232.06	232.19	232.55	233.28	232.91	232.68	231.64	231.75	231.66	231.94	
19	232.10	232.12	232.05	232.25	232.42	234.48	232.69	233.00	231.63	231.79	231.65	231.79	
20	232.08	232.12	232.08	232.48	232.44	234.38	232.56	233.29	231.78	231.86	231.64	231.74	
21	232.06	232.11	232.06	232.83	232.45	234.54	232.44	233.31	231.70	231.88	231.63	231.73	
22	232.05	232.10	232.20	232.92	232.36	233.91	232.38	233.29	231.62	231.89	231.65	231.76	
23	232.05	232.09	232.14	232.90	232.29	233.52	232.35	233.28	231.62	231.90	231.89	231.77	
24	232.06	232.08	232.06	232.83	232.31	232.95	232.32	233.24	231.75	231.84	231.87	231.79	
25	232.09	232.08	232.05	232.81	232.47	232.86	232.51	232.95	231.78	231.80	231.68	231.77	
26	232.08	232.08	232.06	232.84	232.92	233.27	233.65	232.27	231.76	231.74	231.64	231.74	
27	232.07	232.08	232.07	232.49	233.58	233.88	234.11	232.07	231.62	231.73	231.73	231.70	
28	232.07	232.08	232.06	232.36	233.26	234.06	233.43	232.03	231.77	231.65	231.79	231.66	
29	232.07	232.17	232.08	232.25	232.91	233.08	232.88	231.98	231.81	231.63		231.62	
30	232.07	232.16	232.11	232.32	232.68	233.12	233.10	231.94	231.75	231.63		231.60	
31		232.16		232.30	233.16		233.02		231.85	231.63		231.64	
Mean	232.05	232.10	232.10	232.35	232.65	233.18	233.46	232.92	231.84	231.87	231.73	231.77	
Max	232.10	232.17	232.23	232.92	233.58	234.54	234.70	234.25	232.92	232.37	232.01	231.95	234.70
Min	231.98	232.07	232.05	232.10	232.12	232.25	232.32	231.94	231.62	231.63	231.60	231.60	231.60

Annual Max Momentary Gage Height 235.13 m. (MSL.) , at 18.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 232.00 m. (MSL.) , River Bed 230.96 m. (MSL.)

Left Bank Elevation 239.84 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.85	1.20	0.90	1.40	22.89	41.68	22.55	3.56	4.34	0.77	2.75	
2	0.55	0.90	1.48	0.90	1.15	13.82	50.02	21.05	3.30	4.91	0.77	3.43	
3	0.65	0.85	1.64	1.15	1.05	7.50	70.07	19.57	3.43	4.76	0.70	3.82	
4	0.65	0.85	1.48	1.30	1.00	4.52	87.85	19.12	3.19	4.76	0.77	3.95	
5	0.65	0.85	1.15	1.30	1.25	2.80	61.13	17.55	2.97	5.07	1.05	3.08	
6	0.60	1.15	0.75	1.30	2.12	2.04	102.40	23.80	2.75	5.53	1.12	2.42	
7	0.40	0.90	0.65	2.04	5.60	1.80	97.00	22.55	4.91	3.95	4.76	2.53	
8	0.36	0.90	0.65	1.80	6.12	1.88	121.00	27.08	15.97	2.42	1.12	1.88	
9	0.36	0.85	0.85	1.48	8.25	2.04	55.13	20.05	22.80	3.30	2.42	1.64	
10	0.32	0.85	0.95	1.25	7.65	1.96	39.73	12.50	3.95	2.86	2.53	1.12	
11	0.36	0.80	0.95	1.15	7.95	1.96	63.85	18.00	2.42	4.21	2.12	0.91	
12	0.65	0.80	1.00	1.05	10.68	5.36	55.13	47.84	1.96	10.76	2.64	0.84	
13	0.75	0.80	1.00	1.20	11.02	23.80	51.32	80.88	1.72	6.15	2.97	2.04	
14	0.65	0.75	0.90	1.48	10.85	37.00	69.44	77.00	1.48	2.97	2.64	1.88	
15	0.55	0.75	0.80	1.48	11.19	54.59	46.97	50.89	1.26	2.12	2.04	2.20	
16	0.50	0.80	0.75	1.40	12.41	74.48	41.68	20.05	1.05	1.96	1.88	2.42	
17	0.80	0.75	0.70	1.35	8.40	37.00	41.29	17.77	1.12	1.80	1.48	2.64	
18	0.90	0.80	0.70	1.35	5.00	33.10	22.55	17.10	0.98	1.80	1.12	3.82	
19	0.90	1.00	0.65	1.80	3.44	99.70	17.32	24.80	0.91	2.12	1.05	2.12	
20	0.80	1.00	0.80	4.16	3.68	90.95	14.50	33.43	2.04	2.86	0.98	1.72	
21	0.70	0.95	0.70	8.88	3.80	105.10	12.10	34.08	1.40	3.08	0.91	1.64	
22	0.65	0.90	1.40	10.34	2.80	59.49	10.94	33.43	0.84	3.19	1.05	1.88	
23	0.65	0.85	1.10	10.00	2.12	41.68	10.40	33.10	0.84	3.30	3.19	1.96	
24	0.70	0.80	0.70	8.88	2.30	23.55	9.86	31.80	1.80	2.64	2.97	2.12	
25	0.85	0.80	0.65	8.56	4.04	21.30	13.50	23.55	2.04	2.20	1.26	1.96	
26	0.80	0.80	0.70	9.04	10.34	32.78	46.97	8.96	1.88	1.72	0.98	1.72	
27	0.75	0.80	0.75	4.28	29.52	57.86	71.33	5.69	0.84	1.64	1.64	1.40	
28	0.75	0.80	0.70	2.80	18.23	68.18	38.17	5.07	1.96	1.05	2.12	1.12	
29	0.75	1.25	0.80	1.80	10.17	27.08	21.80	4.34	2.31	0.91		0.84	
30	0.75	1.20	0.95	2.40	6.64	28.22	27.65	3.82	1.80	0.91		0.70	
31		1.20		2.20	15.46		25.37		2.75	0.91		0.98	
Total	19.25	27.55	27.50	99.02	225.63	984.43	1438.15	777.42	100.23	100.20	49.05	63.53	3911.96	CMSDAY
Mean	0.64	0.89	0.92	3.19	7.28	32.81	46.39	25.91	3.23	3.23	1.75	2.05	10.72	CMS
Max	0.90	1.25	1.64	10.34	29.52	105.10	121.00	80.88	22.80	10.76	4.76	3.95	121.00	CMS
Min	0.32	0.75	0.65	0.90	1.00	1.80	9.86	3.82	0.84	0.91	0.70	0.70	0.32	CMS
Runoff	1.66	2.38	2.38	8.56	19.49	85.05	124.26	67.17	8.66	8.66	4.24	5.49	337.99	MCM

Momentary Peak 171.40 CMS. at 235.13 m. (MSL.) at 18.00 Hours , on Oct 6 , 2016

Runoff Yield 3.18 Liters/Second/Square KM. Momentary Peak Yield 50.910 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

Location : on right bank at the bridge.

Ban Wang Phrao **Amphoe** Ko Kha **Changwat** Lampang

Drainge Area	1,549 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+215.161 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the approach of the bridge. **Elevation** +221.137 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

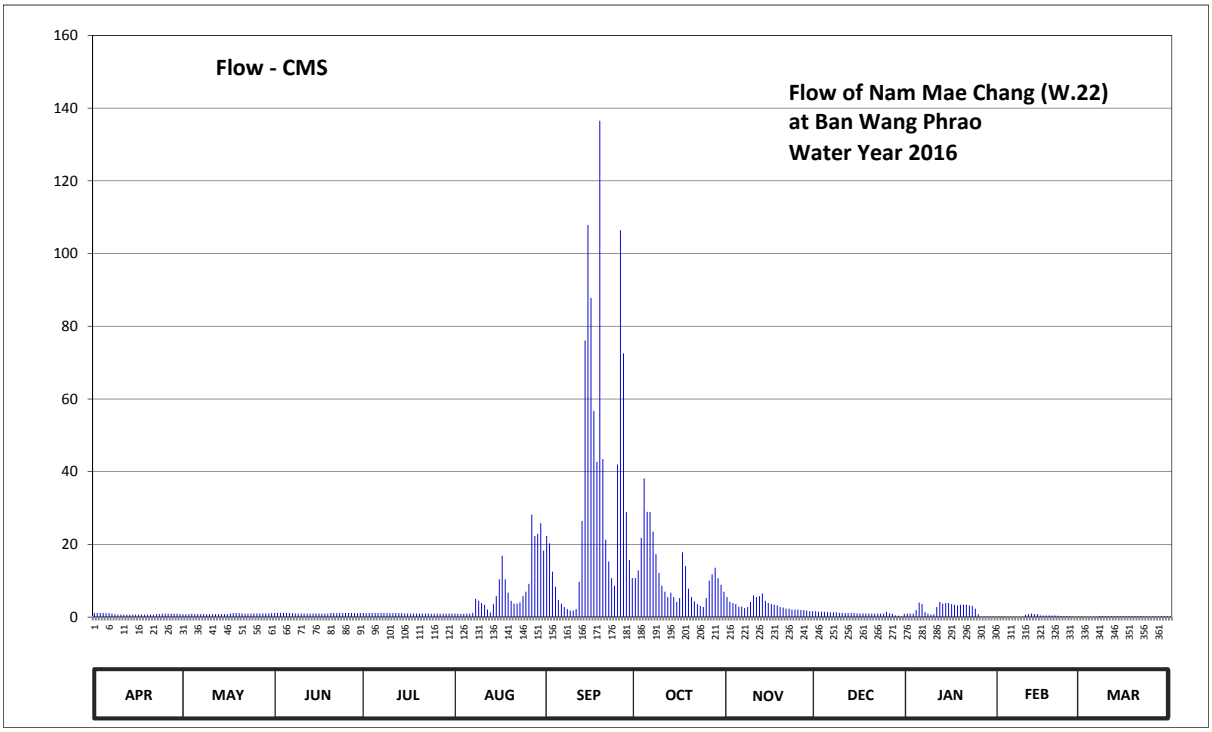
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.14	215.08	215.14	215.13	215.10	215.90	215.63	215.44	215.21	215.11	214.91	214.91	
2	215.14	215.08	215.15	215.13	215.10	215.86	215.69	215.38	215.20	215.11	214.91	214.90	
3	215.14	215.09	215.15	215.14	215.09	215.68	215.89	215.36	215.20	215.11	214.91	214.90	
4	215.14	215.10	215.14	215.15	215.10	215.55	216.13	215.34	215.19	215.23	214.77	214.90	
5	215.13	215.09	215.14	215.14	215.11	215.41	216.01	215.30	215.18	215.37	214.74	214.90	
6	215.13	215.09	215.14	215.14	215.11	215.35	216.01	215.30	215.17	215.34	214.75	214.90	
7	215.11	215.09	215.13	215.14	215.15	215.29	215.92	215.27	215.17	215.18	214.63	214.97	
8	215.08	215.09	215.12	215.14	215.42	215.25	215.80	215.29	215.17	215.11	214.63	214.98	
9	215.06	215.08	215.11	215.13	215.40	215.22	215.67	215.38	215.15	215.06	214.76	214.96	
10	215.06	215.08	215.11	215.13	215.36	215.22	215.56	215.46	215.15	215.08	215.05	214.96	
11	215.06	215.09	215.11	215.13	215.33	215.25	215.50	215.44	215.14	215.29	215.09	214.96	
12	215.06	215.09	215.11	215.13	215.24	215.60	215.44	215.45	215.13	215.38	215.11	214.96	
13	215.06	215.09	215.11	215.13	215.16	215.97	215.49	215.48	215.13	215.35	215.09	214.96	
14	215.06	215.09	215.11	215.13	215.34	216.49	215.44	215.40	215.13	215.36	215.08	214.96	
15	215.06	215.09	215.12	215.12	215.45	216.73	215.38	215.36	215.12	215.36	215.02	214.96	
16	215.06	215.09	215.12	215.12	215.62	216.59	215.43	215.34	215.12	215.34	215.01	214.96	
17	215.06	215.11	215.11	215.11	215.79	216.32	215.81	215.33	215.12	215.33	215.01	214.96	
18	215.06	215.13	215.11	215.11	215.62	216.19	215.72	215.32	215.12	215.32	215.02	214.96	
19	215.06	215.13	215.11	215.11	215.49	216.90	215.53	215.29	215.12	215.33	215.01	214.96	
20	215.06	215.13	215.14	215.11	215.40	216.20	215.44	215.28	215.11	215.33	215.01	214.96	
21	215.06	215.12	215.14	215.11	215.35	215.88	215.39	215.26	215.11	215.33	215.00	214.96	
22	215.08	215.10	215.13	215.11	215.35	215.75	215.34	215.26	215.11	215.32	214.96	214.92	
23	215.09	215.11	215.13	215.11	215.37	215.63	215.31	215.24	215.11	215.31	214.96	214.92	
24	215.10	215.11	215.13	215.10	215.45	215.56	215.29	215.24	215.11	215.26	214.96	214.92	
25	215.11	215.12	215.14	215.10	215.50	216.18	215.43	215.24	215.19	215.09	214.94	214.92	
26	215.11	215.12	215.14	215.11	215.58	216.72	215.61	215.23	215.12	214.90	214.91	214.92	
27	215.10	215.12	215.14	215.10	216.00	216.46	215.66	215.23	215.10	214.91	214.91	214.93	
28	215.10	215.12	215.13	215.11	215.90	216.01	215.71	215.22	215.02	214.91	214.91	214.96	
29	215.10	215.12	215.13	215.11	215.91	215.76	215.63	215.21	215.00	214.91		214.96	
30	215.09	215.12	215.14	215.11	215.96	215.63	215.57	215.21	214.91	214.91		214.94	
31		215.13		215.11	215.82		215.50		215.10	214.91		214.94	
Mean	215.09	215.10	215.13	215.12	215.44	215.89	215.61	215.32	215.13	215.19	214.93	214.94	
Max	215.14	215.13	215.15	215.15	216.00	216.90	216.13	215.48	215.21	215.38	215.11	214.98	216.90
Min	215.06	215.08	215.11	215.10	215.09	215.22	215.29	215.21	214.91	214.90	214.63	214.90	214.63

Annual Max Momentary Gage Height 217.25 m. (MSL.) , at 06.00 Hours , on Sep 19 , 2016

Zero Gage at Bottom Elevation 215.16 m. (MSL.) , River Bed 214.45 m. (MSL.)

Left Bank Elevation 221.14 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	0.80	1.14	1.08	0.90	22.30	10.75	5.50	1.64	0.96	0.13	0.13	
2	1.14	0.80	1.20	1.08	0.90	20.30	12.85	4.18	1.50	0.96	0.13	0.10	
3	1.14	0.85	1.20	1.14	0.85	12.50	21.80	3.86	1.50	0.96	0.13	0.10	
4	1.14	0.90	1.14	1.20	0.90	8.35	38.15	3.54	1.44	1.92	0.04	0.10	
5	1.08	0.85	1.14	1.14	0.96	4.75	28.97	2.90	1.38	4.02	0.03	0.10	
6	1.08	0.85	1.14	1.14	0.96	3.70	28.97	2.90	1.32	3.54	0.04	0.10	
7	0.96	0.85	1.08	1.14	1.20	2.76	23.48	2.48	1.32	1.38	0.01	0.31	
8	0.80	0.85	1.02	1.14	5.00	2.20	17.30	2.76	1.32	0.96	0.01	0.34	
9	0.70	0.80	0.96	1.08	4.50	1.78	12.15	4.18	1.20	0.70	0.04	0.28	
10	0.70	0.80	0.96	1.08	3.86	1.78	8.62	6.00	1.20	0.80	0.65	0.28	
11	0.70	0.85	0.96	1.08	3.38	2.20	7.00	5.50	1.14	2.76	0.85	0.28	
12	0.70	0.85	0.96	1.08	2.06	9.70	5.50	5.75	1.08	4.18	0.96	0.28	
13	0.70	0.85	0.96	1.08	1.26	26.43	6.75	6.50	1.08	3.70	0.85	0.28	
14	0.70	0.85	0.96	1.08	3.54	76.08	5.50	4.50	1.08	3.86	0.80	0.28	
15	0.70	0.85	1.02	1.02	5.75	107.85	4.18	3.86	1.02	3.86	0.50	0.28	
16	0.70	0.85	1.02	1.02	10.40	87.82	5.25	3.54	1.02	3.54	0.45	0.28	
17	0.70	0.96	0.96	0.96	16.89	56.70	17.80	3.38	1.02	3.38	0.45	0.28	
18	0.70	1.08	0.96	0.96	10.40	42.74	14.02	3.22	1.02	3.22	0.50	0.28	
19	0.70	1.08	0.96	0.96	6.75	136.50	7.81	2.76	1.02	3.38	0.45	0.28	
20	0.70	1.08	1.14	0.96	4.50	43.50	5.50	2.62	0.96	3.38	0.45	0.28	
21	0.70	1.02	1.14	0.96	3.70	21.30	4.34	2.34	0.96	3.38	0.40	0.28	
22	0.80	0.90	1.08	0.96	3.70	15.25	3.54	2.34	0.96	3.22	0.28	0.16	
23	0.85	0.96	1.08	0.96	4.02	10.75	3.06	2.06	0.96	3.06	0.28	0.16	
24	0.90	0.96	1.08	0.90	5.75	8.62	2.76	2.06	0.96	2.34	0.28	0.16	
25	0.96	1.02	1.14	0.90	7.00	41.97	5.25	2.06	1.44	0.85	0.22	0.16	
26	0.96	1.02	1.14	0.96	9.16	106.40	10.05	1.92	1.02	0.10	0.13	0.16	
27	0.90	1.02	1.14	0.90	28.20	72.55	11.80	1.92	0.90	0.13	0.13	0.19	
28	0.90	1.02	1.08	0.96	22.30	28.97	13.61	1.78	0.50	0.13	0.13	0.28	
29	0.90	1.02	1.08	0.96	22.89	15.66	10.75	1.64	0.40	0.13		0.28	
30	0.85	1.02	1.14	0.96	25.84	10.75	8.89	1.64	0.13	0.13		0.22	
31		1.08		0.96	18.30		7.00		0.90	0.13		0.22	
Total	25.60	28.69	31.98	31.80	235.82	1002.16	363.40	99.69	33.39	65.06	9.32	6.91	1933.82	CMSDAY
Mean	0.85	0.93	1.07	1.03	7.61	33.41	11.72	3.32	1.08	2.10	0.33	0.22	5.30	CMS
Max	1.14	1.08	1.20	1.20	28.20	136.50	38.15	6.50	1.64	4.18	0.96	0.34	136.50	CMS
Min	0.70	0.80	0.96	0.90	0.85	1.78	2.76	1.64	0.13	0.10	0.01	0.10	0.01	CMS
Runoff	2.21	2.48	2.76	2.75	20.37	86.59	31.40	8.61	2.88	5.62	0.81	0.60	167.08	MCM

Momentary Peak 214.50 CMS. at 217.25 m. (MSL.) at 06.00 Hours , on Sep 19 , 2016

Runoff Yield 3.42 Liters/Second/Square KM. Momentary Peak Yield 138.480 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

Ban Chiang Rai **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	9,930 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+141.291 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +148.844 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

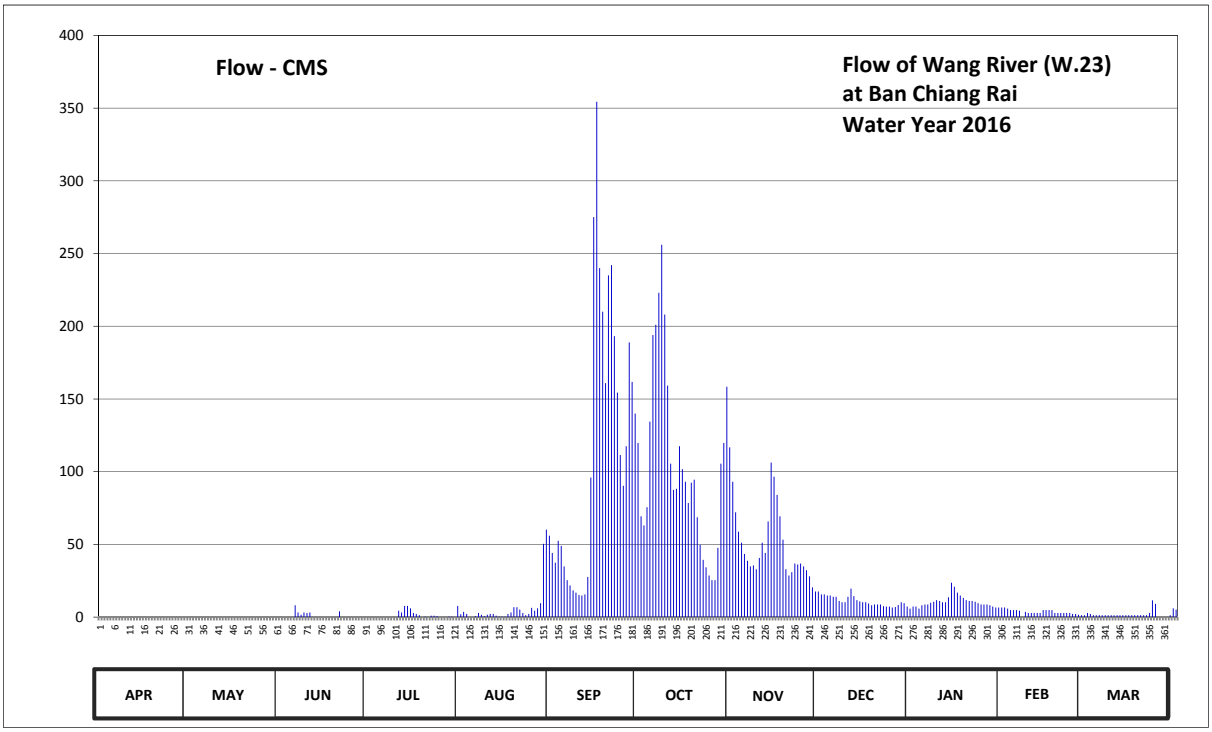
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	141.49	141.29	141.29	141.64	142.46	143.03	143.39	143.73	142.49	142.24	142.22	142.49	
2	141.49	141.29	141.29	141.66	142.51	142.93	143.30	143.43	142.49	142.24	142.19	142.47	
3	141.44	141.29	141.29	141.69	142.47	143.15	143.48	143.24	142.47	142.19	142.14	142.44	
4	141.44	141.29	141.29	141.69	142.39	143.10	144.28	143.13	142.47	142.27	142.14	142.44	
5	141.44	141.29	141.29	141.74	142.37	142.89	145.00	143.02	142.45	142.29	142.14	142.44	
6	141.39	141.29	142.62	141.78	142.42	142.72	145.07	142.95	142.45	142.29	142.12	142.44	
7	141.39	141.29	142.50	141.79	142.49	142.64	145.29	142.89	142.37	142.33	142.24	142.44	
8	141.39	141.29	142.45	141.83	142.45	142.56	145.62	142.90	142.34	142.35	142.51	142.44	
9	141.39	141.29	142.50	141.90	142.42	142.52	145.14	142.86	142.34	142.39	142.49	142.44	
10	141.37	141.29	142.49	142.15	142.45	142.48	144.59	142.98	142.45	142.37	142.49	142.44	
11	141.37	141.29	142.50	142.53	142.47	142.47	143.90	143.13	142.59	142.34	142.49	142.44	
12	141.37	141.29	142.33	142.50	142.47	142.49	143.65	143.03	142.46	142.34	142.49	142.44	
13	141.34	141.29	142.29	142.61	142.43	142.77	143.66	143.34	142.39	142.44	142.49	142.44	
14	141.34	141.29	142.31	142.61	142.41	143.77	144.06	143.91	142.36	142.68	142.54	142.44	
15	141.34	141.29	142.26	142.57	142.41	145.81	143.85	143.78	142.34	142.62	142.54	142.44	
16	141.34	141.29	142.17	142.49	142.41	146.54	143.73	143.60	142.34	142.52	142.54	142.44	
17	141.34	141.29	142.12	142.47	142.47	145.46	143.52	143.39	142.31	142.47	142.54	142.44	
18	141.34	141.29	142.11	142.44	142.50	145.16	143.72	143.16	142.27	142.43	142.49	142.44	
19	141.29	141.29	142.07	142.39	142.59	144.61	143.75	142.86	142.29	142.39	142.49	142.44	
20	141.29	141.29	142.03	142.41	142.59	145.41	143.38	142.79	142.29	142.37	142.49	142.44	
21	141.29	141.29	142.52	142.39	142.55	145.48	143.11	142.83	142.29	142.37	142.49	142.44	
22	141.29	141.29	142.22	142.43	142.49	144.99	142.96	142.92	142.25	142.35	142.49	142.49	
23	141.29	141.29	141.94	142.43	142.44	144.53	142.88	142.91	142.24	142.32	142.49	142.69	
24	141.29	141.29	141.82	142.42	142.47	143.98	142.79	142.92	142.24	142.29	142.47	142.64	
25	141.29	141.29	141.79	142.29	142.58	143.69	142.72	142.89	142.22	142.29	142.47	142.39	
26	141.29	141.29	141.75	142.39	142.53	144.06	142.72	142.85	142.23	142.29	142.45	142.39	
27	141.29	141.29	141.69	142.20	142.57	144.94	143.08	142.78	142.28	142.27	142.44	142.39	
28	141.29	141.29	141.64	142.41	142.65	144.62	143.90	142.61	142.34	142.24	142.44	142.34	
29	141.29	141.29	141.62	142.41	143.12	144.35	144.09	142.54	142.32	142.22		142.44	
30	141.29	141.29	141.62	142.39	143.26	144.09	144.58	142.54	142.24	142.22		142.57	
31		141.29		142.61	143.20		144.05		142.19	142.22		142.55	
Mean	141.35	141.29	141.99	142.23	142.55	143.91	143.85	143.06	142.35	142.34	142.41	142.46	
Max	141.49	141.29	142.62	142.61	143.26	146.54	145.62	143.91	142.59	142.68	142.54	142.69	146.54
Min	141.29	141.29	141.29	141.64	142.37	142.47	142.72	142.54	142.19	142.19	142.12	142.34	141.29

Annual Max Momentary Gage Height 146.64 m. (MSL.) , at 06.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 141.29 m. (MSL.) , River Bed 141.36 m. (MSL.)

Left Bank Elevation 149.51 m. (MSL.) ,

Right Bank Elevation 149.84 m. (MSL.) , Drainage Are 9,930 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	1.92	44.10	69.30	93.10	15.60	7.20	6.60	2.88		
2	0.00	0.00	0.00	0.00	3.60	37.45	63.00	72.10	15.60	7.20	5.80	2.24		
3	0.00	0.00	0.00	0.00	2.24	52.50	75.60	58.80	14.80	5.80	4.80	1.28		
4	0.00	0.00	0.00	0.00	0.00	49.00	134.40	51.10	14.80	8.10	4.80	1.28		
5	0.00	0.00	0.00	0.00	0.00	34.85	194.00	43.40	14.00	8.70	4.80	1.28		
6	0.00	0.00	8.16	0.00	0.64	25.40	201.00	38.75	14.00	8.70	4.40	1.28		
7	0.00	0.00	3.20	0.00	2.88	21.80	223.00	34.85	11.10	9.90	0.00	1.28		
8	0.00	0.00	1.60	0.00	1.60	18.40	256.00	35.50	10.20	10.50	3.60	1.28		
9	0.00	0.00	3.20	0.00	0.64	16.80	208.00	32.90	10.20	11.70	2.88	1.28		
10	0.00	0.00	2.88	0.00	1.60	15.20	159.20	40.70	14.00	11.10	2.88	1.28		
11	0.00	0.00	3.20	4.40	2.24	14.80	105.50	51.10	19.60	10.20	2.88	1.28		
12	0.00	0.00	0.00	3.20	2.24	15.60	87.50	44.10	14.40	10.20	2.88	1.28		
13	0.00	0.00	0.00	7.68	0.96	27.65	88.20	65.80	11.70	13.60	2.88	1.28		
14	0.00	0.00	0.00	7.68	0.32	95.90	117.50	106.25	10.80	23.60	4.80	1.28		
15	0.00	0.00	0.00	6.00	0.32	275.05	101.75	96.60	10.20	20.90	4.80	1.28		
16	0.00	0.00	0.00	2.88	0.32	354.40	93.10	84.00	10.20	16.80	4.80	1.28		
17	0.00	0.00	0.00	2.24	2.24	240.00	78.40	69.30	9.30	14.80	4.80	1.28		
18	0.00	0.00	0.00	1.28	3.20	210.00	92.40	53.20	8.10	13.20	2.88	1.28		
19	0.00	0.00	0.00	0.00	6.80	160.85	94.50	32.90	8.70	11.70	2.88	1.28		
20	0.00	0.00	0.00	0.32	6.80	235.00	68.60	28.55	8.70	11.10	2.88	1.28		
21	0.00	0.00	4.00	0.00	5.20	242.00	49.70	30.95	8.70	11.10	2.88	1.28		
22	0.00	0.00	0.00	0.96	2.88	193.15	39.40	36.80	7.50	10.50	2.88	2.88		
23	0.00	0.00	0.00	0.96	1.28	154.40	34.20	36.15	7.20	9.60	2.88	11.52		
24	0.00	0.00	0.00	0.64	2.24	111.50	28.55	36.80	7.20	8.70	2.24	9.12		
25	0.00	0.00	0.00	0.00	6.40	90.30	25.40	34.85	6.60	8.70	2.24	0.00		
26	0.00	0.00	0.00	0.00	4.40	117.50	25.40	32.25	6.90	8.70	1.60	0.00		
27	0.00	0.00	0.00	0.00	6.00	188.90	47.60	28.10	8.40	8.10	1.28	0.00		
28	0.00	0.00	0.00	0.32	9.60	161.70	105.50	20.45	10.20	7.20	1.28	0.00		
29	0.00	0.00	0.00	0.32	50.40	140.00	119.75	17.60	9.60	6.60		1.28		
30	0.00	0.00	0.00	0.00	60.20	119.75	158.40	17.60	7.20	6.60		6.00		
31		0.00		7.68	56.00		116.75		5.80	6.60		5.20		
Total	0.00	0.00	26.24	46.56	245.16	3463.95	3261.60	1424.55	331.30	327.40	94.32	65.44	9286.52	CMSDAY
Mean	0.00	0.00	0.87	1.50	7.91	115.47	105.21	47.48	10.69	10.56	3.37	2.11	25.44	CMS
Max	0.00	0.00	8.16	7.68	60.20	354.40	256.00	106.25	19.60	23.60	6.60	11.52	354.40	CMS
Min	0.00	0.00	0.00	0.00	0.00	14.80	25.40	17.60	5.80	5.80	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	2.27	4.02	21.18	299.29	281.80	123.08	28.62	28.29	8.15	5.65	802.36	MCM

Momentary Peak 365.60 CMS. at 146.64 m. (MSL.) at 06.00 Hours , on Sep 16 , 2016

Runoff Yield 2.56 Liters/Second/Square KM. Momentary Peak Yield 36.820 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Tha Phai , Tak (W.24)

Lat 17 - 19 - 11 N Long 99 - 04 - 51 E

Location : on left bank at Ban Tha Phai

Ban Tha Phai **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+135.430 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +146.049 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	2010 to date
Rating Operation	
Period of Rating	2010 to date
Rated by Flot	-
Rated by Current Meter	2010 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

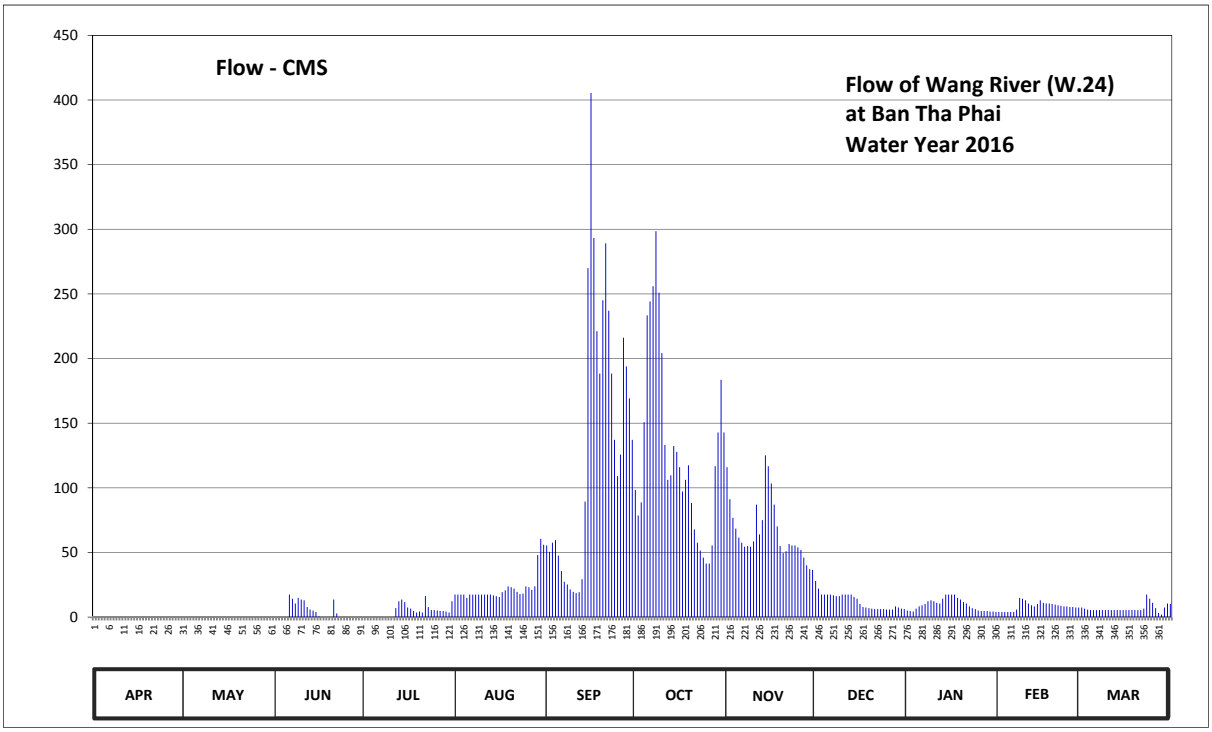
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.43	136.43	136.53	136.53	137.55	138.39	139.14	139.40	137.80	137.26	137.23	137.32	
2	136.43	136.43	136.53	136.53	137.57	138.29	138.81	139.02	137.63	137.25	137.23	137.30	
3	136.43	136.43	136.53	136.53	137.54	138.43	138.98	138.78	137.57	137.24	137.23	137.28	
4	136.43	136.43	136.53	136.53	137.50	138.47	139.86	138.64	137.54	137.30	137.23	137.27	
5	136.43	136.43	136.53	136.53	137.46	138.23	140.86	138.51	137.53	137.34	137.23	137.27	
6	136.43	136.43	137.55	136.53	137.50	137.97	140.98	138.43	137.50	137.36	137.23	137.27	
7	136.43	136.43	137.45	136.53	137.55	137.78	141.10	138.37	137.49	137.38	137.28	137.27	
8	136.43	136.43	137.39	136.53	137.55	137.72	141.52	138.38	137.48	137.42	137.46	137.27	
9	136.43	136.43	137.46	136.53	137.50	137.61	141.05	138.37	137.48	137.43	137.45	137.27	
10	136.43	136.43	137.44	136.53	137.53	137.56	140.52	138.45	137.57	137.42	137.43	137.27	
11	136.43	136.43	137.43	136.81	137.55	137.53	139.64	138.95	137.82	137.40	137.39	137.27	
12	136.43	136.43	137.33	137.31	137.55	137.55	139.26	138.56	137.68	137.39	137.36	137.27	
13	136.43	136.43	137.28	137.42	137.51	137.83	139.31	138.75	137.52	137.45	137.34	137.27	
14	136.43	136.43	137.26	137.44	137.49	138.99	139.63	139.53	137.47	137.73	137.38	137.27	
15	136.43	136.43	137.23	137.41	137.48	141.24	139.57	139.41	137.45	137.66	137.43	137.27	
16	136.43	136.43	137.12	137.32	137.47	142.50	139.40	139.22	137.38	137.56	137.40	137.27	
17	136.43	136.43	137.07	137.30	137.55	141.47	139.12	138.95	137.33	137.51	137.39	137.27	
18	136.43	136.43	137.06	137.25	137.59	140.72	139.26	138.67	137.32	137.46	137.39	137.27	
19	136.43	136.43	137.03	137.22	137.68	140.33	139.42	138.38	137.31	137.44	137.38	137.27	
20	136.43	136.43	137.00	137.24	137.66	140.99	138.97	138.27	137.30	137.41	137.37	137.27	
21	136.43	136.43	137.44	137.22	137.63	141.43	138.63	138.30	137.29	137.39	137.36	137.27	
22	136.43	136.43	137.20	137.48	137.56	140.90	138.43	138.41	137.29	137.34	137.35	137.30	
23	136.43	136.43	136.96	137.33	137.51	140.33	138.31	138.39	137.29	137.31	137.34	137.51	
24	136.43	136.43	136.77	137.27	137.52	139.69	138.20	138.39	137.29	137.29	137.34	137.45	
25	136.43	136.43	136.73	137.27	137.68	139.30	138.10	138.36	137.28	137.26	137.33	137.40	
26	136.43	136.43	136.69	137.26	137.66	139.54	138.10	138.32	137.28	137.25	137.33	137.31	
27	136.43	136.43	136.67	137.25	137.60	140.66	138.39	138.20	137.28	137.25	137.32	137.21	
28	136.43	136.43	136.66	137.25	137.68	140.40	139.41	138.07	137.34	137.25	137.32	137.17	
29	136.43	136.43	136.65	137.24	138.24	140.09	139.76	138.00	137.32	137.24		137.32	
30	136.43	136.43	136.64	137.22	138.49	139.69	140.27	137.99	137.30	137.24		137.39	
31		136.43		137.42	138.40		139.76		137.29	137.23		137.38	
Mean	136.43	136.43	137.01	137.04	137.64	139.39	139.48	138.58	137.43	137.37	137.34	137.30	
Max	136.43	136.43	137.55	137.48	138.49	142.50	141.52	139.53	137.82	137.73	137.46	137.51	142.50
Min	136.43	136.43	136.53	136.53	137.46	137.53	138.10	137.99	137.28	137.23	137.23	137.17	136.43

Annual Max Momentary Gage Height 142.58 m. (MSL.) , at 12.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 135.43 m. (MSL.) , River Bed 135.96 m. (MSL.)

Left Bank Elevation 144.99 m. (MSL.) ,

Right Bank Elevation 145.00 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	17.50	55.50	98.40	116.00	28.00	5.02	3.91	7.40		
2	0.00	0.00	0.00	0.00	17.50	50.50	78.60	91.20	22.05	4.65	3.91	6.50		
3	0.00	0.00	0.00	0.00	17.50	57.50	88.80	76.80	17.50	4.28	3.91	5.76		
4	0.00	0.00	0.00	0.00	17.50	59.50	150.80	68.40	17.50	6.50	3.91	5.39		
5	0.00	0.00	0.00	0.00	14.90	47.50	233.40	61.50	17.50	8.30	3.91	5.39		
6	0.00	0.00	17.50	0.00	17.50	35.65	244.20	57.50	17.50	9.20	3.91	5.39		
7	0.00	0.00	14.25	0.00	17.50	27.30	256.00	54.50	16.85	10.10	5.76	5.39		
8	0.00	0.00	10.55	0.00	17.50	25.20	298.60	55.00	16.20	12.30	14.90	5.39		
9	0.00	0.00	14.90	0.00	17.50	21.35	251.00	54.50	16.20	12.95	14.25	5.39		
10	0.00	0.00	13.60	0.00	17.50	19.60	204.20	58.50	17.50	12.30	12.95	5.39		
11	0.00	0.00	12.95	0.00	17.50	18.55	133.20	87.00	17.50	11.00	10.55	5.39		
12	0.00	0.00	7.85	6.95	17.50	19.25	106.20	64.00	17.50	10.55	9.20	5.39		
13	0.00	0.00	5.76	12.30	17.50	29.35	109.70	75.00	17.50	14.25	8.30	5.39		
14	0.00	0.00	5.02	13.60	16.85	89.40	132.40	125.10	15.55	17.50	10.10	5.39		
15	0.00	0.00	3.91	11.65	16.20	270.00	127.90	116.70	14.25	17.50	12.95	5.39		
16	0.00	0.00	0.56	7.40	15.55	405.50	116.00	103.40	10.10	17.50	11.00	5.39		
17	0.00	0.00	0.00	6.50	19.25	293.35	97.20	87.00	7.85	17.50	10.55	5.39		
18	0.00	0.00	0.00	4.65	20.65	221.20	106.20	70.20	7.40	14.90	10.55	5.39		
19	0.00	0.00	0.00	3.54	23.80	188.40	117.40	55.00	6.95	13.60	10.10	5.39		
20	0.00	0.00	0.00	4.28	23.10	245.10	88.20	49.50	6.50	11.65	9.65	5.39		
21	0.00	0.00	13.60	3.54	22.05	289.15	67.80	51.00	6.13	10.55	9.20	5.39		
22	0.00	0.00	2.80	16.20	19.60	237.00	57.50	56.50	6.13	8.30	8.75	6.50		
23	0.00	0.00	0.00	7.85	17.85	188.40	51.50	55.50	6.13	6.95	8.30	17.50		
24	0.00	0.00	0.00	5.39	18.20	137.20	46.00	55.50	6.13	6.13	8.30	14.25		
25	0.00	0.00	0.00	5.39	23.80	109.00	41.50	54.00	5.76	5.02	7.85	11.00		
26	0.00	0.00	0.00	5.02	23.10	125.80	41.50	52.00	5.76	4.65	7.85	6.95		
27	0.00	0.00	0.00	4.65	21.00	216.10	55.50	46.00	5.76	4.65	7.40	3.17		
28	0.00	0.00	0.00	4.65	23.80	194.00	116.70	40.15	8.30	4.65	7.40	1.96		
29	0.00	0.00	0.00	4.28	48.00	169.20	142.80	37.00	7.40	4.28		7.40		
30	0.00	0.00	0.00	3.54	60.50	137.20	183.60	36.55	6.50	4.28		10.55		
31		0.00		12.30	56.00		142.80		6.13	3.91		10.10		
Total	0.00	0.00	123.25	143.68	694.20	3982.75	3985.60	2011.00	378.03	294.92	239.32	206.06	12058.81	CMSDAY
Mean	0.00	0.00	4.11	4.63	22.39	132.76	128.57	67.03	12.19	9.51	8.55	6.65	33.04	CMS
Max	0.00	0.00	17.50	16.20	60.50	405.50	298.60	125.10	28.00	17.50	14.90	17.50	405.50	CMS
Min	0.00	0.00	0.00	0.00	14.90	18.55	41.50	36.55	5.76	3.91	3.91	1.96	0.00	CMS
Runoff	0.00	0.00	10.65	12.41	59.98	344.11	344.36	173.75	32.66	25.48	20.68	17.80	1041.88	MCM

Momentary Peak 414.70 CMS. at 142.58 m. (MSL.) at 12.00 Hours , on Sep 16 , 2016

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

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on left bank at Ban Huai Kod.

	Ban Huai Kod	**Amphoe** Wang Nua	**Changwat** Lampang
Drainge Area	762 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+381.903 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.	**Elevation**	+387.093 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 32 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

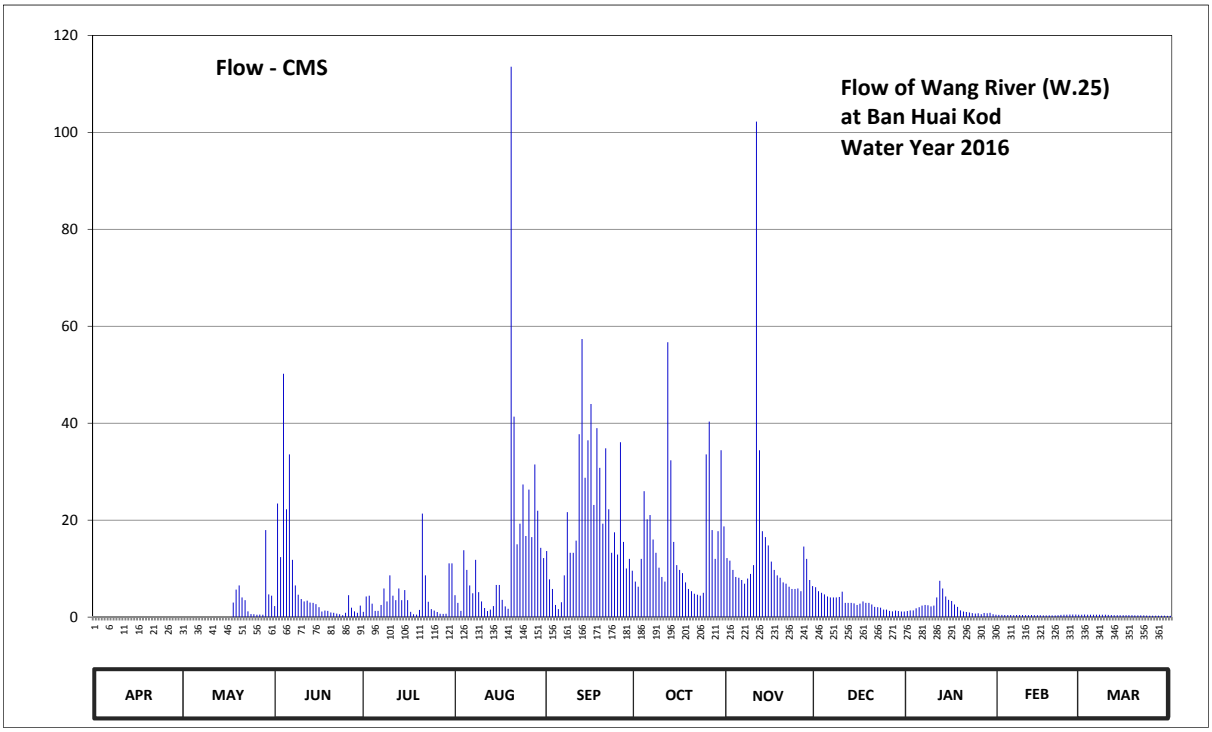
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	381.32	381.08	381.91	381.74	382.18	382.79	382.42	382.71	382.33	381.77	381.59	381.60	
2	381.30	381.07	383.16	382.15	381.99	382.45	382.34	382.68	382.26	381.80	381.59	381.61	
3	381.29	381.07	382.72	382.17	381.78	382.30	382.70	382.57	382.23	381.80	381.58	381.60	
4	381.28	381.07	383.80	381.97	382.80	381.94	383.24	382.48	382.20	381.85	381.58	381.60	
5	381.26	381.07	383.12	381.78	382.57	381.83	383.05	382.47	382.15	381.88	381.58	381.60	
6	381.25	381.07	383.45	381.78	382.36	382.01	383.08	382.44	382.13	381.92	381.57	381.60	
7	381.24	381.07	382.69	381.94	382.22	382.50	382.89	382.39	382.13	381.94	381.58	381.60	
8	381.23	381.07	382.36	382.31	382.69	383.10	382.77	382.46	382.13	381.93	381.58	381.60	
9	381.22	381.07	382.19	382.03	382.24	382.77	382.60	382.52	382.14	381.90	381.58	381.60	
10	381.22	381.06	382.09	382.50	382.03	382.77	382.48	382.63	382.25	381.92	381.57	381.59	
11	381.22	381.05	382.03	382.17	381.86	382.88	382.42	384.39	381.99	382.13	381.57	381.58	
12	381.21	381.03	382.05	382.06	381.77	383.55	383.90	383.47	381.99	382.43	381.58	381.57	
13	381.20	381.03	382.00	382.31	381.82	383.91	383.42	382.96	381.99	382.31	381.57	381.57	
14	381.19	381.03	381.99	382.06	381.91	383.32	382.87	382.91	381.98	382.15	381.57	381.57	
15	381.19	381.03	381.96	382.28	382.37	383.52	382.63	382.84	381.94	382.07	381.57	381.57	
16	381.19	381.03	381.88	382.06	382.37	383.68	382.57	382.67	381.97	382.04	381.55	381.57	
17	381.19	381.18	381.75	381.74	382.07	383.15	382.53	382.57	382.03	381.95	381.55	381.57	
18	381.18	382.00	381.79	381.62	381.90	383.58	382.41	382.50	381.99	381.89	381.55	381.56	
19	381.15	382.29	381.78	381.61	381.84	383.38	382.30	382.47	381.99	381.80	381.55	381.55	
20	381.15	382.36	381.71	381.81	384.47	383.02	382.26	382.41	381.95	381.75	381.55	381.55	
21	381.14	382.13	381.70	383.09	383.63	383.48	382.21	382.39	381.89	381.73	381.57	381.55	
22	381.12	382.06	381.66	382.50	382.85	383.12	382.19	382.34	381.88	381.71	381.59	381.55	
23	381.10	381.76	381.62	382.02	383.02	382.77	382.17	382.30	381.87	381.68	381.60	381.54	
24	381.10	381.63	381.57	381.83	383.28	382.95	382.23	382.30	381.82	381.66	381.60	381.53	
25	381.10	381.62	381.70	381.79	382.92	382.75	383.45	382.31	381.82	381.67	381.61	381.53	
26	381.10	381.60	382.18	381.73	383.25	383.51	383.61	382.26	381.78	381.62	381.61	381.53	
27	381.09	381.61	381.87	381.65	382.91	382.87	382.97	382.83	381.76	381.69	381.61	381.53	
28	381.07	381.60	381.76	381.64	383.40	382.59	382.70	382.70	381.79	381.67	381.60	381.53	
29	381.07	382.97	381.70	381.65	383.11	382.70	382.96	382.44	381.77	381.70		381.53	
30	381.07	382.20	381.92	382.65	382.82	382.56	383.47	382.35	381.75	381.62		381.52	
31		382.17		382.65	382.71		383.00		381.75	381.60		381.52	
Mean	381.18	381.49	382.14	382.04	382.55	382.93	382.77	382.63	381.99	381.86	381.58	381.57	
Max	381.32	382.97	383.80	383.09	384.47	383.91	383.90	384.39	382.33	382.43	381.61	381.61	384.47
Min	381.07	381.03	381.57	381.61	381.77	381.83	382.17	382.26	381.75	381.60	381.55	381.52	381.03

Annual Max Momentary Gage Height 384.85 m. (MSL.) , at 15.00 Hours , on Nov 11 , 2016

Zero Gage at Bottom Elevation 381.90 m. (MSL.) , River Bed 381.00 m. (MSL.)

Left Bank Elevation 387.24 m. (MSL.) ,

Right Bank Elevation 387.32 m. (MSL.) , Drainage Are 762 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.28	1.10	4.52	13.62	7.32	12.18	6.16	1.25	0.47	0.50		
2	0.00	0.00	23.42	4.25	2.92	7.80	6.28	11.64	5.36	1.40	0.47	0.54		
3	0.00	0.00	12.36	4.43	1.30	5.80	12.00	9.72	5.03	1.40	0.44	0.50		
4	0.00	0.00	50.20	2.76	13.80	2.52	25.98	8.28	4.70	1.80	0.44	0.50		
5	0.00	0.00	22.24	1.30	9.72	1.64	20.17	8.12	4.25	2.04	0.44	0.50		
6	0.00	0.00	33.58	1.30	6.52	3.08	21.06	7.64	4.07	2.36	0.41	0.50		
7	0.00	0.00	11.82	2.52	4.92	8.60	16.01	6.88	4.07	2.52	0.44	0.50		
8	0.00	0.00	6.52	5.92	11.82	21.65	13.26	7.96	4.07	2.44	0.44	0.50		
9	0.00	0.00	4.61	3.24	5.14	13.26	10.20	8.92	4.16	2.20	0.44	0.50		
10	0.00	0.00	3.72	8.60	3.24	13.26	8.28	10.74	5.25	2.36	0.41	0.47		
11	0.00	0.00	3.24	4.43	1.88	15.76	7.32	102.23	2.92	4.07	0.41	0.44		
12	0.00	0.00	3.40	3.48	1.25	37.72	56.70	34.41	2.92	7.48	0.44	0.41		
13	0.00	0.00	3.00	5.92	1.56	57.35	32.33	17.72	2.92	5.92	0.41	0.41		
14	0.00	0.00	2.92	3.48	2.28	28.74	15.52	16.50	2.84	4.25	0.41	0.41		
15	0.00	0.00	2.68	5.58	6.64	36.48	10.74	14.78	2.52	3.56	0.41	0.41		
16	0.00	0.00	2.04	3.48	6.64	43.96	9.72	11.46	2.76	3.32	0.35	0.41		
17	0.00	0.00	1.15	1.10	3.56	23.12	9.08	9.72	3.24	2.60	0.35	0.41		
18	0.00	3.00	1.35	0.58	2.20	38.97	7.16	8.60	2.92	2.12	0.35	0.38		
19	0.00	5.69	1.30	0.54	1.72	30.81	5.80	8.12	2.92	1.40	0.35	0.35		
20	0.00	6.52	0.95	1.48	113.55	19.29	5.36	7.16	2.60	1.15	0.35	0.35		
21	0.00	4.07	0.90	21.35	41.36	34.82	4.81	6.88	2.12	1.05	0.41	0.35		
22	0.00	3.48	0.74	8.60	15.03	22.24	4.61	6.28	2.04	0.95	0.47	0.35		
23	0.00	1.20	0.58	3.16	19.29	13.26	4.43	5.80	1.96	0.82	0.50	0.32		
24	0.00	0.62	0.41	1.64	27.36	17.48	5.03	5.80	1.56	0.74	0.50	0.29		
25	0.00	0.58	0.90	1.35	16.74	12.90	33.58	5.92	1.56	0.78	0.54	0.29		
26	0.00	0.50	4.52	1.05	26.32	36.06	40.32	5.36	1.30	0.58	0.54	0.29		
27	0.00	0.54	1.96	0.70	16.50	15.52	17.97	14.54	1.20	0.86	0.54	0.29		
28	0.00	0.50	1.20	0.66	31.50	10.04	12.00	12.00	1.35	0.78	0.50	0.29		
29	0.00	17.97	0.90	0.70	21.94	12.00	17.72	7.64	1.25	0.90		0.29		
30	0.00	4.70	2.36	11.10	14.29	9.56	34.41	6.40	1.15	0.58		0.26		
31		4.43		11.10	12.18		18.70		1.15	0.50		0.26		
Total	0.00	53.80	207.25	126.90	447.69	607.31	493.87	399.40	92.32	64.18	12.23	12.27	2517.22	CMSDAY
Mean	0.00	1.74	6.91	4.09	14.44	20.24	15.93	13.31	2.98	2.07	0.44	0.40	6.90	CMS
Max	0.00	17.97	50.20	21.35	113.55	57.35	56.70	102.23	6.16	7.48	0.54	0.54	113.55	CMS
Min	0.00	0.00	0.41	0.54	1.25	1.64	4.43	5.36	1.15	0.50	0.35	0.26	0.00	CMS
Runoff	0.00	4.65	17.91	10.96	38.68	52.47	42.67	34.51	7.98	5.55	1.06	1.06	217.49	MCM

Momentary Peak 175.55 CMS. at 384.85 m. (MSL.) at 15.00 Hours , on Nov 11 , 2016

Runoff Yield 9.05 Liters/Second/Square KM. Momentary Peak Yield 230.380 Liters/Second/Square KM.

WATER YEAR : 2016

WANG RIVER BASIN

Nam Mae Ta at Ban Huai Mae Ta , Lampang (W.26)

Lat 18 - 36 - 26 N Long 99 - 37 - 44 E

Location : on left bank at Ban Huai Mae Ta.

Ban Huai Mae Ta **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	150 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+286.470 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the approach of the bridge. **Elevation** +290.173 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	2011 to date
Rating Operation	
Period of Rating	2011 to date
Rated by Flot	-
Rated by Current Meter	2011 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

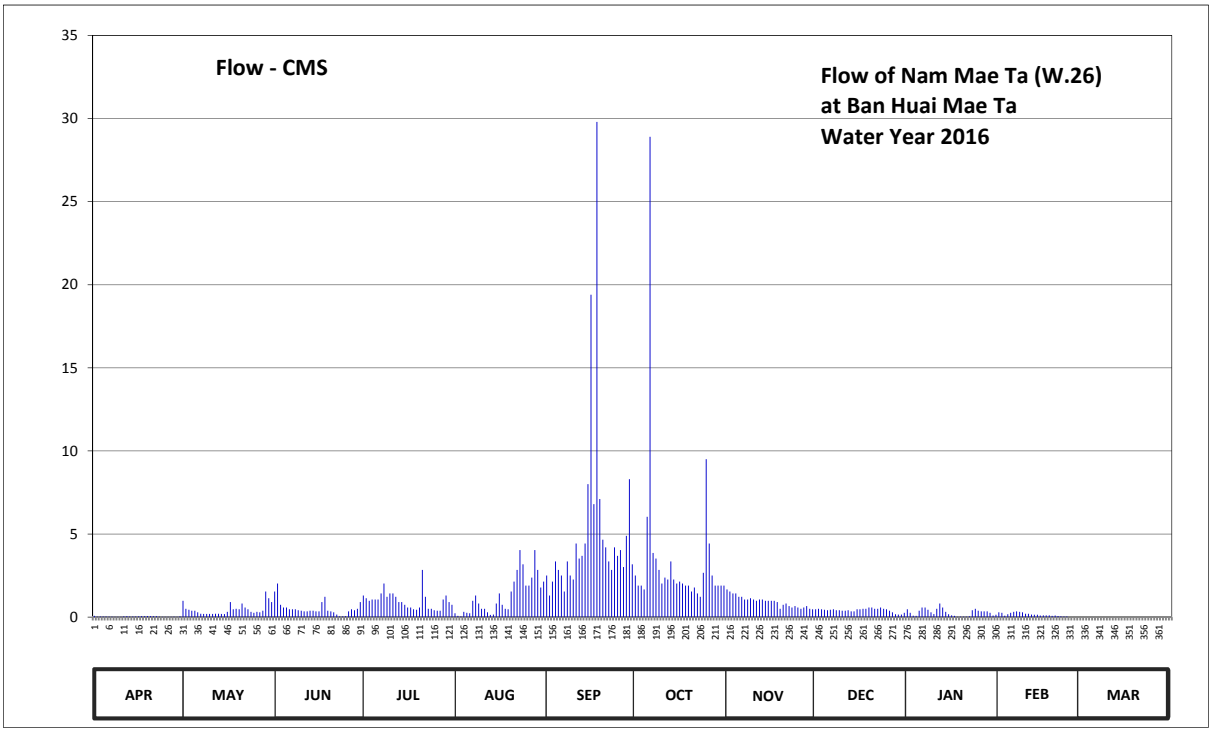
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	286.34	286.66	286.72	286.70	286.51	286.80	286.80	286.73	286.59	286.59	286.53	286.03	
2	286.21	286.60	286.76	286.68	286.36	286.70	286.75	286.72	286.60	286.52	286.52	286.04	
3	286.22	286.58	286.63	286.66	286.27	286.77	286.75	286.71	286.59	286.37	286.37	286.01	
4	286.22	286.56	286.61	286.67	286.54	286.85	286.73	286.71	286.58	286.36	286.47	286.00	
5	286.23	286.56	286.61	286.67	286.52	286.82	286.98	286.69	286.57	286.56	286.52	285.99	
6	286.19	286.53	286.59	286.67	286.51	286.80	287.41	286.69	286.58	286.61	286.54	285.98	
7	286.18	286.50	286.59	286.71	286.66	286.72	286.88	286.67	286.59	286.61	286.55	285.97	
8	286.17	286.49	286.59	286.76	286.70	286.85	286.86	286.67	286.57	286.58	286.54	285.96	
9	286.14	286.49	286.57	286.69	286.64	286.80	286.82	286.68	286.57	286.53	286.53	286.07	
10	286.17	286.49	286.56	286.71	286.60	286.78	286.76	286.67	286.56	286.48	286.50	286.53	
11	286.26	286.49	286.55	286.71	286.60	286.91	286.79	286.66	286.56	286.60	286.50	286.61	
12	286.29	286.50	286.55	286.69	286.53	286.86	286.78	286.67	286.57	286.64	286.45	286.62	
13	286.23	286.50	286.56	286.65	286.43	286.87	286.85	286.67	286.55	286.61	286.44	286.62	
14	286.23	286.49	286.56	286.65	286.45	286.91	286.78	286.66	286.55	286.54	286.44	286.62	
15	286.24	286.48	286.55	286.63	286.64	287.05	286.76	286.66	286.59	286.47	286.39	286.62	
16	286.26	286.54	286.55	286.61	286.71	287.29	286.77	286.66	286.59	286.41	286.41	286.62	
17	286.29	286.65	286.65	286.61	286.63	287.01	286.76	286.66	286.60	286.35	286.41	286.59	
18	286.31	286.59	286.69	286.59	286.60	287.42	286.75	286.65	286.60	286.15	286.41	286.58	
19	286.33	286.60	286.56	286.58	286.59	287.02	286.75	286.60	286.61	286.18	286.35	286.61	
20	286.31	286.59	286.55	286.61	286.72	286.92	286.72	286.63	286.61	286.19	286.40	286.60	
21	286.29	286.64	286.53	286.82	286.77	286.90	286.74	286.64	286.60	286.20	286.33	286.58	
22	286.30	286.61	286.45	286.69	286.82	286.85	286.71	286.62	286.60	286.27	286.26	286.59	
23	286.21	286.59	286.28	286.60	286.89	286.82	286.69	286.61	286.61	286.57	286.25	286.58	
24	286.17	286.54	286.26	286.60	286.84	286.90	286.81	286.62	286.60	286.60	286.22	286.59	
25	286.14	286.52	286.30	286.57	286.75	286.87	287.10	286.61	286.59	286.56	286.00	286.56	
26	286.15	286.54	286.55	286.56	286.75	286.89	286.91	286.60	286.56	286.55	286.05	286.57	
27	286.16	286.53	286.59	286.56	286.79	286.83	286.80	286.61	286.53	286.55	286.05	286.55	
28	286.18	286.56	286.57	286.67	286.89	286.93	286.75	286.62	286.47	286.55	286.05	286.58	
29	286.17	286.72	286.60	286.70	286.82	287.06	286.75	286.60	286.45	286.52		286.58	
30	286.27	286.68	286.65	286.65	286.74	286.84	286.75	286.59	286.45	286.40		286.57	
31		286.65		286.63	286.77		286.75		286.52	286.44		286.58	
Mean	286.23	286.56	286.56	286.65	286.65	286.90	286.81	286.65	286.57	286.47	286.37	286.42	
Max	286.34	286.72	286.76	286.82	286.89	287.42	287.41	286.73	286.61	286.64	286.55	286.62	287.42
Min	286.14	286.48	286.26	286.56	286.27	286.70	286.69	286.59	286.45	286.15	286.00	285.96	285.96

Annual Max Momentary Gage Height 287.56 m. (MSL.) , at 06.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 286.47 m. (MSL.) , River Bed 285.72 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.98	1.54	1.30	0.23	2.50	2.50	1.66	0.47	0.47	0.29	0.00	
2	0.03	0.50	2.02	1.14	0.08	1.30	1.90	1.54	0.50	0.26	0.26	0.00	
3	0.04	0.44	0.74	0.98	0.05	2.14	1.90	1.42	0.47	0.09	0.09	0.00	
4	0.04	0.38	0.58	1.06	0.32	3.35	1.66	1.42	0.44	0.08	0.17	0.00	
5	0.04	0.38	0.58	1.06	0.26	2.84	6.04	1.22	0.41	0.38	0.26	0.00	
6	0.03	0.29	0.47	1.06	0.23	2.50	28.90	1.22	0.44	0.58	0.32	0.00	
7	0.03	0.20	0.47	1.42	0.98	1.54	3.86	1.06	0.47	0.58	0.35	0.00	
8	0.02	0.19	0.47	2.02	1.30	3.35	3.52	1.06	0.41	0.44	0.32	0.00	
9	0.02	0.19	0.41	1.22	0.82	2.50	2.84	1.14	0.41	0.29	0.29	0.00	
10	0.02	0.19	0.38	1.42	0.50	2.26	2.02	1.06	0.38	0.18	0.20	0.00	
11	0.05	0.19	0.35	1.42	0.50	4.43	2.38	0.98	0.38	0.50	0.20	0.00	
12	0.06	0.20	0.35	1.22	0.29	3.52	2.26	1.06	0.41	0.82	0.15	0.00	
13	0.04	0.20	0.38	0.90	0.13	3.69	3.35	1.06	0.35	0.58	0.14	0.00	
14	0.04	0.19	0.38	0.90	0.15	4.43	2.26	0.98	0.35	0.32	0.14	0.00	
15	0.04	0.18	0.35	0.74	0.82	8.00	2.02	0.98	0.47	0.17	0.10	0.00	
16	0.05	0.32	0.35	0.58	1.42	19.40	2.14	0.98	0.47	0.11	0.11	0.00	
17	0.06	0.90	0.90	0.58	0.74	6.80	2.02	0.98	0.50	0.08	0.11	0.00	
18	0.06	0.47	1.22	0.47	0.50	29.80	1.90	0.90	0.50	0.02	0.11	0.00	
19	0.07	0.50	0.38	0.44	0.47	7.10	1.90	0.50	0.58	0.03	0.08	0.00	
20	0.06	0.47	0.35	0.58	1.54	4.66	1.54	0.74	0.58	0.03	0.10	0.00	
21	0.06	0.82	0.29	2.84	2.14	4.20	1.78	0.82	0.50	0.03	0.07	0.00	
22	0.06	0.58	0.15	1.22	2.84	3.35	1.42	0.66	0.50	0.05	0.05	0.00	
23	0.03	0.47	0.05	0.50	4.03	2.84	1.22	0.58	0.58	0.41	0.04	0.00	
24	0.02	0.32	0.05	0.50	3.18	4.20	2.67	0.66	0.50	0.50	0.04	0.00	
25	0.02	0.26	0.06	0.41	1.90	3.69	9.50	0.58	0.47	0.38	0.00	0.00	
26	0.02	0.32	0.35	0.38	1.90	4.03	4.43	0.50	0.38	0.35	0.00	0.00	
27	0.02	0.29	0.47	0.38	2.38	3.01	2.50	0.58	0.29	0.35	0.00	0.00	
28	0.03	0.38	0.41	1.06	4.03	4.89	1.90	0.66	0.17	0.35	0.00	0.00	
29	0.02	1.54	0.50	1.30	2.84	8.30	1.90	0.50	0.15	0.26		0.00	
30	0.05	1.14	0.90	0.90	1.78	3.18	1.90	0.47	0.15	0.10		0.00	
31		0.90		0.74	2.14		1.90		0.26	0.14		0.00	
Total	1.21	14.38	15.90	30.74	40.49	157.80	108.03	27.97	12.94	8.93	3.99	0.00	422.38	CMSDAY
Mean	0.04	0.46	0.53	0.99	1.31	5.26	3.48	0.93	0.42	0.29	0.14	0.00	1.16	CMS
Max	0.08	1.54	2.02	2.84	4.03	29.80	28.90	1.66	0.58	0.82	0.35	0.00	29.80	CMS
Min	0.02	0.18	0.05	0.38	0.05	1.30	1.22	0.47	0.15	0.02	0.00	0.00	0.00	CMS
Runoff	0.10	1.24	1.37	2.66	3.50	13.63	9.33	2.42	1.12	0.77	0.34	0.00	36.49	MCM

Momentary Peak 42.70 CMS. at 287.56 m. (MSL.) at 06.00 Hours , on Oct 6 , 2016

Runoff Yield 7.71 Liters/Second/Square KM. Momentary Peak Yield 284.670 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

Ban Nam Khong **Amphoe** Mueang **Changwat** Phrae

Drainge Area	7,749 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+143.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the station office **Elevation** +153.972 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1979 to date
Rated by Flot	-
Rated by Current Meter	1979 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Mae yom weir situated about 76 kilometers above gage site. Stage-discharge relation defined by 62 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

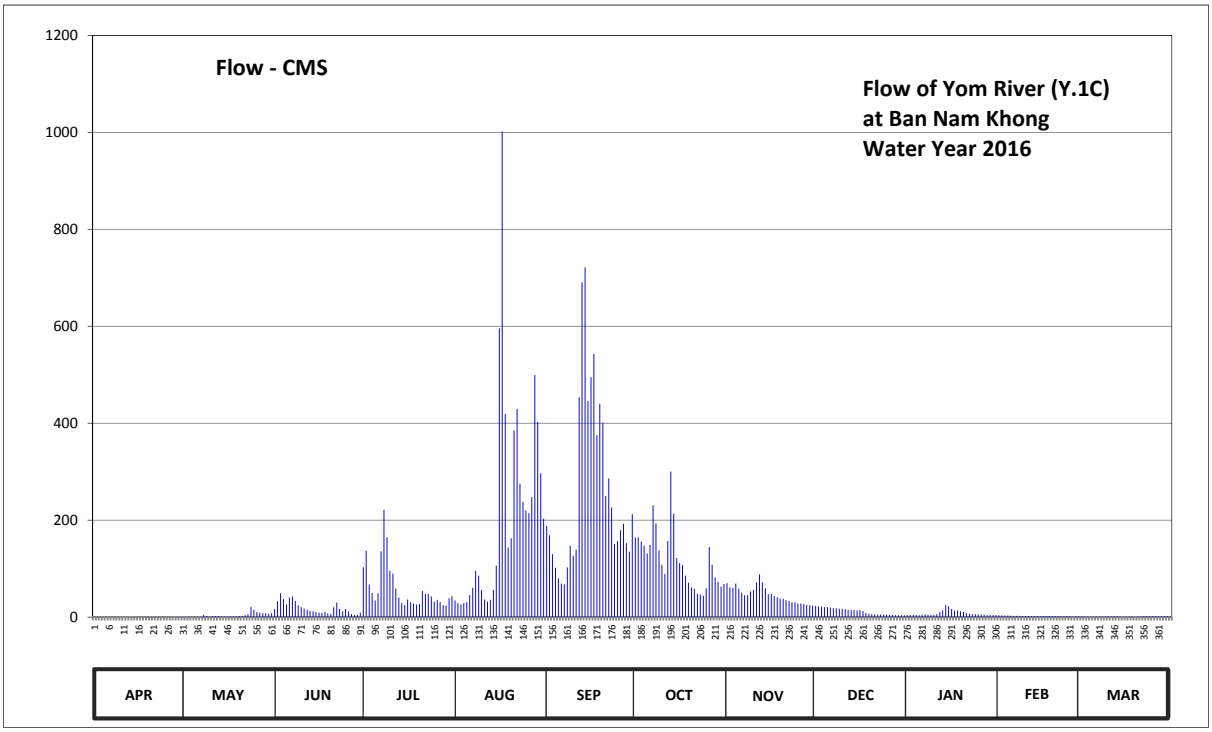
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.44	143.42	144.14	145.31	144.45	146.26	146.01	144.93	144.28	143.74	143.74	143.54	
2	143.43	143.41	144.43	145.70	144.37	146.06	146.02	144.82	144.26	143.76	143.72	143.51	
3	143.43	143.44	144.66	144.89	144.33	145.62	145.92	144.81	144.25	143.79	143.70	143.44	
4	143.41	143.46	144.49	144.67	144.37	145.30	145.82	144.92	144.23	143.76	143.69	143.47	
5	143.41	143.44	144.33	144.45	144.40	145.05	145.64	144.79	144.23	143.75	143.67	143.47	
6	143.40	143.42	144.54	144.66	144.61	144.92	145.84	144.68	144.21	143.80	143.65	143.47	
7	143.40	143.43	144.57	145.69	144.81	144.90	146.64	144.61	144.19	143.82	143.65	143.49	
8	143.39	143.79	144.44	146.56	145.23	145.31	146.31	144.61	144.18	143.80	143.64	143.51	
9	143.38	143.62	144.30	146.02	145.11	145.82	145.71	144.71	144.16	143.78	143.61	143.53	
10	143.37	143.43	144.23	145.23	144.75	145.58	145.37	144.75	144.16	143.78	143.63	143.55	
11	143.37	143.61	144.17	145.16	144.48	145.73	145.15	144.95	144.14	143.84	143.63	143.54	
12	143.37	143.61	144.11	144.79	144.42	148.31	145.93	145.14	144.11	143.98	143.62	143.53	
13	143.39	143.58	144.06	144.54	144.47	149.77	147.22	144.95	144.10	144.08	143.63	143.53	
14	143.40	143.54	144.03	144.37	144.76	149.95	146.49	144.80	144.10	144.31	143.60	143.45	
15	143.40	143.50	143.99	144.31	145.35	148.26	145.53	144.64	144.08	144.26	143.60	143.47	
16	143.39	143.51	143.95	144.48	149.21	148.58	145.41	144.65	144.10	144.15	143.63	143.50	
17	143.39	143.54	143.93	144.40	151.43	148.89	145.36	144.58	144.05	144.07	143.62	143.48	
18	143.40	143.51	144.00	144.36	148.08	147.78	145.11	144.55	143.92	144.08	143.62	143.48	
19	143.40	143.53	143.90	144.33	145.78	148.22	144.94	144.51	143.88	144.04	143.63	143.53	
20	143.41	143.63	143.85	144.34	146.00	147.96	144.82	144.50	143.86	144.00	143.63	143.63	
21	143.41	143.63	144.23	144.73	147.85	146.80	144.78	144.46	143.83	143.92	143.60	143.92	
22	143.42	143.74	144.39	144.64	148.15	147.10	144.65	144.44	143.81	143.87	143.59	144.10	
23	143.42	143.84	144.15	144.65	147.01	146.60	144.63	144.40	143.81	143.85	143.58	144.14	
24	143.42	144.24	144.03	144.57	146.70	145.86	144.59	144.40	143.81	143.84	143.58	144.14	
25	143.41	144.11	144.15	144.42	146.55	145.93	144.80	144.36	143.79	143.83	143.55	144.12	
26	143.41	143.99	144.02	144.47	146.50	146.17	145.79	144.36	143.78	143.81	143.46	144.12	
27	143.41	143.94	143.85	144.41	146.78	146.30	145.37	144.34	143.77	143.81	143.53	144.17	
28	143.39	143.91	143.78	144.31	148.61	145.88	145.07	144.32	143.74	143.78	143.55	144.13	
29	143.39	143.91	143.78	144.29	147.97	145.68	144.96	144.31	143.74	143.76		144.11	
30	143.40	143.88	143.94	144.52	147.19	146.48	144.84	144.29	143.75	143.76		144.11	
31		143.92		144.58	146.40		144.91		143.74	143.76		144.09	
Mean	143.40	143.66	144.15	144.77	146.13	146.70	145.47	144.62	144.00	143.89	143.62	143.72	
Max	143.44	144.24	144.66	146.56	151.43	149.95	147.22	145.14	144.28	144.31	143.74	144.17	151.43
Min	143.37	143.41	143.78	144.29	144.33	144.90	144.59	144.29	143.74	143.74	143.46	143.44	143.37

Annual Max Momentary Gage Height 151.75 m. (MSL.) , at 12.00 Hours , on Aug 17 , 2016

Zero Gage at Bottom Elevation 143.50 m. (MSL.) , River Bed 142.77 m. (MSL.)

Left Bank Elevation 154.00 m. (MSL.) ,

Right Bank Elevation 154.03 m. (MSL.) , Drainage Are 7,749 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.52	0.36	16.36	102.77	34.15	188.30	163.76	70.09	23.16	3.92	3.92	1.40		
2	0.44	0.28	32.77	136.70	28.75	168.56	164.72	61.13	22.12	4.28	3.56	1.10		
3	0.44	0.52	49.00	66.83	26.15	129.74	155.84	60.31	21.60	4.82	3.20	0.52		
4	0.28	0.68	36.91	49.75	28.75	101.90	147.14	69.28	20.56	4.28	3.08	0.76		
5	0.28	0.52	26.15	34.15	30.70	80.15	131.48	58.75	20.56	4.10	2.84	0.76		
6	0.20	0.36	40.36	49.00	45.25	69.28	148.88	50.50	19.52	5.00	2.60	0.76		
7	0.20	0.44	42.43	135.83	60.31	67.65	230.80	45.25	18.56	5.50	2.60	0.92		
8	0.18	4.82	33.46	221.40	95.81	102.77	193.55	45.25	18.12	5.00	2.48	1.10		
9	0.16	2.24	24.20	164.72	85.37	147.14	137.57	52.75	17.24	4.64	2.12	1.30		
10	0.14	0.44	20.56	95.81	55.75	126.26	107.99	55.75	17.24	4.64	2.36	1.50		
11	0.14	2.12	17.68	89.72	36.22	139.31	88.85	71.72	16.36	6.00	2.36	1.40		
12	0.14	2.12	15.04	58.75	32.08	453.50	156.71	87.98	15.04	10.06	2.24	1.30		
13	0.18	1.80	13.04	40.36	35.53	690.90	300.50	71.72	14.60	13.82	2.36	1.30		
14	0.20	1.40	11.87	28.75	56.50	721.50	213.35	59.50	14.60	24.85	2.00	0.60		
15	0.20	1.00	10.38	24.85	106.25	446.00	121.91	47.50	13.82	22.12	2.00	0.76		
16	0.18	1.10	9.10	36.22	595.70	494.90	111.47	48.25	14.60	16.80	2.36	1.00		
17	0.18	1.40	8.46	30.70	1001.70	542.95	107.12	43.12	12.65	13.43	2.24	0.84		
18	0.20	1.10	10.70	28.10	419.00	375.20	85.37	41.05	8.14	13.82	2.24	0.84		
19	0.20	1.30	7.50	26.15	143.66	440.00	70.91	38.29	7.00	12.26	2.36	0.46		
20	0.28	2.36	6.25	26.80	162.80	401.20	61.13	37.60	6.50	10.70	2.36	0.66		
21	0.28	2.36	20.56	54.25	385.25	250.00	58.00	34.84	5.75	8.14	2.00	1.26		
22	0.36	3.92	30.05	47.50	429.50	286.00	48.25	33.46	5.25	6.75	1.90	1.80		
23	0.36	6.00	16.80	48.25	275.20	226.00	46.75	30.70	5.25	6.25	1.80	1.92		
24	0.36	21.08	11.87	42.43	238.00	150.62	43.81	30.70	5.25	6.00	1.80	1.92		
25	0.28	15.04	16.80	32.08	220.25	156.71	59.50	28.10	4.82	5.75	1.50	1.86		
26	0.28	10.38	11.48	35.53	214.50	179.12	144.53	28.10	4.64	5.25	0.68	1.86		
27	0.28	8.78	6.25	31.39	247.60	192.50	107.99	26.80	4.46	5.25	1.30	2.01		
28	0.18	7.82	4.64	24.85	499.55	152.36	81.89	25.50	3.92	4.64	1.50	1.89		
29	0.18	7.82	4.64	23.68	402.65	134.96	72.54	24.85	3.92	4.28		1.83		
30	0.20	7.00	8.78	38.98	296.80	212.20	62.76	23.68	4.10	4.28		1.83		
31		8.14		43.12	203.00		68.46		3.92	4.28		1.77		
Total	7.50	124.70	564.09	1869.42	6492.73	7827.68	3693.53	1402.52	373.27	250.91	63.76	39.23	22709.34	CMSDAY
Mean	0.25	4.02	18.80	60.30	209.44	260.92	119.15	46.75	12.04	8.09	2.28	1.27	62.22	CMS
Max	0.52	21.08	49.00	221.40	1001.70	721.50	300.50	87.98	23.16	24.85	3.92	2.01	1001.70	CMS
Min	0.14	0.28	4.64	23.68	26.15	67.65	43.81	23.68	3.92	3.92	0.68	0.46	0.14	CMS
Runoff	0.65	10.77	48.74	161.52	560.97	676.31	319.12	121.18	32.25	21.68	5.51	3.39	1962.09	MCM

Momentary Peak 1062.50 CMS. at 151.75 m. (MSL.) at 12.00 Hours , on Aug 17 , 2016

Runoff Yield 7.99 Liters/Second/Square KM. Momentary Peak Yield 136.410 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)

Lat 17 - 18 - 28 N Long 99 - 49 - 44 E

Location : on right bank about 100 meters downstream from the bridge on highway.

Ban Wang Mai Khon **Amphoe** Sawankhalok **Changwat** Sukhothai

Drainge Area	13,331 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+51.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of automatic gage building. **Elevation** +65.350 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 to date
Rated by Flot	-
Rated by Current Meter	1967 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

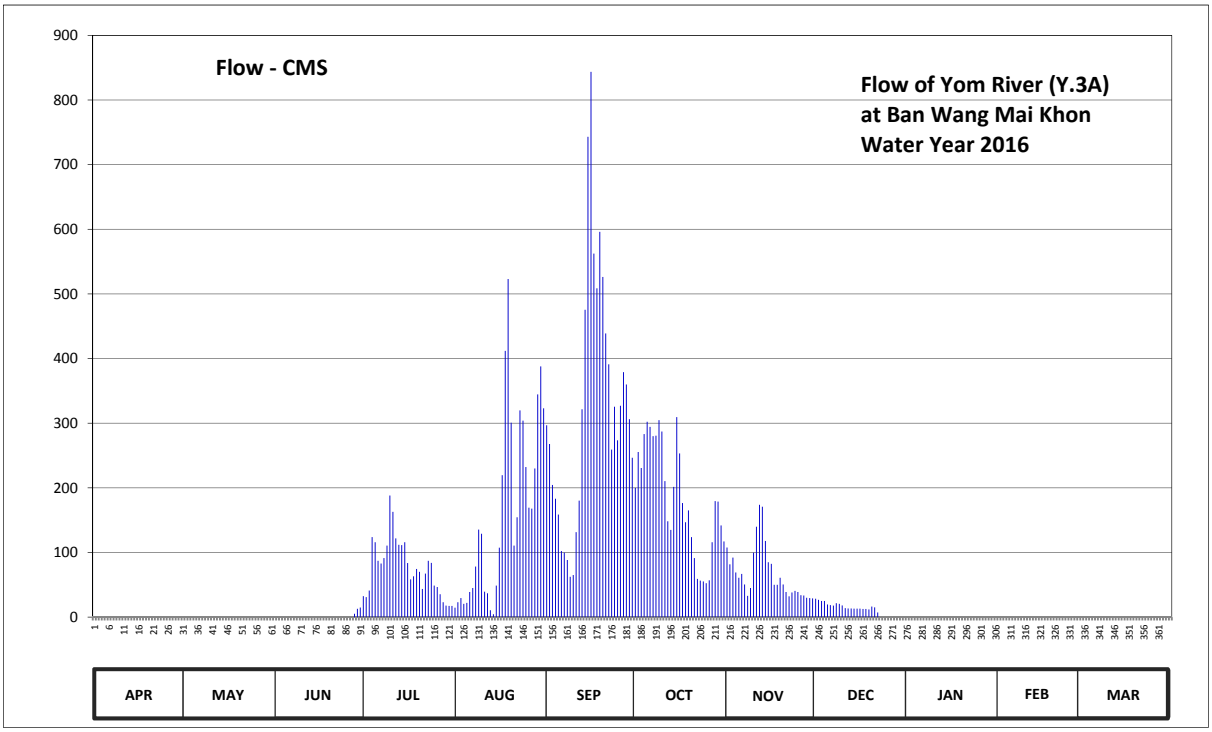
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.14	50.07	50.15	51.41	52.29	55.34	54.08	52.76	52.57	51.20	51.09	50.35	
2	50.13	50.07	50.15	51.38	52.47	54.98	54.82	52.33	52.54	51.18	51.06	50.36	
3	50.13	50.07	50.16	51.58	52.59	54.14	54.49	52.50	52.51	51.17	51.05	50.35	
4	50.13	50.07	50.18	53.01	52.42	53.85	55.17	52.11	52.51	51.16	51.04	50.60	
5	50.13	50.07	50.18	52.89	52.45	53.51	55.41	51.96	52.40	51.15	51.05	50.36	
6	50.13	50.07	50.18	52.42	52.75	52.67	55.31	52.07	52.38	51.15	51.05	50.39	
7	50.12	50.07	50.25	52.35	52.84	52.63	55.13	51.77	52.36	51.15	51.04	50.40	
8	50.12	50.07	50.28	52.49	53.24	52.44	55.14	51.42	52.44	51.13	51.04	50.40	
9	50.12	50.07	50.28	52.81	53.72	51.99	55.44	51.66	52.42	51.14	50.81	50.42	
10	50.12	50.07	50.28	53.92	53.68	52.04	55.22	52.63	52.37	51.15	50.83	50.40	
11	50.12	50.05	50.32	53.57	52.76	53.12	54.22	53.24	52.27	51.17	50.82	50.39	
12	50.12	50.01	50.35	52.98	52.72	53.81	53.36	53.72	52.26	51.16	50.79	50.41	
13	50.11	50.01	50.36	52.83	52.19	55.65	53.17	53.68	52.26	51.20	50.78	50.45	
14	50.11	50.01	50.30	52.82	51.98	57.49	54.10	52.92	52.25	51.54	50.74	50.76	
15	50.11	50.01	50.25	52.89	52.89	59.61	55.50	52.38	52.25	51.51	50.74	50.49	
16	50.11	50.01	50.25	52.36	53.52	60.22	54.79	52.34	52.25	51.63	50.73	50.67	
17	50.11	50.01	50.25	53.01	54.34	58.30	53.76	51.76	52.24	51.66	50.74	50.45	
18	50.11	50.01	50.25	53.07	56.78	57.82	53.34	51.76	52.24	51.65	50.74	50.43	
19	50.10	50.01	50.26	53.20	57.95	58.57	53.60	51.96	52.22	51.60	50.74	50.43	
20	50.08	50.01	50.26	53.15	55.39	57.98	53.01	51.77	52.33	51.47	50.74	50.43	
21	50.07	50.03	50.26	52.82	52.81	57.10	52.49	52.75	52.30	51.47	50.73	50.42	
22	50.07	50.03	50.25	53.12	53.45	56.52	51.93	52.64	52.07	51.29	50.72	50.43	
23	50.07	50.03	50.25	53.33	55.63	54.87	51.88	52.74	51.51	51.23	50.73	50.43	
24	50.07	50.03	50.26	53.30	55.43	55.70	51.86	52.78	51.19	51.18	50.98	50.43	
25	50.07	50.03	50.32	52.89	54.51	55.05	51.81	52.75	51.19	51.16	50.90	50.42	
26	50.07	50.03	50.45	52.86	53.66	55.72	51.89	52.67	51.18	51.15	50.63	50.42	
27	50.07	50.03	50.58	52.70	53.64	56.37	52.89	52.66	51.17	51.13	50.36	50.41	
28	50.07	50.13	50.76	52.47	54.48	56.13	53.80	52.60	51.16	51.13	50.40	50.42	
29	50.07	50.13	50.97	52.36	55.94	55.46	53.79	52.59	51.21	51.12		50.43	
30	50.07	50.13	51.02	52.35	56.48	54.70	53.27	52.58	51.21	51.10		50.43	
31		50.13		52.35	55.67		52.91		51.20	51.11		50.42	
Mean	50.10	50.05	50.34	52.73	53.89	55.46	53.79	52.45	52.01	51.27	50.82	50.44	
Max	50.14	50.13	51.02	53.92	57.95	60.22	55.50	53.72	52.57	51.66	51.09	50.76	60.22
Min	50.07	50.01	50.15	51.38	51.98	51.99	51.81	51.42	51.16	51.10	50.36	50.35	50.01

Annual Max Momentary Gage Height 60.33 m. (MSL.) , at 06.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 51.00 m. (MSL.) , River Bed 48.46 m. (MSL.)

Left Bank Elevation 65.46 m. (MSL.) ,

Right Bank Elevation 65.43 m. (MSL.) , Drainage Are 13,331 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	32.50	14.60	296.70	200.00	107.60	28.35	0.00	0.00	0.00		
2	0.00	0.00	0.00	31.00	23.00	267.90	255.50	81.80	26.70	0.00	0.00	0.00		
3	0.00	0.00	0.00	41.00	29.45	204.50	230.75	92.00	25.05	0.00	0.00	0.00		
4	0.00	0.00	0.00	123.70	20.50	183.13	283.10	69.05	25.05	0.00	0.00	0.00		
5	0.00	0.00	0.00	115.85	22.00	158.70	302.30	60.80	19.50	0.00	0.00	0.00		
6	0.00	0.00	0.00	87.20	38.75	102.20	294.30	66.85	18.60	0.00	0.00	0.00		
7	0.00	0.00	0.00	83.00	45.00	99.80	279.90	50.50	17.70	0.00	0.00	0.00		
8	0.00	0.00	0.00	91.40	78.30	88.40	280.70	33.00	21.50	0.00	0.00	0.00		
9	0.00	0.00	0.00	110.65	135.30	62.45	304.70	45.00	20.50	0.00	0.00	0.00		
10	0.00	0.00	0.00	188.20	129.00	65.20	287.10	99.80	18.15	0.00	0.00	0.00		
11	0.00	0.00	0.00	162.90	39.40	131.40	210.50	139.80	13.80	0.00	0.00	0.00		
12	0.00	0.00	0.00	121.70	36.80	180.23	148.20	173.70	13.40	0.00	0.00	0.00		
13	0.00	0.00	0.00	111.95	10.70	321.50	134.90	170.80	13.40	0.00	0.00	0.00		
14	0.00	0.00	0.00	111.30	4.40	475.55	201.50	117.80	13.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	115.85	48.75	743.05	309.50	84.80	13.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	83.60	107.40	843.60	253.25	82.40	13.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	58.30	219.50	562.50	176.60	50.00	12.60	0.00	0.00	0.00		
18	0.00	0.00	0.00	63.10	411.90	508.70	146.80	50.00	12.60	0.00	0.00	0.00		
19	0.00	0.00	0.00	74.50	523.00	596.10	165.00	60.80	11.80	0.00	0.00	0.00		
20	0.00	0.00	0.00	70.00	300.70	526.30	123.70	50.50	16.35	0.00	0.00	0.00		
21	0.00	0.00	0.00	43.50	110.65	439.00	91.40	38.75	15.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	67.30	154.50	391.10	59.15	32.20	7.10	0.00	0.00	0.00		
23	0.00	0.00	0.00	87.00	319.90	259.25	56.40	38.10	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	84.00	303.90	325.50	55.30	40.70	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	48.75	232.25	273.50	52.55	38.75	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	46.50	169.35	327.10	56.95	33.85	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	35.50	167.90	379.10	115.85	33.30	0.00	0.00	0.00	0.00		
28	0.00	0.00	5.10	23.00	230.00	359.90	179.50	30.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	12.80	17.70	344.70	306.30	178.78	29.45	0.00	0.00		0.00		
30	0.00	0.00	14.80	17.25	387.90	246.50	141.90	28.90	0.00	0.00		0.00		
31		0.00		17.25	323.10		117.15		0.00	0.00		0.00		
Total	0.00	0.00	32.70	2365.45	4982.60	9725.16	5693.23	2031.00	376.15	0.00	0.00	0.00	25206.29	CMSDAY
Mean	0.00	0.00	1.09	76.30	160.73	324.17	183.65	67.70	12.13	0.00	0.00	0.00	69.06	CMS
Max	0.00	0.00	14.80	188.20	523.00	843.60	309.50	173.70	28.35	0.00	0.00	0.00	843.60	CMS
Min	0.00	0.00	0.00	17.25	4.40	62.45	52.55	28.90	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	2.83	204.37	430.50	840.25	491.90	175.48	32.50	0.00	0.00	0.00	2177.82	MCM

Momentary Peak 864.00 CMS. at 60.33 m. (MSL.) at 06.00 Hours , on Sep 16 , 2016

Runoff Yield 5.08 Liters/Second/Square KM. Momentary Peak Yield 63.610 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

Ban Kaeng Luang **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	12,769 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+59.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near automatic gage building **Elevation** +68.928 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1952 to date
Rating Operation	
Period of Rating	1952 to date
Rated by Flot	-
Rated by Current Meter	1952 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +57.780 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

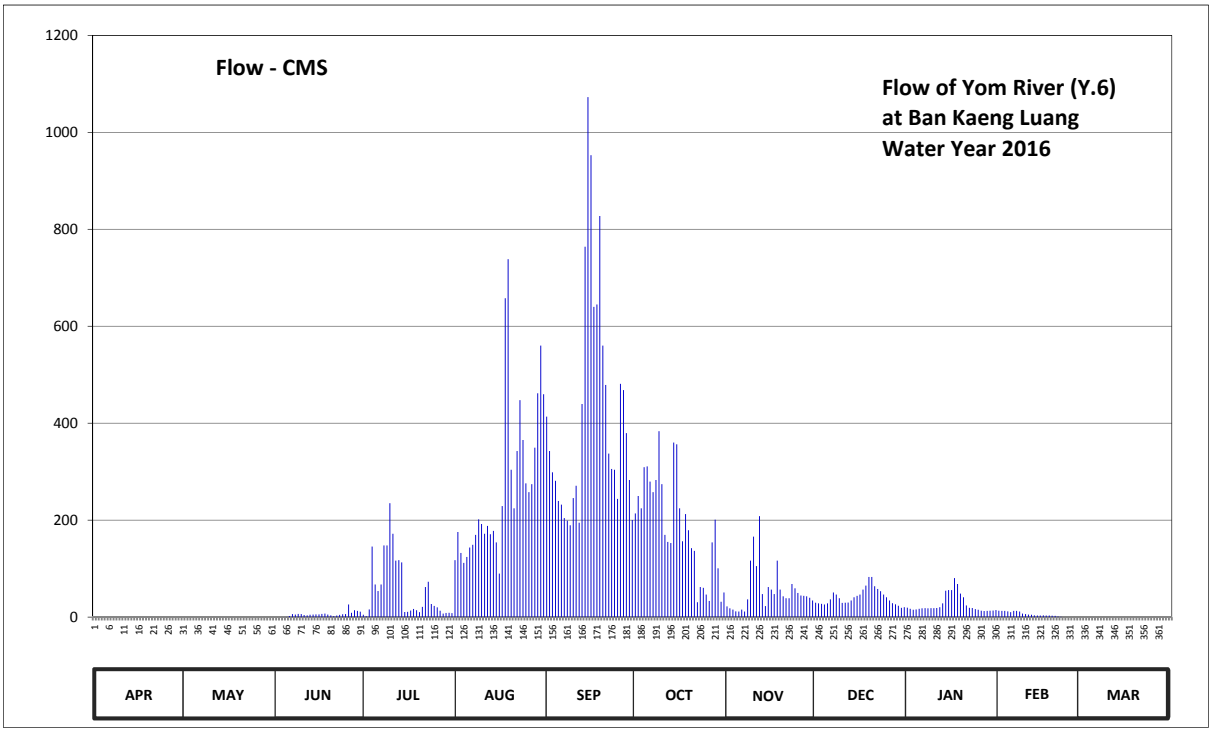
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.68	58.50	58.81	59.70	61.51	63.48	62.32	61.87	62.07	61.78	61.50	58.77	
2	58.68	58.49	58.96	59.56	62.03	63.10	62.56	61.73	62.04	61.69	61.47	58.75	
3	58.68	58.49	59.48	60.07	61.66	62.85	62.39	61.61	62.02	61.60	61.47	58.73	
4	58.67	58.49	59.53	61.78	61.45	62.75	62.91	61.42	61.99	61.63	61.43	58.75	
5	58.66	58.48	60.12	60.93	61.58	62.49	62.92	61.40	62.04	61.68	61.32	58.84	
6	58.65	58.48	60.47	60.74	61.76	62.44	62.74	61.61	62.17	61.73	61.48	58.83	
7	58.64	58.47	61.01	60.93	61.81	62.25	62.61	61.41	62.32	61.74	61.47	58.83	
8	58.64	58.47	60.86	61.80	61.98	62.21	62.76	62.17	62.28	61.73	61.40	58.83	
9	58.64	58.47	61.04	61.80	62.23	62.14	63.33	62.68	62.20	61.74	61.10	58.83	
10	58.64	58.46	61.00	62.46	62.16	62.53	62.71	62.87	62.06	61.74	61.01	58.83	
11	58.62	58.45	60.73	62.00	62.00	62.69	61.98	62.63	62.07	61.75	60.87	58.82	
12	58.61	58.45	60.63	61.50	62.13	62.18	61.86	62.99	62.08	61.82	60.81	58.82	
13	58.61	58.45	60.81	61.51	61.99	63.61	61.84	62.29	62.14	62.04	60.64	58.81	
14	58.60	58.51	60.89	61.46	62.05	64.93	63.20	61.89	62.22	62.35	60.60	58.75	
15	58.60	58.49	60.91	61.33	61.85	65.89	63.18	62.41	62.25	62.36	60.62	58.72	
16	58.59	58.49	60.93	61.36	61.21	65.53	62.39	62.37	62.28	62.36	60.65	58.72	
17	58.58	58.48	61.04	61.51	62.42	64.47	61.87	62.29	62.37	62.52	60.62	58.69	
18	58.58	58.47	61.10	61.67	64.54	64.49	62.31	62.68	62.43	62.45	60.61	58.69	
19	58.57	58.67	60.86	61.54	64.84	65.14	62.06	62.37	62.53	62.30	60.57	58.68	
20	58.56	58.67	60.64	61.32	62.88	64.15	61.75	62.24	62.53	62.22	60.52	58.67	
21	58.55	58.71	60.43	61.84	62.39	63.80	61.70	62.20	62.42	61.93	60.33	58.66	
22	58.55	58.73	60.59	62.41	63.10	63.07	62.09	62.20	62.38	61.77	60.16	58.66	
23	58.54	58.73	60.80	62.48	63.65	62.89	62.41	62.45	62.34	61.75	59.70	58.66	
24	58.54	58.73	60.95	62.01	63.23	62.88	62.40	62.39	62.28	61.65	58.89	58.66	
25	58.54	58.73	61.00	61.90	62.72	62.52	62.28	62.31	62.22	61.59	58.84	58.66	
26	58.53	58.72	60.28	61.80	62.61	63.81	62.13	62.26	62.14	61.49	58.82	58.65	
27	58.53	58.71	59.86	61.50	62.71	63.75	62.83	62.25	62.05	61.46	58.80	58.65	
28	58.51	58.70	60.03	61.09	63.14	63.31	62.97	62.24	62.00	61.48	58.78	58.65	
29	58.50	58.69	60.00	61.21	63.72	62.76	62.61	62.21	61.91	61.50		58.65	
30	58.50	58.69	59.94	61.22	64.15	62.22	62.11	62.14	61.76	61.52		58.64	
31		58.78		61.19	63.71		62.32		61.81	61.57		58.64	
Mean	58.59	58.58	60.46	61.41	62.56	63.34	62.44	62.19	62.17	61.84	60.52	58.73	
Max	58.68	58.78	61.10	62.48	64.84	65.89	63.33	62.99	62.53	62.52	61.50	58.84	65.89
Min	58.50	58.45	58.81	59.56	61.21	62.14	61.70	61.40	61.76	61.46	58.78	58.64	58.45

Annual Max Momentary Gage Height 66.02 m. (MSL.) , at 21.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 59.00 m. (MSL.) , River Bed 45.87 m. (MSL.)

Left Bank Elevation 57.93 m. (MSL.) ,

Right Bank Elevation 57.76 m. (MSL.) , Drainage Are 12,769 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	5.00	117.45	413.50	214.00	22.10	29.65	19.50	13.25	0.00	
2	0.00	0.00	0.00	2.10	175.60	342.50	250.00	18.25	28.30	17.27	12.72	0.00	
3	0.00	0.00	0.00	15.80	132.30	298.75	224.50	15.48	27.40	15.25	12.72	0.00	
4	0.00	0.00	0.00	145.70	111.75	281.25	309.25	11.85	26.15	15.93	12.02	0.00	
5	0.00	0.00	0.35	67.40	124.10	239.50	311.00	11.50	28.30	17.05	10.30	0.00	
6	0.00	0.00	2.27	53.80	143.40	232.00	279.50	15.48	36.60	18.25	12.90	0.00	
7	0.00	0.00	6.35	67.40	149.20	204.25	257.65	11.67	50.90	18.50	12.72	0.00	
8	0.00	0.00	5.20	148.00	169.60	198.85	283.00	36.60	46.60	18.25	11.50	0.00	
9	0.00	0.00	6.65	148.00	201.55	189.40	383.50	116.50	39.00	18.50	7.25	0.00	
10	0.00	0.00	6.25	235.00	192.10	245.50	274.25	166.00	29.20	18.50	6.35	0.00	
11	0.00	0.00	4.22	172.00	172.00	270.85	169.60	105.25	29.65	18.75	5.27	0.00	
12	0.00	0.00	3.47	116.50	188.05	194.80	155.20	208.30	30.10	20.60	4.82	0.00	
13	0.00	0.00	4.82	117.45	170.80	439.50	152.80	47.55	34.20	28.30	3.55	0.00	
14	0.00	0.00	5.42	112.70	178.00	764.00	360.00	22.70	40.90	54.50	3.25	0.00	
15	0.00	0.00	5.57	10.45	154.00	1072.60	356.50	62.05	43.75	55.70	3.40	0.00	
16	0.00	0.00	5.72	10.90	89.85	952.90	224.50	56.90	46.60	55.70	3.62	0.00	
17	0.00	0.00	6.65	13.45	229.00	639.85	156.40	47.55	56.90	80.50	3.40	0.00	
18	0.00	0.00	7.25	16.82	657.70	644.95	212.50	116.50	65.15	68.25	3.32	0.00	
19	0.00	0.00	5.20	14.05	738.20	827.40	179.20	56.90	82.75	48.50	3.02	0.00	
20	0.00	0.00	3.55	10.30	304.00	560.00	142.25	42.80	82.75	40.90	2.65	0.00	
21	0.00	0.00	1.97	21.20	224.50	479.00	136.50	39.00	63.60	24.05	1.40	0.00	
22	0.00	0.00	3.17	62.05	342.50	337.25	30.55	39.00	58.10	19.25	0.55	0.00	
23	0.00	0.00	4.75	72.90	447.50	305.75	62.05	68.25	53.30	18.75	0.00	0.00	
24	0.00	0.00	5.87	26.95	365.25	304.00	60.50	59.30	46.60	16.38	0.00	0.00	
25	0.00	0.00	6.25	23.00	276.00	244.00	46.60	49.70	40.90	15.05	0.00	0.00	
26	0.00	0.00	26.00	20.00	257.65	481.20	33.40	44.70	34.20	13.07	0.00	0.00	
27	0.00	0.00	9.00	13.25	274.25	468.25	154.00	43.75	28.75	12.55	0.00	0.00	
28	0.00	0.00	14.20	7.15	349.50	379.50	200.90	42.80	26.50	12.90	0.00	0.00	
29	0.00	0.00	13.00	8.65	461.80	283.00	100.75	39.95	23.35	13.25		0.00	
30	0.00	0.00	11.20	8.80	560.00	200.20	31.80	34.20	19.00	13.65		0.00	
31		0.00		8.37	459.65		50.90		20.30	14.65		0.00	
Total	0.00	0.00	174.35	1755.14	8417.25	12494.50	5803.55	1652.58	1269.45	822.25	149.98	0.00	32539.05	CMSDAY
Mean	0.00	0.00	5.81	56.62	271.52	416.48	187.21	55.09	40.95	26.52	5.36	0.00	89.15	CMS
Max	0.00	0.00	26.00	235.00	738.20	1072.60	383.50	208.30	82.75	80.50	13.25	0.00	1072.60	CMS
Min	0.00	0.00	0.00	2.10	89.85	189.40	30.55	11.50	19.00	12.55	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	15.06	151.64	727.25	1079.52	501.43	142.78	109.68	71.04	12.96	0.00	2811.37	MCM

Momentary Peak 1118.00 CMS. at 66.02 m. (MSL.) at 21.00 Hours , on Sep 15 , 2016

Runoff Yield 7.04 Liters/Second/Square KM. Momentary Peak Yield 88.320 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

Lat 18 - 45 - 32 N Long 99 - 58 - 33 E

Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

Ban Luang Nua **Amphoe** Ngao **Changwat** Lampang

Drainge Area	381 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+268.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10 meters from the top staff gage. **Elevation** +272.644 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1988 - 1995, 2001 to date
Rating Operation	
Period of Rating	1988 - 1995, 2001 to date
Rated by Flot	-
Rated by Current Meter	1988 - 1995, 2001 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

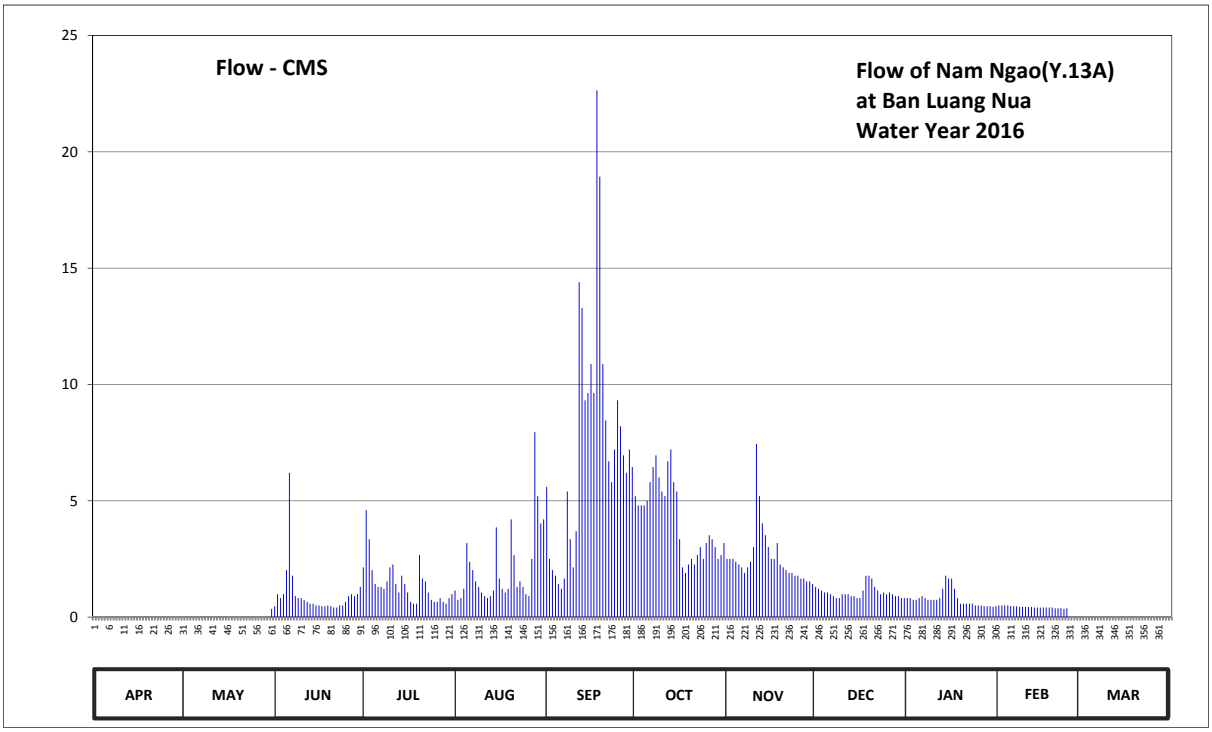
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.18	268.14	269.09	269.27	269.18	269.47	269.45	269.30	269.20	269.14	269.10	269.40	
2	268.18	268.14	269.16	269.42	269.13	269.30	269.43	269.30	269.19	269.14	269.10	269.39	
3	268.18	268.14	269.14	269.35	269.14	269.26	269.43	269.30	269.18	269.13	269.10	269.39	
4	268.18	268.14	269.16	269.26	269.19	269.24	269.43	269.29	269.17	269.13	269.10	269.39	
5	268.19	268.14	269.26	269.21	269.34	269.21	269.44	269.28	269.17	269.14	269.09	269.40	
6	268.19	268.14	269.50	269.20	269.29	269.19	269.48	269.27	269.16	269.15	269.09	269.40	
7	268.18	268.13	269.24	269.20	269.26	269.23	269.51	269.25	269.15	269.14	269.09	269.40	
8	268.19	268.13	269.15	269.19	269.22	269.46	269.53	269.27	269.14	269.13	269.08	269.40	
9	268.19	268.13	269.14	269.22	269.20	269.35	269.49	269.29	269.14	269.13	269.08	269.39	
10	268.18	268.13	269.14	269.27	269.17	269.27	269.46	269.33	269.16	269.13	269.08	269.39	
11	268.16	268.13	269.13	269.28	269.15	269.37	269.45	269.55	269.16	269.13	269.08	269.39	
12	268.16	268.13	269.12	269.21	269.14	269.77	269.52	269.45	269.16	269.14	269.08	269.40	
13	268.15	268.13	269.11	269.17	269.15	269.74	269.54	269.39	269.15	269.19	269.07	269.39	
14	268.15	268.13	269.11	269.24	269.18	269.62	269.48	269.36	269.15	269.24	269.07	269.39	
15	268.15	268.14	269.10	269.21	269.38	269.63	269.46	269.33	269.14	269.23	269.07	269.39	
16	268.15	268.14	269.10	269.17	269.23	269.67	269.35	269.30	269.14	269.23	269.07	269.40	
17	268.15	268.14	269.09	269.12	269.19	269.63	269.27	269.30	269.18	269.19	269.07	269.40	
18	268.14	268.14	269.09	269.11	269.17	269.94	269.25	269.34	269.24	269.14	269.07	269.39	
19	268.14	268.14	269.10	269.11	269.19	269.87	269.28	269.28	269.24	269.11	269.07	269.39	
20	268.14	268.14	269.09	269.31	269.40	269.67	269.30	269.27	269.23	269.11	269.06	269.36	
21	268.13	268.14	269.07	269.23	269.31	269.59	269.28	269.26	269.20	269.11	269.06	269.36	
22	268.13	268.14	269.07	269.22	269.20	269.52	269.31	269.25	269.18	269.11	269.06	269.35	
23	268.13	268.14	269.10	269.17	269.22	269.48	269.33	269.25	269.16	269.11	269.05	269.35	
24	268.13	268.15	269.10	269.13	269.20	269.54	269.30	269.24	269.17	269.10	269.06	269.35	
25	268.14	268.16	269.12	269.12	269.16	269.62	269.34	269.24	269.16	269.10	269.20	269.35	
26	268.14	268.16	269.15	269.12	269.15	269.58	269.36	269.23	269.17	269.10	269.29	269.34	
27	268.14	268.17	269.16	269.14	269.30	269.53	269.35	269.23	269.16	269.09	269.29	269.33	
28	268.14	268.17	269.15	269.12	269.57	269.50	269.33	269.22	269.15	269.09	269.35	269.33	
29	268.14	268.28	269.16	269.11	269.45	269.54	269.30	269.22	269.15	269.09		269.32	
30	268.14	268.54	269.20	269.14	269.39	269.51	269.31	269.21	269.14	269.08		269.33	
31		269.05		269.16	269.40		269.34		269.14	269.09		269.30	
Mean	268.16	268.19	269.14	269.20	269.25	269.51	269.39	269.29	269.17	269.13	269.11	269.37	
Max	268.19	269.05	269.50	269.42	269.57	269.94	269.54	269.55	269.24	269.24	269.35	269.40	269.94
Min	268.13	268.13	269.07	269.11	269.13	269.19	269.25	269.21	269.14	269.08	269.05	269.30	268.13

Annual Max Momentary Gage Height 270.35 m. (MSL.) , at 18.00 Hours , on Sep 18 , 2015

Zero Gage at Bottom Elevation 268.30 m. (MSL.) , River Bed 268.33 m. (MSL.)

Left Bank Elevation 275.30 m. (MSL.) ,

Right Bank Elevation 275.07 m. (MSL.) , Drainage Are 381 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.47	2.14	1.14	5.60	5.20	2.50	1.30	0.82	0.50	0.00	
2	0.00	0.00	0.98	4.60	0.74	2.50	4.80	2.50	1.22	0.82	0.50	0.00	
3	0.00	0.00	0.82	3.35	0.82	2.02	4.80	2.50	1.14	0.74	0.50	0.00	
4	0.00	0.00	0.98	2.02	1.22	1.78	4.80	2.38	1.06	0.74	0.50	0.00	
5	0.00	0.00	2.02	1.42	3.18	1.42	5.00	2.26	1.06	0.82	0.47	0.00	
6	0.00	0.00	6.20	1.30	2.38	1.22	5.80	2.14	0.98	0.90	0.47	0.00	
7	0.00	0.00	1.78	1.30	2.02	1.66	6.45	1.90	0.90	0.82	0.47	0.00	
8	0.00	0.00	0.90	1.22	1.54	5.40	6.95	2.14	0.82	0.74	0.44	0.00	
9	0.00	0.00	0.82	1.54	1.30	3.35	6.00	2.38	0.82	0.74	0.44	0.00	
10	0.00	0.00	0.82	2.14	1.06	2.14	5.40	3.01	0.98	0.74	0.44	0.00	
11	0.00	0.00	0.74	2.26	0.90	3.69	5.20	7.45	0.98	0.74	0.44	0.00	
12	0.00	0.00	0.66	1.42	0.82	14.39	6.70	5.20	0.98	0.82	0.44	0.00	
13	0.00	0.00	0.58	1.06	0.90	13.28	7.20	4.03	0.90	1.22	0.41	0.00	
14	0.00	0.00	0.58	1.78	1.14	9.32	5.80	3.52	0.90	1.78	0.41	0.00	
15	0.00	0.00	0.50	1.42	3.86	9.63	5.40	3.01	0.82	1.66	0.41	0.00	
16	0.00	0.00	0.50	1.06	1.66	10.87	3.35	2.50	0.82	1.66	0.41	0.00	
17	0.00	0.00	0.47	0.66	1.22	9.63	2.14	2.50	1.14	1.22	0.41	0.00	
18	0.00	0.00	0.47	0.58	1.06	22.64	1.90	3.18	1.78	0.82	0.41	0.00	
19	0.00	0.00	0.50	0.58	1.22	18.93	2.26	2.26	1.78	0.58	0.41	0.00	
20	0.00	0.00	0.47	2.67	4.20	10.87	2.50	2.14	1.66	0.58	0.38	0.00	
21	0.00	0.00	0.41	1.66	2.67	8.45	2.26	2.02	1.30	0.58	0.38	0.00	
22	0.00	0.00	0.41	1.54	1.30	6.70	2.67	1.90	1.14	0.58	0.38	0.00	
23	0.00	0.00	0.50	1.06	1.54	5.80	3.01	1.90	0.98	0.58	0.35	0.00	
24	0.00	0.00	0.50	0.74	1.30	7.20	2.50	1.78	1.06	0.50	0.38	0.00	
25	0.00	0.00	0.66	0.66	0.98	9.32	3.18	1.78	0.98	0.50	0.00	0.00	
26	0.00	0.00	0.90	0.66	0.90	8.20	3.52	1.66	1.06	0.50	0.00	0.00	
27	0.00	0.00	0.98	0.82	2.50	6.95	3.35	1.66	0.98	0.47	0.00	0.00	
28	0.00	0.00	0.90	0.66	7.95	6.20	3.01	1.54	0.90	0.47	0.00	0.00	
29	0.00	0.00	0.98	0.58	5.20	7.20	2.50	1.54	0.90	0.47		0.00	
30	0.00	0.00	1.30	0.82	4.03	6.45	2.67	1.42	0.82	0.44		0.00	
31		0.35		0.98	4.20		3.18		0.82	0.47		0.00	
Total	0.00	0.35	28.80	44.70	64.95	222.81	129.50	76.70	32.98	24.52	10.35	0.00	635.66 CMSDAY
Mean	0.00	0.01	0.96	1.44	2.10	7.43	4.18	2.56	1.06	0.79	0.37	0.00	1.74 CMS
Max	0.00	0.35	6.20	4.60	7.95	22.64	7.20	7.45	1.78	1.78	0.50	0.00	22.64 CMS
Min	0.00	0.00	0.41	0.58	0.74	1.22	1.90	1.42	0.82	0.44	0.00	0.00	0.00 CMS
Runoff	0.00	0.03	2.49	3.86	5.61	19.25	11.19	6.63	2.85	2.12	0.89	0.00	54.92 MCM

Momentary Peak 52.63 CMS. at 270.35 m. (MSL.) at 18.00 Hours , on Sep 18 , 2015

Runoff Yield 4.58 Liters/Second/Square KM. Momentary Peak Yield 138.500 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

Ban Don Rabiang **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	12,100 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+65.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of gage observer's house. **Elevation** +78.363 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1964 to date
Rating Operation	
Period of Rating	1964 to date
Rated by Flot	-
Rated by Current Meter	1964 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

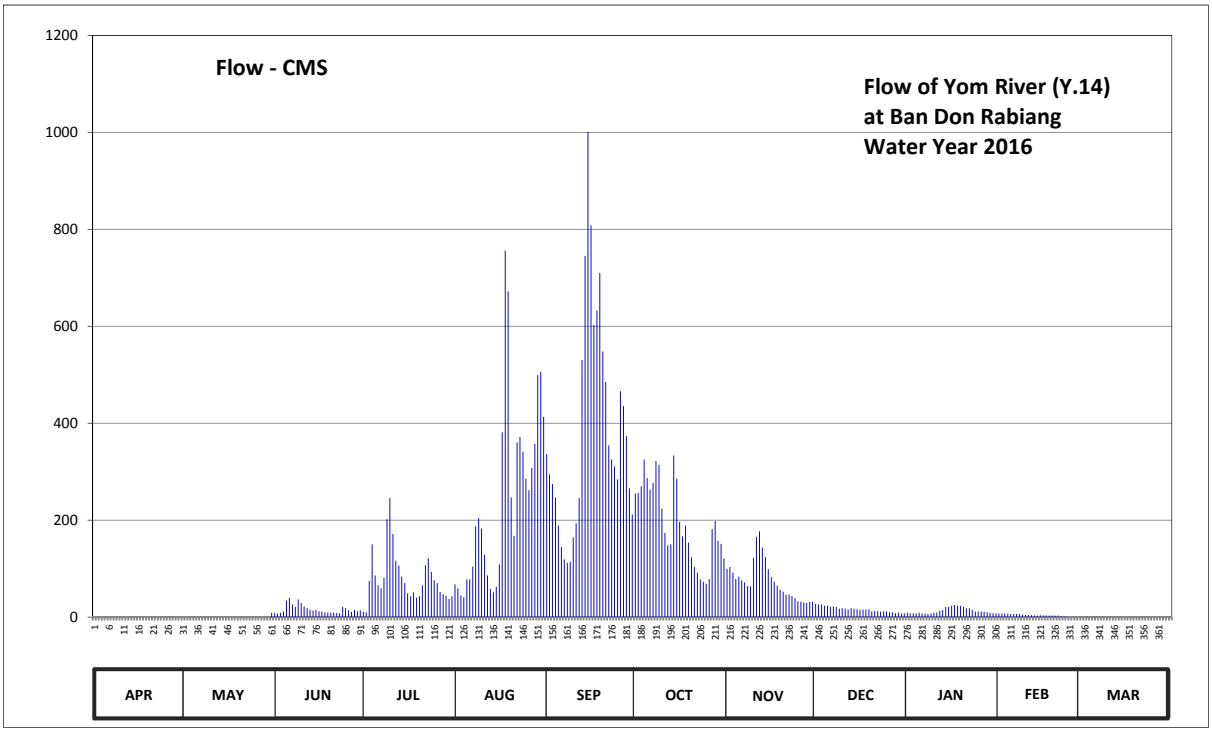
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.54	65.22	66.11	66.17	67.13	69.44	68.89	67.52	66.53	66.13	66.09	65.75	
2	65.53	65.22	66.09	66.15	67.02	69.17	68.90	67.56	66.50	66.10	66.09	65.70	
3	65.52	65.22	66.12	67.22	66.81	69.03	69.00	67.43	66.50	66.10	66.08	65.85	
4	65.50	65.21	66.20	68.02	66.75	68.83	69.37	67.27	66.45	66.10	66.06	65.77	
5	65.50	65.20	66.64	67.36	67.26	68.36	69.12	67.33	66.45	66.13	66.05	65.84	
6	65.49	65.20	66.73	67.10	67.26	67.97	68.95	67.23	66.41	66.08	66.05	65.83	
7	65.48	65.20	66.50	67.02	67.57	67.72	69.05	67.18	66.42	66.08	66.05	65.82	
8	65.48	65.20	66.40	67.30	68.35	67.65	69.35	67.08	66.40	66.05	66.05	65.82	
9	65.47	65.20	66.67	68.47	68.49	67.67	69.30	67.07	66.32	66.09	66.00	65.80	
10	65.47	65.20	66.55	68.82	68.31	68.15	68.65	67.75	66.34	66.12	65.98	65.79	
11	65.46	65.20	66.42	68.21	67.82	68.40	68.23	68.16	66.32	66.14	65.98	65.79	
12	65.44	65.15	66.35	67.69	67.36	68.82	68.00	68.26	66.29	66.23	65.97	65.79	
13	65.42	65.14	66.28	67.59	67.00	70.60	68.02	67.96	66.35	66.26	65.95	65.78	
14	65.42	65.13	66.24	67.33	66.90	71.73	69.42	67.77	66.32	66.40	65.94	65.77	
15	65.40	65.11	66.26	67.17	67.06	72.89	69.11	67.51	66.30	66.40	65.96	65.77	
16	65.38	65.10	66.20	66.87	67.62	72.03	68.42	67.32	66.27	66.45	65.95	65.77	
17	65.36	65.09	66.19	66.78	69.72	71.01	68.17	67.20	66.29	66.48	65.95	65.76	
18	65.36	65.09	66.15	66.90	71.78	71.17	68.36	67.09	66.29	66.45	65.94	65.69	
19	65.34	65.08	66.13	66.74	71.37	71.56	68.05	66.98	66.29	66.44	65.94	65.68	
20	65.33	65.08	66.12	66.78	68.83	70.70	67.76	66.92	66.20	66.40	65.94	65.67	
21	65.33	65.07	66.13	67.10	68.18	70.34	67.56	66.83	66.21	66.34	65.94	65.67	
22	65.32	65.07	66.11	67.60	69.59	69.55	67.43	66.83	66.20	66.34	65.89	65.67	
23	65.30	65.07	66.10	67.74	69.66	69.37	67.26	66.79	66.19	66.27	65.87	65.66	
24	65.29	65.07	66.40	67.45	69.47	69.28	67.20	66.72	66.20	66.19	65.77	65.60	
25	65.26	65.06	66.35	67.24	69.11	69.10	67.14	66.61	66.19	66.19	65.71	65.60	
26	65.24	65.06	66.25	67.16	68.94	70.23	67.27	66.60	66.15	66.19	65.75	65.59	
27	65.24	65.06	66.16	66.91	69.26	70.05	68.30	66.57	66.15	66.17	65.81	65.59	
28	65.23	65.06	66.26	66.84	69.57	69.67	68.44	66.55	66.10	66.15	65.77	65.58	
29	65.22	65.06	66.20	66.79	70.42	68.97	68.09	66.59	66.13	66.12		65.58	
30	65.22	65.06	66.25	66.69	70.46	68.55	68.03	66.59	66.10	66.10		65.57	
31		66.12		66.78	69.92		67.74		66.10	66.10		65.57	
Mean	65.38	65.16	66.29	67.23	68.55	69.60	68.34	67.18	66.29	66.22	65.95	65.71	
Max	65.54	66.12	66.73	68.82	71.78	72.89	69.42	68.26	66.53	66.48	66.09	65.85	72.89
Min	65.22	65.06	66.09	66.15	66.75	67.65	67.14	66.55	66.10	66.05	65.71	65.57	65.06

Annual Max Momentary Gage Height 73.05 m. (MSL.) , at 18.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 65.10 m. (MSL.) , River Bed 61.91 m. (MSL.)

Left Bank Elevation 76.44 m. (MSL.) ,

Right Bank Elevation 76.46 m. (MSL.) , Drainage Are 12,100 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	8.40	10.80	67.75	336.40	254.70	99.80	27.80	9.20	7.70	0.00		
2	0.00	0.00	7.70	10.00	59.50	294.50	256.00	103.40	26.00	8.00	7.70	0.00		
3	0.00	0.00	8.80	74.60	44.70	274.20	270.00	91.70	26.00	8.00	7.40	1.00		
4	0.00	0.00	12.00	150.20	41.00	246.90	325.20	78.60	23.50	8.00	6.80	0.00		
5	0.00	0.00	34.40	85.80	77.80	188.70	287.00	83.40	23.50	9.20	6.50	0.80		
6	0.00	0.00	39.80	65.50	77.80	144.70	263.00	75.40	21.50	7.40	6.50	0.60		
7	0.00	0.00	26.00	59.50	104.30	119.00	277.00	71.50	22.00	7.40	6.50	0.40		
8	0.00	0.00	21.00	81.00	187.50	112.00	322.00	64.00	21.00	6.50	6.50	0.40		
9	0.00	0.00	36.20	201.90	204.30	114.00	314.00	63.25	17.00	7.70	5.00	0.00		
10	0.00	0.00	29.00	245.60	182.70	164.50	223.75	122.00	18.00	8.80	4.40	0.00		
11	0.00	0.00	22.00	171.15	129.00	193.50	173.45	165.60	17.00	9.60	4.40	0.00		
12	0.00	0.00	18.50	116.00	85.80	245.60	148.00	176.90	15.60	13.20	4.10	0.00		
13	0.00	0.00	15.20	106.10	58.00	530.50	150.20	143.60	18.50	14.40	3.50	0.00		
14	0.00	0.00	13.60	83.40	51.00	745.30	333.20	124.00	17.00	21.00	3.20	0.00		
15	0.00	0.00	14.40	70.75	62.50	1000.70	285.50	98.90	16.00	21.00	3.80	0.00		
16	0.00	0.00	12.00	48.90	109.00	808.30	195.90	82.60	14.80	23.50	3.50	0.00		
17	0.00	0.00	11.60	42.80	381.20	602.80	166.70	73.00	15.60	25.00	3.50	0.00		
18	0.00	0.00	10.00	51.00	755.80	632.30	188.70	64.75	15.60	23.50	3.20	0.00		
19	0.00	0.00	9.20	40.40	672.00	710.00	153.50	56.60	15.60	23.00	3.20	0.00		
20	0.00	0.00	8.80	42.80	246.90	548.00	123.00	52.40	12.00	21.00	3.20	0.00		
21	0.00	0.00	9.20	65.50	167.80	485.00	103.40	46.10	12.40	18.00	3.20	0.00		
22	0.00	0.00	8.40	107.00	360.40	354.00	91.70	46.10	12.00	18.00	1.80	0.00		
23	0.00	0.00	8.00	121.00	371.60	325.20	77.80	43.40	11.60	14.80	1.40	0.00		
24	0.00	0.00	21.00	93.50	341.20	311.00	73.00	39.20	12.00	11.60	0.00	0.00		
25	0.00	0.00	18.50	76.20	285.50	284.00	68.50	32.60	11.60	11.60	0.00	0.00		
26	0.00	0.00	14.00	70.00	261.60	466.10	78.60	32.00	10.00	11.60	0.00	0.00		
27	0.00	0.00	10.40	51.70	308.00	435.50	181.50	30.20	10.00	10.80	0.20	0.00		
28	0.00	0.00	14.40	46.80	357.20	373.20	198.30	29.00	8.00	10.00	0.00	0.00		
29	0.00	0.00	12.00	43.40	499.00	265.80	157.90	31.40	9.20	8.80		0.00		
30	0.00	0.00	14.00	37.40	506.00	211.50	151.30	31.40	8.00	8.00		0.00		
31		8.80		42.80	413.40		121.00		8.00	8.00		0.00		
Total	0.00	8.80	488.50	2513.50	7470.25	11523.20	6013.80	2252.80	496.80	406.60	107.20	3.20	31284.65	CMSDAY
Mean	0.00	0.28	16.28	81.08	240.98	384.11	193.99	75.09	16.03	13.12	3.83	0.10	85.71	CMS
Max	0.00	8.80	39.80	245.60	755.80	1000.70	333.20	176.90	27.80	25.00	7.70	1.00	1000.70	CMS
Min	0.00	0.00	7.70	10.00	41.00	112.00	68.50	29.00	8.00	6.50	0.00	0.00	0.00	CMS
Runoff	0.00	0.76	42.21	217.17	645.43	995.60	519.59	194.64	42.92	35.13	9.26	0.28	2702.99	MCM

Momentary Peak 1038.25 CMS. at 73.05 m. (MSL.) at 18.00 Hours , on Sep 15 , 2016

Runoff Yield 7.07 Liters/Second/Square KM. Momentary Peak Yield 85.590 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

Ban Kong **Amphoe** Kong Krailat **Changwat** Sukhothai

Drainge Area	19,936 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+35.320 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +42.320 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2010 to date
Rating Operation	
Period of Rating	2010 to date
Rated by Flot	-
Rated by Current Meter	2010 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

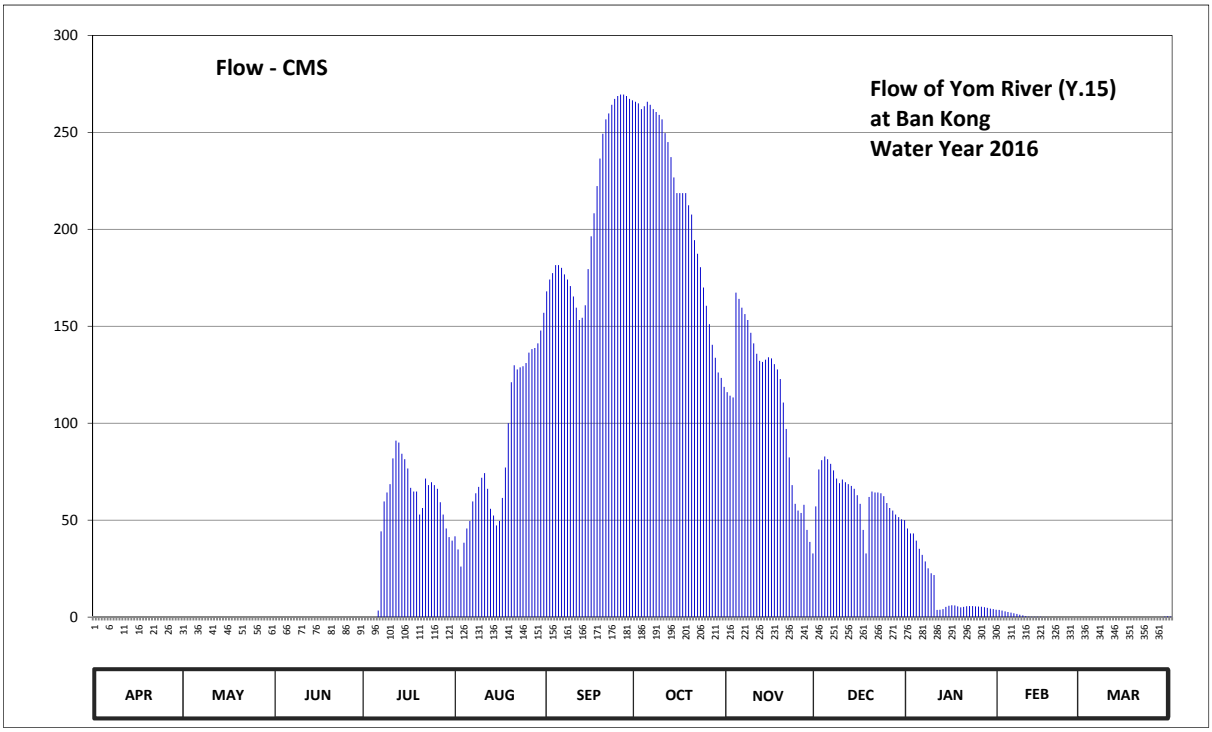
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.96	34.91	34.98	35.05	39.83	42.30	43.67	42.35	40.22	39.94	39.24	37.49	
2	34.96	34.91	34.98	35.06	39.64	42.39	43.66	42.33	40.63	39.87	39.17	37.39	
3	34.96	34.91	34.98	35.11	39.38	42.44	43.62	42.32	40.73	39.87	39.09	37.24	
4	34.96	34.91	34.98	35.20	39.74	42.50	43.64	42.29	40.77	39.77	39.02	37.08	
5	34.96	34.91	34.98	35.96	39.94	42.50	43.67	42.24	40.74	39.65	38.96	36.93	
6	34.96	34.91	34.98	38.41	40.04	42.48	43.65	42.17	40.69	39.56	38.90	36.82	
7	34.96	34.90	34.99	39.90	40.28	42.43	43.62	42.12	40.62	39.46	38.83	36.78	
8	34.96	34.90	34.98	40.28	40.37	42.39	43.60	42.07	40.53	39.35	38.75	36.74	
9	34.96	34.89	34.98	40.38	40.44	42.34	43.58	41.96	40.48	39.27	38.68	36.71	
10	34.96	34.88	34.98	40.47	40.54	42.26	43.55	41.87	40.52	39.24	38.59	36.64	
11	34.96	34.88	35.03	40.75	40.59	42.17	43.53	41.78	40.49	39.24	38.48	36.56	
12	34.96	34.87	35.03	40.94	40.42	42.07	43.50	41.72	40.47	39.25	38.40	36.46	
13	34.96	34.87	35.03	40.92	40.19	42.09	43.45	41.71	40.45	39.33	38.34	36.38	
14	34.96	34.86	35.03	40.80	40.11	42.19	43.38	41.73	40.42	39.50	38.32	36.27	
15	34.96	34.86	35.03	40.74	39.98	42.47	43.32	41.75	40.35	39.58	38.25	36.18	
16	34.96	34.88	35.03	40.64	40.04	42.72	43.32	41.74	40.25	39.61	38.16	36.07	
17	34.96	34.88	35.03	40.43	40.32	42.89	43.32	41.69	39.92	39.60	38.09	36.02	
18	34.96	34.89	35.03	40.39	40.65	43.09	43.32	41.64	39.58	39.54	37.99	36.00	
19	34.96	34.92	35.03	40.39	41.12	43.28	43.27	41.55	40.33	39.47	37.87	35.97	
20	34.95	34.95	35.03	40.12	41.52	43.45	43.23	41.33	40.39	39.50	37.74	35.96	
21	34.94	34.95	35.02	40.20	41.68	43.55	43.12	41.06	40.38	39.55	37.67	36.06	
22	34.94	34.95	35.02	40.53	41.64	43.59	43.06	40.76	40.38	39.56	37.62	36.09	
23	34.94	34.95	35.02	40.46	41.66	43.65	43.00	40.46	40.37	39.56	37.54	36.18	
24	34.94	34.95	35.02	40.49	41.67	43.69	42.90	40.25	40.34	39.54	37.50	36.54	
25	34.94	34.95	35.02	40.46	41.70	43.71	42.81	40.17	40.26	39.53	37.58	36.98	
26	34.93	34.95	35.02	40.42	41.79	43.72	42.72	40.14	40.20	39.51	37.64	37.48	
27	34.93	34.95	35.02	40.27	41.82	43.72	42.61	40.24	40.17	39.48	37.67	37.60	
28	34.93	34.96	35.02	40.12	41.83	43.71	42.54	39.92	40.12	39.44	37.60	38.06	
29	34.92	34.97	35.06	39.94	41.87	43.69	42.46	39.75	40.09	39.38		38.49	
30	34.91	34.98	35.02	39.82	41.98	43.68	42.43	39.58	40.06	39.32		38.55	
31		34.98		39.77	42.13		42.38		40.05	39.26		38.51	
Mean	34.95	34.92	35.01	39.50	40.80	42.91	43.22	41.36	40.35	39.51	38.27	36.85	
Max	34.96	34.98	35.06	40.94	42.13	43.72	43.67	42.35	40.77	39.94	39.24	38.55	43.72
Min	34.91	34.86	34.98	35.05	39.38	42.07	42.38	39.58	39.58	39.24	37.50	35.96	34.86

Annual Max Momentary Gage Height 43.72 m. (MSL.) , at 06.00 Hours , on Sep 26 , 2016

Zero Gage at Bottom Elevation 35.32 m. (MSL.) , River Bed 32.34 m. (MSL.)

Left Bank Elevation 44.97 m. (MSL.) ,

Right Bank Elevation 44.96 m. (MSL.) , Drainage Are 19,936 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	41.63	168.00	265.75	116.00	57.10	45.75	3.70	0.00		
2	0.00	0.00	0.00	0.00	34.90	174.08	265.00	114.20	76.17	43.13	3.35	0.00		
3	0.00	0.00	0.00	0.00	26.10	177.45	262.00	113.30	80.92	43.13	2.95	0.00		
4	0.00	0.00	0.00	0.00	38.40	181.50	263.50	167.35	82.82	39.45	2.60	0.00		
5	0.00	0.00	0.00	0.00	45.75	181.50	265.75	164.10	81.40	35.25	2.30	0.00		
6	0.00	0.00	0.00	3.38	49.60	180.15	264.25	159.55	79.02	32.10	2.00	0.00		
7	0.00	0.00	0.00	44.25	59.65	176.78	262.00	156.30	75.70	28.70	1.65	0.00		
8	0.00	0.00	0.00	59.65	63.83	174.08	260.50	153.20	71.42	25.13	1.25	0.00		
9	0.00	0.00	0.00	64.30	67.15	170.70	259.00	146.60	69.05	22.60	0.90	0.00		
10	0.00	0.00	0.00	68.58	71.90	165.40	256.75	141.20	70.95	21.70	0.48	0.00		
11	0.00	0.00	0.00	81.87	74.27	159.55	249.65	135.80	69.53	3.70	0.24	0.00		
12	0.00	0.00	0.00	91.00	66.20	153.20	245.00	132.20	68.58	3.75	0.20	0.00		
13	0.00	0.00	0.00	90.00	55.83	154.40	237.25	131.60	67.63	4.15	0.17	0.00		
14	0.00	0.00	0.00	84.25	52.43	160.85	226.80	132.80	66.20	5.25	0.16	0.00		
15	0.00	0.00	0.00	81.40	47.25	179.48	218.70	134.00	62.88	5.85	0.13	0.00		
16	0.00	0.00	0.00	76.65	49.60	196.40	218.70	133.40	58.38	6.10	0.08	0.00		
17	0.00	0.00	0.00	66.68	61.45	208.30	218.70	130.45	45.00	6.00	0.05	0.00		
18	0.00	0.00	0.00	64.78	77.12	222.30	218.70	127.70	32.80	5.55	0.00	0.00		
19	0.00	0.00	0.00	64.78	100.00	236.50	212.40	122.75	61.93	5.02	0.00	0.00		
20	0.00	0.00	0.00	52.85	121.10	249.25	207.60	110.65	64.78	5.25	0.00	0.00		
21	0.00	0.00	0.00	56.25	129.90	256.75	194.40	97.00	64.30	5.63	0.00	0.00		
22	0.00	0.00	0.00	71.42	127.70	259.75	187.40	82.35	64.30	5.70	0.00	0.00		
23	0.00	0.00	0.00	68.10	128.80	264.25	180.50	68.10	63.83	5.70	0.00	0.00		
24	0.00	0.00	0.00	69.53	129.35	267.25	170.00	58.38	62.40	5.55	0.00	0.00		
25	0.00	0.00	0.00	68.10	131.00	268.75	160.55	54.98	58.80	5.48	0.00	0.00		
26	0.00	0.00	0.00	66.20	136.40	269.50	151.10	53.70	56.25	5.33	0.00	0.00		
27	0.00	0.00	0.00	59.23	138.20	269.50	140.45	57.95	54.98	5.10	0.00	0.00		
28	0.00	0.00	0.00	52.85	138.80	268.75	133.80	45.00	52.85	4.80	0.00	0.03		
29	0.00	0.00	0.00	45.75	141.20	267.25	126.20	38.75	51.60	4.40		0.25		
30	0.00	0.00	0.00	41.25	147.80	266.50	123.35	32.80	50.40	4.10		0.38		
31		0.00		39.45	156.95		118.70		50.00	3.80		0.28		
Total	0.00	0.00	0.00	1632.55	2710.26	6328.12	6564.45	3312.16	1971.97	443.15	22.21	0.94	22985.81	CMSDAY
Mean	0.00	0.00	0.00	52.66	87.43	210.94	211.76	110.41	63.61	14.30	0.79	0.03	62.97	CMS
Max	0.00	0.00	0.00	91.00	156.95	269.50	265.75	167.35	82.82	45.75	3.70	0.38	269.50	CMS
Min	0.00	0.00	0.00	0.00	26.10	153.20	118.70	32.80	32.80	3.70	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	141.05	234.17	546.75	567.17	286.17	170.38	38.29	1.92	0.08	1985.97	MCM

Momentary Peak 269.50 CMS. at 43.72 m. (MSL.) at 06.00 Hours , on Sep 26 , 2016

Runoff Yield 3.16 Liters/Second/Square KM. Momentary Peak Yield 13.520 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Bang Rakam , Phitsanulok (Y.16)

Lat 16 - 45 - 26 N Long 100 - 07 - 15 E

Location : on right bank about 58 meters upstream from the old staff gage.

Ban Bang Rakam **Amphoe** Bang Rakam **Changwat** Phitsanulok

Drainge Area	20,201 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+31.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 13 meters from the top staff gage. **Elevation** +43.630 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 , 1995 to date
Rated by Flot	-
Rated by Current Meter	1967 , 1995 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +38.920 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2015.
Remark	The construction of the stations surveyed volume.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

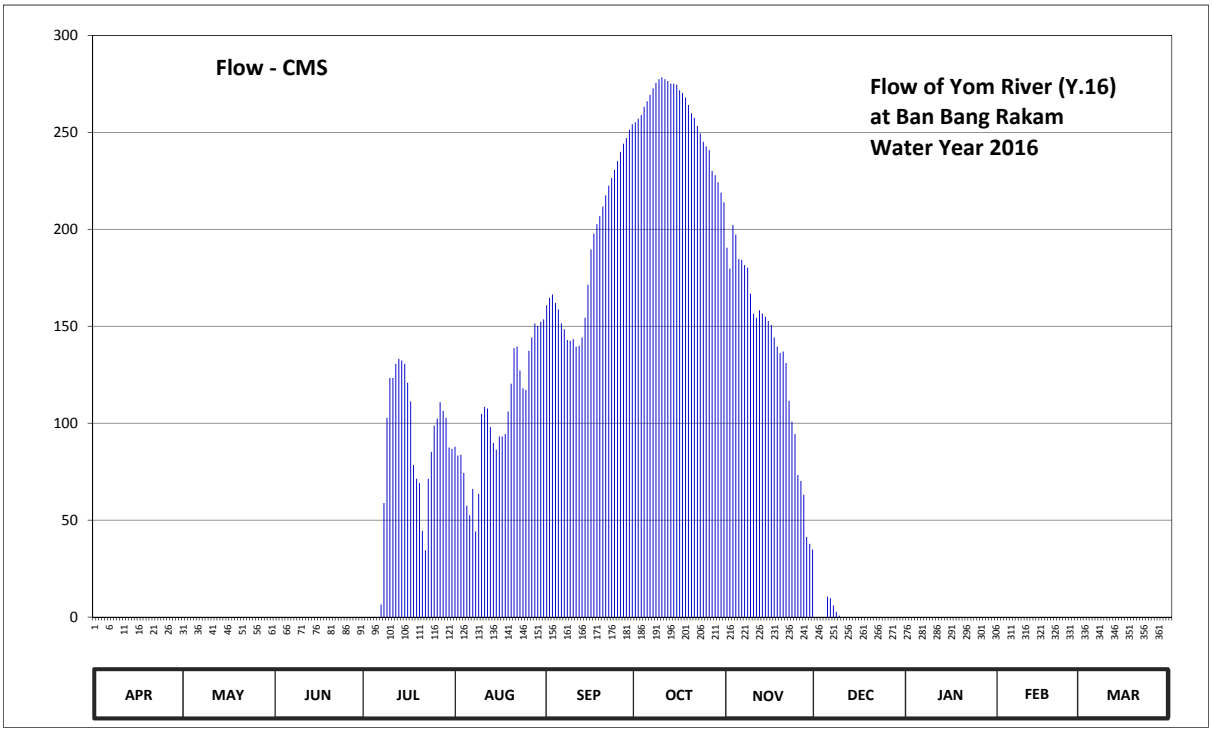
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.33	31.24	31.65	31.69	36.09	37.86	39.95	38.54	33.39	33.27	33.18	33.16	
2	31.28	31.24	31.65	31.71	35.97	37.95	39.99	38.30	33.31	33.27	33.18	33.15	
3	31.28	31.24	31.65	31.71	35.98	37.99	40.03	38.80	33.28	33.27	33.18	32.52	
4	31.28	31.24	31.65	31.71	35.73	37.89	40.12	38.69	33.35	33.27	33.18	32.48	
5	31.28	31.24	31.65	32.62	35.27	37.81	40.18	38.41	33.81	33.27	33.18	32.47	
6	31.28	31.24	31.65	33.31	35.13	37.64	40.25	38.40	33.78	33.27	33.19	32.44	
7	31.27	31.24	31.65	33.66	35.51	37.57	40.32	38.34	33.64	33.27	33.21	32.43	
8	31.27	31.24	31.65	35.31	34.89	37.44	40.38	38.31	33.51	33.27	33.21	32.42	
9	31.27	31.24	31.65	36.47	35.44	37.43	40.42	38.00	33.43	33.27	33.21	32.25	
10	31.25	31.24	31.65	36.98	36.52	37.45	40.44	37.76	33.37	33.27	33.27	32.23	
11	31.25	31.24	31.65	36.98	36.61	37.36	40.42	37.71	33.30	33.28	33.30	32.23	
12	31.25	31.24	31.65	37.15	36.59	37.37	40.40	37.80	33.30	33.31	33.29	32.22	
13	31.25	31.24	31.65	37.21	36.35	37.47	40.37	37.76	33.29	33.33	33.29	32.21	
14	31.24	31.24	31.65	37.19	36.14	37.71	40.37	37.72	33.28	33.28	33.28	32.21	
15	31.24	31.24	31.65	37.15	36.05	38.11	40.36	37.67	33.28	33.28	33.27	32.22	
16	31.24	31.24	31.65	36.92	36.23	38.52	40.30	37.62	33.28	33.29	33.27	32.22	
17	31.24	31.24	31.65	36.68	36.23	38.70	40.27	37.47	33.27	33.35	33.27	32.22	
18	31.24	31.24	31.65	35.84	36.26	38.81	40.22	37.36	33.27	33.35	33.24	32.20	
19	31.24	31.24	31.67	35.65	36.55	38.90	40.14	37.28	33.27	33.32	33.24	32.20	
20	31.24	31.26	31.68	35.59	36.91	39.01	40.05	37.30	33.29	33.29	33.24	32.13	
21	31.24	31.27	31.68	34.90	37.34	39.14	40.00	37.16	33.33	33.29	33.23	31.93	
22	31.24	31.27	31.68	34.60	37.36	39.25	39.91	36.69	33.33	33.28	33.17	31.93	
23	31.24	31.27	31.68	35.65	37.07	39.34	39.83	36.42	33.31	33.27	33.17	31.93	
24	31.24	31.27	31.68	36.02	36.85	39.43	39.74	36.26	33.32	33.27	33.17	31.97	
25	31.24	31.27	31.68	36.37	36.83	39.53	39.69	35.70	33.32	33.29	33.16	31.97	
26	31.24	31.27	31.68	36.46	37.31	39.63	39.65	35.62	33.30	33.27	33.16	31.96	
27	31.24	31.27	31.68	36.67	37.47	39.72	39.42	35.43	33.28	33.27	33.16	31.98	
28	31.24	31.27	31.68	36.56	37.64	39.78	39.37	34.81	33.27	33.27	33.15	32.00	
29	31.24	31.27	31.65	36.47	37.61	39.87	39.29	34.70	33.26	33.26		31.99	
30	31.24	31.27	31.67	36.08	37.66	39.93	39.17	34.61	33.26	33.24		31.98	
31		31.29		36.06	37.69		39.06		33.27	33.20		31.98	
Mean	31.25	31.25	31.66	35.40	36.49	38.49	40.00	37.22	33.35	33.28	33.22	32.23	
Max	31.33	31.29	31.68	37.21	37.69	39.93	40.44	38.80	33.81	33.35	33.30	33.16	40.44
Min	31.24	31.24	31.65	31.69	34.89	37.36	39.06	34.61	33.26	33.20	33.15	31.93	31.24

Annual Max Momentary Gage Height 40.44 m. (MSL.) , at 12.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 31.63 m. (MSL.) , River Bed 31.66 m. (MSL.)

Left Bank Elevation 38.91 m. (MSL.) ,

Right Bank Elevation 43.08 m. (MSL.) , Drainage Are 20,201 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	87.87	160.80	255.13	190.55	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	83.37	164.62	257.03	179.75	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	83.75	166.32	258.93	202.25	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	74.37	162.07	263.20	197.30	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	57.45	158.67	266.05	184.70	10.55	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	52.55	151.45	269.38	184.25	9.70	0.00	0.00	0.00		
7	0.00	0.00	0.00	6.50	66.12	148.47	272.70	181.55	6.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	58.85	44.15	142.95	275.55	180.20	2.75	0.00	0.00	0.00		
9	0.00	0.00	0.00	102.80	63.50	142.52	277.45	166.75	0.75	0.00	0.00	0.00		
10	0.00	0.00	0.00	123.40	104.80	143.37	278.40	156.55	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	123.40	108.40	139.55	277.45	154.42	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	130.62	107.60	139.97	276.50	158.25	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	133.17	98.00	144.22	275.08	156.55	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	132.32	89.75	154.42	275.08	154.85	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	130.62	86.37	171.42	274.60	152.72	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	120.85	93.20	189.65	271.75	150.60	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	111.20	93.20	197.75	270.33	144.22	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	78.50	94.40	202.70	267.95	139.55	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	71.37	106.00	206.75	264.15	136.15	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	69.12	120.42	211.70	259.88	137.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	44.50	138.70	217.55	257.50	131.05	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	34.50	139.55	222.50	253.23	111.60	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	71.37	127.22	226.55	249.43	100.80	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	85.25	118.00	230.60	245.15	94.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	98.80	117.20	235.18	242.78	73.25	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	102.40	137.42	239.93	240.88	70.25	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	110.80	144.22	244.20	230.15	63.12	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	106.40	151.45	247.05	227.90	41.35	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	102.80	150.17	251.33	224.30	37.75	0.00	0.00		0.00		
30	0.00	0.00	0.00	87.50	152.30	254.18	218.90	34.83	0.00	0.00		0.00		
31		0.00		86.75	153.57		213.95		0.00	0.00		0.00		
Total	0.00	0.00	0.00	2323.79	3245.07	5668.44	7990.76	4066.56	29.75	0.00	0.00	0.00	23324.37	CMSDAY
Mean	0.00	0.00	0.00	74.96	104.68	188.95	257.77	135.55	0.96	0.00	0.00	0.00	63.90	CMS
Max	0.00	0.00	0.00	133.17	153.57	254.18	278.40	202.25	10.55	0.00	0.00	0.00	278.40	CMS
Min	0.00	0.00	0.00	0.00	44.15	139.55	213.95	34.83	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	200.78	280.37	489.75	690.40	351.35	2.57	0.00	0.00	0.00	2015.23	MCM

Momentary Peak 278.40 CMS. at 40.44 m. (MSL.) at 12.00 Hours , on Oct 10 , 2016

Runoff Yield 3.07 Liters/Second/Square KM. Momentary Peak Yield 13.360 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 16 - 30 - 24 N Long 100 - 12 - 27 E

Location : on left bank at the bridge on highway from in front of Amphoe Sam Ngam office.

Ban Sam Ngam **Amphoe** Sam Ngam **Changwat** Phichit

Drainge Area	22,034 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+31.490 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 50 meters from Amphoe Sam Ngam Office. **Elevation** +41.843 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 , 1990 to date
Rated by Flot	-
Rated by Current Meter	1967 , 1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

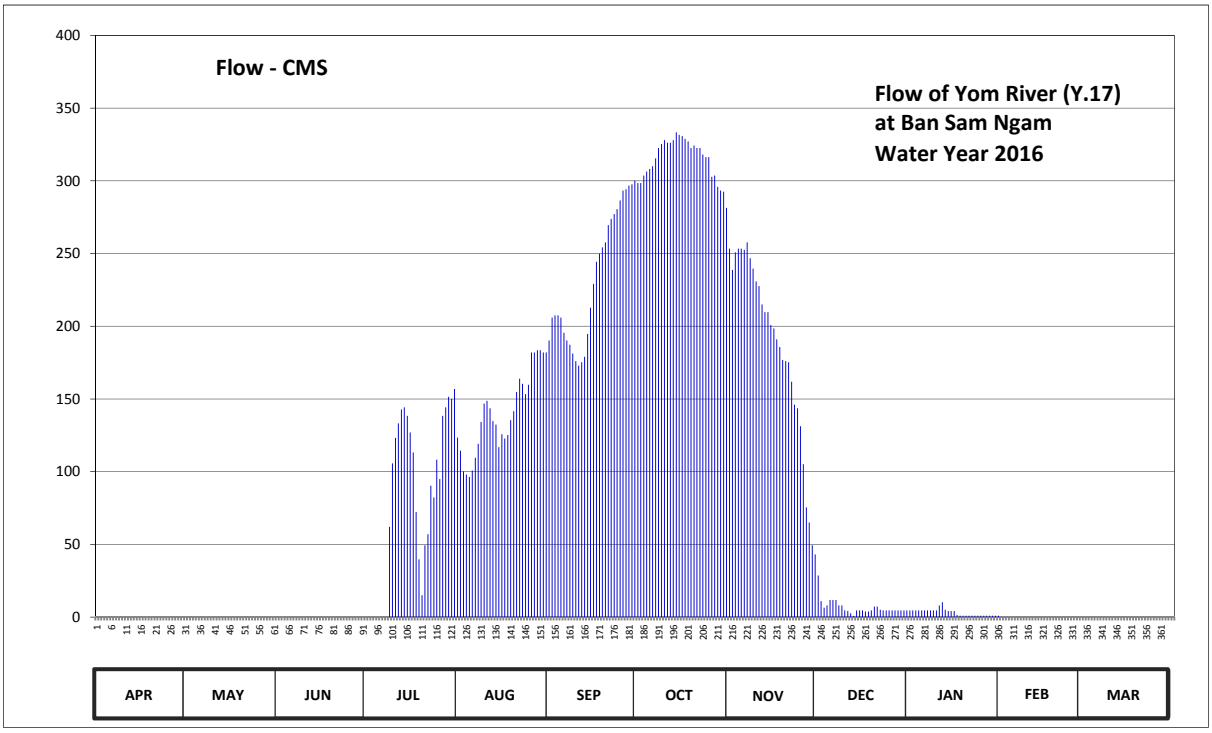
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.27	31.29	30.59	30.59	34.24	35.23	36.57	36.04	33.69	33.39	33.17	32.39	
2	31.27	31.29	30.59	30.59	34.09	35.44	36.57	35.86	33.48	33.39	32.96	32.39	
3	31.27	31.29	30.59	30.59	33.84	35.46	36.63	36.01	33.42	33.39	32.85	32.39	
4	31.27	31.29	30.59	30.59	33.80	35.46	36.66	36.04	33.44	33.39	32.84	32.39	
5	31.27	31.29	30.59	30.59	33.77	35.44	36.68	36.04	33.49	33.39	32.84	32.39	
6	31.27	31.29	30.59	30.59	33.85	35.30	36.70	36.03	33.49	33.39	32.84	32.39	
7	31.27	31.29	30.59	30.71	34.01	35.23	36.76	36.09	33.49	33.39	32.84	32.39	
8	31.27	31.29	30.59	31.99	34.17	35.19	36.84	35.96	33.44	33.39	32.84	32.39	
9	31.27	31.29	30.59	34.06	34.42	35.11	36.87	35.87	33.44	33.39	32.84	32.39	
10	31.27	31.29	30.59	34.45	34.62	35.04	36.90	35.76	33.39	33.39	32.84	32.39	
11	31.27	31.29	30.59	34.59	34.65	35.00	36.88	35.72	33.38	33.44	32.84	32.39	
12	31.27	31.29	30.59	34.67	34.57	35.03	36.88	35.56	33.34	33.47	32.84	32.39	
13	31.27	31.29	30.59	34.74	34.43	35.08	36.90	35.49	33.29	33.40	32.84	32.39	
14	31.27	31.29	30.59	34.75	34.39	35.29	36.96	35.49	33.39	33.38	32.84	32.39	
15	31.27	31.29	30.59	34.71	34.13	35.53	36.94	35.37	33.39	33.38	32.84	32.39	
16	31.27	31.29	30.59	34.62	34.28	35.74	36.93	35.34	33.39	33.38	32.84	32.39	
17	31.27	31.29	30.59	34.51	34.23	35.93	36.91	35.24	33.37	33.31	32.84	32.39	
18	31.27	31.29	30.59	34.16	34.27	36.00	36.89	35.17	33.37	33.30	32.84	32.39	
19	31.27	31.29	30.59	33.82	34.44	36.05	36.84	35.05	33.39	33.30	32.84	32.39	
20	31.27	31.29	30.59	33.53	34.54	36.09	36.86	35.04	33.43	33.30	32.84	32.39	
21	31.27	31.29	30.59	33.93	34.74	36.23	36.84	35.03	33.43	33.30	32.84	32.39	
22	31.27	31.29	30.59	34.01	34.87	36.28	36.84	34.84	33.40	33.30	32.84	32.39	
23	31.27	31.29	30.59	34.32	34.82	36.32	36.79	34.61	33.39	33.30	32.84	32.39	
24	31.27	31.29	30.59	34.25	34.72	36.36	36.77	34.57	33.39	33.30	32.84	32.39	
25	31.27	31.29	30.59	34.47	34.81	36.43	36.77	34.37	33.39	33.30	32.84	32.39	
26	31.27	31.29	30.59	34.36	35.12	36.51	36.62	33.93	33.39	33.30	32.84	32.39	
27	31.27	31.29	30.59	34.71	35.12	36.52	36.63	34.19	33.39	33.30	32.84	32.39	
28	31.27	31.29	30.59	34.75	35.14	36.55	36.54	34.09	33.39	33.30	32.84	32.39	
29	31.27	31.29	30.59	34.80	35.14	36.56	36.51	33.93	33.39	33.30		32.39	
30	31.27	31.29	30.59	34.79	35.12	36.59	36.50	33.86	33.39	33.30		32.39	
31		31.29		34.77	35.12		36.37		33.39	33.30		32.39	
Mean	31.27	31.29	30.59	33.48	34.50	35.77	36.75	35.22	33.41	33.35	32.86	32.39	
Max	31.27	31.29	30.59	34.80	35.14	36.59	36.96	36.09	33.69	33.47	33.17	32.39	36.96
Min	31.27	31.29	30.59	30.59	33.77	35.00	36.37	33.86	33.29	33.30	32.84	32.39	30.59

Annual Max Momentary Gage Height 36.97 m. (MSL.) , at 09.00 Hours , on Oct 14 , 2016

Zero Gage at Bottom Elevation 31.49 m. (MSL.) , River Bed 29.83 m. (MSL.)

Left Bank Elevation 41.69 m. (MSL.) ,

Right Bank Elevation 41.68 m. (MSL.) , Drainage Are 22,034 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	123.40	190.25	298.45	253.40	28.65	4.60	0.00	0.00		
2	0.00	0.00	0.00	0.00	114.40	206.00	298.45	238.80	11.00	4.60	0.00	0.00		
3	0.00	0.00	0.00	0.00	100.20	207.50	303.70	250.85	6.50	4.60	0.00	0.00		
4	0.00	0.00	0.00	0.00	98.00	207.50	306.40	253.40	8.00	4.60	0.00	0.00		
5	0.00	0.00	0.00	0.00	96.35	206.00	308.20	253.40	11.75	4.60	0.00	0.00		
6	0.00	0.00	0.00	0.00	100.75	195.50	310.00	252.55	11.75	4.60	0.00	0.00		
7	0.00	0.00	0.00	0.00	109.60	190.25	315.40	257.65	11.75	4.60	0.00	0.00		
8	0.00	0.00	0.00	0.00	119.20	187.25	322.60	246.80	8.00	4.60	0.00	0.00		
9	0.00	0.00	0.00	62.00	134.20	181.25	325.30	239.60	8.00	4.60	0.00	0.00		
10	0.00	0.00	0.00	105.75	146.80	176.00	328.00	230.80	4.60	4.60	0.00	0.00		
11	0.00	0.00	0.00	123.25	148.75	173.00	326.20	227.60	4.20	8.00	0.00	0.00		
12	0.00	0.00	0.00	133.25	143.55	175.25	326.20	215.00	2.60	10.25	0.00	0.00		
13	0.00	0.00	0.00	142.80	134.80	179.00	328.00	209.75	0.90	5.00	0.00	0.00		
14	0.00	0.00	0.00	144.25	132.40	194.75	333.40	209.75	4.60	4.20	0.00	0.00		
15	0.00	0.00	0.00	138.45	116.80	212.75	331.60	200.75	4.60	4.20	0.00	0.00		
16	0.00	0.00	0.00	127.00	125.80	229.20	330.70	198.50	4.60	4.20	0.00	0.00		
17	0.00	0.00	0.00	113.25	122.80	244.40	328.90	191.00	3.80	1.40	0.00	0.00		
18	0.00	0.00	0.00	72.30	125.20	250.00	327.10	185.75	3.80	1.00	0.00	0.00		
19	0.00	0.00	0.00	39.70	135.40	254.25	322.60	176.75	4.60	1.00	0.00	0.00		
20	0.00	0.00	0.00	15.05	141.60	257.65	324.40	176.00	7.25	1.00	0.00	0.00		
21	0.00	0.00	0.00	49.35	154.80	269.55	322.60	175.25	7.25	1.00	0.00	0.00		
22	0.00	0.00	0.00	57.00	163.90	273.80	322.60	161.80	5.00	1.00	0.00	0.00		
23	0.00	0.00	0.00	90.30	160.40	277.20	318.10	146.15	4.60	1.00	0.00	0.00		
24	0.00	0.00	0.00	82.25	153.40	280.60	316.30	143.55	4.60	1.00	0.00	0.00		
25	0.00	0.00	0.00	108.25	159.70	286.55	316.30	131.20	4.60	1.00	0.00	0.00		
26	0.00	0.00	0.00	94.90	182.00	293.35	302.80	105.15	4.60	1.00	0.00	0.00		
27	0.00	0.00	0.00	138.45	182.00	294.20	303.70	75.45	4.60	1.00	0.00	0.00		
28	0.00	0.00	0.00	144.25	183.50	296.75	295.90	65.00	4.60	1.00	0.00	0.00		
29	0.00	0.00	0.00	151.50	183.50	297.60	293.35	49.35	4.60	1.00		0.00		
30	0.00	0.00	0.00	150.05	182.00	300.15	292.50	43.10	4.60	1.00		0.00		
31		0.00		156.90	182.00		281.45		4.60	1.00		0.00		
Total	0.00	0.00	0.00	2440.25	4357.20	6987.50	9761.20	5564.10	204.60	97.25	0.00	0.00	29412.10	CMSDAY
Mean	0.00	0.00	0.00	78.72	140.55	232.92	314.88	185.47	6.60	3.14	0.00	0.00	80.58	CMS
Max	0.00	0.00	0.00	156.90	183.50	300.15	333.40	257.65	28.65	10.25	0.00	0.00	333.40	CMS
Min	0.00	0.00	0.00	0.00	96.35	173.00	281.45	43.10	0.90	1.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	210.84	376.46	603.72	843.37	480.74	17.68	8.40	0.00	0.00	2541.21	MCM

Momentary Peak 334.30 CMS. at 36.97 m. (MSL.) at 09.00 Hours , on Oct 14 , 2016

Runoff Yield 3.66 Liters/Second/Square KM. Momentary Peak Yield 15.170 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	Ban Huai Sak	**Amphoe** Song	**Changwat** Phrae
Drainge Area	5,394 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+181.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +193.552 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1972 to date		
Rated by Flot	-		
Rated by Current Meter	1972 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Mae yom weir situated about 15 kilometers above site.		
	Stage-discharge relation defined by 35 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

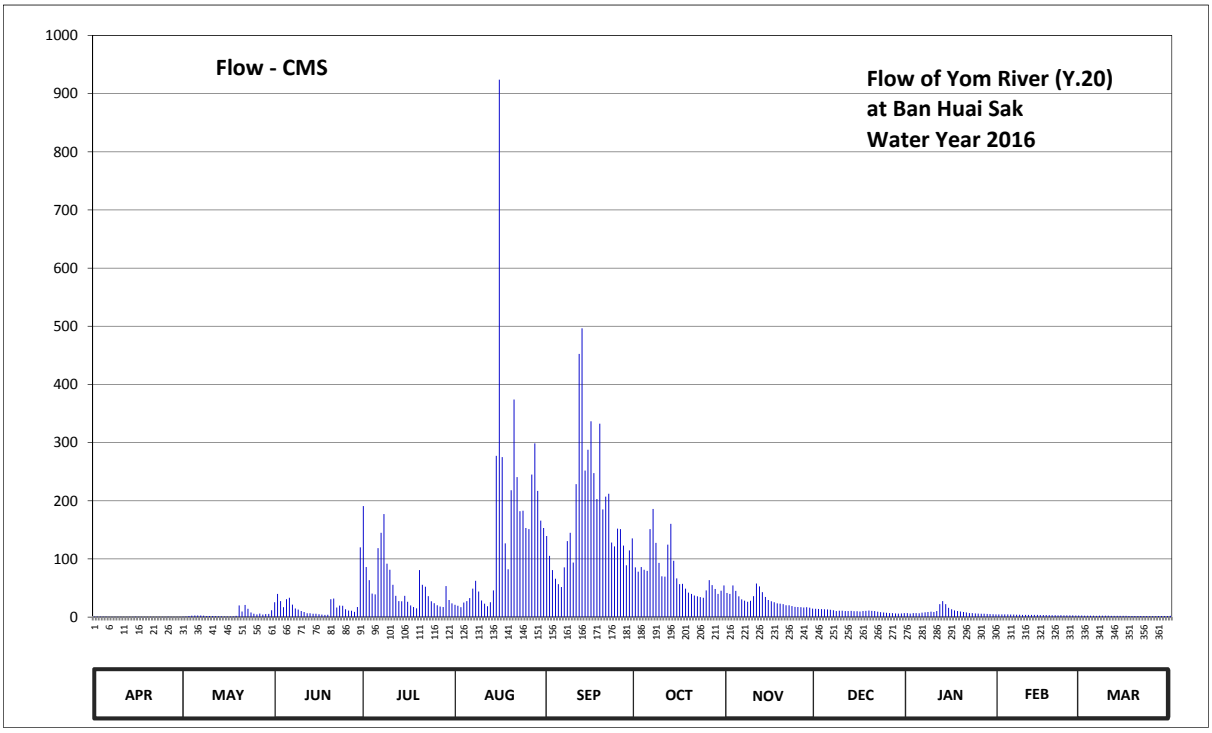
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.46	181.45	182.50	184.89	182.39	184.33	183.60	182.85	182.19	181.91	181.82	181.66	
2	181.47	181.52	182.82	183.61	182.34	183.88	183.49	182.82	182.18	181.88	181.81	181.65	
3	181.47	181.58	182.55	183.26	182.27	183.53	183.61	183.10	182.17	181.91	181.81	181.65	
4	181.46	181.65	182.27	182.83	182.49	183.30	183.54	182.92	182.16	181.91	181.81	181.65	
5	181.45	181.68	182.63	182.80	182.55	183.14	183.51	182.73	182.15	181.90	181.80	181.64	
6	181.43	181.68	182.68	184.06	182.67	183.05	184.47	182.62	182.13	181.95	181.80	181.63	
7	181.43	181.66	182.40	184.40	183.00	183.60	184.84	182.57	182.10	181.97	181.79	181.64	
8	181.43	181.64	182.21	184.75	183.24	184.22	184.18	182.52	182.05	182.00	181.78	181.64	
9	181.42	181.60	182.14	183.69	182.90	184.40	183.71	182.56	182.07	182.02	181.77	181.64	
10	181.42	181.59	182.05	183.54	182.58	183.72	183.37	182.74	182.07	181.99	181.76	181.64	
11	181.42	181.58	181.99	183.12	182.44	185.26	183.36	183.16	182.05	182.05	181.76	181.63	
12	181.42	181.56	181.90	182.75	182.32	186.97	184.14	183.07	182.05	182.42	181.76	181.63	
13	181.42	181.54	181.90	182.55	182.50	187.24	184.57	182.88	182.06	182.55	181.76	181.63	
14	181.44	181.53	181.87	182.54	182.94	185.47	183.76	182.71	182.04	182.42	181.76	181.62	
15	181.45	181.50	181.86	182.75	185.69	185.78	183.31	182.60	182.04	182.24	181.75	181.62	
16	181.44	181.52	181.83	182.52	189.52	186.16	183.14	182.54	182.03	182.16	181.75	181.61	
17	181.44	181.52	181.80	182.36	185.67	185.43	183.15	182.50	182.05	182.09	181.74	181.60	
18	181.43	181.53	181.77	182.28	184.17	185.01	183.00	182.45	182.06	182.05	181.73	181.59	
19	181.43	181.62	181.78	182.22	183.55	186.13	182.86	182.44	182.08	182.03	181.72	181.59	
20	181.44	182.36	182.63	183.53	185.16	184.83	182.82	182.42	182.06	182.00	181.72	181.59	
21	181.43	182.03	182.65	183.12	186.43	185.05	182.76	182.37	182.05	181.96	181.71	181.58	
22	181.43	182.38	182.26	183.06	185.37	185.10	182.73	182.37	182.02	181.92	181.72	181.58	
23	181.42	182.19	182.35	182.74	184.80	184.19	182.70	182.33	181.98	181.91	181.71	181.58	
24	181.42	181.96	182.34	182.54	184.81	184.10	182.68	182.29	181.96	181.89	181.71	181.57	
25	181.43	181.87	182.16	182.46	184.49	184.48	182.94	182.28	181.94	181.88	181.70	181.56	
26	181.45	181.82	182.08	182.37	184.47	184.47	183.26	182.27	181.92	181.87	181.69	181.56	
27	181.44	181.88	182.07	182.30	185.41	184.12	183.11	182.26	181.91	181.86	181.67	181.60	
28	181.43	181.80	182.01	182.28	185.87	183.65	182.99	182.27	181.89	181.85	181.67	181.60	
29	181.44	181.84	182.28	183.08	185.15	184.01	182.82	182.25	181.88	181.84		181.59	
30	181.44	181.85	184.08	182.60	184.63	184.28	182.93	182.20	181.89	181.83		181.60	
31		182.10		182.45	184.49		183.10		181.91	181.82		181.61	
Mean	181.44	181.74	182.26	183.01	184.07	184.63	183.37	182.57	182.04	182.00	181.75	181.61	
Max	181.47	182.38	184.08	184.89	189.52	187.24	184.84	183.16	182.19	182.55	181.82	181.66	189.52
Min	181.42	181.45	181.77	182.22	182.27	183.05	182.68	182.20	181.88	181.82	181.67	181.56	181.42

Annual Max Momentary Gage Height 190.69 m. (MSL.) , at 06.00 Hours , on Aug 16, 2016

Zero Gage at Bottom Elevation 181.00 m. (MSL.) , River Bed 179.63 m. (MSL.)

Left Bank Elevation 193.51 m. (MSL.) ,

Right Bank Elevation 193.64 m. (MSL.) , Drainage Are 5,394 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.70	25.50	191.00	21.15	139.40	85.50	41.50	14.22	6.74	4.74	2.60	
2	0.82	1.20	40.00	86.20	19.40	105.30	78.08	40.00	13.94	6.06	4.52	2.50	
3	0.82	1.80	27.50	63.60	16.95	80.77	86.20	54.50	13.66	6.74	4.52	2.50	
4	0.76	2.50	16.95	40.50	25.10	66.00	81.45	45.00	13.38	6.74	4.52	2.50	
5	0.70	2.80	30.92	39.00	27.50	56.70	79.42	35.67	13.10	6.50	4.30	2.40	
6	0.58	2.80	33.30	118.50	32.82	51.75	151.30	30.45	12.54	7.70	4.30	2.30	
7	0.58	2.60	21.50	145.00	49.00	85.50	186.00	28.30	11.70	8.18	4.17	2.40	
8	0.58	2.40	14.85	177.25	62.40	130.60	127.50	26.30	10.30	8.90	4.04	2.40	
9	0.52	2.00	12.82	91.80	44.00	145.00	93.20	27.90	10.86	9.46	3.91	2.40	
10	0.52	1.90	10.30	81.45	28.70	93.90	70.20	36.15	10.86	8.66	3.78	2.40	
11	0.52	1.80	8.66	55.60	23.10	228.60	69.60	57.80	10.30	10.30	3.78	2.30	
12	0.52	1.60	6.50	36.62	18.70	452.35	124.50	52.85	10.30	22.30	3.78	2.30	
13	0.52	1.40	6.50	27.50	25.50	496.60	160.30	43.00	10.58	27.50	3.78	2.30	
14	0.64	1.30	5.84	27.10	46.00	252.05	96.70	34.72	10.02	22.30	3.78	2.20	
15	0.70	1.00	5.62	36.62	277.35	287.70	66.60	29.50	10.02	15.90	3.65	2.20	
16	0.64	1.20	4.96	26.30	924.00	336.60	56.70	27.10	9.74	13.38	3.65	2.10	
17	0.64	1.20	4.30	20.10	275.05	247.45	57.25	25.50	10.30	11.42	3.52	2.00	
18	0.58	1.30	3.91	17.30	126.75	203.00	49.00	23.50	10.58	10.30	3.39	1.90	
19	0.58	2.20	4.04	15.20	82.12	332.55	42.00	23.10	11.14	9.74	3.26	1.90	
20	0.64	20.10	30.92	80.77	218.00	185.00	40.00	22.30	10.58	8.90	3.26	1.90	
21	0.58	9.74	31.87	55.60	374.20	207.00	37.10	20.45	10.30	7.94	3.13	1.80	
22	0.58	20.80	16.60	52.30	240.70	212.00	35.67	20.45	9.46	6.98	3.26	1.80	
23	0.52	14.22	19.75	36.15	182.00	128.25	34.25	19.05	8.42	6.74	3.13	1.80	
24	0.52	7.94	19.40	27.10	183.00	121.50	33.30	17.65	7.94	6.28	3.13	1.70	
25	0.58	5.84	13.38	23.90	153.10	152.20	46.00	17.30	7.46	6.06	3.00	1.60	
26	0.70	4.74	11.14	20.45	151.30	151.30	63.60	16.95	6.98	5.84	2.90	1.60	
27	0.64	6.06	10.86	18.00	245.15	123.00	55.05	16.60	6.74	5.62	2.70	2.00	
28	0.58	4.30	9.18	17.30	298.75	89.00	48.50	16.95	6.28	5.40	2.70	2.00	
29	0.64	5.18	17.30	53.40	217.00	114.75	40.00	16.25	6.06	5.18		1.90	
30	0.64	5.40	120.00	29.50	165.85	135.40	45.50	14.50	6.28	4.96		2.00	
31		11.70		23.50	153.10		54.50		6.74	4.74		2.10	
Total	18.60	149.72	584.37	1734.61	4707.74	5411.22	2294.97	881.29	310.78	293.46	102.60	65.80	16555.16 CMSDAY
Mean	0.62	4.83	19.48	55.96	151.86	180.37	74.03	29.38	10.03	9.47	3.66	2.12	45.36 CMS
Max	0.82	20.80	120.00	191.00	924.00	496.60	186.00	57.80	14.22	27.50	4.74	2.60	924.00 CMS
Min	0.52	0.70	3.91	15.20	16.95	51.75	33.30	14.50	6.06	4.74	2.70	1.60	0.52 CMS
Runoff	1.61	12.94	50.49	149.87	406.75	467.53	198.29	76.14	26.85	25.35	8.86	5.69	1430.37 MCM

Momentary Peak 1177.80 CMS. at 190.69 m. (MSL.) at 06.00 Hours , on Aug 16 , 2016

Runoff Yield 8.41 Liters/Second/Square KM. Momentary Peak Yield 218.350 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Na Pla Kang , Sukhothai (Y.21)

Lat 17 - 47 - 31 N Long 99 - 47 - 27 E

Location : on right bank at Ban Na Pla Kang.

Ban Na Pla Kang **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	310 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+114.456 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +121.709 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2007 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Flot	-
Rated by Current Meter	2007 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

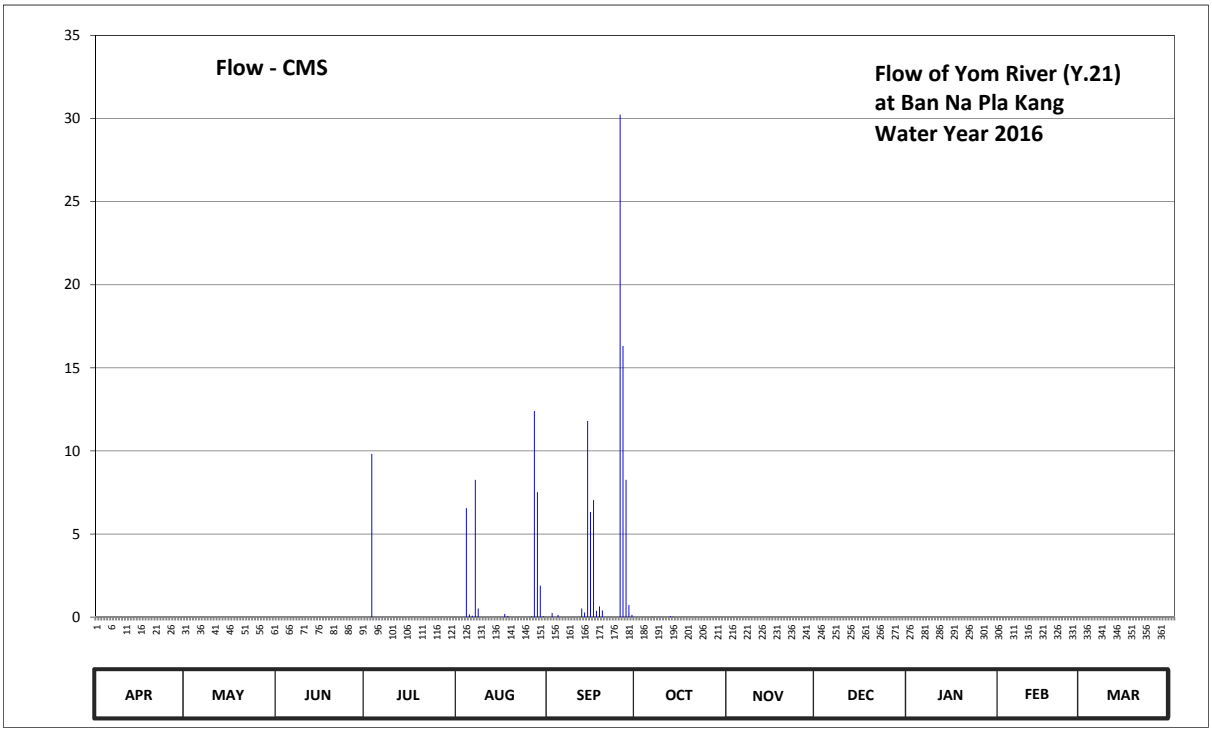
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.68	114.74	114.75	115.26	115.03	115.22	115.16	114.95	114.81	114.75	114.73	114.70	
2	114.68	114.74	114.75	115.09	114.94	115.45	115.16	114.91	114.81	114.75	114.73	114.70	
3	114.68	114.74	114.75	116.17	114.94	115.23	115.16	114.90	114.81	114.75	114.73	114.70	
4	114.68	114.74	114.75	115.25	116.04	115.41	115.16	114.88	114.80	114.75	114.73	114.71	
5	114.68	114.74	114.75	115.08	115.42	115.21	115.16	114.88	114.80	114.74	114.73	114.71	
6	114.68	114.74	115.17	115.23	115.39	115.09	115.31	114.86	114.79	114.74	114.72	114.71	
7	114.68	114.74	114.90	115.23	116.11	115.10	115.25	114.86	114.78	114.74	114.72	114.71	
8	114.68	114.74	114.83	115.11	115.53	115.02	115.31	114.87	114.77	114.74	114.72	114.72	
9	114.68	114.74	114.80	115.07	115.21	114.99	115.14	114.86	114.77	114.74	114.72	114.72	
10	114.68	114.74	114.75	115.07	115.01	114.94	115.06	114.88	114.77	114.76	114.72	114.73	
11	114.69	114.74	114.73	114.97	114.86	114.91	115.03	114.91	114.77	114.77	114.72	114.73	
12	114.69	114.74	114.73	114.91	114.85	115.53	115.36	114.92	114.76	114.78	114.72	114.74	
13	114.69	114.74	114.73	115.06	114.85	115.46	115.33	115.04	114.76	114.79	114.71	114.74	
14	114.69	114.74	114.73	115.11	114.96	116.24	115.12	115.00	114.76	114.79	114.71	114.74	
15	114.69	114.74	114.73	114.98	114.93	116.03	115.04	114.96	114.76	114.78	114.71	114.74	
16	114.69	114.74	114.73	114.94	115.02	116.06	115.00	114.93	114.76	114.78	114.71	114.74	
17	114.69	114.74	114.73	114.90	115.43	115.49	114.98	114.91	114.76	114.77	114.71	114.74	
18	114.69	114.74	114.73	114.87	115.37	115.56	114.96	114.90	114.76	114.77	114.72	114.74	
19	114.69	114.74	114.73	114.86	115.01	115.50	114.94	114.88	114.76	114.76	114.70	114.74	
20	114.69	114.74	114.73	114.87	114.96	115.25	114.91	114.86	114.76	114.76	114.70	114.74	
21	114.70	114.74	114.76	114.90	114.92	115.11	114.90	114.85	114.76	114.75	114.70	114.74	
22	114.70	114.74	114.76	115.06	114.89	115.05	114.89	114.84	114.76	114.75	114.70	114.74	
23	114.70	114.74	114.76	114.97	114.87	114.99	114.87	114.84	114.75	114.75	114.70	114.74	
24	114.70	114.74	114.76	114.94	114.87	114.98	114.86	114.84	114.75	114.74	114.70	114.74	
25	114.70	114.74	114.76	114.92	114.92	116.72	114.87	114.83	114.75	114.74	114.70	114.74	
26	114.70	114.74	114.76	114.92	115.34	116.38	114.97	114.82	114.75	114.73	114.69	114.74	
27	114.70	114.74	114.76	114.92	116.26	116.11	115.10	114.82	114.75	114.73	114.69	114.74	
28	114.70	114.74	114.76	114.87	116.08	115.58	115.22	114.81	114.74	114.73	114.69	114.74	
29	114.70	114.74	114.76	115.24	115.75	115.41	115.04	114.81	114.74	114.73		114.74	
30	114.70	114.74	114.76	115.01	115.35	115.29	115.20	114.81	114.74	114.73		114.74	
31		114.74		115.31	115.24		115.00		114.74	114.73		114.74	
Mean	114.69	114.74	114.77	115.07	115.24	115.44	115.08	114.88	114.77	114.75	114.71	114.73	
Max	114.70	114.74	115.17	116.17	116.26	116.72	115.36	115.04	114.81	114.79	114.73	114.74	116.72
Min	114.68	114.74	114.73	114.86	114.85	114.91	114.86	114.81	114.74	114.73	114.69	114.70	114.68

Annual Max Momentary Gage Height 117.39 m. (MSL.) , at 18.00 Hours , on Sep 25 , 2017

Zero Gage at Bottom Elevation 114.46 m. (MSL.) , River Bed 113.77 m. (MSL.)

Left Bank Elevation 121.69 m. (MSL.) ,

Right Bank Elevation 121.71 m. (MSL.) , Drainage Are 310 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	0.25	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	6.56	0.13	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.52	0.00	0.01	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.52	0.06	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.28	0.03	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.19	0.37	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.07	0.64	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.40	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	30.24	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.04	16.32	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	12.40	8.26	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	7.52	0.72	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	1.90	0.13	0.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00		0.00		
31		0.00		0.01	0.00		0.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	9.83	37.76	83.42	0.11	0.00	0.00	0.00	0.00	0.00	131.12	CMSDAY
Mean	0.00	0.00	0.00	0.32	1.22	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.36	CMS
Max	0.00	0.00	0.00	9.82	12.40	30.24	0.06	0.00	0.00	0.00	0.00	0.00	30.24	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.85	3.26	7.21	0.01	0.00	0.00	0.00	0.00	0.00	11.33	MCM

Momentary Peak 77.52 CMS. at 117.39 m. (MSL.) at 18.00 Hours , on Sep 25 , 2016

Runoff Yield 1.17 Liters/Second/Square KM. Momentary Peak Yield 253.330 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Nam Pi at Ban Mang , Phayao (Y.24)

Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

Ban Mang **Amphoe** Chiang Muan **Changwat** Phayao

Drainge Area	590 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+257.765 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +264.800 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1977 to date
Rating Operation	
Period of Rating	1979 - 1986 , 1996 to date
Rated by Flot	-
Rated by Current Meter	1979 - 1986 , 1996 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

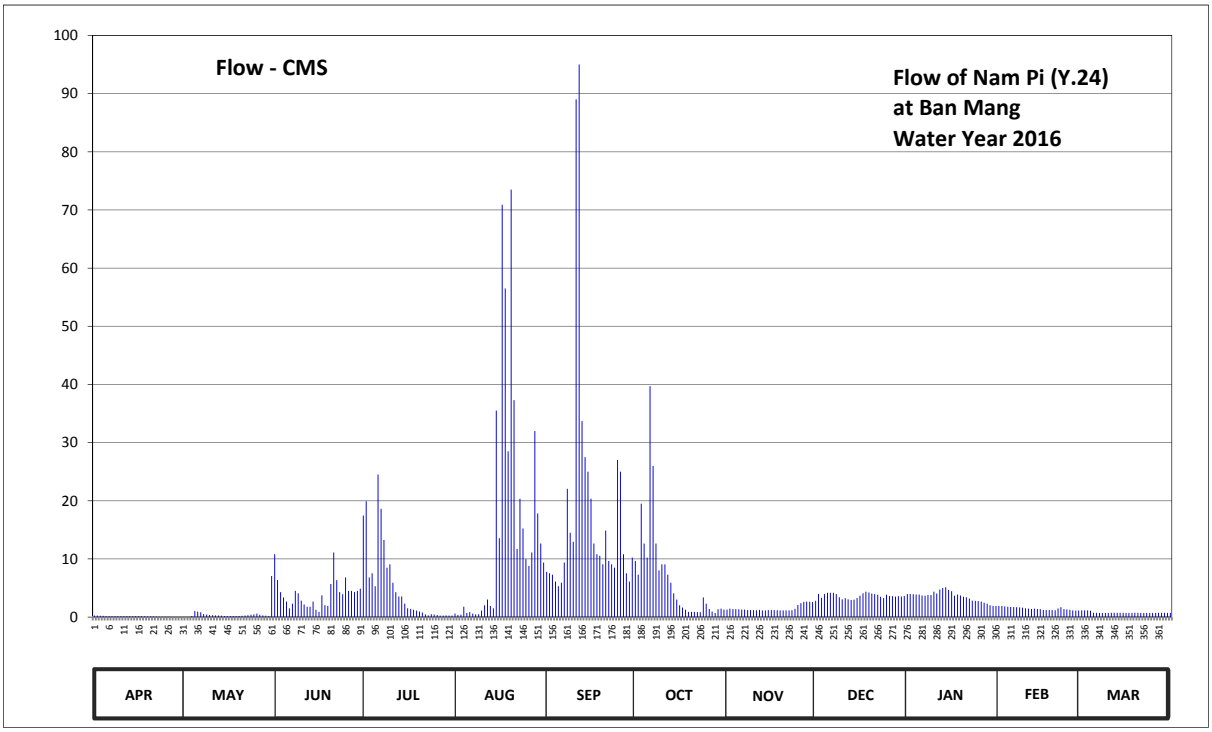
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.04	258.77	259.68	259.88	259.12	259.57	259.64	259.55	260.07	260.39	259.77	259.47	
2	259.03	258.77	259.51	259.94	259.04	259.56	259.55	259.62	260.40	260.39	259.77	259.47	
3	259.02	258.77	259.41	259.53	259.07	259.55	259.93	259.59	260.23	260.38	259.75	259.47	
4	259.01	258.98	259.36	259.56	259.26	259.50	259.74	259.58	260.39	260.37	259.73	259.45	
5	258.97	259.42	259.32	259.46	259.14	259.46	259.66	259.57	260.44	260.37	259.72	259.27	
6	258.97	259.36	259.24	260.04	259.17	259.49	260.32	259.55	260.44	260.33	259.71	259.27	
7	258.97	259.31	259.30	259.91	259.12	259.63	260.07	259.54	260.44	260.32	259.70	259.25	
8	258.97	259.16	259.42	259.76	259.08	259.99	259.74	259.51	260.39	260.35	259.69	259.26	
9	258.97	259.12	259.40	259.60	259.09	259.80	259.58	259.50	260.25	260.35	259.67	259.26	
10	258.97	259.08	259.33	259.62	259.21	259.75	259.62	259.50	260.15	260.48	259.64	259.26	
11	258.97	259.07	259.29	259.49	259.28	260.92	259.62	259.49	260.21	260.41	259.62	259.27	
12	258.97	259.05	259.26	259.41	259.34	260.98	259.55	259.52	260.15	260.56	259.60	259.27	
13	258.97	259.04	259.26	259.37	259.27	260.22	259.49	259.48	260.11	260.62	259.62	259.27	
14	258.97	259.02	259.32	259.37	259.24	260.10	259.40	259.48	260.13	260.65	259.60	259.27	
15	258.97	259.00	259.22	259.30	260.25	260.05	259.34	259.50	260.22	260.55	259.58	259.27	
16	258.97	258.99	259.18	259.24	259.77	259.95	259.28	259.51	260.32	260.50	259.52	259.26	
17	258.97	258.99	259.38	259.23	260.73	259.74	259.25	259.50	260.42	260.32	259.51	259.26	
18	258.94	258.99	259.28	259.22	260.56	259.68	259.22	259.49	260.48	260.37	259.50	259.26	
19	258.90	258.98	259.27	259.21	260.12	259.67	259.18	259.48	260.45	260.33	259.50	259.27	
20	258.94	258.98	259.48	259.19	260.76	259.62	259.18	259.48	260.41	260.27	259.49	259.27	
21	258.91	259.01	259.69	259.16	260.28	259.81	259.18	259.47	260.39	260.25	259.63	259.26	
22	258.86	259.04	259.51	259.08	259.71	259.64	259.17	259.48	260.36	260.20	259.70	259.26	
23	258.79	259.07	259.41	258.99	259.95	259.62	259.17	259.49	260.27	260.08	259.58	259.26	
24	258.78	259.10	259.39	259.10	259.82	259.60	259.36	259.61	260.22	260.07	259.56	259.26	
25	258.78	259.13	259.53	259.07	259.65	260.09	259.30	259.83	260.36	260.05	259.53	259.26	
26	258.78	259.20	259.42	259.03	259.61	260.05	259.23	259.93	260.31	260.02	259.48	259.26	
27	258.77	259.10	259.42	258.97	259.69	259.68	259.19	260.00	260.30	259.96	259.46	259.27	
28	258.77	259.05	259.41	258.98	260.19	259.56	259.26	260.02	260.28	259.90	259.46	259.27	
29	258.77	259.02	259.42	258.99	259.89	259.50	259.57	260.01	260.30	259.81		259.27	
30	258.77	258.99	259.44	258.97	259.74	259.66	259.62	260.00	260.29	259.77		259.26	
31		259.54		258.96	259.63		259.55		260.31	259.77		259.26	
Mean	258.92	259.07	259.38	259.34	259.64	259.81	259.48	259.61	260.31	260.26	259.61	259.29	
Max	259.04	259.54	259.69	260.04	260.76	260.98	260.32	260.02	260.48	260.65	259.77	259.47	260.98
Min	258.77	258.77	259.18	258.96	259.04	259.46	259.17	259.47	260.07	259.77	259.46	259.25	258.77

Annual Max Momentary Gage Height 261.31 m. (MSL.) , at 12.00 Hours , on Sep. 12 , 2016

Zero Gage at Bottom Elevation 257.77 m. (MSL.) , River Bed 266.39 m. (MSL.)

Left Bank Elevation 266.24 m. (MSL.) ,

Right Bank Elevation 266.69 m. (MSL.) , Drainage Are 590 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.28	0.03	10.82	17.46	0.60	7.78	9.66	1.30	2.81	3.96	1.91	1.14		
2	0.26	0.03	6.34	19.92	0.38	7.54	7.30	1.46	4.00	3.96	1.91	1.14		
3	0.24	0.03	4.30	6.82	0.44	7.30	19.49	1.38	3.32	3.92	1.85	1.14		
4	0.22	0.18	3.38	7.54	1.78	6.10	12.64	1.36	3.96	3.88	1.79	1.10		
5	0.17	1.04	2.66	5.30	0.70	5.30	10.24	1.34	4.18	3.88	1.76	0.74		
6	0.17	0.92	1.52	24.50	0.85	5.90	39.70	1.30	4.18	3.72	1.73	0.74		
7	0.17	0.82	2.30	18.63	0.60	9.37	26.00	1.28	4.18	3.68	1.70	0.70		
8	0.17	0.52	4.50	13.26	0.46	22.07	12.64	1.22	3.96	3.80	1.67	0.72		
9	0.17	0.44	4.10	8.50	0.48	14.50	8.02	1.20	3.40	3.80	1.61	0.72		
10	0.17	0.36	2.84	9.08	1.13	12.95	9.08	1.20	3.05	4.36	1.52	0.72		
11	0.17	0.34	2.17	5.90	2.04	89.00	9.08	1.18	3.24	4.05	1.46	0.74		
12	0.17	0.30	1.78	4.30	3.02	95.00	7.30	1.24	3.05	4.72	1.40	0.74		
13	0.17	0.28	1.78	3.56	1.91	33.70	5.90	1.16	2.93	5.00	1.46	0.74		
14	0.17	0.24	2.66	3.56	1.52	27.50	4.10	1.16	2.99	5.15	1.40	0.74		
15	0.17	0.20	1.26	2.30	35.50	25.00	3.02	1.20	3.28	4.67	1.36	0.74		
16	0.17	0.19	0.90	1.52	13.57	20.35	2.04	1.22	3.68	4.45	1.24	0.72		
17	0.17	0.19	3.74	1.39	70.88	12.64	1.65	1.20	4.09	3.68	1.22	0.72		
18	0.14	0.19	2.04	1.26	56.50	10.82	1.26	1.18	4.36	3.88	1.20	0.72		
19	0.10	0.18	1.91	1.13	28.50	10.53	0.90	1.16	4.23	3.72	1.20	0.74		
20	0.14	0.18	5.70	0.95	73.50	9.08	0.90	1.16	4.05	3.48	1.18	0.74		
21	0.11	0.22	11.11	0.80	37.30	14.87	0.90	1.14	3.96	3.40	1.49	0.72		
22	0.08	0.28	6.34	0.46	11.71	9.66	0.85	1.16	3.84	3.20	1.70	0.72		
23	0.04	0.34	4.30	0.29	20.35	9.08	0.85	1.18	3.48	2.84	1.36	0.72		
24	0.04	0.40	3.92	0.50	15.24	8.50	3.38	1.43	3.28	2.81	1.32	0.72		
25	0.04	0.46	6.82	0.44	9.95	27.00	2.30	2.09	3.84	2.75	1.26	0.72		
26	0.04	0.60	4.50	0.36	8.79	25.00	1.39	2.39	3.64	2.66	1.16	0.72		
27	0.03	0.40	4.50	0.27	11.11	10.82	0.95	2.60	3.60	2.48	1.12	0.74		
28	0.03	0.30	4.30	0.28	32.00	7.54	0.72	2.66	3.52	2.30	1.12	0.74		
29	0.03	0.24	4.50	0.29	17.83	6.10	1.34	2.63	3.60	2.03		0.74		
30	0.03	0.19	4.90	0.27	12.64	10.24	1.46	2.60	3.56	1.91		0.72		
31		7.06		0.26	9.37		1.30		3.64	1.91		0.72		
Total	4.06	17.15	121.89	161.10	480.65	561.24	206.36	44.78	112.90	110.05	41.10	24.18	1885.46	CMSDAY
Mean	0.14	0.55	4.06	5.20	15.50	18.71	6.66	1.49	3.64	3.55	1.47	0.78	5.17	CMS
Max	0.28	7.06	11.11	24.50	73.50	95.00	39.70	2.66	4.36	5.15	1.91	1.14	95.00	CMS
Min	0.03	0.03	0.90	0.26	0.38	5.30	0.72	1.14	2.81	1.91	1.12	0.70	0.03	CMS
Runoff	0.35	1.48	10.53	13.92	41.53	48.49	17.83	3.87	9.75	9.51	3.55	2.09	162.90	MCM

Momentary Peak 136.40 CMS. at 261.31 m. (MSL.) at 12.00 Hours , on Sep 12 , 2016

Runoff Yield 8.76 Liters/Second/Square KM. Momentary Peak Yield 231.190 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

Ban Mae Phu **Amphoe** Thoen **Changwat** Lampang

Drainge Area	784 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+100.380 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of gage observer's house. **Elevation** +107.081 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1979 to date
Rated by Flot	-
Rated by Current Meter	1979 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

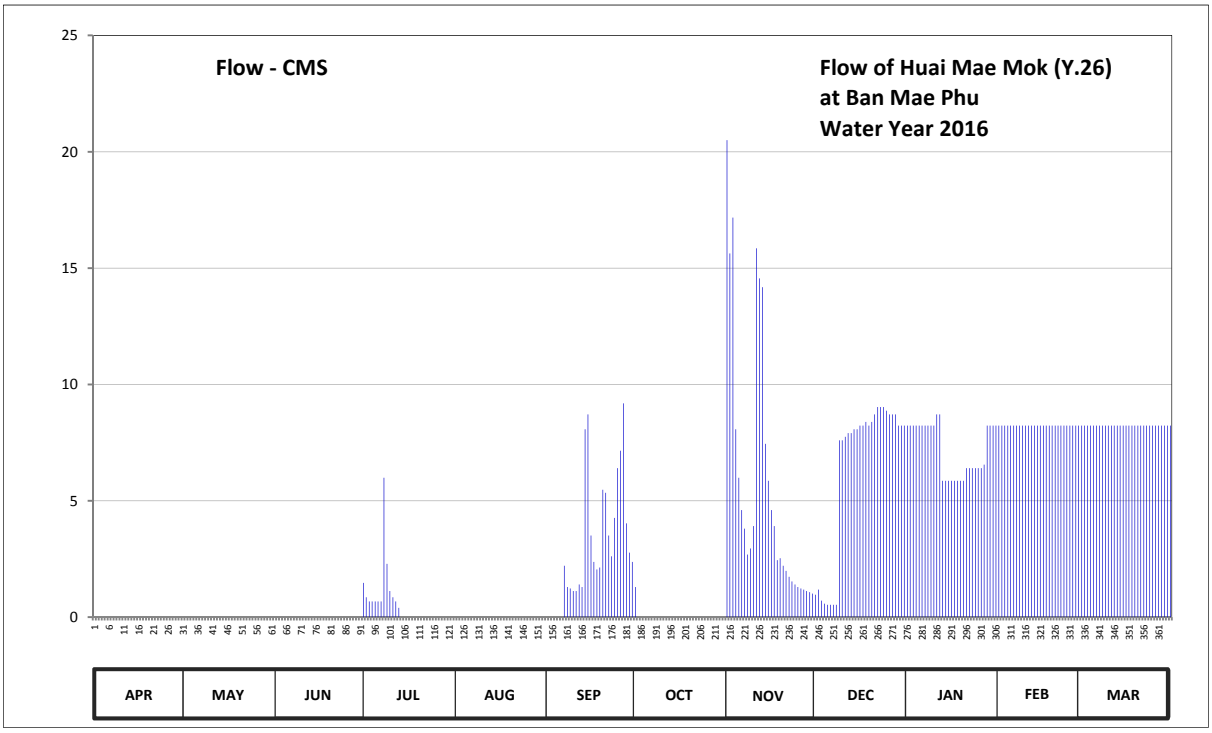
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.02	101.02	100.96	101.01	100.80	100.98	100.98	102.26	100.92	101.63	101.63	101.63	
2	101.02	101.02	100.96	100.90	100.83	100.95	100.98	102.04	100.96	101.63	101.63	101.63	
3	101.02	101.02	100.96	100.86	100.83	100.94	100.98	102.11	100.87	101.63	101.63	101.63	
4	101.02	101.02	100.96	100.86	100.83	100.93	100.98	101.62	100.84	101.63	101.63	101.63	
5	101.02	101.02	100.96	100.86	100.83	100.92	100.98	101.48	100.83	101.63	101.63	101.63	
6	101.02	101.02	100.96	100.86	100.83	100.91	100.98	101.37	100.83	101.63	101.63	101.63	
7	101.02	101.02	100.96	100.86	100.83	101.12	100.98	101.30	100.83	101.63	101.63	101.63	
8	101.02	101.02	100.96	101.48	100.83	100.98	100.98	101.18	100.83	101.63	101.63	101.63	
9	101.02	101.02	100.96	101.13	100.83	100.97	100.98	101.21	101.59	101.63	101.63	101.63	
10	101.02	101.02	100.96	100.95	100.84	100.95	100.98	101.31	101.59	101.63	101.63	101.63	
11	101.06	101.02	100.90	100.90	100.84	100.95	100.98	102.05	101.60	101.66	101.63	101.63	
12	101.06	101.02	100.90	100.86	100.84	101.00	100.98	101.99	101.61	101.66	101.63	101.63	
13	101.06	101.02	100.90	100.80	100.84	100.98	100.98	101.97	101.61	101.47	101.63	101.63	
14	101.06	101.02	100.90	100.80	100.84	101.62	100.98	101.58	101.62	101.47	101.63	101.63	
15	101.06	101.02	100.90	100.80	100.84	101.66	100.98	101.47	101.62	101.47	101.63	101.63	
16	101.06	101.02	100.90	100.80	100.84	101.27	100.98	101.37	101.63	101.47	101.63	101.63	
17	101.06	101.02	100.90	100.80	100.84	101.14	100.98	101.31	101.63	101.47	101.63	101.63	
18	101.06	100.98	100.90	100.80	100.84	101.10	100.98	101.15	101.64	101.47	101.63	101.63	
19	101.06	100.98	100.90	100.80	100.84	101.11	100.98	101.16	101.63	101.47	101.63	101.63	
20	101.06	100.98	100.90	100.80	100.88	101.44	100.98	101.12	101.64	101.47	101.63	101.63	
21	100.96	100.98	100.82	100.80	100.87	101.43	100.98	101.09	101.66	101.51	101.63	101.63	
22	100.96	100.98	100.82	100.80	100.88	101.27	100.98	101.05	101.68	101.51	101.63	101.63	
23	100.96	100.98	100.82	100.80	100.88	101.17	100.98	101.02	101.68	101.51	101.63	101.63	
24	100.96	100.98	100.82	100.80	100.88	101.34	100.98	101.00	101.68	101.51	101.63	101.63	
25	100.96	100.98	100.82	100.80	100.88	101.51	100.98	100.98	101.67	101.51	101.63	101.63	
26	100.96	100.98	100.82	100.80	100.88	101.56	100.98	100.97	101.66	101.51	101.63	101.63	
27	100.96	100.98	100.82	100.80	100.88	101.69	100.98	100.96	101.66	101.52	101.63	101.63	
28	100.96	100.98	100.82	100.80	100.88	101.32	100.98	100.95	101.66	101.63	101.63	101.63	
29	100.96	100.98	100.82	100.80	100.88	101.19	100.98	100.94	101.63	101.63		101.63	
30	100.96	100.98	100.82	100.80	100.88	101.14	100.98	100.93	101.63	101.63		101.63	
31		100.98		100.80	100.95		100.98		101.63	101.63		101.63	
Mean	101.01	101.00	100.89	100.86	100.85	101.18	100.98	101.36	101.44	101.56	101.63	101.63	
Max	101.06	101.02	100.96	101.48	100.95	101.69	100.98	102.26	101.68	101.66	101.63	101.63	102.26
Min	100.96	100.98	100.82	100.80	100.80	100.91	100.98	100.93	100.83	101.47	101.63	101.63	100.80

Annual Max Momentary Gage Height 102.38 m. (MSL.) , at 06.00 Hours , on Nov 1 , 2016

Zero Gage at Bottom Elevation 100.38 m. (MSL.) , River Bed 100.38 m. (MSL.)

Left Bank Elevation 107.08 m. (MSL.) ,

Right Bank Elevation 107.10 m. (MSL.) , Drainage Are 784 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.47	0.00	0.00	1.29	20.50	0.96	8.23	8.23	8.23		
2	0.00	0.00	0.00	0.85	0.00	0.00	0.00	15.63	1.18	8.23	8.23	8.23		
3	0.00	0.00	0.00	0.67	0.00	0.00	0.00	17.17	0.71	8.23	8.23	8.23		
4	0.00	0.00	0.00	0.67	0.00	0.00	0.00	8.07	0.58	8.23	8.23	8.23		
5	0.00	0.00	0.00	0.67	0.00	0.00	0.00	5.99	0.53	8.23	8.23	8.23		
6	0.00	0.00	0.00	0.67	0.00	0.00	0.00	4.60	0.53	8.23	8.23	8.23		
7	0.00	0.00	0.00	0.67	0.00	2.21	0.00	3.80	0.53	8.23	8.23	8.23		
8	0.00	0.00	0.00	5.99	0.00	1.29	0.00	2.69	0.53	8.23	8.23	8.23		
9	0.00	0.00	0.00	2.29	0.00	1.23	0.00	2.95	7.60	8.23	8.23	8.23		
10	0.00	0.00	0.00	1.12	0.00	1.12	0.00	3.91	7.60	8.23	8.23	8.23		
11	0.00	0.00	0.00	0.85	0.00	1.12	0.00	15.85	7.75	8.71	8.23	8.23		
12	0.00	0.00	0.00	0.67	0.00	1.40	0.00	14.56	7.91	8.71	8.23	8.23		
13	0.00	0.00	0.00	0.40	0.00	1.29	0.00	14.18	7.91	5.86	8.23	8.23		
14	0.00	0.00	0.00	0.00	0.00	8.07	0.00	7.45	8.07	5.86	8.23	8.23		
15	0.00	0.00	0.00	0.00	0.00	8.71	0.00	5.86	8.07	5.86	8.23	8.23		
16	0.00	0.00	0.00	0.00	0.00	3.51	0.00	4.60	8.23	5.86	8.23	8.23		
17	0.00	0.00	0.00	0.00	0.00	2.37	0.00	3.91	8.23	5.86	8.23	8.23		
18	0.00	0.00	0.00	0.00	0.00	2.05	0.00	2.45	8.39	5.86	8.23	8.23		
19	0.00	0.00	0.00	0.00	0.00	2.13	0.00	2.53	8.23	5.86	8.23	8.23		
20	0.00	0.00	0.00	0.00	0.00	5.47	0.00	2.21	8.39	5.86	8.23	8.23		
21	0.00	0.00	0.00	0.00	0.00	5.34	0.00	1.99	8.71	6.40	8.23	8.23		
22	0.00	0.00	0.00	0.00	0.00	3.51	0.00	1.73	9.03	6.40	8.23	8.23		
23	0.00	0.00	0.00	0.00	0.00	2.61	0.00	1.53	9.03	6.40	8.23	8.23		
24	0.00	0.00	0.00	0.00	0.00	4.26	0.00	1.40	9.03	6.40	8.23	8.23		
25	0.00	0.00	0.00	0.00	0.00	6.40	0.00	1.29	8.87	6.40	8.23	8.23		
26	0.00	0.00	0.00	0.00	0.00	7.15	0.00	1.23	8.71	6.40	8.23	8.23		
27	0.00	0.00	0.00	0.00	0.00	9.19	0.00	1.18	8.71	6.55	8.23	8.23		
28	0.00	0.00	0.00	0.00	0.00	4.03	0.00	1.12	8.71	8.23	8.23	8.23		
29	0.00	0.00	0.00	0.00	0.00	2.77	0.00	1.07	8.23	8.23		8.23		
30	0.00	0.00	0.00	0.00	0.00	2.37	0.00	1.01	8.23	8.23		8.23		
31		0.00		0.00	0.00		0.00		8.23	8.23		8.23		
Total	0.00	0.00	0.00	16.99	0.00	89.60	1.29	172.46	197.42	224.47	230.44	255.13	1187.80	CMSDAY
Mean	0.00	0.00	0.00	0.55	0.00	2.99	0.04	5.75	6.37	7.24	8.23	8.23	3.25	CMS
Max	0.00	0.00	0.00	5.99	0.00	9.19	1.29	20.50	9.03	8.71	8.23	8.23	20.50	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.53	5.86	8.23	8.23	0.00	CMS
Runoff	0.00	0.00	0.00	1.47	0.00	7.74	0.11	14.90	17.06	19.39	19.91	22.04	102.63	MCM

Momentary Peak 23.32 CMS. at 102.38 m. (MSL.) at 06.00 Hours , on Nov 1 , 2016

Runoff Yield 4.15 Liters/Second/Square KM. Momentary Peak Yield 29.740 Liters/Second/Square KM.

WATER YEAR : 2016

Yom RIVER BASIN

Huai Mae Hu at Ban Mae Hu , Sukhothai (Y.29)

Lat 17 - 42 - 11 N Long 99 - 44 - 24 E

Location : on left bank at Ban Mae Hu.

Ban Mae Hu **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	57 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+93.445 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +98.162 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Flot	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 1 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

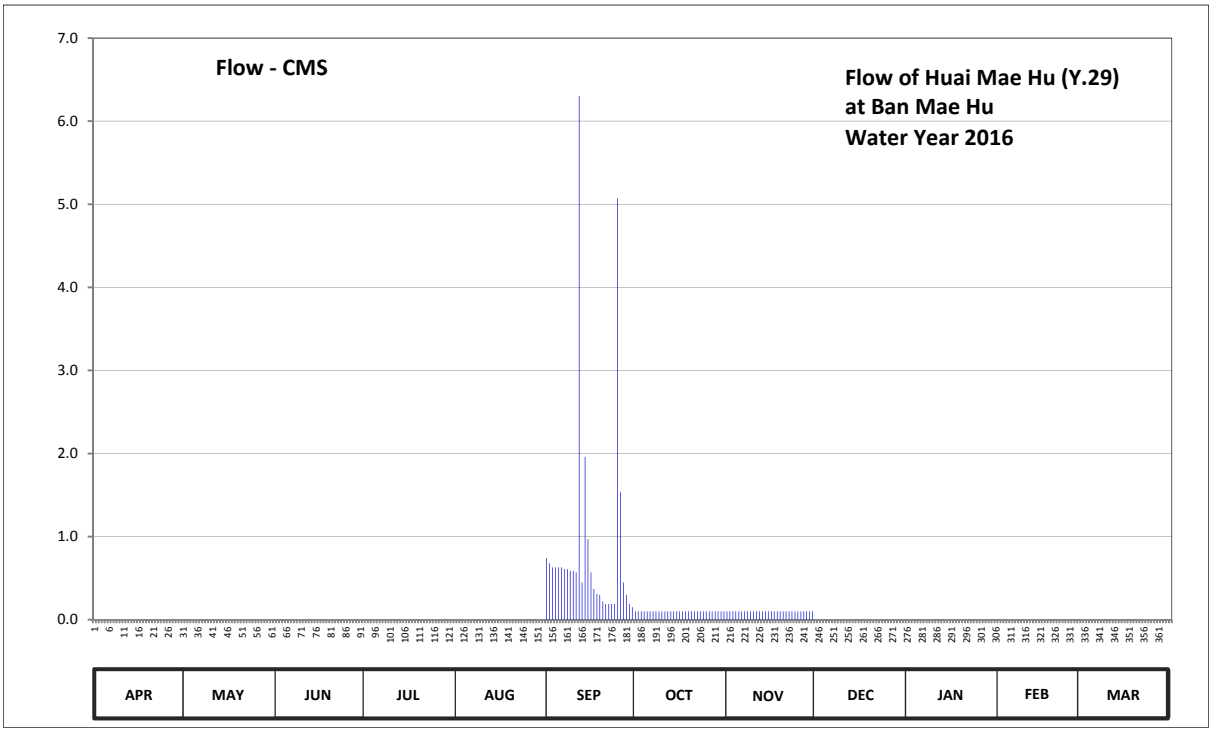
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.45	93.45	93.45	93.45	93.45	94.12	93.75	93.75	93.55	93.50	93.55	93.50	
2	93.45	93.45	93.45	93.45	93.45	94.10	93.75	93.75	93.55	93.50	93.55	93.50	
3	93.45	93.45	93.45	93.45	93.45	94.08	93.75	93.75	93.55	93.50	93.55	93.50	
4	93.45	93.45	93.45	93.45	93.45	94.08	93.75	93.75	93.55	93.50	93.55	93.50	
5	93.45	93.45	93.45	93.45	93.45	94.08	93.75	93.75	93.55	93.50	93.55	93.50	
6	93.45	93.45	93.45	93.45	93.45	94.08	93.75	93.75	93.55	93.50	93.55	93.50	
7	93.45	93.45	93.45	93.45	93.45	94.07	93.75	93.75	93.55	93.50	93.55	93.50	
8	93.45	93.45	93.45	93.45	93.45	94.07	93.75	93.75	93.55	93.50	93.55	93.50	
9	93.45	93.45	93.45	93.45	93.45	94.06	93.75	93.75	93.55	93.50	93.55	93.50	
10	93.45	93.45	93.45	93.45	93.45	94.06	93.75	93.75	93.55	93.50	93.55	93.50	
11	93.45	93.45	93.45	93.45	93.45	94.05	93.75	93.75	93.55	93.50	93.55	93.50	
12	93.45	93.45	93.45	93.45	93.45	95.18	93.75	93.75	93.55	93.50	93.55	93.50	
13	93.45	93.45	93.45	93.45	93.45	94.00	93.75	93.75	93.55	93.50	93.55	93.50	
14	93.45	93.45	93.45	93.45	93.45	94.46	93.75	93.75	93.55	93.50	93.55	93.50	
15	93.45	93.45	93.45	93.45	93.45	94.20	93.75	93.75	93.55	93.50	93.55	93.50	
16	93.45	93.45	93.45	93.45	93.45	94.05	93.75	93.75	93.55	93.50	93.55	93.50	
17	93.45	93.45	93.45	93.45	93.45	93.95	93.75	93.75	93.55	93.50	93.55	93.50	
18	93.45	93.45	93.45	93.45	93.45	93.91	93.75	93.75	93.55	93.50	93.55	93.50	
19	93.45	93.45	93.45	93.45	93.45	93.90	93.75	93.75	93.55	93.50	93.55	93.50	
20	93.45	93.45	93.45	93.45	93.45	93.85	93.75	93.75	93.55	93.50	93.55	93.50	
21	93.45	93.45	93.45	93.45	93.45	93.83	93.75	93.75	93.55	93.50	93.55	93.50	
22	93.45	93.45	93.45	93.45	93.45	93.83	93.75	93.75	93.55	93.50	93.55	93.50	
23	93.45	93.45	93.45	93.45	93.45	93.83	93.75	93.75	93.55	93.50	93.55	93.50	
24	93.45	93.45	93.45	93.45	93.45	93.83	93.75	93.75	93.55	93.50	93.55	93.50	
25	93.45	93.45	93.45	93.45	93.45	95.01	93.75	93.75	93.55	93.50	93.55	93.50	
26	93.45	93.45	93.45	93.45	93.45	94.36	93.75	93.75	93.55	93.50	93.55	93.50	
27	93.45	93.45	93.45	93.45	93.45	94.00	93.75	93.75	93.55	93.50	93.55	93.50	
28	93.45	93.45	93.45	93.45	93.45	93.90	93.75	93.75	93.55	93.50	93.55	93.50	
29	93.45	93.45	93.45	93.45	93.45	93.83	93.75	93.75	93.55	93.50		93.50	
30	93.45	93.45	93.45	93.45	93.45	93.80	93.75	93.75	93.55	93.50		93.50	
31		93.45		93.45	93.45		93.75		93.55	93.50		93.50	
Mean	93.45	93.45	93.45	93.45	93.45	94.09	93.75	93.75	93.55	93.50	93.55	93.50	
Max	93.45	93.45	93.45	93.45	93.45	95.18	93.75	93.75	93.55	93.50	93.55	93.50	95.18
Min	93.45	93.45	93.45	93.45	93.45	93.80	93.75	93.75	93.55	93.50	93.55	93.50	93.45

Annual Max Momentary Gage Height 95.60 m. (MSL.) , at 18.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 93.44 m. (MSL.) , River Bed 92.95 m. (MSL.)

Left Bank Elevation 97.74 m. (MSL.) ,

Right Bank Elevation 97.73 m. (MSL.) , Drainage Are 57 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	0.74	0.10	0.10	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.68	0.10	0.10	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.63	0.10	0.10	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.63	0.10	0.10	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.63	0.10	0.10	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.63	0.10	0.10	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.61	0.10	0.10	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.61	0.10	0.10	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.59	0.10	0.10	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.59	0.10	0.10	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.57	0.10	0.10	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	6.30	0.10	0.10	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.45	0.10	0.10	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	1.96	0.10	0.10	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.97	0.10	0.10	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.57	0.10	0.10	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.37	0.10	0.10	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.31	0.10	0.10	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.30	0.10	0.10	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.22	0.10	0.10	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.19	0.10	0.10	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.19	0.10	0.10	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.19	0.10	0.10	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.19	0.10	0.10	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	5.07	0.10	0.10	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	1.54	0.10	0.10	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.45	0.10	0.10	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	0.30	0.10	0.10	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	0.19	0.10	0.10	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.00	0.15	0.10	0.10	0.00	0.00		0.00		
31		0.00		0.00	0.00		0.10		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	0.00	26.82	3.10	3.00	0.00	0.00	0.00	0.00	32.92	CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	0.89	0.10	0.10	0.00	0.00	0.00	0.00	0.09	CMS
Max	0.00	0.00	0.00	0.00	0.00	6.30	0.10	0.10	0.00	0.00	0.00	0.00	6.30	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.15	0.10	0.10	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	0.00	2.32	0.27	0.26	0.00	0.00	0.00	0.00	2.84	MCM

Momentary Peak 8.09 CMS. at 95.60 m. (MSL.) at 18.00 Hours , on Sep 12 , 2016

Runoff Yield 1.58 Liters/Second/Square KM. Momentary Peak Yield 141.930 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

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

Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

Location : on right bank at the bridge on highway.

Ban Pong **Amphoe** Ngao **Changwat** Lampang

Drainge Area	325 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+265.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 25 meters from the top staff gage. **Elevation** +271.053 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Flot	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The carcass of the bridge is near the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

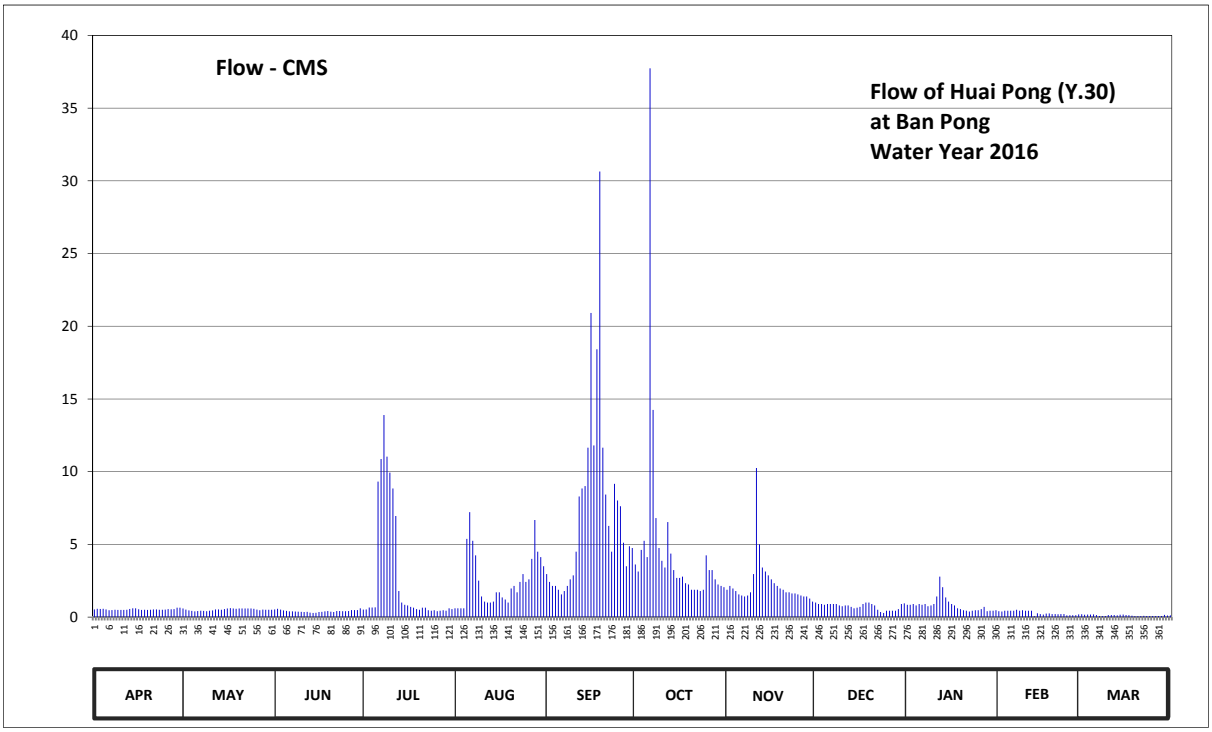
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	266.45	266.51	266.45	266.44	265.82	266.14	266.21	266.02	265.90	265.87	265.77	266.12	
2	266.49	266.44	266.49	266.45	265.82	266.08	266.16	266.05	265.88	265.87	265.76	266.08	
3	266.48	266.38	266.44	266.58	265.82	266.05	266.29	266.03	265.88	265.88	265.78	266.09	
4	266.49	266.35	266.38	266.58	265.82	266.05	266.34	266.01	265.87	265.86	265.78	266.09	
5	266.45	266.31	266.35	266.59	266.35	266.02	266.25	265.98	265.88	265.88	265.78	266.11	
6	266.39	266.34	266.32	266.64	266.49	265.98	267.99	265.97	265.88	265.87	265.78	266.06	
7	266.40	266.36	266.31	266.74	266.34	266.01	266.94	265.96	265.88	265.88	265.80	265.98	
8	266.42	266.35	266.30	266.92	266.26	266.05	266.46	265.97	265.88	265.85	265.78	265.98	
9	266.41	266.33	266.29	266.75	266.09	266.10	266.30	266.00	265.86	265.86	265.79	265.99	
10	266.41	266.36	266.28	266.68	265.96	266.13	266.23	266.14	265.85	265.88	265.78	266.06	
11	266.41	266.38	266.27	266.61	265.91	266.28	266.19	266.70	265.86	265.96	265.78	266.06	
12	266.42	266.45	266.28	266.47	265.90	266.57	266.44	266.32	265.86	266.12	265.78	266.06	
13	266.48	266.45	266.23	266.01	265.90	266.61	266.27	266.19	265.84	266.04	265.97	266.04	
14	266.52	266.43	266.20	265.90	265.91	266.62	266.17	266.16	265.82	265.95	266.18	266.08	
15	266.52	266.47	266.22	265.87	266.00	266.79	266.11	266.13	265.83	265.91	266.13	266.09	
16	266.46	266.51	266.27	265.86	266.00	267.28	266.11	266.10	265.84	265.88	266.09	266.06	
17	266.41	266.54	266.28	265.84	265.95	266.80	266.12	266.07	265.88	265.86	266.16	266.05	
18	266.42	266.51	266.32	265.83	265.93	267.16	266.07	266.05	265.90	265.82	266.17	266.02	
19	266.41	266.49	266.34	265.81	265.90	267.71	266.06	266.03	265.90	265.81	266.13	265.97	
20	266.42	266.51	266.29	265.80	266.03	266.79	266.02	266.02	265.88	265.79	266.13	265.95	
21	266.45	266.51	266.27	265.83	266.05	266.58	266.02	266.00	265.86	265.78	266.12	265.92	
22	266.45	266.51	266.34	265.83	266.00	266.42	266.02	266.00	265.80	265.76	266.13	266.01	
23	266.43	266.51	266.34	265.79	266.08	266.28	266.01	265.99	265.75	265.78	266.13	265.99	
24	266.43	266.51	266.33	265.78	266.14	266.63	266.02	265.99	265.73	265.79	266.04	266.00	
25	266.44	266.49	266.33	265.79	266.08	266.55	266.26	265.98	265.78	265.79	266.05	266.00	
26	266.47	266.44	266.34	265.77	266.10	266.52	266.17	265.97	265.78	265.81	266.05	266.00	
27	266.46	266.39	266.40	265.78	266.24	266.33	266.17	265.96	265.78	265.84	266.05	265.99	
28	266.47	266.44	266.40	265.79	266.45	266.20	266.10	265.96	265.78	265.77	266.11	265.99	
29	266.57	266.43	266.40	265.78	266.28	266.31	266.06	265.94	265.81	265.78		266.07	
30	266.57	266.43	266.52	265.82	266.25	266.30	266.05	265.91	265.88	265.78		266.03	
31		266.43		265.81	266.20		266.04		265.89	265.79		266.04	
Mean	266.45	266.44	266.33	266.13	266.07	266.44	266.25	266.05	265.85	265.86	265.96	266.03	
Max	266.57	266.54	266.52	266.92	266.49	267.71	267.99	266.70	265.90	266.12	266.18	266.12	267.99
Min	266.39	266.31	266.20	265.77	265.82	265.98	266.01	265.91	265.73	265.76	265.76	265.92	265.73

Annual Max Momentary Gage Height 268.06 m. (MSL.) , at 12.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 265.63 m. (MSL.) , River Bed 265.56 m. (MSL.)

Left Bank Elevation 273.90 m. (MSL.) ,

Right Bank Elevation 273.88 m. (MSL.) , Drainage Are 325 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.59	0.53	0.52	0.60	2.96	3.62	1.88	1.00	0.85	0.41	0.20	
2	0.57	0.52	0.57	0.53	0.60	2.42	3.14	2.15	0.90	0.85	0.38	0.16	
3	0.56	0.46	0.52	0.66	0.60	2.15	4.62	1.97	0.90	0.90	0.44	0.17	
4	0.57	0.43	0.46	0.66	0.60	2.15	5.25	1.79	0.85	0.80	0.44	0.17	
5	0.53	0.39	0.43	0.67	5.38	1.88	4.12	1.56	0.90	0.90	0.44	0.19	
6	0.47	0.42	0.40	9.32	7.22	1.56	37.74	1.49	0.90	0.85	0.44	0.14	
7	0.48	0.44	0.39	10.87	5.25	1.79	14.25	1.42	0.90	0.90	0.50	0.08	
8	0.50	0.43	0.38	13.90	4.25	2.15	6.81	1.49	0.90	0.75	0.44	0.08	
9	0.49	0.41	0.37	11.03	2.51	2.60	4.75	1.70	0.80	0.80	0.47	0.08	
10	0.49	0.44	0.36	9.94	1.42	2.87	3.87	2.96	0.75	0.90	0.44	0.14	
11	0.49	0.46	0.35	8.85	1.07	4.50	3.41	10.25	0.80	1.42	0.44	0.14	
12	0.50	0.53	0.36	6.95	1.00	8.29	6.54	5.00	0.80	2.78	0.44	0.14	
13	0.56	0.53	0.31	1.79	1.00	8.85	4.37	3.41	0.70	2.06	0.07	0.12	
14	0.60	0.51	0.28	1.00	1.07	9.01	3.23	3.14	0.60	1.35	0.26	0.16	
15	0.60	0.55	0.30	0.85	1.70	11.65	2.69	2.87	0.65	1.07	0.21	0.17	
16	0.54	0.59	0.35	0.80	1.70	20.92	2.69	2.60	0.70	0.90	0.17	0.14	
17	0.49	0.62	0.36	0.70	1.35	11.80	2.78	2.33	0.90	0.80	0.24	0.13	
18	0.50	0.59	0.40	0.65	1.21	18.42	2.33	2.15	1.00	0.60	0.25	0.10	
19	0.49	0.57	0.42	0.55	1.00	30.64	2.24	1.97	1.00	0.55	0.21	0.07	
20	0.50	0.59	0.37	0.50	1.97	11.65	1.88	1.88	0.90	0.47	0.21	0.07	
21	0.53	0.59	0.35	0.65	2.15	8.43	1.88	1.70	0.80	0.44	0.20	0.06	
22	0.53	0.59	0.42	0.65	1.70	6.27	1.88	1.70	0.50	0.38	0.21	0.09	
23	0.51	0.59	0.42	0.47	2.42	4.50	1.79	1.63	0.35	0.44	0.21	0.08	
24	0.51	0.59	0.41	0.44	2.96	9.16	1.88	1.63	0.29	0.47	0.12	0.08	
25	0.52	0.57	0.41	0.47	2.42	8.02	4.25	1.56	0.44	0.47	0.13	0.08	
26	0.55	0.52	0.42	0.41	2.60	7.62	3.23	1.49	0.44	0.55	0.13	0.08	
27	0.54	0.47	0.48	0.44	4.00	5.12	3.23	1.42	0.44	0.70	0.13	0.08	
28	0.55	0.52	0.48	0.47	6.68	3.50	2.60	1.42	0.44	0.41	0.19	0.08	
29	0.65	0.51	0.48	0.44	4.50	4.87	2.24	1.28	0.55	0.44		0.15	
30	0.65	0.51	0.60	0.60	4.12	4.75	2.15	1.07	0.90	0.44		0.11	
31		0.51		0.55	3.50		2.06		0.95	0.47		0.12	
Total	16.00	16.04	12.38	86.33	78.55	220.50	147.52	68.91	22.95	25.71	8.22	3.66	706.77	CMSDAY
Mean	0.53	0.52	0.41	2.78	2.53	7.35	4.76	2.30	0.74	0.83	0.29	0.12	1.94	CMS
Max	0.65	0.62	0.60	13.90	7.22	30.64	37.74	10.25	1.00	2.78	0.50	0.20	37.74	CMS
Min	0.47	0.39	0.28	0.41	0.60	1.56	1.79	1.07	0.29	0.38	0.07	0.06	0.06	CMS
Runoff	1.38	1.39	1.07	7.46	6.79	19.05	12.75	5.95	1.98	2.22	0.71	0.32	61.06	MCM

Momentary Peak 39.62 CMS. at 268.06 m. (MSL.) at 12.00 Hours , on Oct 6 , 2016

Runoff Yield 5.96 Liters/Second/Square KM. Momentary Peak Yield 121.910 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Thung Nong , Phayao (Y.31)

Lat 18 - 57 - 28 N Long 100 - 15 - 58 E

Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	Ban Thung Nong	**Amphoe** Chiang Muan	**Changwat** Phayao
Drainge Area	1,981 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+257.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	**Elevation**	+266.960 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the islet about 200 meters dowmstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

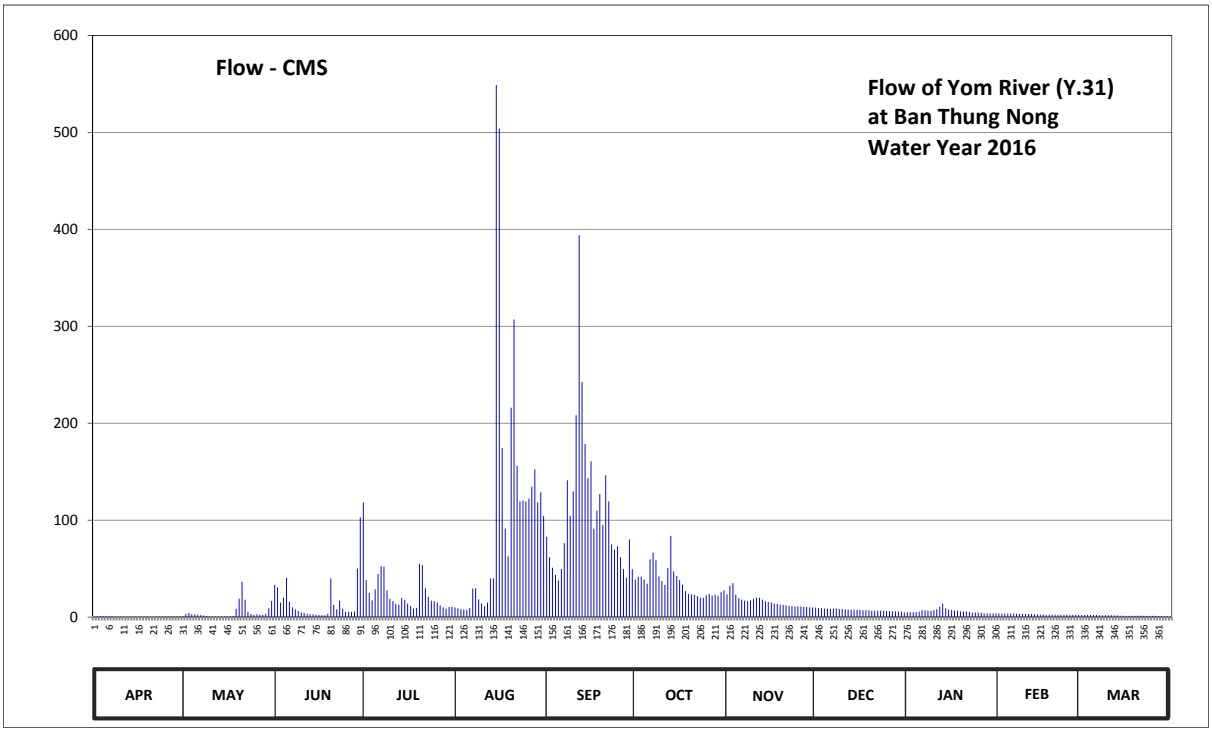
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.58	257.64	258.86	260.33	258.15	259.86	258.99	258.60	258.15	257.95	257.89	257.79	
2	257.61	257.84	258.80	258.98	258.12	259.47	259.06	258.84	258.13	257.95	257.88	257.79	
3	257.67	257.91	258.33	258.64	258.08	259.26	259.06	258.90	258.13	257.95	257.87	257.79	
4	257.66	257.83	258.49	258.41	258.07	259.10	259.00	258.59	258.11	257.96	257.87	257.79	
5	257.63	257.82	259.03	258.74	258.05	258.97	258.89	258.48	258.10	257.99	257.87	257.78	
6	257.63	257.80	258.36	259.12	258.13	259.23	259.43	258.43	258.10	258.04	257.87	257.77	
7	257.62	257.76	258.16	259.29	258.76	259.74	259.56	258.40	258.11	258.04	257.86	257.76	
8	257.56	257.73	258.08	259.28	258.77	260.57	259.41	258.38	258.11	258.03	257.86	257.75	
9	257.55	257.68	258.01	258.71	258.44	260.18	259.07	258.41	258.09	258.02	257.85	257.75	
10	257.58	257.61	257.94	258.46	258.30	260.45	258.96	258.46	258.09	258.04	257.85	257.76	
11	257.57	257.60	257.91	258.38	258.20	261.11	258.86	258.49	258.08	258.08	257.84	257.75	
12	257.54	257.60	257.86	258.29	258.33	262.22	259.25	258.49	258.07	258.19	257.84	257.74	
13	257.55	257.57	257.83	258.26	259.02	261.35	259.88	258.43	258.07	258.30	257.83	257.74	
14	257.54	257.56	257.83	258.48	259.02	260.88	259.18	258.38	258.06	258.12	257.82	257.72	
15	257.54	257.60	257.79	258.42	262.92	260.59	259.08	258.35	258.06	258.07	257.81	257.72	
16	257.53	257.60	257.77	258.30	262.73	260.74	258.98	258.33	258.05	258.05	257.81	257.70	
17	257.54	257.62	257.75	258.21	260.85	260.01	258.87	258.30	258.04	258.03	257.80	257.70	
18	257.55	257.68	257.75	258.11	260.01	260.24	258.69	258.28	258.04	258.02	257.80	257.70	
19	257.60	258.10	257.86	258.14	259.49	260.42	258.61	258.26	258.04	258.00	257.80	257.71	
20	257.56	258.46	259.02	259.34	261.17	260.06	258.60	258.25	258.02	257.99	257.80	257.71	
21	257.54	258.94	258.25	259.31	261.75	260.62	258.58	258.23	258.02	257.99	257.79	257.72	
22	257.57	258.43	258.08	258.77	260.70	260.34	258.54	258.22	258.02	257.96	257.80	257.71	
23	257.57	257.97	258.40	258.52	260.34	259.72	258.49	258.21	258.02	257.93	257.78	257.70	
24	257.57	257.85	258.11	258.40	260.35	259.62	258.49	258.20	258.02	257.94	257.78	257.70	
25	257.58	257.79	257.97	258.38	260.34	259.68	258.57	258.20	258.01	257.93	257.77	257.70	
26	257.59	257.82	257.98	258.33	260.37	259.47	258.61	258.19	258.01	257.92	257.78	257.70	
27	257.61	257.79	257.97	258.23	260.50	259.23	258.56	258.18	258.00	257.90	257.78	257.68	
28	257.60	257.78	257.99	258.16	260.67	259.04	258.59	258.17	258.00	257.89	257.79	257.66	
29	257.59	257.86	259.24	258.11	260.33	259.81	258.55	258.16	258.00	257.89		257.63	
30	257.58	258.12	260.16	258.17	260.44	259.23	258.66	258.15	257.99	257.89		257.63	
31		258.39		258.18	260.18		258.71		257.94	257.89		257.60	
Mean	257.58	257.86	258.25	258.60	259.70	260.04	258.90	258.37	258.05	258.00	257.82	257.72	
Max	257.67	258.94	260.16	260.33	262.92	262.22	259.88	258.90	258.15	258.30	257.89	257.79	262.92
Min	257.53	257.56	257.75	258.11	258.05	258.97	258.49	258.15	257.94	257.89	257.77	257.60	257.53

Annual Max Momentary Gage Height 264.33 m. (MSL.) , at 19.00 Hours , on Aug 15 , 2016

Zero Gage at Bottom Elevation 257.00 m. (MSL.) , River Bed 254.40 m. (MSL.)

Left Bank Elevation 267.62 m. (MSL.) ,

Right Bank Elevation 267.36 m. (MSL.) , Drainage Are 1,981 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.82	33.26	118.35	9.82	82.80	38.59	23.50	9.82	5.00	3.85	2.38	
2	0.58	3.10	30.80	38.18	9.06	61.68	41.70	32.44	9.31	5.00	3.70	2.38	
3	1.06	4.20	14.93	24.96	8.04	51.00	41.70	34.90	9.31	5.00	3.55	2.38	
4	0.98	2.95	19.93	17.33	7.78	43.50	39.00	23.17	8.80	5.20	3.55	2.38	
5	0.74	2.80	40.35	28.61	7.27	37.77	34.49	19.60	8.55	5.80	3.55	2.26	
6	0.74	2.50	15.82	44.40	9.31	49.50	59.58	17.98	8.55	7.02	3.55	2.14	
7	0.66	2.02	10.08	52.50	29.34	76.20	66.40	17.00	8.80	7.02	3.40	2.02	
8	0.34	1.66	8.04	52.00	29.71	141.15	58.53	16.41	8.80	6.76	3.40	1.90	
9	0.30	1.14	6.25	27.52	18.30	104.45	42.15	17.33	8.29	6.51	3.25	1.90	
10	0.42	0.58	4.80	18.95	14.05	129.75	37.36	18.95	8.29	7.02	3.25	2.02	
11	0.38	0.50	4.20	16.41	11.10	208.30	33.26	19.93	8.04	8.04	3.10	1.90	
12	0.26	0.50	3.40	13.75	14.93	394.00	50.50	19.93	7.78	10.84	3.10	1.78	
13	0.30	0.38	2.95	12.87	39.90	242.50	83.90	17.98	7.78	14.05	2.95	1.78	
14	0.26	0.34	2.95	19.60	39.90	178.40	47.10	16.41	7.53	9.06	2.80	1.54	
15	0.26	0.50	2.38	17.65	548.80	143.05	42.60	15.53	7.53	7.78	2.65	1.54	
16	0.22	0.50	2.14	14.05	503.90	160.80	38.18	14.93	7.27	7.27	2.65	1.30	
17	0.26	0.66	1.90	11.39	174.50	91.27	33.67	14.05	7.02	6.76	2.50	1.30	
18	0.30	1.14	1.90	8.80	91.27	109.80	26.79	13.46	7.02	6.51	2.50	1.30	
19	0.50	8.55	3.40	9.57	62.73	126.90	23.86	12.87	7.02	6.00	2.50	1.42	
20	0.34	18.95	39.90	55.00	216.10	95.15	23.50	12.57	6.51	5.80	2.50	1.42	
21	0.26	36.54	12.57	53.50	307.00	146.40	22.85	11.98	6.51	5.80	2.38	1.54	
22	0.38	17.98	8.04	29.71	156.00	119.30	21.55	11.69	6.51	5.20	2.50	1.42	
23	0.38	5.40	17.00	20.90	119.30	75.10	19.93	11.39	6.51	4.60	2.26	1.30	
24	0.38	3.25	8.80	17.00	120.25	69.60	19.93	11.10	6.51	4.80	2.26	1.30	
25	0.42	2.38	5.40	16.41	119.30	72.90	22.52	11.10	6.25	4.60	2.14	1.30	
26	0.46	2.80	5.60	14.93	122.15	61.68	23.86	10.84	6.25	4.40	2.26	1.30	
27	0.58	2.38	5.40	11.98	134.50	49.50	22.20	10.59	6.00	4.00	2.26	1.14	
28	0.50	2.26	5.80	10.08	152.40	40.80	23.17	10.33	6.00	3.85	2.38	0.98	
29	0.46	3.40	50.00	8.80	118.35	80.05	21.87	10.08	6.00	3.85		0.74	
30	0.42	9.06	102.90	10.33	128.80	49.50	25.69	9.82	5.80	3.85		0.74	
31		16.71		10.59	104.45		27.52		4.80	3.85		0.50	
Total	13.56	155.95	470.89	806.12	3428.31	3292.80	1113.95	487.86	229.16	191.24	80.74	49.30	10319.88 CMSDAY
Mean	0.45	5.03	15.70	26.00	110.59	109.76	35.93	16.26	7.39	6.17	2.88	1.59	28.27 CMS
Max	1.06	36.54	102.90	118.35	548.80	394.00	83.90	34.90	9.82	14.05	3.85	2.38	548.80 CMS
Min	0.22	0.34	1.90	8.80	7.27	37.77	19.93	9.82	4.80	3.85	2.14	0.50	0.22 CMS
Runoff	1.17	13.47	40.68	69.65	296.21	284.50	96.25	42.15	19.80	16.52	6.98	4.26	891.64 MCM

Momentary Peak 957.60 CMS. at 264.33 m. (MSL.) at 19.00 Hours , on Aug 15 , 2016

Runoff Yield 14.27 Liters/Second/Square KM. Momentary Peak Yield 483.390 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Khlong Tan , Sukhothai (Y.33)

Lat 17 - 10 - 06 N Long 99 - 51 - 52 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

Ban Khlong Tan **Amphoe** Si Samrong **Changwat** Sukhothai

Drainge Area	13,948 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+45.820 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20.30 meters from the top staff gage. **Elevation** +55.420 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Flot	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +56.460 m.(MSL.), records are channel flow only.
General Description	Records good. Flow effected by the temporary weir about 500 meters dowmstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2015.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

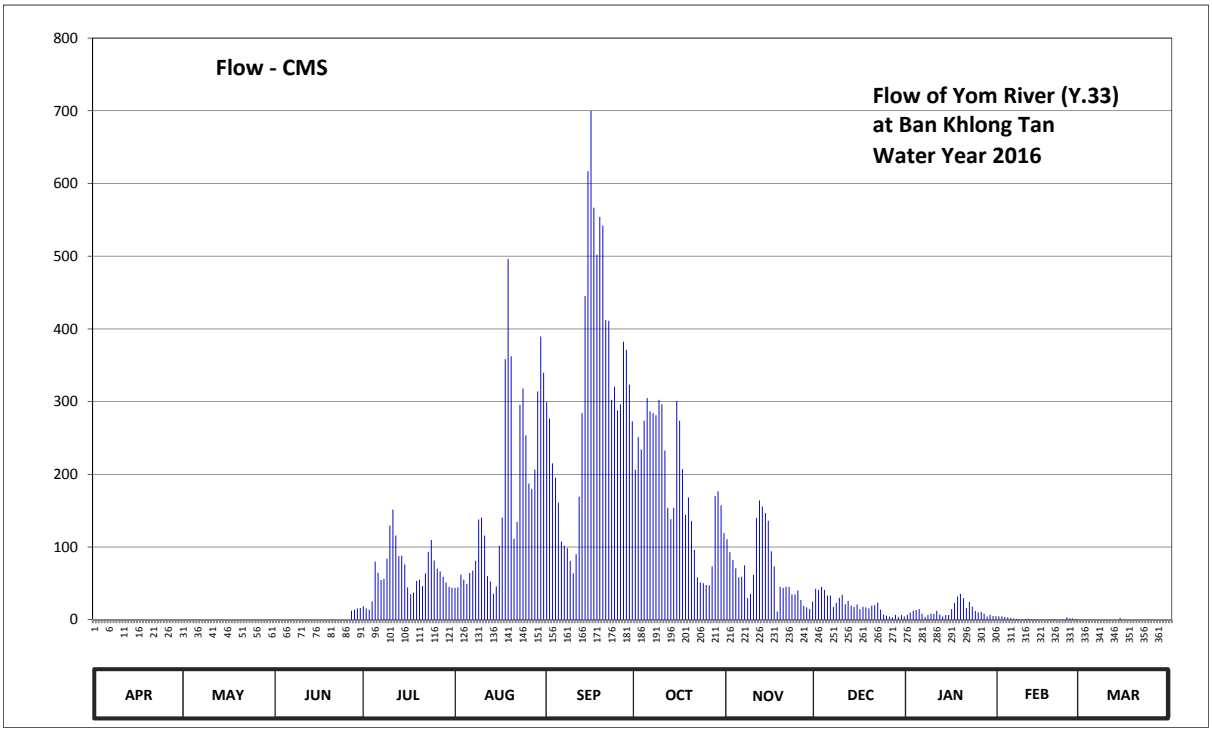
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.79	45.75	46.17	47.25	48.01	52.37	51.10	49.46	48.75	47.57	47.35	46.28	
2	45.79	45.75	46.17	47.14	48.03	52.07	51.73	49.12	48.73	47.88	47.32	46.23	
3	45.78	45.75	46.17	47.07	48.47	51.23	51.50	48.90	48.79	48.12	47.17	46.21	
4	45.78	45.75	46.22	47.48	48.30	50.92	52.03	48.66	48.73	48.17	47.02	46.20	
5	45.78	45.75	46.22	48.86	48.16	50.35	52.44	48.38	48.62	48.22	46.90	46.20	
6	45.76	45.75	46.22	48.53	48.52	49.40	52.20	48.40	48.62	47.72	46.71	46.18	
7	45.76	45.74	46.34	48.29	48.59	49.30	52.17	48.75	48.32	47.21	46.65	46.19	
8	45.76	45.74	46.27	48.33	48.88	49.23	52.13	47.60	48.45	47.54	46.54	46.18	
9	45.76	45.74	46.25	48.94	49.95	48.88	52.41	47.77	48.57	47.73	46.49	46.16	
10	45.76	45.74	46.25	49.80	50.00	48.51	52.33	48.46	48.63	47.68	46.62	46.17	
11	45.76	45.74	46.22	50.19	49.55	49.06	51.48	49.99	48.41	48.11	46.70	46.17	
12	45.76	45.74	46.22	49.55	48.42	50.49	50.23	50.40	48.50	47.61	46.57	46.18	
13	45.76	45.74	46.27	49.01	48.24	52.17	49.96	50.26	48.36	47.30	46.56	46.17	
14	45.76	45.74	46.27	49.02	47.78	54.19	50.23	50.11	48.32	47.54	46.47	46.92	
15	45.76	45.74	46.15	48.78	48.07	56.20	52.39	49.92	48.40	47.54	46.42	46.46	
16	45.76	45.74	45.92	48.03	49.29	57.12	52.03	49.14	48.22	48.22	46.41	46.33	
17	45.76	45.74	45.90	47.76	50.00	55.62	51.11	48.72	48.32	48.44	46.40	46.25	
18	45.76	45.79	45.92	47.82	53.13	54.86	50.07	48.01	48.30	48.60	46.51	46.20	
19	45.76	46.12	45.97	48.26	54.79	55.47	50.47	48.79	48.26	48.65	46.58	46.22	
20	45.76	46.12	45.92	48.30	53.18	55.33	49.91	48.77	48.36	48.56	46.61	46.21	
21	45.76	46.12	45.92	48.08	49.47	53.80	49.18	48.79	48.37	48.27	46.42	46.17	
22	45.76	46.12	45.88	48.51	49.89	53.79	48.38	48.79	48.45	48.47	46.41	46.17	
23	45.76	46.12	45.90	49.13	52.32	52.41	48.21	48.64	48.19	48.33	46.42	46.18	
24	45.76	46.12	45.90	49.44	52.61	52.64	48.18	48.64	47.61	48.10	47.06	46.17	
25	45.76	46.12	45.90	48.89	51.76	52.22	48.12	48.72	47.47	47.92	46.83	46.17	
26	45.76	46.12	45.95	48.65	50.79	52.33	48.11	48.52	47.27	47.98	46.77	46.19	
27	45.75	46.12	47.02	48.57	50.66	53.43	48.72	48.35	47.09	47.74	46.63	46.18	
28	45.75	46.12	47.07	48.40	51.10	53.29	50.50	48.30	47.56	47.30	46.42	46.17	
29	45.75	46.12	47.14	48.21	52.56	52.68	50.61	48.23	47.23	47.59		46.16	
30	45.75	46.12	47.17	48.05	53.52	52.02	50.29	48.48	47.54	47.42		46.15	
31		46.12		48.02	52.89		49.61		47.31	47.38		46.15	
Mean	45.76	45.90	46.23	48.46	50.22	52.38	50.58	48.84	48.19	47.90	46.68	46.22	
Max	45.79	46.12	47.17	50.19	54.79	57.12	52.44	50.40	48.79	48.65	47.35	46.92	57.12
Min	45.75	45.74	45.88	47.07	47.78	48.51	48.11	47.60	47.09	47.21	46.40	46.15	45.74

Annual Max Momentary Gage Height 57.17 m. (MSL.) , at 06.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 45.82 m. (MSL.) , River Bed 44.23 m. (MSL.)

Left Bank Elevation 56.51 m. (MSL.) ,

Right Bank Elevation 56.45 m. (MSL.) , Drainage Are 13,948 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	18.50	43.85	299.43	206.50	110.80	42.50	6.70	4.75	0.06	
2	0.00	0.00	0.00	15.50	44.55	276.75	251.25	93.00	41.10	9.80	4.60	0.00	
3	0.00	0.00	0.00	13.75	62.15	215.10	234.00	82.00	45.30	12.40	3.85	0.00	
4	0.00	0.00	0.00	25.40	55.00	195.20	273.75	70.70	41.10	13.40	3.10	0.00	
5	0.00	0.00	0.00	80.00	49.40	161.00	304.85	58.20	33.40	14.60	2.50	0.00	
6	0.00	0.00	0.00	64.85	64.40	107.50	286.50	59.00	33.40	8.20	1.55	0.00	
7	0.00	0.00	0.55	54.60	67.55	102.00	284.25	74.75	17.80	4.05	1.25	0.00	
8	0.00	0.00	0.10	56.20	81.00	98.50	281.25	29.50	23.50	6.40	0.70	0.00	
9	0.00	0.00	0.00	84.00	137.75	81.00	302.53	35.45	30.20	8.30	0.47	0.00	
10	0.00	0.00	0.00	129.50	140.50	63.95	296.33	61.70	34.10	7.80	1.10	0.00	
11	0.00	0.00	0.00	151.40	115.75	90.00	232.60	139.95	21.50	12.20	1.50	0.00	
12	0.00	0.00	0.00	115.75	59.90	169.40	153.80	164.00	26.00	7.10	0.85	0.00	
13	0.00	0.00	0.10	87.50	52.60	284.25	138.30	155.60	19.40	4.50	0.80	0.00	
14	0.00	0.00	0.10	88.00	35.80	445.15	153.80	146.60	17.80	6.40	0.42	2.60	
15	0.00	0.00	0.00	76.10	45.95	617.00	300.98	136.10	21.00	6.40	0.30	0.40	
16	0.00	0.00	0.00	44.55	101.50	699.80	273.75	94.00	14.60	14.60	0.27	0.15	
17	0.00	0.00	0.00	35.10	140.50	566.70	207.15	73.40	17.80	23.00	0.25	0.00	
18	0.00	0.00	0.00	37.20	358.40	502.10	144.35	11.10	17.00	32.00	0.55	0.00	
19	0.00	0.00	0.00	53.40	496.15	553.95	168.20	45.30	15.80	35.50	0.90	0.00	
20	0.00	0.00	0.00	55.00	362.40	542.05	135.55	43.90	19.40	29.60	1.05	0.00	
21	0.00	0.00	0.00	46.30	111.35	412.00	96.00	45.30	19.80	16.10	0.30	0.00	
22	0.00	0.00	0.00	63.95	134.45	411.20	58.20	45.30	23.50	24.50	0.27	0.00	
23	0.00	0.00	0.00	93.50	295.55	302.53	51.40	34.80	13.80	18.20	0.30	0.00	
24	0.00	0.00	0.00	109.70	318.03	320.35	50.20	34.80	7.10	12.00	3.30	0.00	
25	0.00	0.00	0.00	81.50	253.50	288.00	47.80	40.40	5.70	10.20	2.15	0.00	
26	0.00	0.00	0.00	70.25	187.40	296.33	47.40	27.20	4.35	10.80	1.85	0.00	
27	0.00	0.00	12.50	66.65	179.60	382.40	73.40	19.00	3.45	8.40	1.15	0.00	
28	0.00	0.00	13.75	59.00	206.50	371.20	170.00	17.00	6.60	4.50	0.30	0.00	
29	0.00	0.00	15.50	51.40	314.15	323.45	176.60	14.90	4.15	6.90		0.00	
30	0.00	0.00	16.25	45.25	389.60	273.00	157.40	25.00	6.40	5.20		0.00	
31		0.00		44.20	339.73		119.05		4.55	4.90		0.00	
Total	0.00	0.00	58.85	2018.00	5244.96	9451.29	5677.14	1988.75	632.10	384.65	40.38	3.21	25499.33 CMSDAY
Mean	0.00	0.00	1.96	65.10	169.19	315.04	183.13	66.29	20.39	12.41	1.44	0.10	69.86 CMS
Max	0.00	0.00	16.25	151.40	496.15	699.80	304.85	164.00	45.30	35.50	4.75	2.60	699.80 CMS
Min	0.00	0.00	0.00	13.75	35.80	63.95	47.40	11.10	3.45	4.05	0.25	0.00	0.00 CMS
Runoff	0.00	0.00	5.08	174.36	453.16	816.59	490.50	171.83	54.61	33.23	3.49	0.28	2203.14 MCM

Momentary Peak 704.30 CMS. at 57.17 m. (MSL.) at 06.00 Hours , on Sep 16 , 2016

Runoff Yield 5.07 Liters/Second/Square KM. Momentary Peak Yield 51.160 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Nam Mae Lai at Ban Mae Lai , Phrae (Y.34)

Lat 18 - 12 - 59 N Long 100 - 12 - 36 E

Location : on left bank at the bridge on highway.

	Ban Mae Lai	**Amphoe** Mueang	**Changwat** Phrae
Drainge Area	336 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+157.270 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	**Elevation**	+167.293 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the temporary weir about 300 meters dowmstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

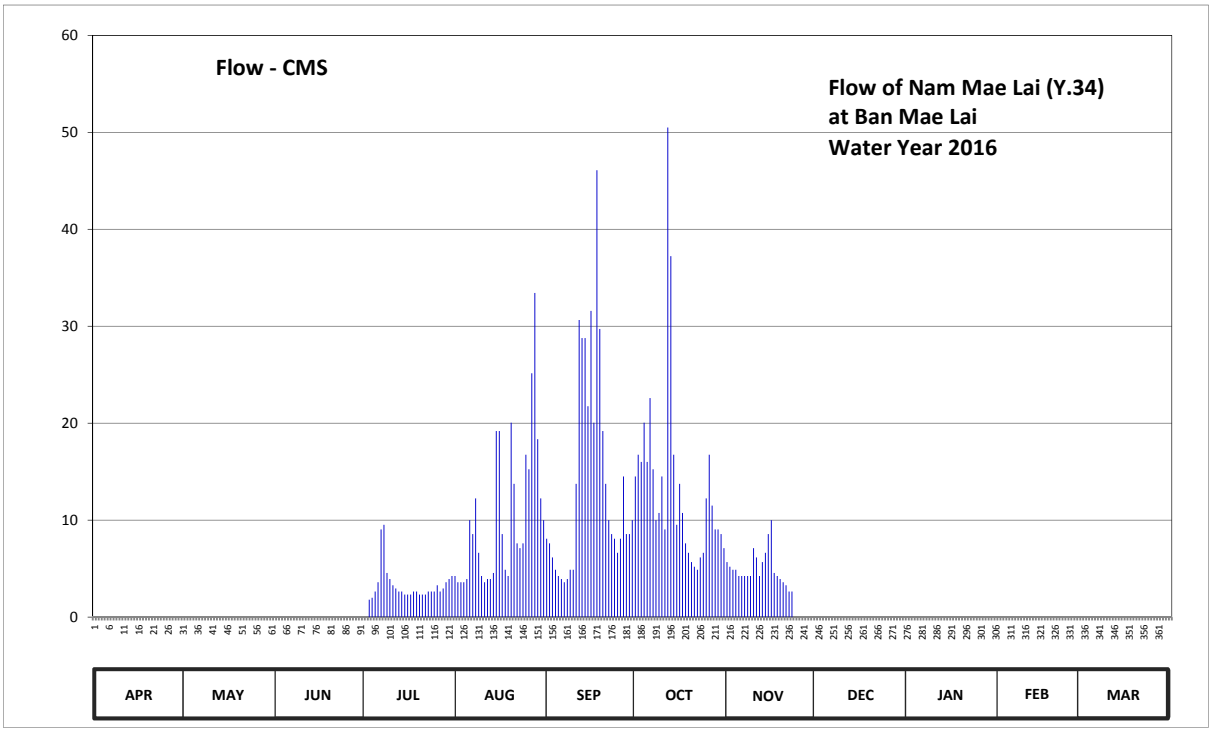
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.15	159.15	159.17	159.16	159.27	159.36	159.46	159.31	159.27	159.21	159.21	159.17	
2	159.15	159.15	159.17	159.16	159.25	159.35	159.49	159.30	159.26	159.21	159.21	159.16	
3	159.15	159.16	159.17	159.19	159.25	159.32	159.48	159.29	159.26	159.22	159.20	159.16	
4	159.15	159.15	159.17	159.20	159.25	159.29	159.53	159.29	159.26	159.22	159.20	159.17	
5	159.15	159.15	159.17	159.22	159.26	159.27	159.48	159.27	159.24	159.22	159.19	159.16	
6	159.14	159.15	159.17	159.25	159.40	159.26	159.56	159.27	159.24	159.21	159.19	159.17	
7	159.14	159.15	159.16	159.38	159.37	159.25	159.47	159.27	159.22	159.21	159.19	159.17	
8	159.12	159.15	159.16	159.39	159.43	159.26	159.40	159.27	159.22	159.21	159.19	159.17	
9	159.09	159.15	159.16	159.28	159.33	159.29	159.41	159.27	159.24	159.20	159.19	159.17	
10	159.07	159.15	159.16	159.26	159.27	159.29	159.46	159.34	159.24	159.20	159.18	159.18	
11	159.04	159.15	159.16	159.24	159.25	159.45	159.38	159.32	159.24	159.20	159.18	159.18	
12	159.05	159.15	159.16	159.23	159.26	159.65	159.85	159.27	159.22	159.21	159.18	159.17	
13	159.06	159.15	159.16	159.22	159.26	159.63	159.72	159.31	159.22	159.21	159.18	159.18	
14	159.07	159.15	159.16	159.22	159.28	159.63	159.49	159.33	159.22	159.21	159.18	159.19	
15	159.09	159.15	159.16	159.21	159.52	159.55	159.39	159.37	159.22	159.21	159.18	159.19	
16	159.11	159.08	159.16	159.21	159.52	159.66	159.45	159.40	159.21	159.20	159.18	159.20	
17	159.13	158.97	159.16	159.21	159.37	159.53	159.41	159.28	159.21	159.20	159.17	159.20	
18	159.14	159.12	159.16	159.22	159.29	159.81	159.35	159.27	159.21	159.20	159.17	159.20	
19	159.12	159.16	159.16	159.22	159.27	159.64	159.33	159.26	159.19	159.20	159.18	159.20	
20	159.13	159.16	159.16	159.21	159.53	159.52	159.31	159.25	159.19	159.20	159.18	159.20	
21	159.16	159.16	159.16	159.21	159.45	159.45	159.30	159.24	159.19	159.20	159.19	159.20	
22	159.16	159.16	159.16	159.21	159.35	159.40	159.29	159.22	159.19	159.20	159.17	159.19	
23	159.16	159.16	159.16	159.22	159.34	159.37	159.32	159.22	159.20	159.22	159.18	159.20	
24	159.16	159.16	159.16	159.22	159.35	159.36	159.33	159.25	159.21	159.22	159.20	159.20	
25	159.16	159.16	159.16	159.22	159.49	159.33	159.43	159.27	159.21	159.21	159.19	159.20	
26	159.16	159.16	159.16	159.24	159.47	159.36	159.49	159.26	159.21	159.21	159.19	159.19	
27	159.16	159.16	159.16	159.22	159.59	159.46	159.42	159.27	159.21	159.22	159.18	159.19	
28	159.15	159.16	159.16	159.23	159.68	159.37	159.38	159.27	159.21	159.22	159.18	159.19	
29	159.15	159.16	159.16	159.25	159.51	159.37	159.38	159.26	159.21	159.21		159.19	
30	159.15	159.16	159.16	159.26	159.43	159.40	159.37	159.26	159.21	159.21		159.19	
31		159.17		159.27	159.40		159.34		159.21	159.22		159.18	
Mean	159.13	159.15	159.16	159.23	159.38	159.43	159.43	159.28	159.22	159.21	159.19	159.18	
Max	159.16	159.17	159.17	159.39	159.68	159.81	159.85	159.40	159.27	159.22	159.21	159.20	159.85
Min	159.04	158.97	159.16	159.16	159.25	159.25	159.29	159.22	159.19	159.20	159.17	159.16	158.97

Annual Max Momentary Gage Height 160.32 m. (MSL.) , at 13.00 Hours , on Sep 18 , 2016

Zero Gage at Bottom Elevation 157.27 m. (MSL.) , River Bed 157.71 m. (MSL)

Left Bank Elevation 167.47 m. (MSL.) ,

Right Bank Elevation 167.46 m. (MSL.) , Drainage Are 336 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	4.24	8.08	14.50	5.68	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	3.60	7.60	16.75	5.20	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	1.80	3.60	6.16	16.00	4.88	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	2.00	3.60	4.88	20.05	4.88	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	2.64	3.92	4.24	16.00	4.24	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	3.60	10.00	3.92	22.60	4.24	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	9.04	8.56	3.60	15.25	4.24	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	9.52	12.25	3.92	10.00	4.24	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	4.56	6.64	4.88	10.75	4.24	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	3.92	4.24	4.88	14.50	7.12	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	3.28	3.60	13.75	9.04	6.16	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	2.96	3.92	30.65	50.50	4.24	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	2.64	3.92	28.79	37.24	5.68	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	2.64	4.56	28.79	16.75	6.64	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	2.32	19.20	21.75	9.52	8.56	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	2.32	19.20	31.58	13.75	10.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	2.32	8.56	20.05	10.75	4.56	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	2.64	4.88	46.10	7.60	4.24	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	2.64	4.24	29.72	6.64	3.92	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	2.32	20.05	19.20	5.68	3.60	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	2.32	13.75	13.75	5.20	3.28	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	2.32	7.60	10.00	4.88	2.64	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	2.64	7.12	8.56	6.16	2.64	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	2.64	7.60	8.08	6.64	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	2.64	16.75	6.64	12.25	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	3.28	15.25	8.08	16.75	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	2.64	25.15	14.50	11.50	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	2.96	33.44	8.56	9.04	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	3.60	18.35	8.56	9.04	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	3.92	12.25	10.00	8.56	0.00	0.00	0.00		0.00		
31		0.00		4.24	10.00		7.12		0.00	0.00		0.00		
Total	0.00	0.00	0.00	96.36	320.04	419.27	421.01	115.12	0.00	0.00	0.00	0.00	1371.80	CMSDAY
Mean	0.00	0.00	0.00	3.11	10.32	13.98	13.58	3.84	0.00	0.00	0.00	0.00	3.76	CMS
Max	0.00	0.00	0.00	9.52	33.44	46.10	50.50	10.00	0.00	0.00	0.00	0.00	50.50	CMS
Min	0.00	0.00	0.00	0.00	3.60	3.60	4.88	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	8.33	27.65	36.22	36.38	9.95	0.00	0.00	0.00	0.00	118.52	MCM

Momentary Peak 109.50 CMS. at 160.32 m. (MSL.) at 13.00 Hours , on Sep 18 , 2016

Runoff Yield 11.19 Liters/Second/Square KM. Momentary Peak Yield 325.890 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

Location : on left bank at the bridge.

Ban Pa Kha **Amphoe** Pong **Changwat** Phayao

Drainge Area	853 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+298.586 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the abutment of the bridge. **Elevation** +307.764 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1998 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the islet at the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

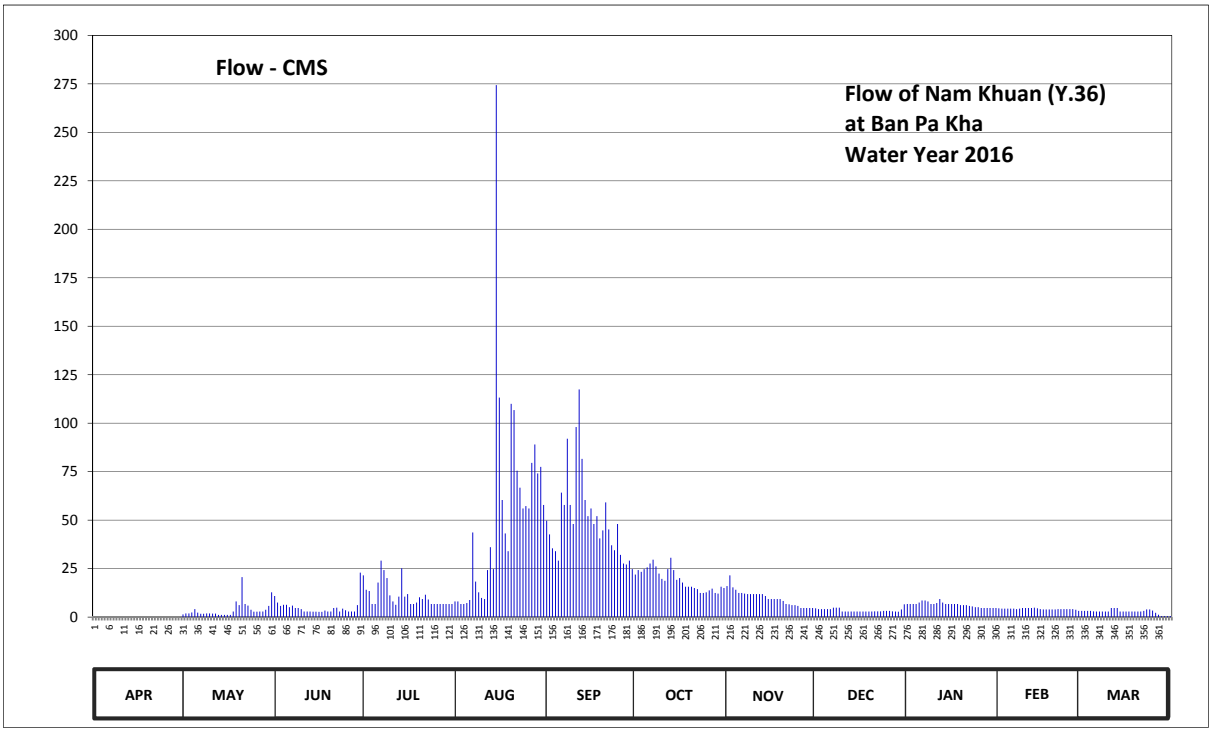
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.16	300.12	300.64	300.92	300.54	301.48	300.93	300.80	300.38	300.49	300.38	300.31	
2	300.15	300.19	300.52	300.74	300.54	301.35	300.98	300.92	300.36	300.49	300.37	300.31	
3	300.14	300.19	300.44	300.72	300.49	301.21	300.96	300.78	300.36	300.49	300.37	300.31	
4	300.13	300.24	300.47	300.49	300.49	301.18	300.99	300.74	300.36	300.49	300.37	300.31	
5	300.13	300.36	300.47	300.49	300.51	301.08	301.01	300.69	300.36	300.52	300.37	300.30	
6	300.13	300.23	300.41	300.84	300.57	301.72	301.05	300.69	300.36	300.56	300.37	300.29	
7	300.13	300.17	300.45	301.08	301.37	301.62	301.09	300.68	300.40	300.56	300.36	300.29	
8	300.13	300.17	300.39	300.98	300.85	302.12	301.02	300.67	300.40	300.54	300.37	300.29	
9	300.12	300.19	300.39	300.89	300.70	301.62	300.94	300.67	300.40	300.49	300.39	300.29	
10	300.12	300.19	300.36	300.65	300.61	301.45	300.88	300.67	300.29	300.49	300.39	300.29	
11	300.12	300.18	300.29	300.54	300.59	302.20	300.86	300.67	300.29	300.51	300.39	300.39	
12	300.12	300.18	300.29	300.47	300.98	302.44	300.99	300.67	300.29	300.59	300.39	300.39	
13	300.12	300.09	300.29	300.63	301.22	301.98	301.11	300.67	300.29	300.52	300.40	300.39	
14	300.12	300.09	300.28	301.00	300.99	301.66	300.98	300.64	300.29	300.49	300.38	300.29	
15	300.12	300.09	300.28	300.63	303.97	301.52	300.87	300.59	300.29	300.49	300.36	300.29	
16	300.12	300.09	300.27	300.67	302.39	301.59	300.89	300.59	300.29	300.49	300.35	300.29	
17	300.12	300.09	300.27	300.49	301.66	301.45	300.84	300.59	300.29	300.49	300.35	300.29	
18	300.13	300.29	300.32	300.49	301.36	301.52	300.79	300.59	300.29	300.49	300.35	300.29	
19	300.14	300.54	300.29	300.52	301.18	301.31	300.79	300.59	300.29	300.46	300.35	300.29	
20	300.09	300.46	300.29	300.62	302.35	301.39	300.79	300.55	300.29	300.46	300.35	300.29	
21	300.09	300.90	300.39	300.59	302.31	301.64	300.77	300.49	300.30	300.46	300.36	300.29	
22	300.09	300.49	300.40	300.66	301.89	301.40	300.75	300.48	300.30	300.44	300.36	300.31	
23	300.09	300.45	300.29	300.58	301.76	301.24	300.69	300.46	300.30	300.43	300.36	300.35	
24	300.09	300.34	300.37	300.49	301.59	301.19	300.69	300.46	300.31	300.41	300.36	300.35	
25	300.09	300.28	300.33	300.49	301.61	301.45	300.70	300.44	300.31	300.41	300.36	300.32	
26	300.09	300.28	300.29	300.49	301.59	301.14	300.73	300.39	300.31	300.39	300.36	300.22	
27	300.09	300.29	300.29	300.49	301.95	301.05	300.76	300.39	300.30	300.39	300.34	300.10	
28	300.09	300.29	300.29	300.49	302.08	301.04	300.69	300.39	300.29	300.39	300.31	299.99	
29	300.09	300.34	300.46	300.49	301.87	301.08	300.68	300.39	300.28	300.39		299.99	
30	300.09	300.44	300.95	300.49	301.92	300.99	300.79	300.39	300.35	300.39		299.99	
31		300.70		300.49	301.62		300.77		300.48	300.39		299.99	
Mean	300.11	300.29	300.38	300.63	301.40	301.47	300.86	300.59	300.33	300.47	300.36	300.26	
Max	300.16	300.90	300.95	301.08	303.97	302.44	301.11	300.92	300.48	300.59	300.40	300.39	303.97
Min	300.09	300.09	300.27	300.47	300.49	300.99	300.68	300.39	300.28	300.39	300.31	299.99	299.99

Annual Max Momentary Gage Height 304.74 m. (MSL.) , at 10.00 Hours , on Aug 15, 2016

Zero Gage at Bottom Elevation 298.59 m. (MSL.) , River Bed 298.85 m. (MSL.)

Left Bank Elevation 307.37 m. (MSL.) ,

Right Bank Elevation 307.40 m. (MSL.) , Drainage Are 853 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.36	10.88	21.52	8.04	49.76	21.98	16.00	4.52	6.79	4.52	3.19	
2	0.00	1.92	7.52	14.08	8.04	42.65	24.28	21.52	4.14	6.79	4.33	3.19	
3	0.00	1.92	5.74	13.44	6.79	35.51	23.36	15.36	4.14	6.79	4.33	3.19	
4	0.00	2.40	6.37	6.79	6.79	34.02	24.74	14.08	4.14	6.79	4.33	3.19	
5	0.00	4.14	6.37	6.79	7.26	29.12	25.69	12.48	4.14	7.52	4.33	3.00	
6	0.00	2.30	5.11	17.84	8.82	64.22	27.65	12.48	4.14	8.56	4.33	2.90	
7	0.00	1.76	5.95	29.12	43.67	57.87	29.61	12.16	4.90	8.56	4.14	2.90	
8	0.00	1.76	4.71	24.28	18.30	92.00	26.18	11.84	4.90	8.04	4.33	2.90	
9	0.00	1.92	4.71	20.14	12.80	57.87	22.44	11.84	4.90	6.79	4.71	2.90	
10	0.00	1.92	4.14	11.20	9.92	48.05	19.68	11.84	2.90	6.79	4.71	2.90	
11	0.00	1.84	2.90	8.04	9.34	98.00	18.76	11.84	2.90	7.26	4.71	4.71	
12	0.00	1.84	2.90	6.37	24.28	117.40	24.74	11.84	2.90	9.34	4.71	4.71	
13	0.00	1.13	2.90	10.56	36.02	81.63	30.59	11.84	2.90	7.52	4.90	4.71	
14	0.00	1.13	2.80	25.20	24.74	60.41	24.28	10.88	2.90	6.79	4.52	2.90	
15	0.00	1.13	2.80	10.56	274.40	52.04	19.22	9.34	2.90	6.79	4.14	2.90	
16	0.00	1.13	2.70	11.84	113.20	56.03	20.14	9.34	2.90	6.79	3.95	2.90	
17	0.00	1.13	2.70	6.79	60.41	48.05	17.84	9.34	2.90	6.79	3.95	2.90	
18	0.00	2.90	3.38	6.79	43.16	52.04	15.68	9.34	2.90	6.79	3.95	2.90	
19	0.00	8.04	2.90	7.52	34.02	40.61	15.68	9.34	2.90	6.16	3.95	2.90	
20	0.00	6.16	2.90	10.24	110.00	44.69	15.68	8.30	2.90	6.16	3.95	2.90	
21	0.00	20.60	4.71	9.34	106.80	59.14	15.04	6.79	3.00	6.16	4.14	2.90	
22	0.00	6.79	4.90	11.52	75.47	45.20	14.40	6.58	3.00	5.74	4.14	3.19	
23	0.00	5.95	2.90	9.08	66.76	37.04	12.48	6.16	3.00	5.53	4.14	3.95	
24	0.00	3.76	4.33	6.79	56.03	34.51	12.48	6.16	3.19	5.11	4.14	3.95	
25	0.00	2.80	3.57	6.79	57.23	48.05	12.80	5.74	3.19	5.11	4.14	3.38	
26	0.00	2.80	2.90	6.79	56.03	32.06	13.76	4.71	3.19	4.71	4.14	2.20	
27	0.00	2.90	2.90	6.79	79.58	27.65	14.72	4.71	3.00	4.71	3.76	1.20	
28	0.00	2.90	2.90	6.79	89.00	27.16	12.48	4.71	2.90	4.71	3.19	0.45	
29	0.00	3.76	6.16	6.79	74.10	29.12	12.16	4.71	2.80	4.71		0.45	
30	0.00	5.74	22.90	6.79	77.52	24.74	15.68	4.71	3.95	4.71		0.45	
31		12.80		6.79	57.87		15.04		6.58	4.71		0.45	
Total	0.00	118.63	148.55	353.37	1656.39	1526.64	599.26	295.98	109.62	199.72	118.58	87.26	5214.00	CMSDAY
Mean	0.00	3.83	4.95	11.40	53.43	50.89	19.33	9.87	3.54	6.44	4.24	2.81	14.28	CMS
Max	0.00	20.60	22.90	29.12	274.40	117.40	30.59	21.52	6.58	9.34	4.90	4.71	274.40	CMS
Min	0.00	1.13	2.70	6.37	6.79	24.74	12.16	4.71	2.80	4.71	3.19	0.45	0.00	CMS
Runoff	0.00	10.25	12.83	30.53	143.11	131.90	51.78	25.57	9.47	17.26	10.25	7.54	450.49	MCM

Momentary Peak 374.60 CMS. at 304.74 m. (MSL.) at 10.00 Hours , on Aug 15 , 2016

Runoff Yield 16.75 Liters/Second/Square KM. Momentary Peak Yield 439.160 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Wang Chin , Phrae (Y.37)

Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

Ban Wang Chin **Amphoe** Wang Chin **Changwat** Phrae

Drainge Area	10,305 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+92.280 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 5 meters from the top staff gage. **Elevation** +105.250 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 39 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

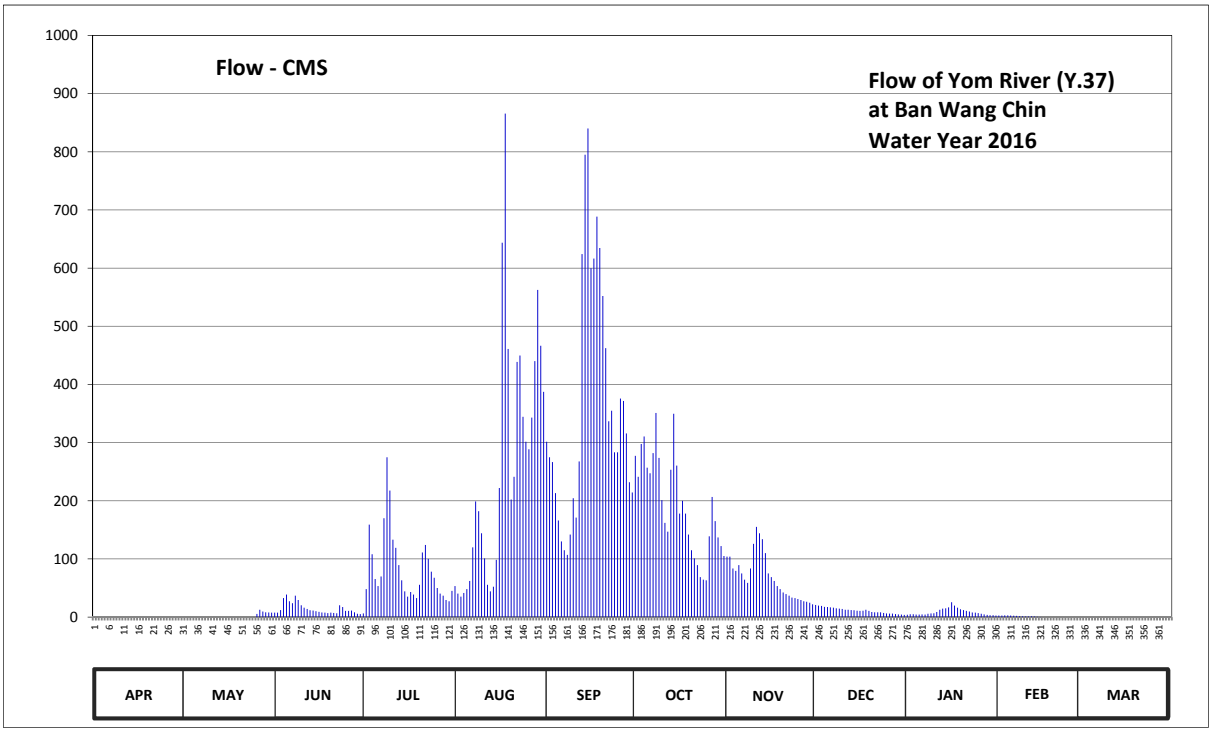
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.76	93.76	94.26	94.22	94.94	97.15	96.96	95.34	94.56	94.14	94.07	94.29	
2	93.73	93.78	94.26	94.89	94.81	96.94	96.66	95.34	94.54	94.17	94.08	94.29	
3	93.66	93.78	94.39	95.89	94.75	96.87	97.12	95.19	94.53	94.17	94.09	94.29	
4	93.70	93.79	94.72	95.38	94.82	96.41	97.22	95.16	94.50	94.15	94.09	94.28	
5	93.72	93.81	94.79	95.05	94.89	95.96	96.79	95.23	94.49	94.15	94.07	94.26	
6	93.71	93.80	94.65	94.94	95.02	95.60	96.71	95.13	94.48	94.16	94.06	94.25	
7	93.70	93.79	94.61	95.09	95.50	95.45	97.00	95.04	94.47	94.15	94.04	94.23	
8	93.70	93.78	94.77	96.00	96.28	95.37	97.53	94.99	94.45	94.20	94.02	94.21	
9	93.70	93.77	94.68	96.94	96.12	95.72	96.93	95.19	94.44	94.22	94.01	94.19	
10	93.70	93.76	94.55	96.45	95.74	96.33	96.30	95.56	94.43	94.23	93.99	94.18	
11	93.69	93.75	94.47	95.63	95.31	96.01	95.92	95.85	94.40	94.30	93.99	94.16	
12	93.68	93.73	94.43	95.49	94.96	96.88	95.77	95.74	94.40	94.40	94.00	94.13	
13	93.68	93.72	94.38	95.23	94.85	99.48	96.76	95.64	94.39	94.44	93.97	94.08	
14	93.68	93.70	94.37	95.03	94.93	100.62	97.52	95.40	94.38	94.45	93.91	94.08	
15	93.67	93.69	94.34	94.85	95.29	100.92	96.82	95.13	94.36	94.48	93.84	94.06	
16	93.66	93.68	94.31	94.75	96.49	99.32	96.08	95.08	94.35	94.63	93.86	94.05	
17	93.66	93.68	94.27	94.84	99.61	99.43	96.29	95.02	94.36	94.54	94.07	94.05	
18	93.65	93.66	94.26	94.79	101.08	99.91	96.08	94.94	94.40	94.47	94.10	94.04	
19	93.64	93.65	94.24	94.72	98.35	99.55	95.72	94.89	94.35	94.42	94.10	94.03	
20	93.65	93.65	94.26	94.96	96.31	99.00	95.45	94.83	94.30	94.39	94.17	94.02	
21	93.66	93.64	94.25	95.41	96.66	98.36	95.31	94.80	94.28	94.35	94.29	94.01	
22	93.62	93.63	94.23	95.54	98.19	97.42	95.23	94.77	94.28	94.32	94.32	93.98	
23	93.60	93.63	94.55	95.30	98.27	97.56	95.08	94.73	94.28	94.27	94.32	93.98	
24	93.59	93.63	94.49	95.15	97.48	97.01	95.04	94.72	94.25	94.26	94.33	93.98	
25	93.57	93.63	94.35	95.07	97.15	97.01	95.03	94.70	94.22	94.24	94.32	93.96	
26	93.56	94.19	94.35	94.91	97.05	97.72	95.69	94.68	94.21	94.20	94.32	93.95	
27	93.55	94.40	94.37	94.81	97.47	97.69	96.35	94.65	94.21	94.16	94.31	93.95	
28	93.54	94.32	94.28	94.77	98.20	97.26	95.95	94.64	94.18	94.12	94.29	93.95	
29	93.57	94.28	94.20	94.68	99.07	96.58	95.67	94.62	94.16	94.10		93.95	
30	93.63	94.27	94.18	94.65	98.39	96.42	95.52	94.58	94.15	94.10		93.95	
31		94.26		94.86	97.81		95.35		94.13	94.08		93.91	
Mean	93.65	93.83	94.41	95.17	96.64	97.53	96.19	95.05	94.35	94.27	94.11	94.09	
Max	93.76	94.40	94.79	96.94	101.08	100.92	97.53	95.85	94.56	94.63	94.33	94.29	101.08
Min	93.54	93.63	94.18	94.22	94.75	95.37	95.03	94.58	94.13	94.08	93.84	93.91	93.54

Annual Max Momentary Gage Height 101.34 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 92.28 m. (MSL.) , River Bed 91.97 m. (MSL.)

Left Bank Elevation 105.34 m. (MSL.) ,

Right Bank Elevation 106.41 m. (MSL.) , Drainage Are 10,305 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	7.56	6.32	53.40	301.50	277.20	104.00	21.00	4.20	2.63	0.00		
2	0.00	0.00	7.56	48.05	40.45	274.80	241.20	104.00	19.90	4.95	2.82	0.00		
3	0.00	0.00	12.13	159.00	35.25	266.40	297.60	83.60	19.35	4.95	3.01	0.00		
4	0.00	0.00	32.70	108.00	41.40	213.10	310.60	79.40	17.70	4.45	3.01	0.00		
5	0.00	0.03	38.65	65.50	48.05	166.00	256.80	89.50	17.18	4.45	2.63	0.00		
6	0.00	0.00	27.10	53.40	62.20	130.00	247.20	75.20	16.66	4.70	2.44	0.00		
7	0.00	0.00	23.98	69.90	120.00	115.00	282.00	64.40	16.14	4.45	2.06	0.00		
8	0.00	0.00	36.95	170.00	198.80	107.00	350.90	58.90	15.10	5.70	1.68	0.00		
9	0.00	0.00	29.44	274.80	182.00	142.00	273.60	83.60	14.58	6.32	1.49	0.00		
10	0.00	0.00	20.45	217.50	144.00	204.30	201.00	126.00	14.06	6.63	1.20	0.00		
11	0.00	0.00	16.14	133.00	101.00	171.00	162.00	155.00	12.50	8.80	1.20	0.00		
12	0.00	0.00	14.06	119.00	55.60	267.60	147.00	144.00	12.50	12.50	1.30	0.00		
13	0.00	0.00	11.76	89.50	44.25	624.00	253.20	134.00	12.13	14.58	1.00	0.00		
14	0.00	0.00	11.39	63.30	52.30	795.00	349.60	110.00	11.76	15.10	0.40	0.00		
15	0.00	0.00	10.28	44.25	98.50	840.00	260.40	75.20	11.02	16.66	0.12	0.00		
16	0.00	0.00	9.17	35.25	221.90	600.00	178.00	68.80	10.65	25.54	0.00	0.00		
17	0.00	0.00	7.87	43.30	643.50	616.50	199.90	62.20	11.02	19.90	0.00	0.00		
18	0.00	0.00	7.56	38.65	865.60	688.50	178.00	53.40	12.50	16.14	0.00	0.00		
19	0.00	0.00	6.94	32.70	461.00	634.50	142.00	48.05	10.65	13.54	0.00	0.00		
20	0.00	0.00	7.56	55.60	202.10	552.00	115.00	42.35	8.80	12.13	0.00	0.00		
21	0.00	0.00	7.25	111.00	241.20	462.40	101.00	39.50	8.18	10.65	0.00	0.00		
22	0.00	0.00	6.63	124.00	438.60	336.60	89.50	36.95	8.18	9.54	0.00	0.00		
23	0.00	0.00	20.45	100.00	449.80	354.80	68.80	33.55	8.18	7.87	0.00	0.00		
24	0.00	0.00	17.18	78.00	344.40	283.30	64.40	32.70	7.25	7.56	0.00	0.00		
25	0.00	0.00	10.65	67.70	301.50	283.30	63.30	31.00	6.32	6.94	0.00	0.00		
26	0.00	5.45	10.65	50.10	288.50	375.60	139.00	29.44	6.01	5.70	0.00	0.00		
27	0.00	12.50	11.39	40.45	343.10	371.70	206.50	27.10	6.01	4.70	0.00	0.00		
28	0.00	9.54	8.18	36.95	440.00	315.80	165.00	26.32	5.20	3.70	0.00	0.00		
29	0.00	8.18	5.70	29.44	562.50	231.80	137.00	24.76	4.70	3.20		0.00		
30	0.00	7.87	5.20	27.10	466.60	214.20	122.00	22.10	4.45	3.20		0.00		
31		7.56		45.20	387.30		105.00		3.95	2.82		0.00		
Total	0.00	51.13	442.53	2536.96	7934.80	10938.70	5984.70	2065.02	353.63	271.57	26.99	0.00	30606.03	CMSDAY
Mean	0.00	1.65	14.75	81.84	255.96	364.62	193.05	68.83	11.41	8.76	0.96	0.00	83.85	CMS
Max	0.00	12.50	38.65	274.80	865.60	840.00	350.90	155.00	21.00	25.54	3.01	0.00	865.60	CMS
Min	0.00	0.00	5.20	6.32	35.25	107.00	63.30	22.10	3.95	2.82	0.00	0.00	0.00	CMS
Runoff	0.00	4.42	38.23	219.19	685.57	945.10	517.08	178.42	30.55	23.46	2.33	0.00	2644.36	MCM

Momentary Peak 909.80 CMS. at 101.34 m. (MSL.) at 06.00 Hours , on Sep 15, 2016

Runoff Yield 8.14 Liters/Second/Square KM. Momentary Peak Yield 88.290 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham , Phrae (Y.38)

Lat 18 - 15 - 54 N Long 100 - 14 - 28 E

Location : on right bank at the bridge on road.

Ban Mae Kham Mi Tamnak Tham **Amphoe** Nong Muang Khai **Changwat** Phrae

Drainge Area	425 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+170.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 15 meters from the top staff gage. **Elevation** +179.900 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

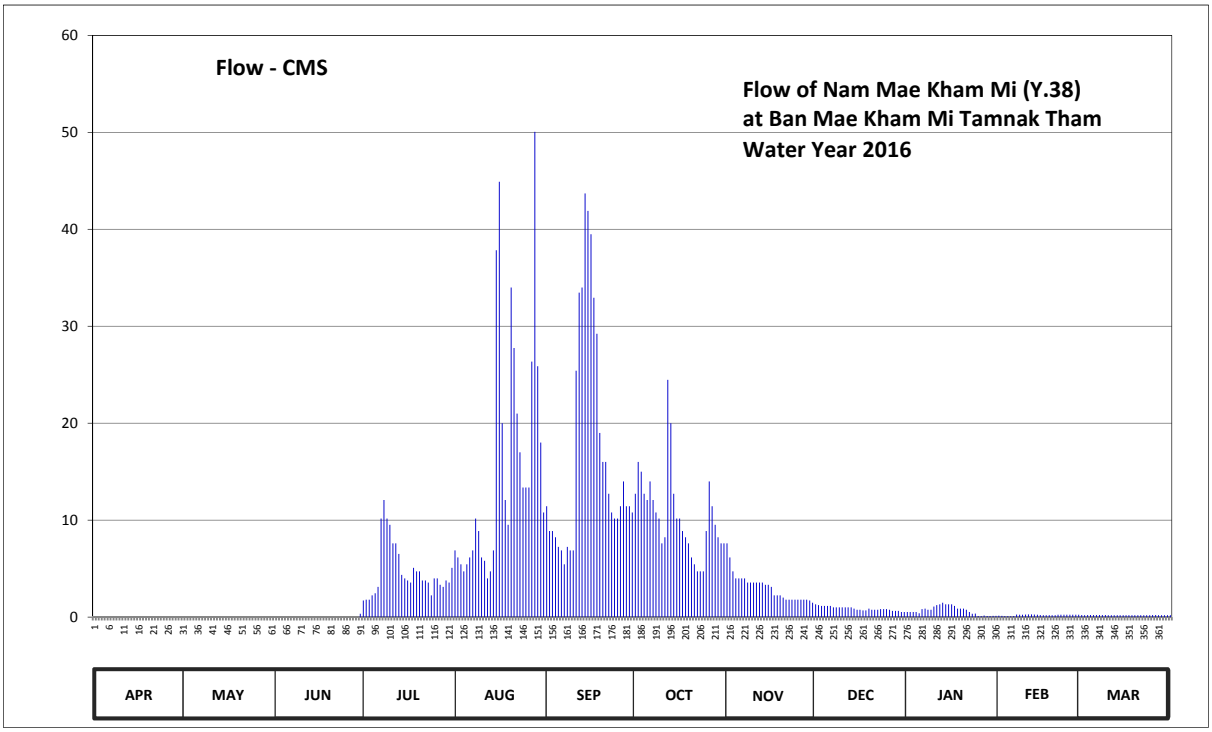
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.26	171.20	171.20	171.49	171.68	171.76	171.78	171.70	171.44	171.32	171.14	171.21	
2	171.26	171.20	171.20	171.50	171.66	171.72	171.82	171.66	171.43	171.32	171.13	171.20	
3	171.26	171.20	171.20	171.50	171.64	171.72	171.81	171.62	171.42	171.32	171.10	171.21	
4	171.26	171.20	171.20	171.52	171.62	171.71	171.78	171.60	171.42	171.32	171.10	171.21	
5	171.26	171.20	171.20	171.53	171.64	171.69	171.77	171.60	171.42	171.30	171.08	171.21	
6	171.26	171.20	171.20	171.56	171.66	171.68	171.80	171.60	171.42	171.37	171.11	171.21	
7	171.26	171.20	171.20	171.74	171.68	171.64	171.77	171.60	171.40	171.38	171.23	171.21	
8	171.26	171.20	171.20	171.77	171.74	171.69	171.75	171.58	171.40	171.36	171.22	171.21	
9	171.26	171.20	171.20	171.74	171.72	171.68	171.74	171.58	171.40	171.36	171.22	171.21	
10	171.26	171.20	171.20	171.73	171.66	171.68	171.70	171.58	171.40	171.41	171.23	171.20	
11	171.25	171.20	171.20	171.70	171.65	171.93	171.71	171.58	171.40	171.43	171.24	171.20	
12	171.25	171.20	171.20	171.70	171.60	172.09	171.91	171.58	171.40	171.44	171.24	171.20	
13	171.25	171.20	171.20	171.67	171.62	172.10	171.86	171.58	171.40	171.46	171.23	171.20	
14	171.25	171.20	171.20	171.61	171.68	172.27	171.78	171.57	171.38	171.44	171.22	171.20	
15	171.25	171.20	171.20	171.60	172.17	172.24	171.74	171.57	171.36	171.44	171.21	171.20	
16	171.25	171.20	171.24	171.59	172.29	172.20	171.74	171.56	171.36	171.44	171.20	171.20	
17	171.24	171.20	171.20	171.58	171.86	172.08	171.72	171.52	171.35	171.42	171.20	171.20	
18	171.25	171.20	171.20	171.63	171.77	172.01	171.71	171.52	171.35	171.38	171.20	171.20	
19	171.26	171.20	171.20	171.62	171.73	171.85	171.70	171.52	171.38	171.38	171.20	171.20	
20	171.24	171.20	171.20	171.62	172.10	171.82	171.66	171.51	171.36	171.38	171.20	171.20	
21	171.20	171.20	171.20	171.59	171.98	171.82	171.64	171.50	171.36	171.36	171.22	171.20	
22	171.20	171.20	171.20	171.59	171.87	171.78	171.62	171.50	171.36	171.32	171.22	171.20	
23	171.20	171.20	171.20	171.58	171.83	171.75	171.62	171.50	171.37	171.27	171.22	171.20	
24	171.20	171.20	171.20	171.52	171.79	171.74	171.62	171.50	171.37	171.28	171.22	171.20	
25	171.20	171.20	171.20	171.60	171.79	171.74	171.72	171.50	171.37	171.11	171.22	171.21	
26	171.20	171.20	171.20	171.60	171.79	171.76	171.80	171.50	171.36	171.10	171.22	171.21	
27	171.20	171.20	171.20	171.57	171.95	171.80	171.76	171.50	171.34	171.17	171.22	171.20	
28	171.20	171.20	171.20	171.56	172.37	171.76	171.73	171.50	171.34	171.11	171.22	171.20	
29	171.20	171.20	171.20	171.59	171.94	171.76	171.71	171.49	171.34	171.12		171.20	
30	171.20	171.20	171.27	171.58	171.84	171.75	171.70	171.46	171.32	171.13		171.20	
31		171.20		171.63	171.75		171.70		171.32	171.13		171.20	
Mean	171.24	171.20	171.20	171.61	171.81	171.84	171.74	171.55	171.38	171.32	171.19	171.20	
Max	171.26	171.20	171.27	171.77	172.37	172.27	171.91	171.70	171.44	171.46	171.24	171.21	172.37
Min	171.20	171.20	171.20	171.49	171.60	171.64	171.62	171.46	171.32	171.10	171.08	171.20	171.08

Annual Max Momentary Gage Height 173.17 m. (MSL.) , at 03.00 Hours , on Aug 28 , 2016

Zero Gage at Bottom Elevation 170.10 m. (MSL.) , River Bed 170.95 m. (MSL.)

Left Bank Elevation 180.09 m. (MSL.) ,

Right Bank Elevation 180.07 m. (MSL.) , Drainage Are 425 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.72	6.88	11.44	12.72	7.60	1.32	0.52	0.14	0.22		
2	0.00	0.00	0.00	1.80	6.16	8.88	16.00	6.16	1.24	0.52	0.13	0.20		
3	0.00	0.00	0.00	1.80	5.44	8.88	15.00	4.72	1.16	0.52	0.10	0.22		
4	0.00	0.00	0.00	2.24	4.72	8.24	12.72	4.00	1.16	0.52	0.10	0.22		
5	0.00	0.00	0.00	2.46	5.44	7.24	12.08	4.00	1.16	0.40	0.08	0.22		
6	0.00	0.00	0.00	3.12	6.16	6.88	14.00	4.00	1.16	0.82	0.11	0.22		
7	0.00	0.00	0.00	10.16	6.88	5.44	12.08	4.00	1.00	0.88	0.26	0.22		
8	0.00	0.00	0.00	12.08	10.16	7.24	10.80	3.56	1.00	0.76	0.24	0.22		
9	0.00	0.00	0.00	10.16	8.88	6.88	10.16	3.56	1.00	0.76	0.24	0.22		
10	0.00	0.00	0.00	9.52	6.16	6.88	7.60	3.56	1.00	1.08	0.26	0.20		
11	0.00	0.00	0.00	7.60	5.80	25.41	8.24	3.56	1.00	1.24	0.28	0.20		
12	0.00	0.00	0.00	7.60	4.00	33.47	24.47	3.56	1.00	1.32	0.28	0.20		
13	0.00	0.00	0.00	6.52	4.72	34.00	20.00	3.56	1.00	1.48	0.26	0.20		
14	0.00	0.00	0.00	4.36	6.88	43.70	12.72	3.34	0.88	1.32	0.24	0.20		
15	0.00	0.00	0.00	4.00	37.85	41.90	10.16	3.34	0.76	1.32	0.22	0.20		
16	0.00	0.00	0.00	3.78	44.90	39.50	10.16	3.12	0.76	1.32	0.20	0.20		
17	0.00	0.00	0.00	3.56	20.00	32.94	8.88	2.24	0.70	1.16	0.20	0.20		
18	0.00	0.00	0.00	5.08	12.08	29.23	8.24	2.24	0.70	0.88	0.20	0.20		
19	0.00	0.00	0.00	4.72	9.52	19.00	7.60	2.24	0.88	0.88	0.20	0.20		
20	0.00	0.00	0.00	4.72	34.00	16.00	6.16	2.02	0.76	0.88	0.20	0.20		
21	0.00	0.00	0.00	3.78	27.76	16.00	5.44	1.80	0.76	0.76	0.24	0.20		
22	0.00	0.00	0.00	3.78	21.00	12.72	4.72	1.80	0.76	0.52	0.24	0.20		
23	0.00	0.00	0.00	3.56	17.00	10.80	4.72	1.80	0.82	0.34	0.24	0.20		
24	0.00	0.00	0.00	2.24	13.36	10.16	4.72	1.80	0.82	0.36	0.24	0.20		
25	0.00	0.00	0.00	4.00	13.36	10.16	8.88	1.80	0.82	0.11	0.24	0.22		
26	0.00	0.00	0.00	4.00	13.36	11.44	14.00	1.80	0.76	0.10	0.24	0.22		
27	0.00	0.00	0.00	3.34	26.35	14.00	11.44	1.80	0.64	0.17	0.24	0.20		
28	0.00	0.00	0.00	3.12	50.05	11.44	9.52	1.80	0.64	0.11	0.24	0.20		
29	0.00	0.00	0.00	3.78	25.88	11.44	8.24	1.72	0.64	0.12		0.20		
30	0.00	0.00	0.34	3.56	18.00	10.80	7.60	1.48	0.52	0.13		0.20		
31		0.00		5.08	10.80		7.60		0.52	0.13		0.20		
Total	0.00	0.00	0.34	147.24	483.55	512.11	326.67	91.98	27.34	21.43	5.86	6.40	1622.92	CMSDAY
Mean	0.00	0.00	0.01	4.75	15.60	17.07	10.54	3.07	0.88	0.69	0.21	0.21	4.45	CMS
Max	0.00	0.00	0.34	12.08	50.05	43.70	24.47	7.60	1.32	1.48	0.28	0.22	50.05	CMS
Min	0.00	0.00	0.00	1.72	4.00	5.44	4.72	1.48	0.52	0.10	0.08	0.20	0.00	CMS
Runoff	0.00	0.00	0.03	12.72	41.78	44.25	28.22	7.95	2.36	1.85	0.51	0.55	140.22	MCM

Momentary Peak 117.00 CMS. at 173.17 m. (MSL.) at 03.00 Hours , on Aug 28 , 2016

Runoff Yield 10.46 Liters/Second/Square KM. Momentary Peak Yield 275.290 Liters/Second/Square KM.

WATER YEAR : 2016

YOM RIVER BASIN

Yom River at Ban Tha Tako , Phichit (Y.42)

Lat 16 - 18 - 40 N Long 100 - 16 - 19 E

Location : on left bank at Ban Tha Tako

Ban Tha Tako **Amphoe** Pho Prathap Chang **Changwat** Phichit

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (A.D.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage observers house. **Elevation** +8.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2011 to date
Rating Operation	
Period of Rating	2011 to date
Rated by Flot	-
Rated by Current Meter	2011 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (A.D.) Water Year April 1, 2016 to March 31, 2017

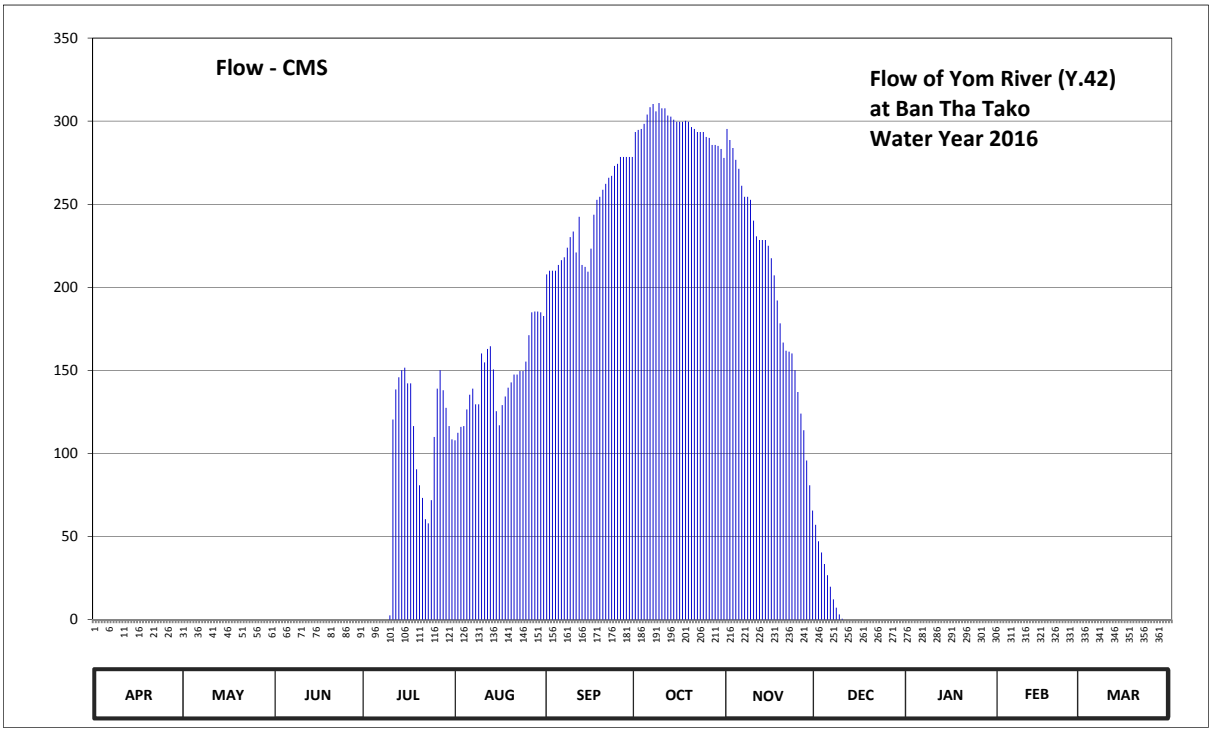
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.07	0.01	0.01	4.33	6.20	7.65	7.68	3.22	1.27	1.20	0.70	
2	0.01	0.10	0.01	0.01	4.42	6.24	7.67	7.57	2.98	1.27	1.01	0.70	
3	0.01	0.10	0.01	0.01	4.49	6.24	7.68	7.49	2.80	1.27	0.84	0.70	
4	0.01	0.10	0.01	0.01	4.50	6.24	7.73	7.37	2.60	1.27	0.80	0.70	
5	0.01	0.10	0.01	0.01	4.70	6.30	7.82	7.28	2.41	1.27	0.80	0.70	
6	0.01	0.10	0.01	0.01	4.87	6.35	7.89	7.11	2.18	1.27	0.80	0.70	
7	0.01	0.10	0.01	0.01	4.94	6.38	7.92	7.00	1.92	1.27	0.80	0.70	
8	0.01	0.10	0.01	0.01	4.76	6.48	7.85	7.00	1.73	1.27	0.80	0.70	
9	0.01	0.10	0.01	0.47	4.76	6.59	7.93	6.97	1.56	1.27	0.80	0.70	
10	0.01	0.10	0.01	1.53	5.34	6.65	7.88	6.76	1.43	1.27	0.80	0.70	
11	0.01	0.10	0.01	4.58	5.24	6.43	7.88	6.60	1.34	1.27	0.80	0.70	
12	0.01	0.10	0.01	4.93	5.39	6.80	7.81	6.56	1.28	1.27	0.80	0.70	
13	0.01	0.10	0.01	5.07	5.42	6.30	7.80	6.56	1.28	1.27	0.80	0.70	
14	0.01	0.10	0.01	5.15	5.16	6.28	7.77	6.56	1.28	1.27	0.80	0.70	
15	0.01	0.10	0.01	5.18	4.68	6.23	7.75	6.50	1.28	1.27	0.80	0.70	
16	0.01	0.10	0.01	5.00	4.51	6.47	7.75	6.37	1.28	1.27	0.80	0.70	
17	0.01	0.10	0.01	5.00	4.75	6.82	7.75	6.19	1.28	1.27	0.80	0.70	
18	0.01	0.10	0.01	4.50	4.85	6.97	7.76	5.92	1.28	1.27	0.80	0.70	
19	0.01	0.10	0.01	3.97	4.95	7.00	7.75	5.67	1.28	1.27	0.80	0.70	
20	0.01	0.10	0.01	3.76	5.01	7.07	7.70	5.46	1.28	1.27	0.80	0.70	
21	0.01	0.10	0.01	3.59	5.10	7.13	7.68	5.37	1.28	1.27	0.80	0.70	
22	0.01	0.10	0.01	3.30	5.10	7.19	7.65	5.36	1.28	1.27	0.80	0.70	
23	0.01	0.10	0.01	3.24	5.14	7.21	7.65	5.34	1.28	1.27	0.80	0.70	
24	0.01	0.10	0.01	3.56	5.14	7.31	7.65	5.15	1.28	1.27	0.80	0.70	
25	0.01	0.10	0.01	4.37	5.25	7.33	7.60	4.90	1.28	1.27	0.80	0.70	
26	0.01	0.10	0.01	4.94	5.54	7.40	7.59	4.65	1.28	1.27	0.80	0.70	
27	0.01	0.10	0.01	5.15	5.79	7.40	7.52	4.45	1.28	1.27	0.80	0.70	
28	0.01	0.10	0.01	4.92	5.80	7.40	7.52	4.08	1.28	1.27	0.80	0.70	
29	0.01	0.10	0.01	4.72	5.80	7.40	7.51	3.76	1.28	1.27		0.70	
30	0.01	0.10	0.01	4.50	5.79	7.40	7.48	3.42	1.28	1.27		0.70	
31		0.10		4.34	5.75		7.39		1.28	1.27		0.70	
Mean	0.01	0.10	0.01	3.09	5.07	6.77	7.71	6.04	1.61	1.27	0.82	0.70	
Max	0.01	0.10	0.01	5.18	5.80	7.40	7.93	7.68	3.22	1.27	1.20	0.70	7.93
Min	0.01	0.07	0.01	0.01	4.33	6.20	7.39	3.42	1.28	1.27	0.80	0.70	0.01

Annual Max Momentary Gage Height 7.96 m. (A.D.) , at 12.00 Hours , on Oct 9 , 2016

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.90 m. (A.D.)

Left Bank Elevation 9.88 m. (A.D.) ,

Right Bank Elevation 10.39 m. (A.D.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	108.00	207.75	293.50	295.30	57.10	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	112.50	210.05	294.70	288.70	47.25	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	116.00	210.05	295.30	283.90	40.50	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	116.50	210.05	298.38	276.70	33.50	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	126.50	213.50	304.00	271.30	26.85	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	135.43	216.38	308.37	261.10	19.90	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	139.10	218.10	310.30	254.50	12.30	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	129.65	223.85	305.87	254.50	7.25	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	129.65	230.18	310.95	252.70	3.20	0.00	0.00	0.00	
10	0.00	0.00	0.00	2.60	160.20	233.63	307.75	240.10	0.60	0.00	0.00	0.00	
11	0.00	0.00	0.00	120.50	154.85	220.98	307.75	230.75	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	138.58	162.95	242.50	303.38	228.45	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	145.92	164.60	213.50	302.75	228.45	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	150.12	150.65	212.35	300.88	228.45	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	151.70	125.50	209.48	299.63	225.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	142.25	117.00	223.28	299.63	217.53	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	142.25	129.13	243.70	299.63	207.18	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	116.50	134.38	252.70	300.25	192.10	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	90.57	139.63	254.50	299.63	178.35	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	80.95	142.77	258.70	296.50	166.80	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	73.30	147.50	262.30	295.30	161.85	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	60.50	147.50	265.90	293.50	161.30	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	57.95	149.60	267.10	293.50	160.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	71.95	149.60	273.10	293.50	150.12	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	110.00	155.37	274.30	290.50	137.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	139.10	171.20	278.50	289.90	124.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	150.12	184.95	278.50	285.70	114.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	138.05	185.50	278.50	285.70	95.80	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	127.55	185.50	278.50	285.10	80.95	0.00	0.00		0.00	
30	0.00	0.00	0.00	116.50	184.95	278.50	283.30	65.65	0.00	0.00		0.00	
31		0.00		108.50	182.75		277.90		0.00	0.00		0.00	
Total	0.00	0.00	0.00	2435.46	4539.41	7240.43	9213.05	6032.73	248.45	0.00	0.00	0.00	29709.53 CMSDAY
Mean	0.00	0.00	0.00	78.56	146.43	241.35	297.20	201.09	8.01	0.00	0.00	0.00	81.40 CMS
Max	0.00	0.00	0.00	151.70	185.50	278.50	310.95	295.30	57.10	0.00	0.00	0.00	310.95 CMS
Min	0.00	0.00	0.00	0.00	108.00	207.75	277.90	65.65	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	210.42	392.21	625.57	796.01	521.23	21.47	0.00	0.00	0.00	2566.90 MCM

Momentary Peak 312.90 CMS. at 7.96 m. (A.D.) at 12.00 Hours , on Oct 9 , 2016

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

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

	Ban Forestry Office	**Amphoe** Mueang	**Changwat** Nan
Drainge Area	4,560 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+192.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On west side of automatic gage building.		**Elevation** +199.868 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1922 - 1956 , 1962 to date		
Rating Operation			
Period of Rating	1954 - 1956 , 1979 to date		
Rated by Flot	-		
Rated by Current Meter	1954 - 1956 , 1979 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

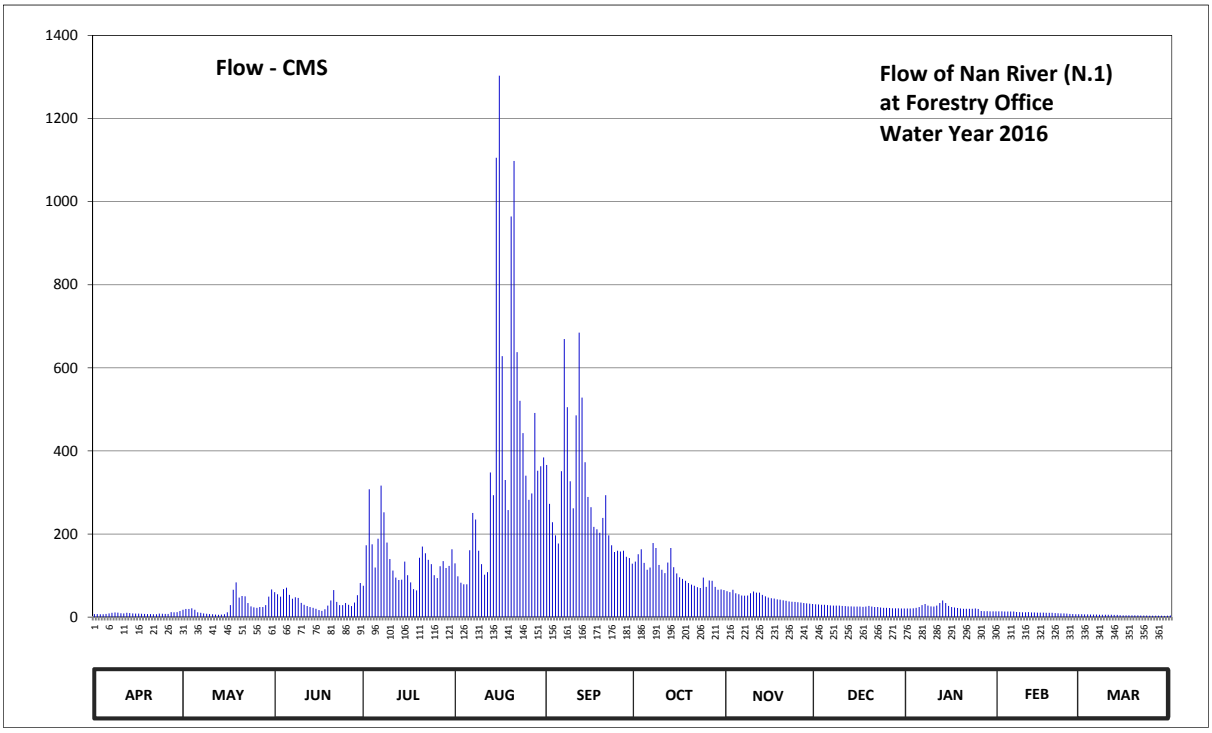
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.99	192.22	192.84	193.02	193.57	195.42	193.61	192.87	192.44	192.27	192.14	191.98	
2	191.99	192.25	192.78	193.98	193.26	194.78	193.78	192.84	192.43	192.27	192.14	191.97	
3	191.98	192.25	192.70	195.03	193.10	194.45	193.89	192.91	192.42	192.28	192.13	191.97	
4	191.98	192.28	192.93	194.00	193.06	194.19	193.58	192.81	192.42	192.30	192.13	191.96	
5	192.00	192.22	192.97	193.47	193.06	194.02	193.42	192.78	192.41	192.33	192.13	191.96	
6	192.03	192.09	192.76	194.12	193.87	195.32	193.47	192.74	192.40	192.41	192.13	191.96	
7	192.06	192.06	192.63	195.09	194.62	197.02	194.03	192.73	192.39	192.45	192.11	191.95	
8	192.08	192.03	192.68	194.63	194.50	196.18	193.92	192.74	192.39	192.39	192.10	191.95	
9	192.07	192.01	192.66	194.04	193.86	195.16	193.53	192.81	192.39	192.36	192.09	191.94	
10	192.04	191.99	192.49	193.67	193.55	194.70	193.42	192.86	192.38	192.35	192.09	191.94	
11	192.03	191.98	192.42	193.40	193.30	196.08	193.34	192.83	192.37	192.39	192.10	191.94	
12	192.06	191.96	192.37	193.23	193.36	197.09	193.59	192.83	192.36	192.48	192.08	191.93	
13	192.05	191.95	192.33	193.17	195.30	196.30	193.92	192.76	192.36	192.57	192.08	191.93	
14	192.03	191.96	192.30	193.18	194.93	195.46	193.48	192.71	192.35	192.48	192.07	191.91	
15	192.02	191.98	192.26	193.61	198.91	194.90	193.33	192.67	192.35	192.38	192.07	191.90	
16	192.02	192.09	192.21	193.29	199.67	194.72	193.24	192.65	192.35	192.33	192.07	191.89	
17	192.01	192.41	192.17	193.11	196.81	194.36	193.20	192.64	192.34	192.31	192.06	191.89	
18	192.00	192.91	192.24	192.93	195.18	194.31	193.15	192.61	192.35	192.29	192.06	191.89	
19	191.99	193.11	192.39	192.89	194.67	194.24	193.09	192.60	192.38	192.27	192.06	191.89	
20	191.99	192.67	192.57	193.70	198.33	194.53	193.05	192.58	192.35	192.26	192.05	191.89	
21	191.98	192.72	192.90	193.95	198.88	194.93	193.02	192.56	192.33	192.26	192.04	191.88	
22	191.98	192.71	192.52	193.80	196.86	194.19	192.98	192.54	192.33	192.26	192.03	191.88	
23	192.02	192.48	192.41	193.65	196.26	193.98	192.96	192.53	192.31	192.26	192.03	191.88	
24	192.01	192.36	192.41	193.55	195.86	193.83	193.23	192.52	192.30	192.27	192.02	191.87	
25	192.00	192.32	192.48	193.29	195.25	193.86	192.99	192.51	192.30	192.25	192.00	191.87	
26	192.00	192.30	192.42	193.22	194.85	193.84	193.16	192.50	192.29	192.16	191.99	191.86	
27	192.10	192.33	192.37	193.50	194.96	193.86	193.15	192.48	192.28	192.15	191.98	191.86	
28	192.09	192.33	192.50	193.62	196.11	193.72	192.99	192.47	192.28	192.15	191.98	191.86	
29	192.10	192.41	192.75	193.46	195.33	193.69	192.91	192.46	192.28	192.14		191.85	
30	192.16	192.70	193.09	193.51	195.40	193.56	192.92	192.45	192.27	192.14		191.86	
31		192.92		193.89	195.53		192.90		192.27	192.14		191.88	
Mean	192.03	192.32	192.55	193.65	195.23	194.76	193.33	192.67	192.35	192.30	192.07	191.91	
Max	192.16	193.11	193.09	195.09	199.67	197.09	194.03	192.91	192.44	192.57	192.14	191.98	199.67
Min	191.98	191.95	192.17	192.89	193.06	193.56	192.90	192.45	192.27	192.14	191.98	191.85	191.85

Annual Max Momentary Gage Height 200.55 m. (MSL.) , at 20.00 Hours , on Aug 15 , 2016

Zero Gage at Bottom Elevation 192.20 m. (MSL.) , River Bed 188.85 m. (MSL.)

Left Bank Elevation 203.92 m. (MSL.) ,

Right Bank Elevation 203.83 m. (MSL.) , Drainage Are 4,560 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.18	17.67	59.90	75.35	129.42	366.30	133.55	62.45	30.94	20.60	13.80	6.86	
2	7.18	19.43	55.04	172.85	98.00	272.75	151.40	59.90	30.26	20.60	13.80	6.54	
3	6.86	19.43	49.20	307.50	82.75	228.50	163.17	65.85	29.57	21.18	13.35	6.54	
4	6.86	21.18	67.55	175.00	79.05	196.85	130.45	57.35	29.57	22.35	13.35	6.22	
5	7.50	17.67	70.95	119.18	79.05	177.30	114.05	55.04	28.89	24.11	13.35	6.22	
6	8.85	11.55	53.58	188.80	161.02	351.00	119.18	52.12	28.20	28.89	13.35	6.22	
7	10.20	10.20	44.09	316.50	250.75	669.40	178.45	51.39	27.62	31.63	12.45	5.90	
8	11.10	8.85	47.74	252.12	235.00	505.10	166.40	52.12	27.62	27.62	12.00	5.90	
9	10.65	7.95	46.28	179.60	159.95	327.00	125.32	57.35	27.62	25.86	11.55	5.58	
10	9.30	7.18	34.37	139.85	127.37	261.75	114.05	61.60	27.03	25.28	11.55	5.58	
11	8.85	6.86	29.57	112.00	102.00	485.60	106.00	59.05	26.45	27.62	12.00	5.58	
12	10.20	6.22	26.45	95.00	108.00	684.80	131.47	59.05	25.86	33.68	11.10	5.26	
13	9.75	5.90	24.11	89.23	348.00	528.50	166.40	53.58	25.86	39.84	11.10	5.26	
14	8.85	6.22	22.35	90.15	293.37	372.90	120.20	49.93	25.28	33.68	10.65	4.62	
15	8.40	6.86	20.01	133.55	1105.60	289.25	105.00	47.01	25.28	27.03	10.65	4.30	
16	8.40	11.55	17.09	101.00	1303.20	264.50	96.00	45.55	25.28	24.11	10.65	4.05	
17	7.95	28.89	15.15	83.68	627.95	217.20	92.00	44.82	24.69	22.94	10.20	4.05	
18	7.50	65.85	18.84	67.55	330.00	211.20	87.38	42.63	25.28	21.77	10.20	4.05	
19	7.18	83.68	27.62	64.15	257.62	202.80	81.83	41.90	27.03	20.60	10.20	4.05	
20	7.18	47.01	39.84	143.00	964.20	238.90	78.13	40.53	25.28	20.01	9.75	4.05	
21	6.86	50.66	65.00	169.62	1097.80	293.37	75.35	39.16	24.11	20.01	9.30	3.80	
22	6.86	49.93	36.42	153.50	637.70	196.85	71.80	37.79	24.11	20.01	8.85	3.80	
23	8.40	33.68	28.89	137.75	520.70	172.85	70.10	37.10	22.94	20.01	8.85	3.80	
24	7.95	25.86	28.89	127.37	442.70	156.72	95.00	36.42	22.35	20.60	8.40	3.55	
25	7.50	23.52	33.68	101.00	340.50	159.95	72.65	35.73	22.35	19.43	7.50	3.55	
26	7.50	22.35	29.57	94.00	282.37	157.80	88.30	35.05	21.77	14.70	7.18	3.30	
27	12.00	24.11	26.45	122.25	297.50	159.95	87.38	33.68	21.18	14.25	6.86	3.30	
28	11.55	24.11	35.05	134.60	491.45	145.10	72.65	33.00	21.18	14.25	6.86	3.30	
29	12.00	28.89	52.85	118.15	352.50	141.95	65.85	32.31	21.18	13.80		3.05	
30	14.70	49.20	81.83	123.27	363.00	128.40	66.70	31.63	20.60	13.80		3.30	
31		66.70		163.17	384.45		65.00		20.60	13.80		3.80	
Total	265.26	809.16	1188.36	4350.74	12052.97	8564.54	3291.21	1411.09	785.98	704.06	298.85	145.38	33867.60 CMSDAY
Mean	8.84	26.10	39.61	140.35	388.81	285.48	106.17	47.04	25.35	22.71	10.67	4.69	92.79 CMS
Max	14.70	83.68	81.83	316.50	1303.20	684.80	178.45	65.85	30.94	39.84	13.80	6.86	1303.20 CMS
Min	6.86	5.90	15.15	64.15	79.05	128.40	65.00	31.63	20.60	13.80	6.86	3.05	3.05 CMS
Runoff	22.92	69.91	102.67	375.90	1041.38	739.98	284.36	121.92	67.91	60.83	25.82	12.56	2926.16 MCM

Momentary Peak 1535.50 CMS. at 200.55 m. (MSL.) at 20.00 Hours , on Aug 15 , 2016

Runoff Yield 20.35 Liters/Second/Square KM. Momentary Peak Yield 336.730 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Nai Mueang , Uttaradit (N.2B)

Lat 17 - 36 - 30 N Long 100 - 06 - 08 E

Location : on right bank at Mueang, Uttaradit.

	Ban Nai Mueang	**Amphoe** Mueang	**Changwat** Uttaradit
Drainge Area	16,865 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+52.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+63.138 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 52 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

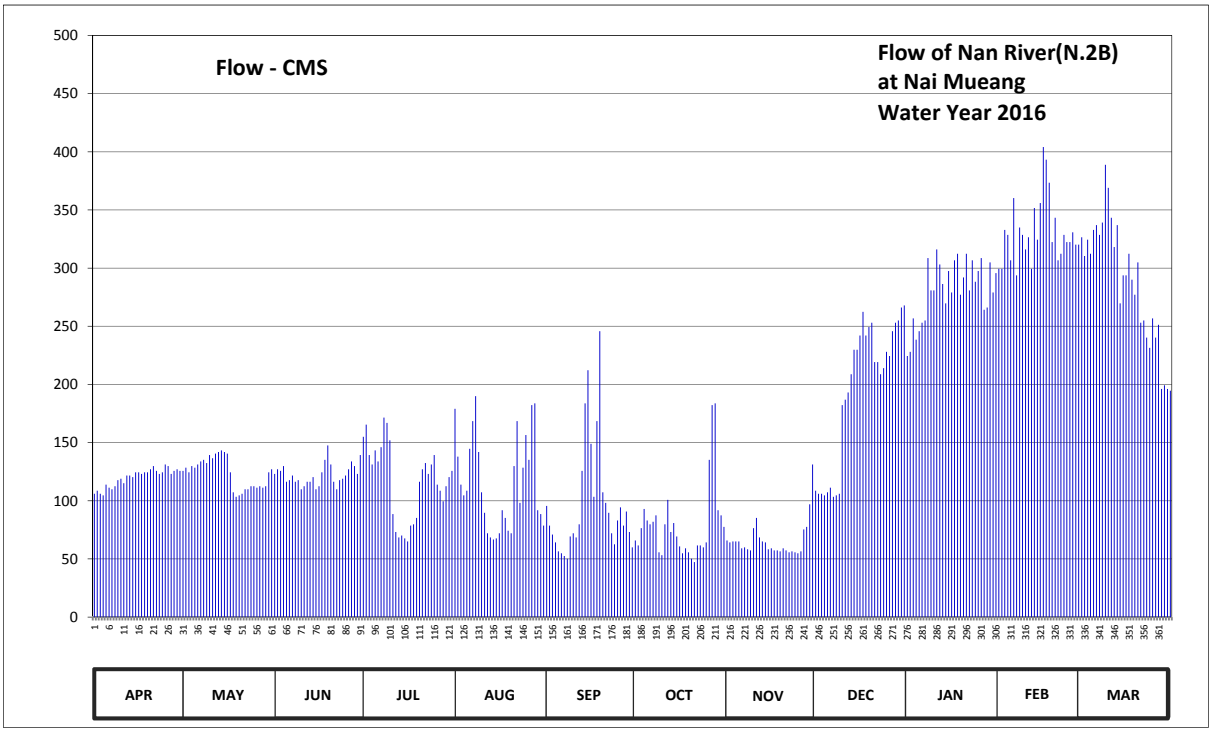
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.90	53.05	53.03	53.26	53.42	52.82	52.54	52.54	52.92	53.70	54.11	54.25	
2	52.92	53.07	53.06	53.33	53.14	52.67	52.49	52.52	52.90	53.72	54.11	54.17	
3	52.90	53.04	53.05	53.15	52.96	52.60	52.65	52.53	52.90	53.88	54.28	54.24	
4	52.89	53.08	53.08	53.09	52.89	52.52	52.80	52.53	52.89	53.78	54.26	54.18	
5	52.96	53.07	52.98	53.18	52.92	52.43	52.71	52.53	52.91	53.82	54.15	54.28	
6	52.94	53.09	52.99	53.11	53.19	52.41	52.68	52.46	52.94	53.86	54.41	54.30	
7	52.93	53.11	53.02	53.20	53.35	52.38	52.70	52.47	52.88	53.87	54.08	54.26	
8	52.95	53.12	52.98	53.37	53.49	52.35	52.75	52.45	52.89	54.16	54.29	54.31	
9	52.99	53.10	52.99	53.34	53.17	52.58	52.42	52.44	52.90	54.01	54.26	54.54	
10	53.00	53.15	52.93	53.24	52.91	52.61	52.39	52.65	53.44	54.01	54.20	54.45	
11	52.97	53.13	52.95	52.76	52.77	52.57	52.68	52.73	53.47	54.20	54.25	54.33	
12	53.02	53.16	52.98	52.62	52.61	52.68	52.86	52.57	53.51	54.13	54.11	54.21	
13	53.02	53.17	52.98	52.57	52.57	53.05	52.62	52.53	53.61	54.04	54.37	54.30	
14	53.01	53.18	53.01	52.59	52.55	53.45	52.69	52.52	53.73	53.95	54.24	53.95	
15	53.04	53.17	52.93	52.56	52.56	53.63	52.58	52.45	53.73	54.10	54.39	54.08	
16	53.04	53.16	52.95	52.53	52.61	53.22	52.48	52.46	53.80	54.00	54.61	54.08	
17	53.03	53.04	53.04	52.67	52.79	52.88	52.41	52.44	53.91	54.15	54.56	54.18	
18	53.04	52.91	53.12	52.68	52.73	53.35	52.46	52.44	53.80	54.18	54.47	54.06	
19	53.04	52.88	53.21	52.73	52.63	53.82	52.42	52.43	53.84	53.99	54.23	53.99	
20	53.06	52.89	53.09	52.98	52.61	52.91	52.35	52.46	53.86	54.07	54.33	54.14	
21	53.08	52.90	52.98	53.06	53.08	52.84	52.31	52.44	53.67	54.18	54.15	53.86	
22	53.05	52.93	52.93	53.10	53.35	52.77	52.49	52.42	53.67	54.01	54.18	53.87	
23	53.03	52.93	52.99	53.03	52.84	52.61	52.49	52.43	53.61	54.15	54.26	53.79	
24	53.04	52.95	53.00	53.09	53.07	52.50	52.47	52.42	53.64	54.05	54.23	53.74	
25	53.09	52.95	53.02	53.15	53.27	52.71	52.52	52.41	53.72	54.10	54.23	53.88	
26	53.08	52.94	53.06	52.96	53.12	52.81	53.12	52.43	53.70	54.16	54.27	53.79	
27	53.03	52.95	53.11	52.92	53.44	52.67	53.44	52.64	53.82	53.92	54.22	53.85	
28	53.05	52.94	53.08	52.85	53.45	52.78	53.45	52.66	53.86	53.93	54.22	53.53	
29	53.06	52.95	53.03	52.95	52.79	52.62	52.79	52.83	53.87	54.14		53.55	
30	53.05	53.04	53.15	53.01	52.76	52.47	52.75	53.09	53.93	54.00		53.53	
31		53.06		53.05	52.67		52.66		53.94	54.09		53.52	
Mean	53.01	53.04	53.02	52.97	52.96	52.79	52.65	52.53	53.49	54.01	54.27	54.04	
Max	53.09	53.18	53.21	53.37	53.49	53.82	53.45	53.09	53.94	54.20	54.61	54.54	54.61
Min	52.89	52.88	52.93	52.53	52.55	52.35	52.31	52.41	52.88	53.70	54.08	53.52	52.31

Annual Max Momentary Gage Height 55.25 m. (MSL.) , at 06.00 Hours , on Feb 18 , 2017

Zero Gage at Bottom Elevation 52.30 m. (MSL.) , River Bed 50.23 m. (MSL.)

Left Bank Elevation 63.64 m. (MSL.) ,

Right Bank Elevation 64.96 m. (MSL.) , Drainage Are 16,865 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.00	125.75	123.05	155.00	179.10	95.60	65.90	65.90	108.60	224.50	299.35	326.50	
2	108.60	128.45	127.10	165.50	137.90	78.70	61.65	64.20	106.00	228.00	299.35	310.45	
3	106.00	124.40	125.75	139.25	113.80	71.00	76.50	65.05	106.00	256.80	332.80	324.40	
4	104.70	129.80	129.80	131.15	104.70	64.20	93.00	65.05	104.70	238.50	328.60	312.30	
5	113.80	128.45	116.40	143.30	108.60	56.55	83.10	65.05	107.30	245.70	306.75	332.80	
6	111.20	131.15	117.70	133.85	144.65	54.85	79.80	59.10	111.20	253.10	360.20	337.00	
7	109.90	133.85	121.70	146.00	168.50	52.50	82.00	59.95	103.40	254.95	293.80	328.60	
8	112.50	135.20	116.40	171.50	189.95	50.25	87.50	58.25	104.70	308.60	334.90	339.10	
9	117.70	132.50	117.70	167.00	141.95	69.30	55.70	57.40	106.00	280.85	328.60	388.80	
10	119.00	139.25	109.90	152.00	107.30	72.10	53.25	76.50	182.20	280.85	316.00	369.00	
11	115.10	136.55	112.50	88.60	89.70	68.45	79.80	85.30	186.85	316.00	326.50	343.30	
12	121.70	140.60	116.40	73.20	72.10	79.80	100.80	68.45	193.05	303.05	299.35	318.10	
13	121.70	141.95	116.40	68.45	68.45	125.75	73.20	65.05	208.75	286.40	351.70	337.00	
14	120.35	143.30	120.35	70.15	66.75	183.75	80.90	64.20	229.75	269.75	324.40	269.75	
15	124.40	141.95	109.90	67.60	67.60	212.25	69.30	58.25	229.75	297.50	355.90	293.80	
16	124.40	140.60	112.50	65.05	72.10	149.00	60.80	59.10	242.00	279.00	404.10	293.80	
17	123.05	124.40	124.40	78.70	91.90	103.40	54.85	57.40	262.35	306.75	393.20	312.30	
18	124.40	107.30	135.20	79.80	85.30	168.50	59.10	57.40	242.00	312.30	373.40	290.10	
19	124.40	103.40	147.50	85.30	74.30	245.70	55.70	56.55	249.40	277.15	322.30	277.15	
20	127.10	104.70	131.15	116.40	72.10	107.30	50.25	59.10	253.10	291.95	343.30	304.90	
21	129.80	106.00	116.40	127.10	129.80	98.20	47.25	57.40	219.25	312.30	306.75	253.10	
22	125.75	109.90	109.90	132.50	168.50	89.70	61.65	55.70	219.25	280.85	312.30	254.95	
23	123.05	109.90	117.70	123.05	98.20	72.10	61.65	56.55	208.75	306.75	328.60	240.25	
24	124.40	112.50	119.00	131.15	128.45	62.50	59.95	55.70	214.00	288.25	322.30	231.50	
25	131.15	112.50	121.70	139.25	156.50	83.10	64.20	54.85	228.00	297.50	322.30	256.80	
26	129.80	111.20	127.10	113.80	135.20	94.30	135.20	56.55	224.50	308.60	330.70	240.25	
27	123.05	112.50	133.85	108.60	182.20	78.70	182.20	75.40	245.70	264.20	320.20	251.25	
28	125.75	111.20	129.80	99.50	183.75	90.80	183.75	77.60	253.10	266.05	320.20	196.15	
29	127.10	112.50	123.05	112.50	91.90	73.20	91.90	96.90	254.95	304.90		199.25	
30	125.75	124.40	139.25	120.35	88.60	59.95	87.50	131.15	266.05	279.00		196.15	
31		127.10		125.75	78.70		77.60		267.90	295.65		194.60	
Total	3601.60	3843.25	3669.55	3631.35	3598.55	2911.50	2475.95	1985.05	6038.55	8715.75	9257.85	8923.40	58652.35 CMSDAY
Mean	120.05	123.98	122.32	117.14	116.08	97.05	79.87	66.17	194.79	281.15	330.64	287.85	160.69 CMS
Max	131.15	143.30	147.50	171.50	189.95	245.70	183.75	131.15	267.90	316.00	404.10	388.80	404.10 CMS
Min	104.70	103.40	109.90	65.05	66.75	50.25	47.25	54.85	103.40	224.50	293.80	194.60	47.25 CMS
Runoff	311.18	332.06	317.05	313.75	310.91	251.55	213.92	171.51	521.73	753.04	799.88	770.98	5067.56 MCM

Momentary Peak 566.50 CMS. at 55.25 m. (MSL.) at 06.00 Hours , on Feb 18 , 2017

Runoff Yield 9.53 Liters/Second/Square KM. Momentary Peak Yield 33.590 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

Ban Nai Mueang **Amphoe** Mueang **Changwat** Phitsanulok

Drainge Area	25,039 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+34.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** +44.800 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1963 to date
Rating Operation	
Period of Rating	1966 to date
Rated by Flot	-
Rated by Current Meter	1966 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 45 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

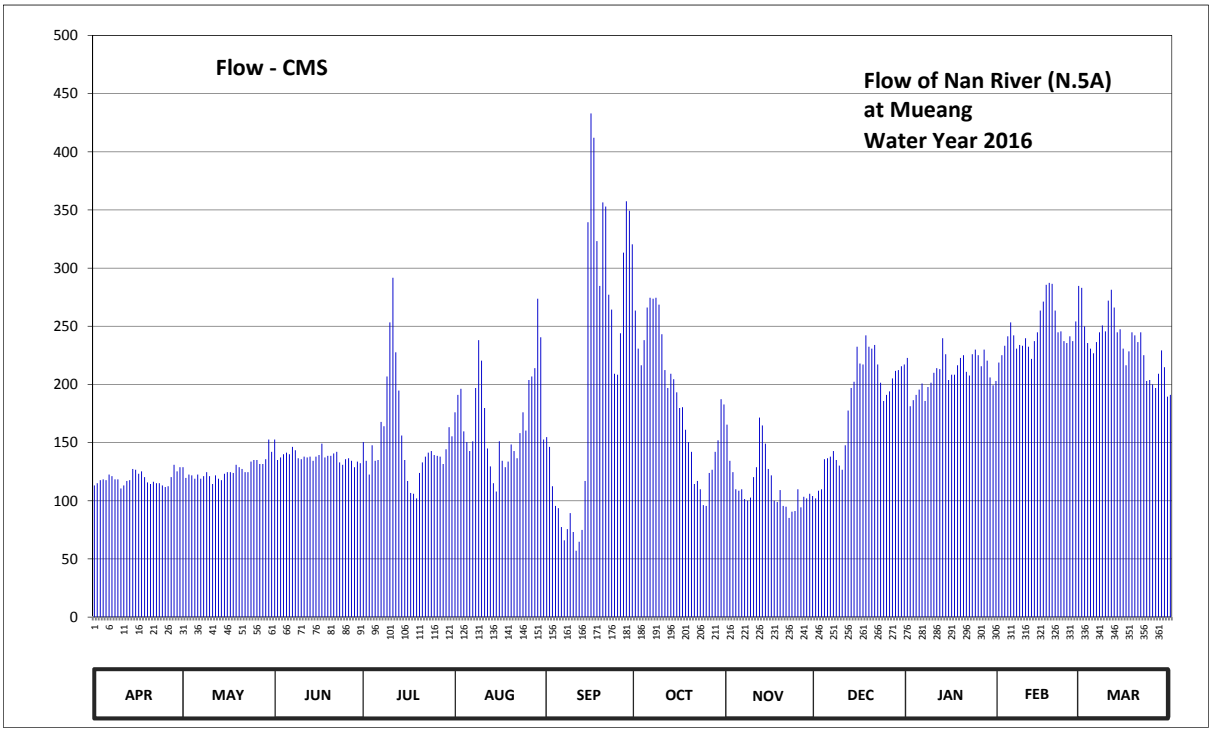
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.71	35.94	36.28	36.25	36.60	36.31	37.70	36.46	35.54	37.21	37.16	37.93	
2	35.74	35.81	36.03	36.02	36.80	36.19	37.31	36.02	35.64	36.67	37.24	37.54	
3	35.78	35.85	36.06	35.85	36.87	35.70	37.13	35.88	35.66	36.74	37.34	37.37	
4	35.79	35.84	36.10	36.21	36.38	35.44	37.40	35.66	36.04	36.80	37.44	37.31	
5	35.78	35.80	36.12	36.02	36.25	35.41	37.73	35.64	36.05	36.86	37.58	37.26	
6	35.85	35.85	36.10	36.03	36.14	35.14	37.83	35.66	36.07	36.93	37.45	37.38	
7	35.83	35.80	36.19	36.49	36.26	34.95	37.82	35.53	36.14	36.73	37.31	37.48	
8	35.79	35.83	36.15	36.44	36.88	35.11	37.83	35.51	36.03	36.89	37.35	37.55	
9	35.79	35.88	36.05	37.01	37.40	35.34	37.76	35.55	35.96	36.94	37.34	37.49	
10	35.67	35.83	36.04	37.58	37.18	35.07	37.46	35.82	35.91	37.05	37.42	37.80	
11	35.71	35.73	36.07	38.03	36.65	34.80	37.08	35.94	36.21	37.10	37.33	37.91	
12	35.77	35.84	36.06	37.27	36.17	34.93	36.88	36.54	36.62	37.09	37.20	37.73	
13	35.78	35.80	36.07	36.85	35.95	35.10	37.04	36.45	36.88	37.42	37.39	37.48	
14	35.92	35.78	36.02	36.33	35.74	35.77	36.98	36.23	36.95	37.25	37.48	37.51	
15	35.91	35.86	36.07	36.03	35.63	38.56	36.83	35.92	37.33	36.97	37.70	37.31	
16	35.86	35.88	36.09	35.77	36.26	39.53	36.65	35.84	37.15	37.03	37.79	37.13	
17	35.89	35.88	36.23	35.61	36.02	39.32	36.66	35.51	37.14	37.03	37.96	37.28	
18	35.82	35.87	36.06	35.60	35.94	38.38	36.40	35.49	37.45	37.13	37.98	37.48	
19	35.75	35.97	36.08	35.54	36.01	37.95	36.25	35.65	37.33	37.21	37.97	37.45	
20	35.73	35.94	36.08	35.87	36.22	38.75	36.13	35.44	37.31	37.24	37.70	37.38	
21	35.76	35.92	36.11	36.00	36.14	38.71	35.73	35.43	37.35	37.06	37.48	37.48	
22	35.74	35.88	36.13	36.07	36.05	37.86	35.77	35.27	37.14	37.02	37.49	37.24	
23	35.74	35.88	36.00	36.12	36.36	37.71	35.66	35.36	36.94	37.25	37.39	36.96	
24	35.71	36.01	35.97	36.14	36.60	37.04	35.45	35.37	36.73	37.30	37.37	36.97	
25	35.69	36.03	36.04	36.09	36.39	37.03	35.44	35.66	36.80	37.24	37.44	36.92	
26	35.70	36.03	36.05	36.08	36.97	37.47	35.87	35.42	36.84	37.12	37.39	36.88	
27	35.82	35.98	36.02	36.07	37.01	38.27	35.91	35.56	36.99	37.30	37.59	37.04	
28	35.97	35.98	35.94	35.98	37.10	38.76	36.13	35.54	37.07	37.18	37.95	37.29	
29	35.89	36.04	36.01	36.16	37.82	38.67	36.27	35.60	37.08	37.00		37.11	
30	35.94	36.28	35.99	36.43	37.43	38.35	36.75	35.57	37.12	36.91		36.78	
31		36.13		36.32	36.28		36.69		37.14	36.96		36.80	
Mean	35.79	35.91	36.07	36.27	36.50	36.92	36.73	35.72	36.66	37.05	37.51	37.33	
Max	35.97	36.28	36.28	38.03	37.82	39.53	37.83	36.54	37.45	37.42	37.98	37.93	39.53
Min	35.67	35.73	35.94	35.54	35.63	34.80	35.44	35.27	35.54	36.67	37.16	36.78	34.80

Annual Max Momentary Gage Height 39.61 m. (MSL.) , at 15.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 34.50 m. (MSL.) , River Bed 32.50 m. (MSL.)

Left Bank Elevation 44.87 m. (MSL.) ,

Right Bank Elevation 45.09 m. (MSL.) , Drainage Are 25,039 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	113.15	128.80	152.60	150.50	176.00	154.70	263.50	165.50	102.10	222.80	218.80	283.05	
2	115.10	119.70	135.10	134.40	191.00	146.30	230.80	134.40	108.60	181.25	225.20	249.90	
3	117.70	122.50	137.20	122.50	196.25	112.50	216.40	124.60	109.90	186.50	233.20	235.60	
4	118.35	121.80	140.00	147.70	159.60	95.60	238.00	109.90	135.80	191.00	241.40	230.80	
5	117.70	119.00	141.40	134.40	150.50	93.65	266.05	108.60	136.50	195.50	253.30	226.80	
6	122.50	122.50	140.00	135.10	142.80	77.40	274.55	109.90	137.90	200.75	242.25	236.40	
7	121.10	119.00	146.30	167.75	151.20	66.00	273.70	101.45	142.80	185.75	230.80	244.80	
8	118.35	121.10	143.50	164.00	197.00	75.60	274.55	100.15	135.10	197.75	234.00	250.75	
9	118.35	124.60	136.50	206.80	238.00	89.40	268.60	102.75	130.20	201.50	233.20	245.65	
10	110.55	121.10	135.80	253.30	220.40	73.20	243.10	120.40	126.70	210.00	239.70	272.00	
11	113.15	114.45	137.90	291.70	179.75	57.00	212.40	128.80	147.70	214.00	232.40	281.35	
12	117.05	121.80	137.20	227.60	144.90	64.80	197.00	171.50	177.50	213.20	222.00	266.05	
13	117.70	119.00	137.90	194.75	129.50	75.00	209.20	164.75	197.00	239.70	237.20	244.80	
14	127.40	117.70	134.40	156.10	115.10	117.05	204.50	149.10	202.25	226.00	244.80	247.35	
15	126.70	123.20	137.90	135.10	107.95	339.40	193.25	127.40	232.40	203.75	263.50	230.80	
16	123.20	124.60	139.30	117.05	151.20	433.00	179.75	121.80	218.00	208.40	271.15	216.40	
17	125.30	124.60	149.10	106.65	134.40	412.00	180.50	100.15	217.20	208.40	285.60	228.40	
18	120.40	123.90	137.20	106.00	128.80	323.20	161.00	98.85	242.25	216.40	287.30	244.80	
19	115.75	130.90	138.60	102.10	133.70	284.75	150.50	109.25	232.40	222.80	286.45	242.25	
20	114.45	128.80	138.60	123.90	148.40	356.50	142.10	95.60	230.80	225.20	263.50	236.40	
21	116.40	127.40	140.70	133.00	142.80	352.90	114.45	94.95	234.00	210.80	244.80	244.80	
22	115.10	124.60	142.10	137.90	136.50	277.10	117.05	85.20	217.20	207.60	245.65	225.20	
23	115.10	124.60	133.00	141.40	158.20	264.35	109.90	90.60	201.50	226.00	237.20	203.00	
24	113.15	133.70	130.90	142.80	176.00	209.20	96.25	91.20	185.75	230.00	235.60	203.75	
25	111.85	135.10	135.80	139.30	160.30	208.40	95.60	109.90	191.00	225.20	241.40	200.00	
26	112.50	135.10	136.50	138.60	203.75	243.95	123.90	94.30	194.00	215.60	237.20	197.00	
27	120.40	131.60	134.40	137.90	206.80	313.30	126.70	103.40	205.25	230.00	254.15	209.20	
28	130.90	131.60	128.80	131.60	214.00	357.40	142.10	102.10	211.60	220.40	284.75	229.20	
29	125.30	135.80	133.70	144.20	273.70	349.30	151.90	106.00	212.40	206.00		214.80	
30	128.80	152.60	132.30	163.25	240.55	320.50	187.25	104.05	215.60	199.25		189.50	
31		142.10		155.40	152.60		182.75		217.20	203.00		191.00	
Total	3563.45	3923.25	4144.70	4742.75	5261.65	6343.45	5827.30	3426.55	5648.60	6524.50	6926.50	7221.80	63554.50	CMSDAY
Mean	118.78	126.56	138.16	152.99	169.73	211.45	187.98	114.22	182.21	210.47	247.37	232.96	174.12	CMS
Max	130.90	152.60	152.60	291.70	273.70	433.00	274.55	171.50	242.25	239.70	287.30	283.05	433.00	CMS
Min	110.55	114.45	128.80	102.10	107.95	57.00	95.60	85.20	102.10	181.25	218.80	189.50	57.00	CMS
Runoff	307.88	338.97	358.10	409.77	454.61	548.07	503.48	296.05	488.04	563.72	598.45	623.96	5491.11	MCM

Momentary Peak 441.05 CMS. at 39.61 m. (MSL.) at 15.00 Hours , on Sep 16 , 2016

Runoff Yield 6.95 Liters/Second/Square KM. Momentary Peak Yield 17.610 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Rat Chang Khwan , Phichit (N.7A)

Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

Ban Rat Chang Khwan **Amphoe** Mueang **Changwat** Phichit

Drainge Area	27,897 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+26.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of Phichit Phitthaya Khom School. **Elevation** +37.143 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam.
	Stage-discharge relation defined by 46 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

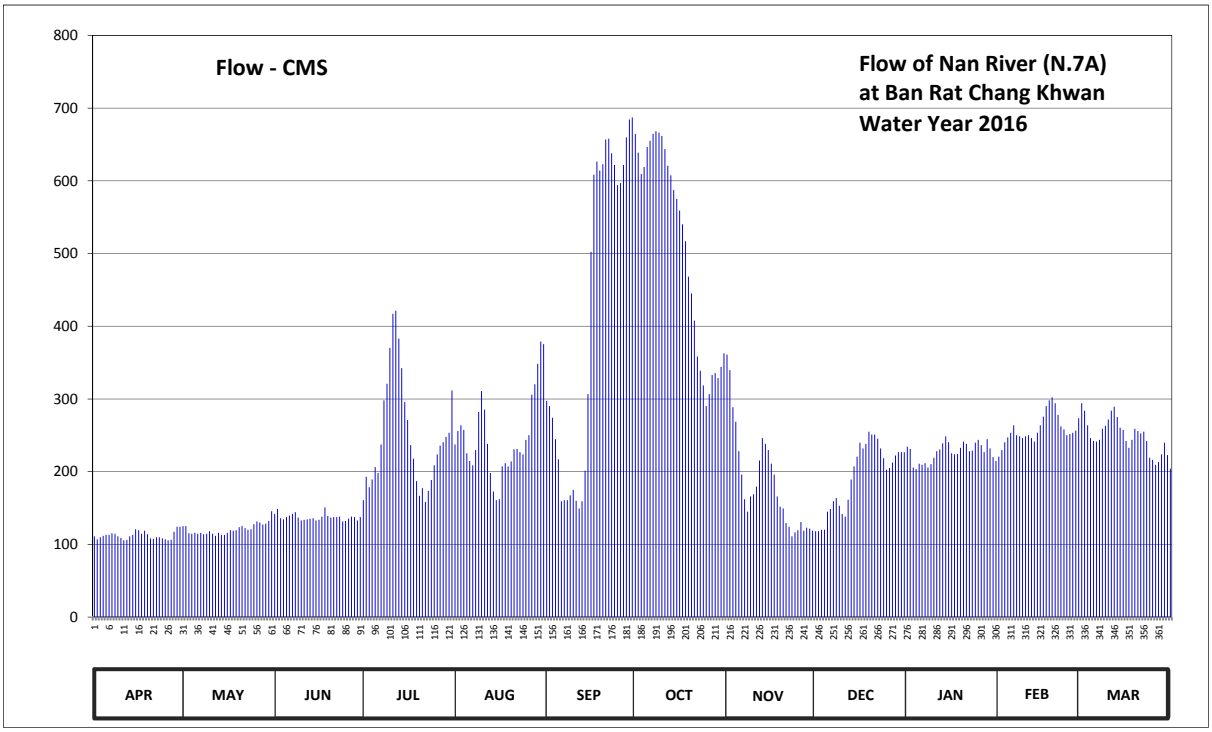
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.53	27.73	27.96	28.21	29.23	29.98	34.10	30.73	27.63	29.19	29.01	29.94	
2	27.47	27.73	28.05	28.64	29.46	29.89	33.83	30.48	27.63	29.15	29.13	29.81	
3	27.51	27.59	27.88	28.45	29.56	29.69	33.52	29.87	27.66	28.81	29.27	29.56	
4	27.54	27.58	27.86	28.59	29.48	29.32	33.62	29.62	27.66	28.78	29.35	29.34	
5	27.56	27.60	27.90	28.82	29.07	28.96	33.91	29.11	28.00	28.88	29.43	29.29	
6	27.56	27.58	27.93	28.71	28.93	28.19	34.00	28.68	28.05	28.86	29.56	29.28	
7	27.59	27.60	27.96	29.23	28.85	28.21	34.10	28.23	28.19	28.89	29.39	29.31	
8	27.58	27.57	27.99	29.99	29.13	28.21	34.14	28.00	28.25	28.81	29.37	29.50	
9	27.53	27.58	27.89	30.26	29.79	28.30	34.12	28.28	28.11	28.87	29.34	29.55	
10	27.50	27.63	27.84	30.84	30.14	28.40	34.07	28.32	27.96	28.99	29.37	29.66	
11	27.45	27.58	27.85	31.39	29.83	28.20	33.88	28.46	27.91	29.11	29.39	29.81	
12	27.46	27.54	27.86	31.44	29.24	28.06	33.64	28.94	28.22	29.14	29.34	29.88	
13	27.53	27.60	27.87	30.99	28.71	28.19	33.50	29.34	28.59	29.25	29.28	29.70	
14	27.56	27.56	27.88	30.51	28.37	28.75	33.29	29.24	28.83	29.37	29.43	29.52	
15	27.67	27.56	27.84	29.96	28.21	30.09	33.16	29.13	29.01	29.27	29.56	29.48	
16	27.65	27.60	27.85	29.65	28.23	32.36	32.99	28.88	29.26	29.07	29.71	29.29	
17	27.58	27.65	27.91	29.22	28.83	33.51	32.78	28.68	29.16	29.05	29.89	29.17	
18	27.64	27.64	28.08	28.97	28.89	33.70	32.52	28.28	29.24	29.06	29.99	29.31	
19	27.57	27.65	27.92	28.56	28.83	33.57	31.98	28.09	29.45	29.17	30.04	29.50	
20	27.49	27.71	27.89	28.29	28.92	33.66	31.72	28.06	29.40	29.28	29.94	29.46	
21	27.48	27.73	27.90	28.43	29.14	34.02	31.28	27.79	29.40	29.24	29.74	29.42	
22	27.51	27.69	27.90	28.18	29.15	34.03	30.70	27.72	29.33	29.11	29.54	29.45	
23	27.51	27.66	27.91	28.38	29.09	33.82	30.47	27.53	29.16	29.12	29.49	29.29	
24	27.49	27.67	27.82	28.58	29.05	33.65	30.23	27.61	28.98	29.26	29.39	28.99	
25	27.47	27.77	27.83	28.85	29.31	33.36	29.89	27.65	28.77	29.31	29.41	28.95	
26	27.45	27.82	27.87	29.05	29.39	33.39	30.09	27.81	28.80	29.22	29.43	28.86	
27	27.46	27.80	27.91	29.21	30.08	33.65	30.40	27.64	28.90	29.09	29.47	28.91	
28	27.62	27.76	27.90	29.27	30.25	34.05	30.43	27.70	29.03	29.32	29.68	29.05	
29	27.72	27.78	27.84	29.36	30.58	34.31	30.35	27.68	29.09	29.16		29.26	
30	27.72	27.83	27.90	29.43	30.94	34.34	30.53	27.64	29.09	29.00		29.04	
31		28.01		30.15	30.90		30.75		29.09	28.93		28.79	
Mean	27.55	27.67	27.90	29.34	29.34	31.26	32.39	28.51	28.64	29.09	29.50	29.37	
Max	27.72	28.01	28.08	31.44	30.94	34.34	34.14	30.73	29.45	29.37	30.04	29.94	34.34
Min	27.45	27.54	27.82	28.18	28.21	28.06	29.89	27.53	27.63	28.78	29.01	28.79	27.45

Annual Max Momentary Gage Height 34.36 m. (MSL.) , at 18.00 Hours , on Sep 29 , 2016

Zero Gage at Bottom Elevation 26.00 m. (MSL.) , River Bed 23.45 m. (MSL.)

Left Bank Elevation 37.18 m. (MSL.) ,

Right Bank Elevation 37.54 m. (MSL.) , Drainage Are 27,897 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	111.10	125.10	142.00	160.75	237.40	297.40	664.50	361.05	118.10	234.25	220.75	294.20	
2	106.90	125.10	148.75	193.00	255.80	290.20	638.85	339.80	118.10	231.25	229.75	283.80	
3	109.70	115.30	136.00	178.75	263.80	274.20	609.40	288.60	120.20	205.75	240.60	263.80	
4	111.80	114.60	134.50	189.25	257.40	244.60	618.90	268.60	120.20	203.50	247.00	246.20	
5	113.20	116.00	137.50	206.50	225.25	217.00	646.45	228.25	145.00	211.00	253.40	242.20	
6	113.20	114.60	139.75	198.25	214.75	159.25	655.00	196.00	148.75	209.50	263.80	241.40	
7	115.30	116.00	142.00	237.40	208.75	160.75	664.50	162.25	159.25	211.75	250.20	243.80	
8	114.60	113.90	144.25	298.20	229.75	160.75	668.30	145.00	163.75	205.75	248.60	259.00	
9	111.10	114.60	136.75	321.10	282.20	167.50	666.40	166.00	153.25	210.25	246.20	263.00	
10	109.00	118.10	133.00	370.40	310.90	175.00	661.65	169.00	142.00	219.25	248.60	271.80	
11	105.50	114.60	133.75	417.15	285.40	160.00	643.60	179.50	138.25	228.25	250.20	283.80	
12	106.20	111.80	134.50	421.40	238.20	149.50	620.80	215.50	161.50	230.50	246.20	289.40	
13	111.10	116.00	135.25	383.15	198.25	159.25	607.50	246.20	189.25	239.00	241.40	275.00	
14	113.20	113.20	136.00	342.35	172.75	201.25	587.55	238.20	207.25	248.60	253.40	260.60	
15	120.90	113.20	133.00	295.80	160.75	306.65	575.20	229.75	220.75	240.60	263.80	257.40	
16	119.50	116.00	133.75	271.00	162.25	502.40	559.10	211.00	239.80	225.25	275.80	242.20	
17	114.60	119.50	138.25	236.60	207.25	608.45	540.20	196.00	232.00	223.75	290.20	232.75	
18	118.80	118.80	151.00	217.75	211.75	626.50	516.80	166.00	238.20	224.50	298.20	243.80	
19	113.90	119.50	139.00	187.00	207.25	614.15	468.20	151.75	255.00	232.75	302.40	259.00	
20	108.30	123.70	136.75	166.75	214.00	622.70	445.20	149.50	251.00	241.40	294.20	255.80	
21	107.60	125.10	137.50	177.25	230.50	656.90	407.80	129.30	251.00	238.20	278.20	252.60	
22	109.70	122.30	137.50	158.50	231.25	657.85	358.50	124.40	245.40	228.25	262.20	255.00	
23	109.70	120.20	138.25	173.50	226.75	637.90	338.95	111.10	232.00	229.00	258.20	242.20	
24	108.30	120.90	131.50	188.50	223.75	621.75	318.55	116.70	218.50	239.80	250.20	219.25	
25	106.90	127.90	132.25	208.75	243.80	594.20	290.20	119.50	202.75	243.80	251.80	216.25	
26	105.50	131.50	135.25	223.75	250.20	597.05	306.65	130.75	205.00	236.60	253.40	209.50	
27	106.20	130.00	138.25	235.80	305.80	621.75	333.00	118.80	212.50	226.75	256.60	213.25	
28	117.40	127.20	137.50	240.60	320.25	659.75	335.55	123.00	222.25	244.60	273.40	223.75	
29	124.40	128.60	133.00	247.80	348.30	684.45	328.75	121.60	226.75	232.00		239.80	
30	124.40	132.25	137.50	253.40	378.90	687.30	344.05	118.80	226.75	220.00		223.00	
31		145.75		311.75	375.50		362.75		226.75	214.75		204.25	
Total	3368.00	3751.30	4124.25	7712.15	7678.85	12516.40	15782.85	5521.90	5991.25	7030.60	7248.70	7707.80	88434.05 CMSDAY
Mean	112.27	121.01	137.47	248.78	247.70	417.21	509.12	184.06	193.27	226.79	258.88	248.64	242.29 CMS
Max	124.40	145.75	151.00	421.40	378.90	687.30	668.30	361.05	255.00	248.60	302.40	294.20	687.30 CMS
Min	105.50	111.80	131.50	158.50	160.75	149.50	290.20	111.10	118.10	203.50	220.75	204.25	105.50 CMS
Runoff	291.00	324.11	356.34	666.33	663.45	1081.42	1363.64	477.09	517.64	607.44	626.29	665.95	7640.70 MCM

Momentary Peak 689.20 CMS. at 34.36 m. (MSL.) at 18.00 Hours , on Sep 29 , 2016

Runoff Yield 8.68 Liters/Second/Square KM. Momentary Peak Yield 24.710 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

Ban Hor Krai **Amphoe** Bang Mun Nak **Changwat** Phichit

Drainge Area	31,472 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+20.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 89 meters upstream from the top staff gage. **Elevation** +30.978 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam.
	Stage-discharge relation defined by 50 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

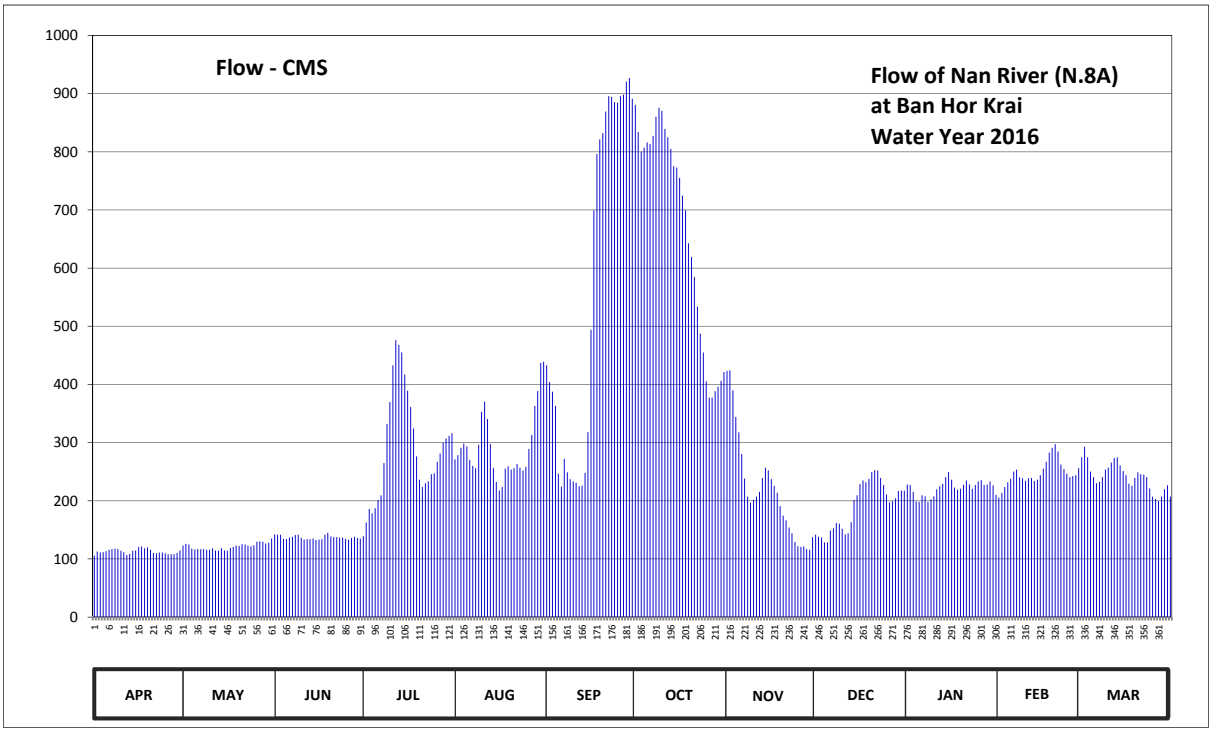
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.61	21.90	22.22	22.17	23.99	25.73	30.09	26.98	22.21	23.44	23.14	24.03	
2	21.73	21.95	22.21	22.53	24.07	25.44	30.00	26.99	22.15	23.43	23.25	24.23	
3	21.70	21.93	22.21	22.87	24.21	25.27	29.85	26.60	22.13	23.27	23.38	24.03	
4	21.71	21.81	22.09	22.76	24.29	25.01	29.88	26.06	21.99	23.05	23.49	23.73	
5	21.74	21.79	22.08	22.89	24.24	23.68	29.92	25.73	21.99	23.04	23.57	23.61	
6	21.78	21.80	22.13	23.08	23.98	23.39	29.91	25.23	22.32	23.19	23.73	23.47	
7	21.80	21.80	22.15	23.19	23.85	24.00	29.97	24.62	22.38	23.17	23.77	23.50	
8	21.81	21.80	22.20	23.91	23.80	23.71	30.05	24.10	22.52	23.04	23.60	23.61	
9	21.80	21.78	22.21	24.67	24.27	23.56	30.08	23.93	22.50	23.10	23.58	23.77	
10	21.75	21.78	22.12	25.08	24.90	23.51	30.07	24.01	22.37	23.17	23.52	23.81	
11	21.71	21.82	22.07	25.73	25.09	23.48	30.01	24.10	22.22	23.33	23.58	23.92	
12	21.63	21.76	22.08	26.16	24.76	23.40	29.96	24.24	22.25	23.40	23.59	24.02	
13	21.66	21.75	22.08	26.08	24.28	23.41	29.87	24.63	22.54	23.45	23.52	24.03	
14	21.75	21.83	22.10	25.95	23.80	23.70	29.73	24.90	23.08	23.61	23.55	23.86	
15	21.76	21.76	22.06	25.57	23.50	24.51	29.72	24.83	23.19	23.72	23.65	23.74	
16	21.86	21.75	22.07	25.29	23.30	26.34	29.63	24.60	23.45	23.55	23.79	23.65	
17	21.87	21.83	22.08	24.99	23.38	28.22	29.46	24.41	23.53	23.37	23.94	23.46	
18	21.82	21.86	22.21	24.58	23.79	29.05	29.31	24.21	23.49	23.32	24.12	23.41	
19	21.85	21.90	22.26	24.05	23.84	29.26	28.92	23.83	23.57	23.34	24.21	23.59	
20	21.78	21.89	22.16	23.55	23.77	29.35	28.75	23.53	23.72	23.43	24.28	23.71	
21	21.69	21.94	22.14	23.38	23.80	29.65	28.49	23.37	23.76	23.53	24.14	23.67	
22	21.68	21.93	22.14	23.47	23.89	29.86	28.06	23.12	23.75	23.44	23.88	23.66	
23	21.70	21.90	22.13	23.51	23.81	29.85	27.64	22.90	23.59	23.34	23.78	23.61	
24	21.70	21.88	22.13	23.67	23.75	29.78	27.32	22.53	23.43	23.43	23.68	23.35	
25	21.68	21.91	22.09	23.69	23.83	29.77	26.78	22.34	23.21	23.51	23.61	23.16	
26	21.65	22.01	22.07	23.94	24.19	29.86	26.45	22.31	23.03	23.54	23.63	23.11	
27	21.65	22.02	22.12	24.10	24.46	29.88	26.45	22.33	23.06	23.43	23.65	23.06	
28	21.65	22.01	22.15	24.31	25.01	30.06	26.58	22.20	23.12	23.44	23.80	23.16	
29	21.69	21.96	22.12	24.39	25.28	30.11	26.67	22.16	23.29	23.51		23.33	
30	21.76	21.98	22.10	24.44	25.77	30.11	26.79	22.14	23.30	23.42		23.42	
31		22.10		24.49	25.79		26.96		23.30	23.20		23.16	
Mean	21.73	21.88	22.13	24.14	24.22	26.76	28.82	24.10	22.92	23.36	23.69	23.61	
Max	21.87	22.10	22.26	26.16	25.79	30.11	30.09	26.99	23.76	23.72	24.28	24.23	30.11
Min	21.61	21.75	22.06	22.17	23.30	23.39	26.45	22.14	21.99	23.04	23.14	23.06	21.61

Annual Max Momentary Gage Height 30.11 m. (MSL.) , at 06.00 Hours , on Sep 29 , 2016

Zero Gage at Bottom Elevation 20.00 m. (MSL.) , River Bed 18.74 m. (MSL.)

Left Bank Elevation 31.27 m. (MSL.) ,

Right Bank Elevation 30.95 m. (MSL.) , Drainage Are 31,472 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.60	123.00	142.30	139.20	271.20	433.00	880.80	423.20	141.65	228.00	205.50	274.70	
2	112.80	126.00	141.65	162.45	278.30	404.00	834.00	424.10	138.00	227.25	213.75	292.70	
3	111.00	124.80	141.65	185.90	290.90	387.65	800.25	390.00	136.80	215.25	223.50	274.70	
4	111.60	117.60	134.40	178.20	298.10	362.95	807.00	344.10	128.40	198.75	231.75	250.40	
5	113.40	116.40	133.80	187.30	293.60	246.40	816.00	317.75	128.40	198.00	237.75	240.80	
6	115.80	117.00	136.80	201.00	270.40	224.25	813.75	280.25	148.80	209.25	250.40	230.25	
7	117.00	117.00	138.00	209.25	260.00	272.00	827.25	238.30	152.70	207.75	253.60	232.50	
8	117.60	117.00	141.00	264.80	256.00	248.80	860.00	207.00	161.80	198.00	240.00	240.80	
9	117.00	115.80	141.65	332.30	296.30	237.00	875.60	196.80	160.50	202.50	238.50	253.60	
10	114.00	115.80	136.20	369.60	353.00	233.25	870.40	201.60	152.05	207.75	234.00	256.80	
11	111.60	118.20	133.20	433.00	370.55	231.00	839.20	207.00	142.30	219.75	238.50	265.60	
12	106.80	114.60	133.80	476.00	340.40	225.00	825.00	215.40	144.25	225.00	239.25	273.80	
13	108.60	114.00	133.80	468.00	297.20	225.75	804.75	238.95	163.10	228.75	234.00	274.70	
14	114.00	118.80	135.00	455.00	256.00	248.00	775.00	257.00	201.00	240.80	236.25	260.80	
15	114.60	114.60	132.60	417.00	232.50	317.90	773.00	252.10	209.25	249.60	244.00	251.20	
16	120.60	114.00	133.20	389.55	217.50	494.00	755.00	237.00	228.75	236.25	255.20	244.00	
17	121.20	118.80	133.80	361.10	223.50	699.30	724.50	225.60	234.75	222.75	267.20	229.50	
18	118.20	120.60	141.65	324.20	255.20	796.00	699.60	213.60	231.75	219.00	282.80	225.75	
19	120.00	123.00	144.90	276.50	259.20	821.20	642.80	190.80	237.75	220.50	290.90	239.25	
20	115.80	122.40	138.60	236.25	253.60	832.00	619.25	174.50	249.60	227.25	297.20	248.80	
21	110.40	125.40	137.40	223.50	256.00	869.25	584.70	166.50	252.80	234.75	284.60	245.60	
22	109.80	124.80	137.40	230.25	263.20	895.50	533.90	154.00	252.00	228.00	262.40	244.80	
23	111.00	123.00	136.80	233.25	256.80	894.25	487.40	144.00	239.25	220.50	254.40	240.80	
24	111.00	121.80	136.80	245.60	252.00	885.50	455.00	129.20	227.25	227.25	246.40	221.25	
25	109.80	123.60	134.40	247.20	258.40	884.25	405.30	121.90	210.75	233.25	240.80	207.00	
26	108.00	129.60	133.20	267.20	289.10	895.50	377.25	120.85	197.25	235.50	242.40	203.25	
27	108.00	130.20	136.20	281.00	313.40	898.00	377.25	121.55	199.50	227.25	244.00	199.50	
28	108.00	129.60	138.00	299.90	362.95	920.50	388.30	117.00	204.00	228.00	256.00	207.00	
29	110.40	126.60	136.20	307.10	388.60	926.75	395.95	115.80	216.75	233.25		219.75	
30	114.60	127.80	135.00	311.60	437.00	891.20	406.15	137.40	217.50	226.50		226.50	
31		135.00		316.10	439.00		421.40		217.50	210.00		207.00	
Total	3388.20	3766.80	4109.40	9029.30	9089.90	16900.15	20675.75	6563.25	5926.15	6886.40	6945.05	7483.10	100763.45	CMSDAY
Mean	112.94	121.51	136.98	291.27	293.22	563.34	666.96	218.78	191.17	222.14	248.04	241.39	276.06	CMS
Max	121.20	135.00	144.90	476.00	439.00	926.75	880.80	424.10	252.80	249.60	297.20	292.70	926.75	CMS
Min	105.60	114.00	132.60	139.20	217.50	224.25	377.25	115.80	128.40	198.00	205.50	199.50	105.60	CMS
Runoff	292.74	325.45	355.05	780.13	785.37	1460.17	1786.38	567.06	512.02	594.98	600.05	646.54	8705.96	MCM

Momentary Peak 926.75 CMS. at 30.11 m. (MSL.) at 06.00 Hours , on Sep 29 , 2016

Runoff Yield 8.77 Liters/Second/Square KM. Momentary Peak Yield 29.450 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 16 - 13 - 00 N Long 100 - 25 - 19 E

Location : on left bank near Amphoe Taphan Hin Office about 250 meters from Station N.10

Ban Taphan Hin **Amphoe** Taphan Hin **Changwat** Phichit

Drainge Area	30,328 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+22.280 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near automatic gage building. **Elevation** +33.300 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1974 - 1979, 1991 to date
Rated by Flot	-
Rated by Current Meter	1974 - 1982, 1987, 1991 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam.
	Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

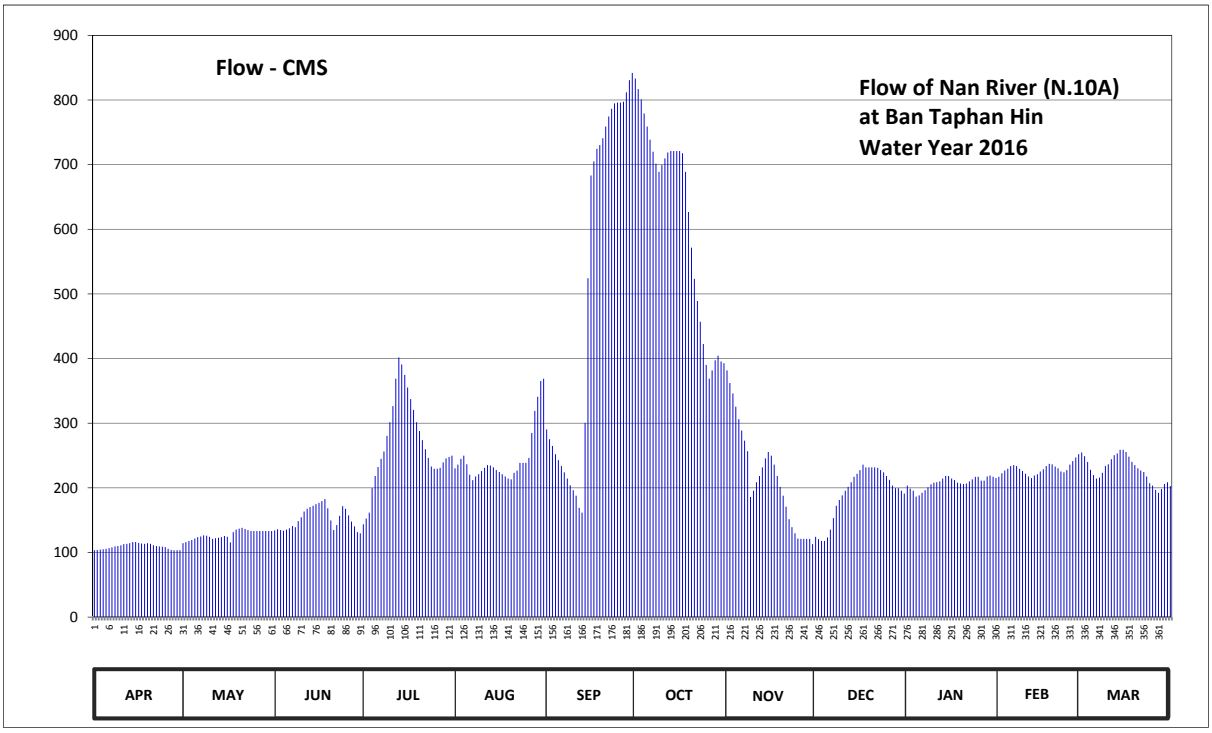
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.08	23.28	23.64	23.81	25.16	25.99	31.21	27.09	23.46	24.76	24.97	25.51	
2	23.09	23.31	23.67	23.96	25.24	25.79	31.08	26.86	23.39	24.69	25.05	25.43	
3	23.10	23.34	23.65	24.11	25.37	25.65	30.95	26.67	23.34	24.64	25.11	25.30	
4	23.11	23.37	23.63	24.70	25.44	25.47	30.77	26.43	23.34	24.50	25.15	25.13	
5	23.12	23.41	23.66	24.99	25.25	25.34	30.60	26.19	23.44	24.53	25.21	25.01	
6	23.14	23.45	23.70	25.19	25.02	25.21	30.43	25.97	23.66	24.59	25.23	24.93	
7	23.16	23.47	23.76	25.37	24.89	25.07	30.27	25.76	23.97	24.65	25.21	24.95	
8	23.19	23.50	23.73	25.53	24.98	24.93	30.11	25.54	24.28	24.72	25.15	25.06	
9	23.20	23.49	23.89	25.86	25.03	24.77	30.00	24.49	24.42	24.79	25.10	25.21	
10	23.22	23.46	23.99	26.13	25.10	24.65	30.09	24.64	24.53	24.83	25.04	25.25	
11	23.25	23.40	24.14	26.44	25.17	24.52	30.18	24.84	24.64	24.84	24.98	25.36	
12	23.26	23.42	24.21	26.94	25.23	24.23	30.26	24.99	24.73	24.86	24.94	25.45	
13	23.28	23.43	24.25	27.32	25.22	24.11	30.28	25.18	24.84	24.93	25.00	25.49	
14	23.31	23.45	24.28	27.20	25.18	26.12	30.28	25.38	24.97	24.99	25.03	25.57	
15	23.31	23.48	24.32	27.01	25.12	28.54	30.28	25.52	25.04	24.99	25.09	25.57	
16	23.29	23.46	24.35	26.78	25.08	29.95	30.28	25.44	25.12	24.93	25.14	25.52	
17	23.27	23.30	24.39	26.57	25.03	30.14	30.25	25.24	25.24	24.89	25.21	25.42	
18	23.26	23.59	24.44	26.37	24.98	30.31	30.00	24.99	25.18	24.83	25.26	25.30	
19	23.28	23.66	24.22	26.13	24.93	30.36	29.46	24.73	25.18	24.81	25.25	25.23	
20	23.26	23.69	23.91	25.96	24.91	30.45	28.97	24.52	25.18	24.80	25.20	25.16	
21	23.22	23.71	23.65	25.77	25.06	30.60	28.53	24.26	25.18	24.81	25.16	25.11	
22	23.20	23.68	23.79	25.58	25.11	30.73	28.22	23.94	25.17	24.86	25.09	25.08	
23	23.19	23.65	24.03	25.39	25.28	30.83	27.90	23.73	25.12	24.91	25.07	24.98	
24	23.18	23.62	24.27	25.20	25.28	30.90	27.55	23.56	25.07	24.97	25.12	24.82	
25	23.17	23.62	24.21	25.15	25.28	30.91	27.19	23.41	24.99	24.97	25.24	24.76	
26	23.12	23.62	24.04	25.15	25.39	30.91	26.94	23.40	24.90	24.88	25.32	24.66	
27	23.09	23.62	23.88	25.17	25.92	30.92	27.09	23.40	24.76	24.88	25.40	24.59	
28	23.08	23.62	23.75	25.29	26.35	31.04	27.27	23.40	24.70	24.98	25.47	24.68	
29	23.08	23.62	23.59	25.38	26.61	31.19	27.35	23.40	24.70	25.00		24.80	
30	23.08	23.62	23.56	25.41	26.90	31.28	27.25	23.25	24.64	24.97		24.84	
31		23.62		25.44	26.94		27.22		24.57	24.94		24.75	
Mean	23.19	23.51	23.95	25.65	25.37	28.03	29.30	24.87	24.57	24.83	25.15	25.13	
Max	23.31	23.71	24.44	27.32	26.94	31.28	31.21	27.09	25.24	25.00	25.47	25.57	31.28
Min	23.08	23.28	23.56	23.81	24.89	24.11	26.94	23.25	23.34	24.50	24.94	24.59	23.08

Annual Max Momentary Gage Height 31.31 m. (MSL.) , at 18.00 Hours , on Sep 30 , 2016

Zero Gage at Bottom Elevation 22.28 m. (MSL.) , River Bed 17.41 m. (MSL.)

Left Bank Elevation 35.22 m. (MSL.) ,

Right Bank Elevation 35.45 m. (MSL.) , Drainage Are 30,328 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.40	114.40	134.20	143.60	230.20	290.25	833.25	381.65	124.30	203.40	217.05	254.70	
2	103.95	116.05	135.85	152.60	235.80	275.25	817.00	362.10	120.45	198.85	222.50	249.10	
3	104.50	117.70	134.75	161.60	244.90	264.75	801.00	345.95	117.70	195.60	226.70	240.00	
4	105.05	119.35	133.65	199.50	249.80	251.90	779.40	325.55	117.70	186.50	229.50	228.10	
5	105.60	121.55	135.30	218.35	236.50	242.80	759.00	306.20	123.20	188.45	233.70	219.70	
6	106.70	123.75	137.50	232.30	220.40	233.70	738.60	288.75	135.30	192.35	235.10	214.45	
7	107.80	124.85	140.80	244.90	211.85	223.90	720.05	273.00	153.20	196.25	233.70	215.75	
8	109.45	126.50	139.15	256.10	217.70	214.45	701.65	256.80	172.20	200.80	229.50	223.20	
9	110.00	125.95	148.40	280.50	221.10	204.05	689.00	185.85	181.30	205.35	226.00	233.70	
10	111.10	124.30	154.40	301.40	226.00	196.25	699.35	195.60	188.45	207.95	221.80	236.50	
11	112.75	121.00	163.40	326.40	230.90	187.80	709.70	208.60	195.60	208.60	217.70	244.20	
12	113.30	122.10	167.65	368.90	235.10	168.95	718.90	218.35	201.45	209.90	215.10	250.50	
13	114.40	122.65	170.25	401.80	234.40	161.60	721.20	231.60	208.60	214.45	219.00	253.30	
14	116.05	123.75	172.20	391.00	231.60	300.60	721.20	245.60	217.05	218.35	221.10	258.90	
15	116.05	125.40	174.80	374.85	227.40	524.40	721.20	255.40	221.80	218.35	225.30	258.90	
16	114.95	124.30	176.75	355.30	224.60	683.25	721.20	249.80	227.40	214.45	228.80	255.40	
17	113.85	115.50	179.35	337.45	221.10	705.10	717.75	235.80	235.80	211.85	233.70	248.40	
18	113.30	131.45	182.60	320.60	217.70	724.65	689.00	218.35	231.60	207.95	237.20	240.00	
19	114.40	135.30	168.30	301.40	214.45	730.40	626.90	201.45	231.60	206.65	236.50	235.10	
20	113.30	136.95	149.60	288.00	213.15	741.00	571.70	187.80	231.60	206.00	233.00	230.20	
21	111.10	138.05	134.75	273.75	223.20	759.00	523.30	170.90	231.60	206.65	230.20	226.70	
22	110.00	136.40	142.45	259.60	226.70	774.60	489.20	151.40	230.90	209.90	225.30	224.60	
23	109.45	134.75	156.80	246.30	238.60	786.60	457.00	139.15	227.40	213.15	223.90	217.70	
24	108.90	133.10	171.55	233.00	238.60	795.00	422.50	129.80	223.90	217.05	227.40	207.30	
25	108.35	133.10	167.65	229.50	238.60	796.20	390.15	121.55	218.35	217.05	235.80	203.40	
26	105.60	133.10	157.40	229.50	246.30	796.20	368.90	121.00	212.50	211.20	241.40	196.90	
27	103.95	133.10	147.80	230.90	285.00	797.40	381.65	121.00	203.40	211.20	247.00	192.35	
28	103.40	133.10	140.25	239.30	319.00	812.00	397.30	121.00	199.50	217.70	251.90	198.20	
29	103.40	133.10	131.45	245.60	340.85	830.75	404.50	121.00	199.50	219.00		206.00	
30	103.40	133.10	129.80	247.70	365.50	842.00	395.50	112.75	195.60	217.05		208.60	
31		133.10		249.80	368.90		392.80		191.05	215.10		202.75	
Total	3277.45	3946.80	4578.80	8341.50	7635.90	15314.80	19079.85	6483.75	5970.00	6447.10	6425.85	7074.60	94576.40	CMSDAY
Mean	109.25	127.32	152.63	269.08	246.32	510.49	615.48	216.12	192.58	207.97	229.49	228.21	259.11	CMS
Max	116.05	138.05	182.60	401.80	368.90	842.00	833.25	381.65	235.80	219.00	251.90	258.90	842.00	CMS
Min	103.40	114.40	129.80	143.60	211.85	161.60	368.90	112.75	117.70	186.50	215.10	192.35	103.40	CMS
Runoff	283.17	341.00	395.61	720.71	659.74	1323.20	1648.50	560.20	515.81	557.03	555.19	611.25	8171.40	MCM

Momentary Peak 845.75 CMS. at 31.31 m. (MSL.) at 18.00 Hours , on Sep 30 , 2016

Runoff Yield 8.54 Liters/Second/Square KM. Momentary Peak Yield 27.890 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 17 - 44 - 11 N Long 100 - 32 - 27 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	Ban Hat Phai	**Amphoe** Tha Pla	**Changwat** Uttaradit
Drainge Area	15,579 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+69.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank in front of gage observer's house.	**Elevation**	+84.000 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 to date		
Rated by Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 49 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

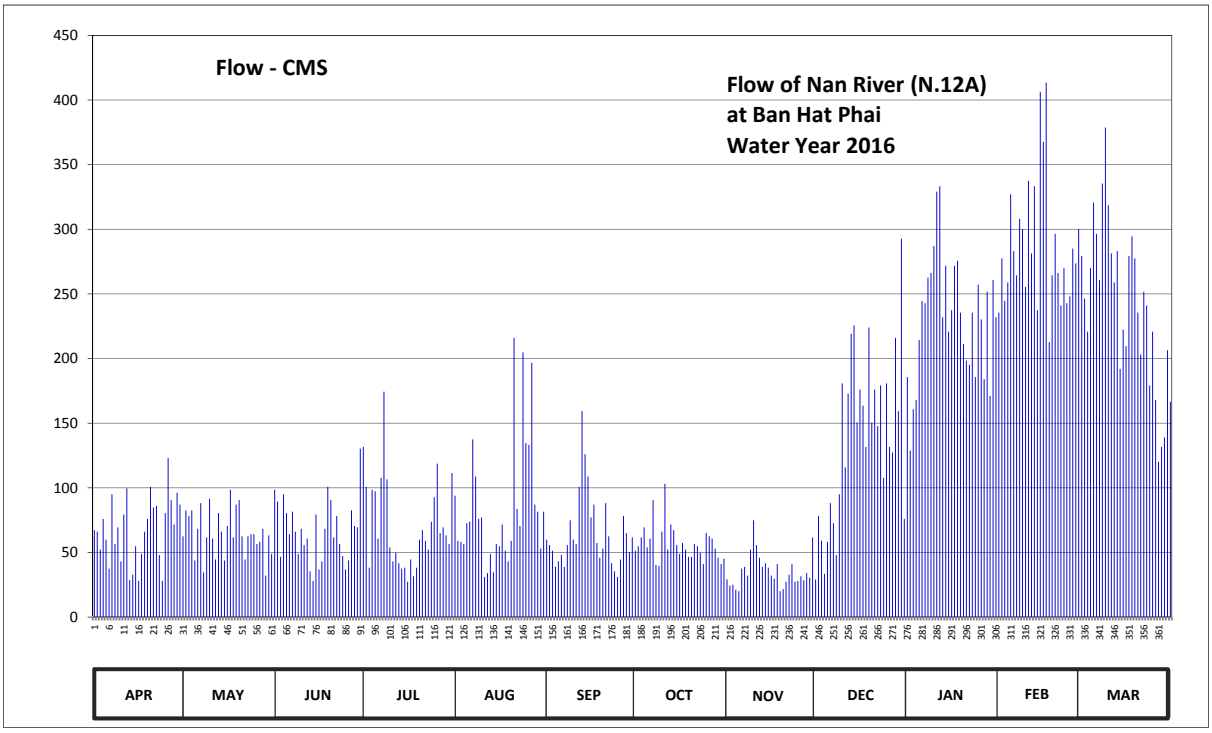
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	70.62	70.57	70.90	71.15	70.86	70.54	70.44	70.12	70.12	71.51	71.82	72.06	
2	70.61	70.76	70.82	70.92	70.53	70.49	70.48	70.04	70.72	71.13	72.05	71.88	
3	70.45	70.72	70.38	70.26	70.52	70.44	70.56	70.05	70.53	71.35	71.87	71.73	
4	70.70	70.76	70.87	70.90	70.50	70.27	70.64	69.98	70.19	71.40	71.95	72.01	
5	70.54	70.34	70.74	70.89	70.67	70.33	70.47	69.95	70.52	71.69	72.30	72.27	
6	70.25	70.63	70.59	70.55	70.68	70.40	70.55	70.25	70.81	71.87	72.08	72.15	
7	70.87	70.81	70.75	70.98	71.19	70.27	70.83	70.27	70.67	71.86	71.98	71.96	
8	70.50	70.21	70.61	71.44	70.99	70.49	70.29	70.17	70.40	71.97	72.21	72.34	
9	70.64	70.56	70.41	70.97	70.70	70.69	70.28	70.45	70.87	71.99	72.17	72.54	
10	70.33	70.84	70.63	70.47	70.71	70.54	70.61	70.69	71.48	72.10	71.93	72.26	
11	70.73	70.55	70.49	70.33	70.15	70.50	70.94	70.49	71.04	72.31	72.35	72.07	
12	70.91	70.35	70.55	70.42	70.20	70.92	70.45	70.37	71.43	72.33	72.07	71.95	
13	70.11	70.74	70.22	70.31	70.41	71.34	70.66	70.27	71.72	71.80	72.33	72.08	
14	70.18	70.61	70.10	70.25	70.21	71.11	70.62	70.31	71.76	72.02	71.83	71.55	
15	70.48	70.34	70.73	70.26	70.50	70.99	70.49	70.26	71.28	71.73	72.66	71.74	
16	70.10	70.65	70.24	70.09	70.48	70.71	70.41	70.17	71.45	71.83	72.49	71.66	
17	70.41	70.90	70.33	70.35	70.66	70.80	70.51	70.13	71.37	72.02	72.69	72.06	
18	70.61	70.56	70.63	70.16	70.44	70.51	70.45	70.30	71.15	72.04	71.68	72.14	
19	70.70	70.80	70.92	70.26	70.33	70.37	70.38	69.95	71.75	71.82	71.98	72.05	
20	70.92	70.83	70.83	70.54	70.53	70.46	70.38	69.99	71.28	71.67	72.15	71.82	
21	70.78	70.57	70.56	70.62	71.70	70.81	70.50	70.09	71.45	71.59	71.99	71.62	
22	70.79	70.35	70.72	70.53	70.77	70.57	70.48	70.18	71.26	71.57	71.85	71.91	
23	70.40	70.57	70.50	70.45	70.65	70.31	70.42	70.30	71.47	71.82	72.01	71.85	
24	70.10	70.59	70.39	70.68	71.63	70.22	70.30	70.09	70.98	71.51	71.86	71.47	
25	70.74	70.59	70.24	70.85	71.17	70.15	70.60	70.10	71.48	71.94	71.89	71.73	
26	71.09	70.50	70.34	71.06	71.16	70.35	70.57	70.16	71.15	71.79	72.09	71.40	
27	70.83	70.52	70.76	70.60	71.58	70.72	70.55	70.11	71.12	71.50	72.03	71.07	
28	70.66	70.63	70.65	70.64	70.80	70.60	70.46	70.20	71.70	71.91	72.17	71.15	
29	70.88	70.17	70.64	70.58	70.75	70.43	70.37	70.14	71.34	71.42		71.20	
30	70.80	70.58	71.14	70.50	70.46	70.56	70.30	70.56	72.13	71.96		71.64	
31		70.41		71.01	70.75		70.36		70.70	71.80		71.39	
Mean	70.59	70.58	70.59	70.61	70.73	70.56	70.50	70.20	71.14	71.78	72.09	71.83	
Max	71.09	70.90	71.14	71.44	71.70	71.34	70.94	70.69	72.13	72.33	72.69	72.54	72.69
Min	70.10	70.17	70.10	70.09	70.15	70.15	70.28	69.95	70.12	71.13	71.68	71.07	69.95

Annual Max Momentary Gage Height 74.20 m. (MSL.) , at 18.00 Hours , on Feb 5 , 2017

Zero Gage at Bottom Elevation 69.00 m. (MSL.) , River Bed 63.39 m. (MSL.)

Left Bank Elevation 82.58 m. (MSL.) ,

Right Bank Elevation 81.46 m. (MSL.) , Drainage Are 15,579 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.20	62.45	98.50	131.75	93.90	59.90	51.40	29.20	29.20	185.60	235.60	279.40	
2	66.10	82.60	89.30	100.80	59.05	55.65	54.80	24.40	78.20	128.85	277.50	246.40	
3	52.25	78.20	46.60	38.20	58.20	51.40	61.60	25.00	59.05	160.75	244.60	220.80	
4	76.00	82.60	95.05	98.50	56.50	38.90	69.40	21.20	33.40	168.00	259.00	269.90	
5	59.90	43.80	80.40	97.35	72.70	43.10	53.95	20.00	58.20	214.40	327.00	320.70	
6	37.50	68.30	64.15	60.75	73.80	48.00	60.75	37.50	88.15	244.60	283.20	296.50	
7	95.05	88.15	81.50	107.70	137.55	38.90	90.45	38.90	72.70	242.80	264.40	260.80	
8	56.50	34.70	66.10	174.40	108.85	55.65	40.30	32.20	48.00	262.60	308.10	335.40	
9	69.40	61.60	48.85	106.55	76.00	74.90	39.60	52.25	95.05	266.20	300.30	378.80	
10	43.10	91.60	68.30	53.95	77.10	59.90	66.10	74.90	180.80	287.00	255.40	318.60	
11	79.30	60.75	55.65	43.10	31.00	56.50	103.10	55.65	115.80	329.10	337.50	281.30	
12	99.65	44.50	60.75	49.70	34.00	100.80	52.25	45.90	172.80	333.30	281.30	259.00	
13	28.60	80.40	35.40	41.70	48.85	159.30	71.60	38.90	219.20	232.00	333.30	283.20	
14	32.80	66.10	28.00	37.50	34.70	125.95	67.20	41.70	225.60	271.80	237.40	192.00	
15	54.80	43.80	79.30	38.20	56.50	108.85	55.65	38.20	150.60	220.80	406.40	222.40	
16	28.00	70.50	36.80	27.40	54.80	77.10	48.85	32.20	176.00	237.40	367.80	209.60	
17	48.85	98.50	43.10	44.50	71.60	87.00	57.35	29.80	163.65	271.80	413.60	279.40	
18	66.10	61.60	68.30	31.60	51.40	57.35	52.25	41.00	131.75	275.60	212.80	294.60	
19	76.00	87.00	100.80	38.20	43.10	45.90	46.60	20.00	224.00	235.60	264.40	277.50	
20	100.80	90.45	90.45	59.90	59.05	53.10	46.60	21.60	150.60	211.20	296.50	235.60	
21	84.80	62.45	61.60	67.20	216.00	88.15	56.50	27.40	176.00	198.40	266.20	203.20	
22	85.90	44.50	78.20	59.05	83.70	62.45	54.80	32.80	147.70	195.20	241.00	251.80	
23	48.00	62.45	56.50	52.25	70.50	41.70	49.70	41.00	179.20	235.60	269.90	241.00	
24	28.00	64.15	47.30	73.80	204.80	35.40	41.00	27.40	107.70	185.60	242.80	179.20	
25	80.40	64.15	36.80	92.75	134.65	31.00	65.00	28.00	180.80	257.20	248.20	220.80	
26	123.05	56.50	43.80	118.70	133.20	44.50	62.45	31.60	131.75	230.40	285.10	168.00	
27	90.45	58.20	82.60	65.00	196.80	78.20	60.75	28.60	127.40	184.00	273.70	120.15	
28	71.60	68.30	70.50	69.40	87.00	65.00	53.10	34.00	216.00	251.80	300.30	131.75	
29	96.20	32.20	69.40	63.30	81.50	50.55	45.90	30.40	159.30	171.20		139.00	
30	87.00	63.30	130.30	56.50	53.10	61.60	41.00	61.60	292.70	260.80		206.40	
31		48.85		111.45	81.50		45.20		76.00	232.00		166.55	
Total	2033.30	2022.65	2014.30	2211.15	2641.40	1956.70	1765.20	1063.30	4267.30	7181.60	8033.30	7489.75	42679.95	CMSDAY
Mean	67.78	65.25	67.14	71.33	85.21	65.22	56.94	35.44	137.65	231.66	286.90	241.60	116.93	CMS
Max	123.05	98.50	130.30	174.40	216.00	159.30	103.10	74.90	292.70	333.30	413.60	378.80	413.60	CMS
Min	28.00	32.20	28.00	27.40	31.00	31.00	39.60	20.00	29.20	128.85	212.80	120.15	20.00	CMS
Runoff	175.68	174.76	174.04	191.04	228.22	169.06	152.51	91.87	368.69	620.49	694.08	647.11	3687.55	MCM

Momentary Peak 756.00 CMS. at 74.20 m. (MSL.) at 18.00 Hours , on Feb 5 , 2017

Runoff Yield 7.51 Liters/Second/Square KM. Momentary Peak Yield 48.530 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 18 - 33 - 12 N Long 100 - 46 - 03 E

Location : on right bank about 2 kilometers upstream from Station N.13

Ban Bun Nak **Amphoe** Wiang Sa **Changwat** Nan

Drainge Area	8,706 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+177.400 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +192.700 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

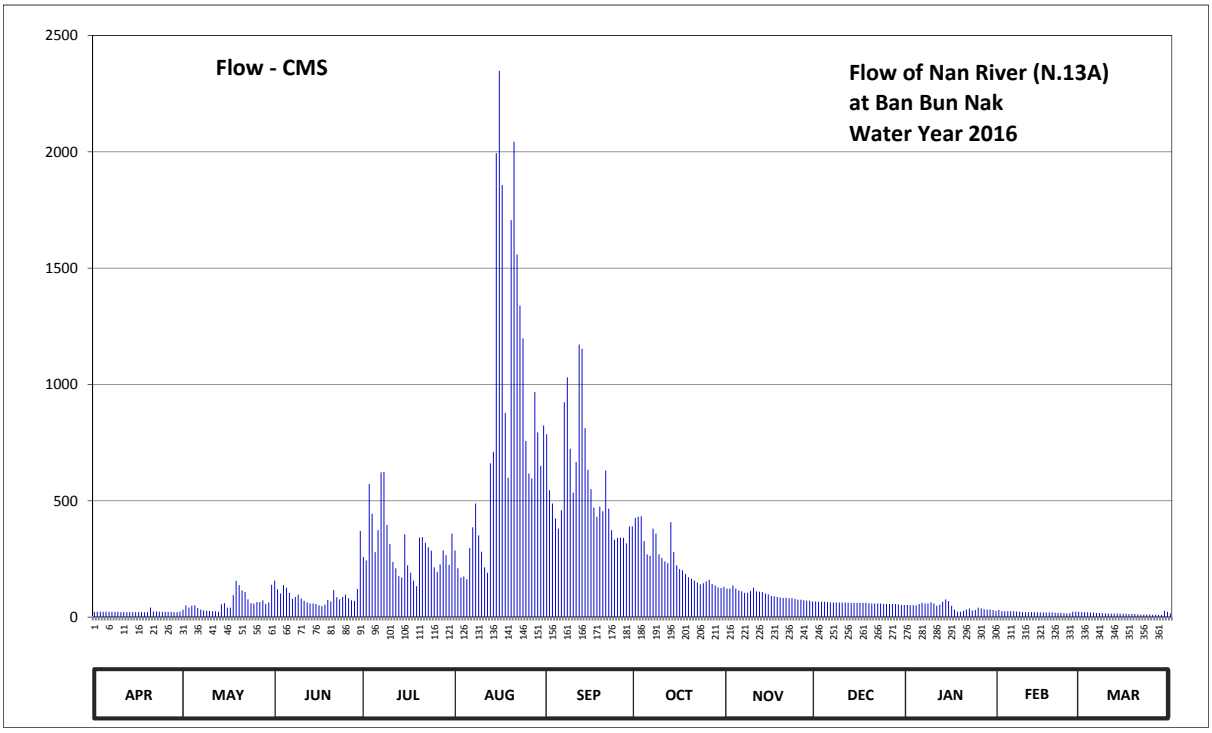
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.80	177.88	178.78	179.36	179.51	181.73	180.23	178.56	178.17	178.05	177.87	177.78	
2	177.80	178.04	178.54	179.28	179.10	180.77	180.25	178.56	178.16	178.04	177.82	177.78	
3	177.80	177.96	178.42	180.89	178.86	180.51	180.26	178.65	178.16	178.04	177.82	177.77	
4	177.80	178.02	178.66	180.31	178.89	180.22	179.72	178.56	178.16	178.04	177.82	177.76	
5	177.80	178.04	178.59	179.47	178.82	180.00	179.42	178.51	178.15	178.08	177.82	177.75	
6	177.80	177.94	178.44	179.97	179.56	180.38	179.39	178.48	178.14	178.12	177.82	177.73	
7	177.79	177.88	178.25	181.10	180.03	182.22	180.00	178.44	178.13	178.10	177.81	177.72	
8	177.79	177.85	178.31	181.11	180.51	182.59	179.89	178.44	178.13	178.10	177.80	177.71	
9	177.79	177.84	178.38	180.08	179.85	181.49	179.42	178.49	178.13	178.14	177.78	177.70	
10	177.78	177.83	178.26	179.65	179.48	180.72	179.34	178.59	178.13	178.10	177.78	177.70	
11	177.78	177.82	178.19	179.25	179.12	181.27	179.26	178.48	178.13	178.02	177.78	177.69	
12	177.78	177.82	178.14	179.10	178.99	183.07	179.22	178.47	178.12	178.06	177.78	177.68	
13	177.78	177.80	178.10	178.90	181.25	183.01	180.14	178.46	178.12	178.16	177.78	177.68	
14	177.78	178.07	178.10	178.86	181.44	181.83	179.47	178.42	178.12	178.24	177.77	177.68	
15	177.78	178.11	178.08	179.87	185.64	181.14	179.17	178.39	178.12	178.18	177.77	177.68	
16	177.78	177.95	178.04	179.17	186.65	180.79	179.08	178.34	178.12	178.02	177.76	177.67	
17	177.78	177.95	178.01	178.99	185.25	180.43	179.05	178.33	178.12	177.88	177.76	177.65	
18	177.78	178.37	178.06	178.78	182.06	180.25	178.96	178.31	178.12	177.80	177.76	177.65	
19	177.78	178.78	178.22	178.63	181.01	180.45	178.87	178.29	178.11	177.80	177.76	177.65	
20	177.96	178.66	178.17	179.80	184.80	180.36	178.83	178.28	178.10	177.83	177.74	177.64	
21	177.80	178.51	178.52	179.81	185.78	181.13	178.78	178.28	178.10	177.88	177.74	177.62	
22	177.81	178.46	178.30	179.68	184.34	180.41	178.73	178.27	178.10	177.92	177.73	177.62	
23	177.80	178.24	178.24	179.58	183.63	179.97	178.68	178.27	178.10	177.85	177.72	177.62	
24	177.79	178.11	178.31	179.50	183.16	179.75	178.71	178.25	178.09	177.87	177.71	177.62	
25	177.79	178.10	178.38	179.12	181.62	179.79	178.76	178.23	178.08	177.95	177.71	177.61	
26	177.79	178.15	178.27	179.01	181.08	179.80	178.80	178.23	178.08	177.92	177.80	177.61	
27	177.79	178.15	178.21	179.19	181.00	179.79	178.69	178.21	178.08	177.89	177.80	177.59	
28	177.78	178.21	178.19	179.51	182.37	179.67	178.65	178.20	178.08	177.88	177.80	177.59	
29	177.78	178.08	178.55	179.40	181.76	180.05	178.60	178.20	178.07	177.88		177.83	
30	177.81	178.13	179.95	179.18	181.21	180.05	178.58	178.17	178.05	177.86		177.79	
31		178.67		179.89	181.87		178.61		178.05	177.83		177.70	
Mean	177.80	178.11	178.36	179.56	181.57	180.79	179.21	178.38	178.11	177.98	177.78	177.69	
Max	177.96	178.78	179.95	181.11	186.65	183.07	180.26	178.65	178.17	178.24	177.87	177.83	186.65
Min	177.78	177.80	178.01	178.63	178.82	179.67	178.58	178.17	178.05	177.80	177.71	177.59	177.59

Annual Max Momentary Gage Height 186.67 m. (MSL.) , at 04.00 Hours , on Aug 16, 2016

Zero Gage at Bottom Elevation 177.40 m. (MSL.) , River Bed 175.67 m. (MSL.)

Left Bank Elevation 190.27 m. (MSL.) ,

Right Bank Elevation 192.59 m. (MSL.) , Drainage Are 8,706 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.00	32.20	156.80	258.40	286.90	785.80	426.60	122.20	67.25	52.25	31.05	21.60	
2	23.00	51.00	119.30	243.20	210.00	545.40	431.00	122.20	66.00	51.00	25.30	21.60	
3	23.00	41.40	101.90	571.80	169.60	488.20	433.20	136.00	66.00	51.00	25.30	20.90	
4	23.00	48.50	137.60	444.20	174.40	424.40	326.80	122.20	66.00	51.00	25.30	20.20	
5	23.00	51.00	126.55	279.30	163.20	380.00	269.80	114.95	64.75	56.00	25.30	19.50	
6	23.00	39.10	104.80	374.30	296.40	459.60	264.10	110.60	63.50	61.00	25.30	18.10	
7	22.30	32.20	78.00	622.00	386.00	923.80	380.00	104.80	62.25	58.50	24.15	17.40	
8	22.30	28.75	86.40	624.60	488.20	1031.10	359.10	104.80	62.25	58.50	23.00	16.70	
9	22.30	27.60	96.20	396.00	351.50	723.40	269.80	112.05	62.25	63.50	21.60	16.00	
10	21.60	26.45	79.40	313.50	281.20	534.40	254.60	126.55	62.25	58.50	21.60	16.00	
11	21.60	25.30	69.75	237.50	213.60	666.20	239.40	110.60	62.25	48.50	21.60	15.38	
12	21.60	25.30	63.50	210.00	190.40	1171.00	231.80	109.15	61.00	53.50	21.60	14.76	
13	21.60	23.00	58.50	176.00	661.00	1153.00	408.00	107.70	61.00	66.00	21.60	14.76	
14	21.60	54.75	58.50	169.60	710.40	812.40	279.30	101.90	61.00	76.60	20.90	14.76	
15	21.60	59.75	56.00	355.30	1994.00	632.40	222.60	97.60	61.00	68.50	20.90	14.76	
16	21.60	40.25	51.00	222.60	2347.50	549.80	206.40	90.60	61.00	48.50	20.20	14.14	
17	21.60	40.25	47.25	190.40	1857.50	470.60	201.00	89.20	61.00	32.20	20.20	12.90	
18	21.60	94.80	53.50	156.80	877.40	431.00	185.60	86.40	61.00	23.00	20.20	12.90	
19	21.60	156.80	73.80	132.80	598.60	475.00	171.20	83.60	59.75	23.00	20.20	12.90	
20	41.40	137.60	67.25	342.00	1706.00	455.20	164.80	82.20	58.50	26.45	18.80	12.28	
21	23.00	114.95	116.40	343.90	2043.00	629.80	156.80	82.20	58.50	32.20	18.80	11.04	
22	24.15	107.70	85.00	319.20	1558.80	466.20	148.80	80.80	58.50	36.80	18.10	11.04	
23	23.00	76.60	76.60	300.20	1339.00	374.30	140.80	80.80	58.50	28.75	17.40	11.04	
24	22.30	59.75	86.40	285.00	1198.00	332.50	145.60	78.00	57.25	31.05	16.70	11.04	
25	22.30	58.50	96.20	213.60	757.20	340.10	153.60	75.20	56.00	40.25	16.70	10.42	
26	22.30	64.75	80.80	193.80	616.80	342.00	160.00	75.20	56.00	36.80	23.00	10.42	
27	22.30	64.75	72.40	226.20	596.00	340.10	142.40	72.40	56.00	33.35	23.00	9.30	
28	21.60	72.40	69.75	286.90	967.30	317.30	136.00	71.00	56.00	32.20	23.00	9.30	
29	21.60	56.00	120.75	266.00	793.60	390.00	128.00	71.00	54.75	32.20		26.45	
30	24.15	62.25	370.50	224.40	650.60	390.00	125.10	67.25	52.25	29.90		22.30	
31		139.20		359.10	823.60		129.60		52.25	26.45		16.00	
Total	689.00	1912.85	2860.80	9338.60	25307.70	17035.00	7291.80	2889.15	1866.00	1387.45	610.80	475.89	71665.04 CMSDAY
Mean	22.97	61.70	95.36	301.25	816.38	567.83	235.22	96.30	60.19	44.76	21.81	15.35	196.34 CMS
Max	41.40	156.80	370.50	624.60	2347.50	1171.00	433.20	136.00	67.25	76.60	31.05	26.45	2347.50 CMS
Min	21.60	23.00	47.25	132.80	163.20	317.30	125.10	67.25	52.25	23.00	16.70	9.30	9.30 CMS
Runoff	59.53	165.27	247.17	806.86	2186.59	1471.82	630.01	249.62	161.22	119.88	52.77	41.12	6191.86 MCM

Momentary Peak 2354.50 CMS. at 186.67 m. (MSL.) at 04.00 Hours , on Aug 16 , 2016

Runoff Yield 22.55 Liters/Second/Square KM. Momentary Peak Yield 270.450 Liters/Second/Square KM.

WATER YEAR : 2016

Nan RIVER BASIN

Nan River at Wat Luang Pho Kaeo , Nakhon Sawan (N.14A)

Lat 15 - 53 - 44 N Long 100 - 18 - 42 E

Location : on right bank in front of Wat Luang Pho Kaeo about 1 kilometer upstream from Station N.14

Ban Wat Luang Pho Kaeo **Amphoe** Chum Saeng **Changwat** Nakhon Sawan

Drainge Area	32,826 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank in front of automatic gage building. **Elevation** +32.155 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1973 - 1979, 1991 to date
Rated by Flot	-
Rated by Current Meter	1972 - 1980, 1991 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Flow effected by Naresuan Dam.
	Stage-discharge relation defined by 38 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

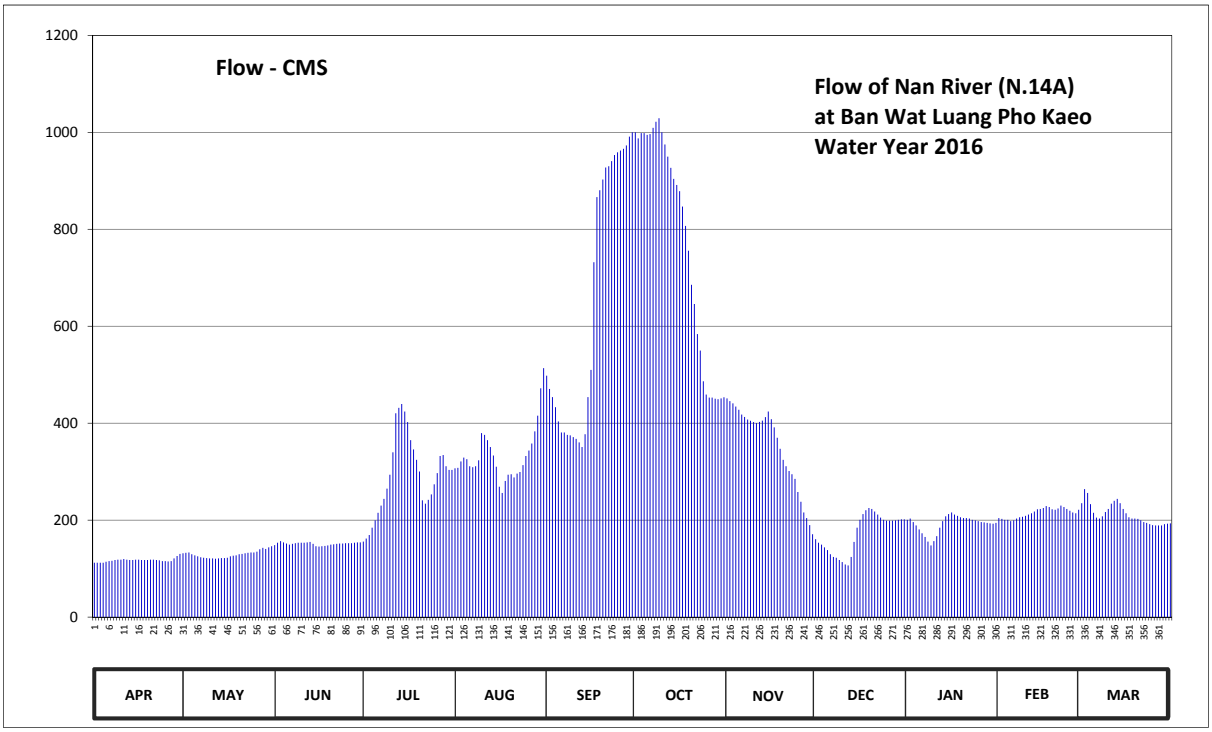
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.23	20.51	20.72	20.81	22.40	23.97	27.59	25.39	20.87	21.33	21.37	21.70	
2	20.23	20.52	20.78	20.89	22.41	23.76	27.52	25.32	20.78	21.36	21.35	21.99	
3	20.23	20.53	20.82	20.98	22.53	23.63	27.58	25.26	20.73	21.28	21.33	21.91	
4	20.23	20.48	20.79	21.15	22.60	23.47	27.58	25.17	20.66	21.20	21.33	21.68	
5	20.26	20.45	20.76	21.32	22.57	23.23	27.56	25.06	20.59	21.11	21.30	21.49	
6	20.28	20.42	20.73	21.49	22.44	23.04	27.57	24.90	20.48	21.02	21.32	21.38	
7	20.29	20.39	20.75	21.65	22.42	23.04	27.64	24.77	20.40	20.93	21.36	21.36	
8	20.31	20.38	20.77	21.79	22.44	23.00	27.71	24.64	20.38	20.81	21.39	21.41	
9	20.32	20.37	20.78	22.00	22.55	22.99	27.75	24.55	20.31	20.71	21.40	21.51	
10	20.32	20.36	20.78	22.28	23.03	22.96	27.70	24.42	20.25	20.82	21.42	21.58	
11	20.34	20.36	20.78	22.70	23.00	22.93	27.65	24.25	20.18	20.95	21.45	21.69	
12	20.32	20.35	20.79	23.37	22.91	22.87	27.60	23.97	20.15	21.15	21.48	21.75	
13	20.31	20.36	20.80	23.46	22.79	22.79	27.55	23.83	20.40	21.30	21.52	21.79	
14	20.31	20.37	20.75	23.52	22.64	23.01	27.50	23.61	20.80	21.41	21.57	21.70	
15	20.32	20.37	20.69	23.40	22.43	23.63	27.47	23.40	21.15	21.46	21.58	21.58	
16	20.32	20.38	20.68	23.22	22.04	24.06	27.44	23.27	21.33	21.50	21.60	21.48	
17	20.31	20.42	20.69	22.91	21.91	25.68	27.36	23.13	21.46	21.45	21.64	21.39	
18	20.31	20.44	20.70	22.75	22.16	26.71	27.25	22.95	21.55	21.42	21.62	21.36	
19	20.31	20.45	20.71	22.56	22.28	26.82	27.10	22.76	21.60	21.39	21.57	21.36	
20	20.32	20.48	20.73	22.34	22.29	26.99	26.86	22.56	21.58	21.37	21.56	21.35	
21	20.32	20.49	20.74	21.76	22.23	27.18	26.70	22.44	21.52	21.37	21.59	21.32	
22	20.31	20.51	20.75	21.69	22.30	27.20	26.40	22.35	21.45	21.36	21.65	21.28	
23	20.30	20.52	20.76	21.77	22.33	27.26	26.21	22.29	21.38	21.33	21.62	21.26	
24	20.28	20.53	20.76	21.88	22.46	27.33	25.77	22.20	21.33	21.32	21.58	21.23	
25	20.28	20.53	20.77	22.09	22.63	27.36	25.49	21.93	21.31	21.30	21.54	21.21	
26	20.27	20.55	20.77	22.31	22.73	27.38	25.41	21.73	21.31	21.28	21.50	21.20	
27	20.28	20.61	20.77	22.63	22.85	27.40	25.41	21.50	21.31	21.27	21.48	21.20	
28	20.36	20.65	20.78	22.65	23.06	27.44	25.38	21.37	21.32	21.26	21.56	21.20	
29	20.43	20.62	20.79	22.44	23.33	27.54	25.37	21.21	21.33	21.25		21.23	
30	20.49	20.66	20.79	22.37	23.77	27.59	25.39	21.00	21.34	21.24		21.24	
31		20.69		22.37	24.09		25.42		21.34	21.26		21.25	
Mean	20.31	20.48	20.76	22.21	22.63	25.08	26.87	23.37	20.99	21.23	21.49	21.45	
Max	20.49	20.69	20.82	23.52	24.09	27.59	27.75	25.39	21.60	21.50	21.65	21.99	27.75
Min	20.23	20.35	20.68	20.81	21.91	22.79	25.37	21.00	20.15	20.71	21.30	21.20	20.15

Annual Max Momentary Gage Height 27.75 m. (MSL.) , at 06.00 Hours , on Oct 9 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 15.85 m. (MSL.)

Left Bank Elevation 29.84 m. (MSL.) ,

Right Bank Elevation 32.10 m. (MSL.) , Drainage Are 32,826 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.10	131.80	148.60	155.80	307.00	498.10	1000.20	451.20	160.60	200.70	204.30	235.00	
2	112.10	132.60	153.40	162.20	308.10	470.80	987.60	445.60	153.40	203.40	202.50	264.00	
3	112.10	133.40	156.60	169.40	321.30	453.90	998.40	440.80	149.40	196.20	200.70	256.00	
4	112.10	129.60	154.20	184.50	329.00	433.10	998.40	434.20	143.80	189.00	200.70	233.00	
5	114.20	127.50	151.80	199.80	325.70	403.60	994.80	427.60	138.20	180.90	198.00	215.10	
6	115.60	125.40	149.40	215.10	311.40	380.80	996.60	418.00	129.60	172.80	199.80	205.20	
7	116.30	123.30	151.00	230.00	309.20	380.80	1009.20	412.80	124.00	165.40	203.40	203.40	
8	117.70	122.60	152.60	244.00	311.40	376.00	1021.80	407.60	122.60	155.80	206.10	207.90	
9	118.40	121.90	153.40	265.00	323.50	374.80	1029.00	405.00	117.70	147.80	207.00	216.90	
10	118.40	121.20	153.40	293.80	379.60	371.20	1000.00	402.40	113.50	156.60	208.80	223.20	
11	119.80	121.20	153.40	340.00	376.00	367.60	975.00	400.50	108.60	167.00	211.50	234.00	
12	118.40	120.50	154.20	420.40	365.20	360.40	950.00	402.60	106.50	184.50	214.20	240.00	
13	117.70	121.20	155.00	431.80	350.80	350.80	927.00	405.40	124.00	198.00	217.80	244.00	
14	117.70	121.90	151.00	439.60	333.40	377.20	904.00	412.70	155.00	207.90	222.30	235.00	
15	118.40	121.90	146.20	424.00	310.30	453.90	891.40	424.00	184.50	212.40	223.20	223.20	
16	118.40	122.60	145.40	402.40	269.00	509.80	878.80	408.40	200.70	216.00	225.00	214.20	
17	117.70	125.40	146.20	365.20	256.00	732.20	846.80	391.60	212.40	211.50	229.00	206.10	
18	117.70	126.80	147.00	346.00	281.00	866.30	807.00	370.00	220.50	208.80	227.00	203.40	
19	117.70	127.50	147.80	324.60	293.80	880.60	756.00	347.20	225.00	206.10	222.30	203.40	
20	118.40	129.60	149.40	300.40	294.90	902.70	685.60	324.60	223.20	204.30	221.40	202.50	
21	118.40	130.30	150.20	241.00	288.30	927.40	646.00	311.40	217.80	204.30	224.10	199.80	
22	117.70	131.80	151.00	234.00	296.00	930.00	584.00	301.50	211.50	203.40	230.00	196.20	
23	117.00	132.60	151.80	242.00	299.30	940.80	549.80	294.90	205.20	200.70	227.00	194.40	
24	115.60	133.40	151.80	253.00	313.60	953.40	486.40	285.00	200.70	199.80	223.20	191.70	
25	115.60	133.40	152.60	274.00	332.30	958.80	459.20	258.00	198.90	198.00	219.60	189.90	
26	114.90	135.00	152.60	297.10	343.60	962.40	452.80	238.00	198.90	196.20	216.00	189.00	
27	115.60	139.80	152.60	332.30	358.00	966.00	452.80	216.00	198.90	195.30	214.20	189.00	
28	121.20	143.00	153.40	334.50	383.20	973.20	450.40	204.30	199.80	194.40	221.40	189.00	
29	126.10	140.60	154.20	311.40	415.60	991.20	449.60	189.90	200.70	193.50		191.70	
30	130.30	143.80	154.20	303.70	472.10	1000.20	451.20	171.00	201.60	192.60		192.60	
31		146.20		303.70	513.70		453.60		201.60	194.40		193.50	
Total	3523.30	4017.80	4544.40	9040.70	10372.30	19548.00	24093.40	10602.20	5348.80	5957.70	6020.50	6582.30	109651.40 CMSDAY
Mean	117.44	129.61	151.48	291.64	334.59	651.60	777.21	353.41	172.54	192.18	215.02	212.33	300.41 CMS
Max	130.30	146.20	156.60	439.60	513.70	1000.20	1029.00	451.20	225.00	216.00	230.00	264.00	1029.00 CMS
Min	112.10	120.50	145.40	155.80	256.00	350.80	449.60	171.00	106.50	147.80	198.00	189.00	106.50 CMS
Runoff	304.41	347.14	392.64	781.12	896.17	1688.95	2081.67	916.03	462.14	514.75	520.17	568.71	9473.88 MCM

Momentary Peak 1029.00 CMS. at 27.75 m. (MSL.) at 06.00 Hours , on Oct 9 , 2016

Runoff Yield 9.15 Liters/Second/Square KM. Momentary Peak Yield 31.350 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khwae Noi River at Ban Tha Ngam , Phitsanulok (N.22A)

Lat 16 - 59 - 33 N Long 100 - 19 - 31 E

Location : on left bank at Ban Tha Ngam.

Ban Tha Ngam **Amphoe** Wat Bot **Changwat** Phitsanulok

Drainge Area	4,774 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+41.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +52.936 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

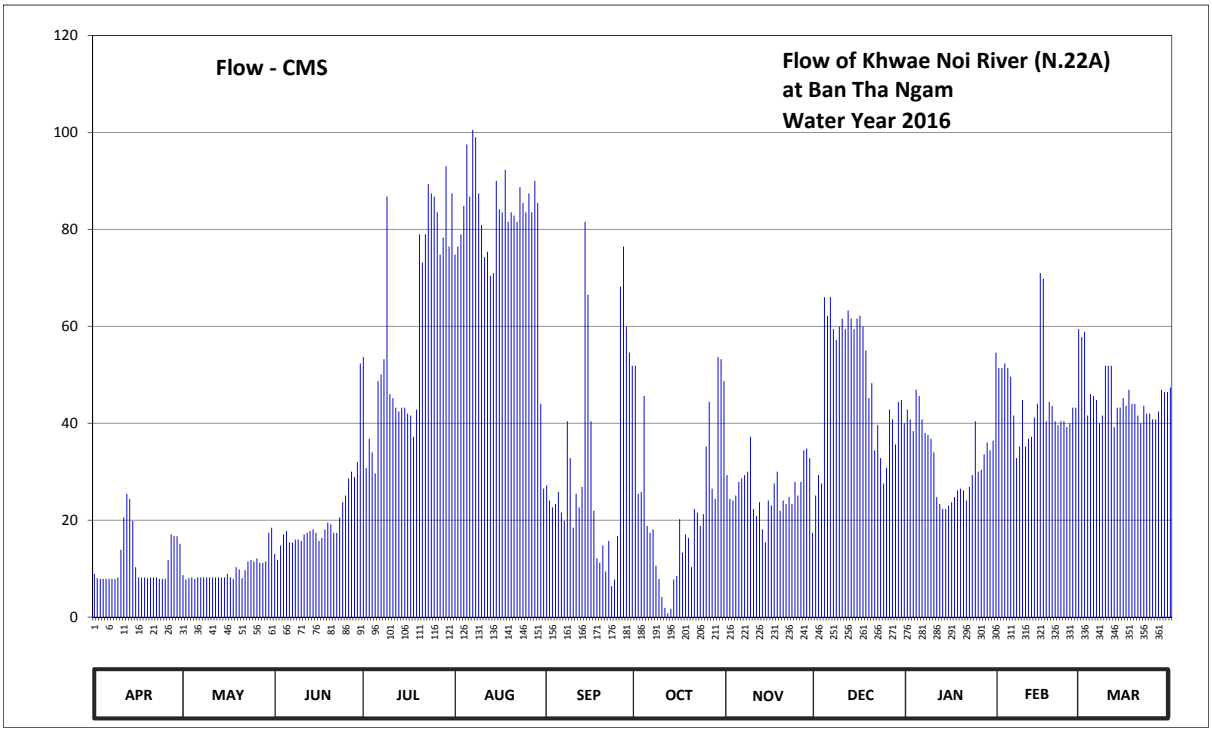
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.93	41.91	42.10	43.17	43.56	42.52	43.13	42.58	42.46	42.92	43.12	43.25	
2	41.87	41.85	42.06	42.62	43.59	42.43	42.47	42.44	42.58	42.87	43.12	43.27	
3	41.86	41.87	42.16	42.77	43.63	42.39	42.48	42.43	42.53	42.81	43.14	42.89	
4	41.86	41.88	42.23	42.70	43.72	42.41	42.99	42.46	43.40	43.02	43.12	43.00	
5	41.86	41.86	42.25	42.59	43.90	42.48	42.28	42.54	43.33	42.99	43.08	42.99	
6	41.86	41.88	42.18	43.06	43.75	42.36	42.24	42.56	43.40	42.87	42.89	42.97	
7	41.86	41.88	42.18	43.09	43.94	42.31	42.26	42.58	43.28	42.80	42.67	42.85	
8	41.86	41.88	42.20	43.16	43.92	42.86	42.02	42.60	43.24	42.79	42.73	42.89	
9	41.88	41.88	42.20	43.75	43.76	42.67	41.86	42.78	43.29	42.77	42.97	43.13	
10	42.13	41.88	42.19	43.00	43.66	42.27	41.61	42.38	43.32	42.70	42.73	43.13	
11	42.33	41.88	42.23	42.98	43.55	42.47	41.39	42.34	43.28	42.45	42.77	43.13	
12	42.47	41.88	42.24	42.93	43.57	42.39	41.28	42.42	43.35	42.41	42.78	42.83	
13	42.44	41.88	42.25	42.91	43.48	42.51	41.37	42.26	43.32	42.38	42.88	42.93	
14	42.31	41.88	42.26	42.93	43.49	43.67	41.85	42.18	43.28	42.38	42.95	42.93	
15	42.01	41.88	42.24	42.93	43.80	43.41	41.90	42.43	43.32	42.40	43.49	42.98	
16	41.88	41.93	42.19	42.90	43.71	42.86	42.32	42.40	43.33	42.42	43.47	42.94	
17	41.88	41.88	42.21	42.89	43.70	42.37	42.11	42.53	43.29	42.45	42.86	43.02	
18	41.88	41.86	42.26	42.78	43.83	42.07	42.23	42.60	43.20	42.49	42.96	42.95	
19	41.87	42.01	42.30	42.92	43.67	42.04	42.21	42.37	42.98	42.50	42.94	42.95	
20	41.88	41.99	42.29	43.63	43.70	42.16	42.01	42.43	43.05	42.49	42.86	42.89	
21	41.88	41.87	42.24	43.53	43.69	41.96	42.38	42.41	42.71	42.43	42.84	42.85	
22	41.88	41.98	42.24	43.63	43.67	42.19	42.36	42.45	42.84	42.51	42.86	42.94	
23	41.86	42.05	42.33	43.79	43.78	41.76	42.28	42.41	42.67	42.58	42.86	42.90	
24	41.86	42.06	42.42	43.76	43.73	41.85	42.35	42.54	42.53	42.86	42.83	42.90	
25	41.86	42.05	42.46	43.75	43.70	42.22	42.73	42.46	42.62	42.60	42.85	42.87	
26	42.06	42.07	42.56	43.70	43.76	43.44	42.96	42.54	42.92	42.61	42.93	42.87	
27	42.23	42.04	42.60	43.56	43.70	43.59	42.50	42.71	42.87	42.69	42.93	42.91	
28	42.22	42.04	42.57	43.62	43.80	43.29	42.44	42.72	42.74	42.75	43.28	43.02	
29	42.22	42.05	42.65	43.84	43.73	43.19	43.17	42.67	42.96	42.71		43.01	
30	42.17	42.24	43.14	43.59	42.95	43.13	43.16	42.24	42.97	42.76		43.01	
31		42.27		43.76	42.50		43.06		42.85	43.19		43.03	
Mean	42.01	41.95	42.31	43.23	43.64	42.58	42.30	42.48	43.03	42.66	42.96	42.98	
Max	42.47	42.27	43.14	43.84	43.94	43.67	43.17	42.78	43.40	43.19	43.49	43.27	43.94
Min	41.86	41.85	42.06	42.59	42.50	41.76	41.28	42.18	42.46	42.38	42.67	42.83	41.28

Annual Max Momentary Gage Height 44.08 m. (MSL.) , at 18.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 41.63 m. (MSL.) , River Bed 39.38 m. (MSL.)

Left Bank Elevation 52.77 m. (MSL.) ,

Right Bank Elevation 52.78 m. (MSL.) , Drainage Are 4,774 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.95	8.65	13.00	53.65	74.80	27.20	51.85	29.30	25.10	42.80	51.40	57.75	
2	8.05	7.75	11.80	30.80	76.45	24.05	25.45	24.40	29.30	40.80	51.40	58.85	
3	7.90	8.05	14.80	36.80	78.95	22.65	25.80	24.05	27.55	38.40	52.30	41.60	
4	7.90	8.20	17.05	34.00	84.80	23.35	45.60	25.10	66.00	46.90	51.40	46.00	
5	7.90	7.90	17.75	29.65	97.50	25.80	18.80	27.90	62.15	45.60	49.60	45.60	
6	7.90	8.20	15.40	48.70	86.75	21.60	17.40	28.60	66.00	40.80	41.60	44.80	
7	7.90	8.20	15.40	50.05	100.50	19.85	18.10	29.30	59.40	38.00	32.80	40.00	
8	7.90	8.20	16.00	53.20	99.00	40.40	10.60	30.00	57.20	37.60	35.20	41.60	
9	8.20	8.20	16.00	86.75	87.40	32.80	7.90	37.20	59.95	36.80	44.80	51.85	
10	13.90	8.20	15.70	46.00	80.90	18.45	4.15	22.30	61.60	34.00	35.20	51.85	
11	20.55	8.20	17.05	45.20	74.25	25.45	1.90	20.90	59.40	24.75	36.80	51.85	
12	25.45	8.20	17.40	43.20	75.35	22.65	0.80	23.70	63.25	23.35	37.20	39.20	
13	24.40	8.20	17.75	42.40	70.40	26.85	1.70	18.10	61.60	22.30	41.20	43.20	
14	19.85	8.20	18.10	43.20	70.95	81.55	7.75	15.40	59.40	22.30	44.00	43.20	
15	10.30	8.20	17.40	43.20	90.00	66.55	8.50	24.05	61.60	23.00	70.95	45.20	
16	8.20	8.95	15.70	42.00	84.15	40.40	20.20	23.00	62.15	23.70	69.85	43.60	
17	8.20	8.20	16.35	41.60	83.50	21.95	13.30	27.55	59.95	24.75	40.40	46.90	
18	8.20	7.90	18.10	37.20	92.25	12.10	17.05	30.00	55.00	26.15	44.40	44.00	
19	8.05	10.30	19.50	42.80	81.55	11.20	16.35	21.95	45.20	26.50	43.60	44.00	
20	8.20	9.85	19.15	78.95	83.50	14.80	10.30	24.05	48.25	26.15	40.40	41.60	
21	8.20	8.05	17.40	73.15	82.85	9.40	22.30	23.35	34.40	24.05	39.60	40.00	
22	8.20	9.70	17.40	78.95	81.55	15.70	21.60	24.75	39.60	26.85	40.40	43.60	
23	7.90	11.50	20.55	89.35	88.70	6.40	18.80	23.35	32.80	29.30	40.40	42.00	
24	7.90	11.80	23.70	87.40	85.45	7.75	21.25	27.90	27.55	40.40	39.20	42.00	
25	7.90	11.50	25.10	86.75	83.50	16.70	35.20	25.10	30.80	30.00	40.00	40.80	
26	11.80	12.10	28.60	83.50	87.40	68.20	44.40	27.90	42.80	30.40	43.20	40.80	
27	17.05	11.20	30.00	74.80	83.50	76.45	26.50	34.40	40.80	33.60	43.20	42.40	
28	16.70	11.20	28.95	78.30	90.00	59.95	24.40	34.80	35.60	36.00	59.40	46.90	
29	16.70	11.50	32.00	93.00	85.45	54.55	53.65	32.80	44.40	34.40		46.45	
30	15.10	17.40	52.30	76.45	44.00	51.85	53.20	17.40	44.80	36.40		46.45	
31		18.45		87.40	26.50		48.70		40.00	54.55		47.35	
Total	345.35	302.15	605.40	1838.40	2511.85	946.60	693.50	778.60	1503.60	1020.60	1259.90	1401.40	13207.35 CMSDAY
Mean	11.51	9.75	20.18	59.30	81.03	31.55	22.37	25.95	48.50	32.92	45.00	45.21	36.18 CMS
Max	25.45	18.45	52.30	93.00	100.50	81.55	53.65	37.20	66.00	54.55	70.95	58.85	100.50 CMS
Min	7.90	7.75	11.80	29.65	26.50	6.40	0.80	15.40	25.10	22.30	32.80	39.20	0.80 CMS
Runoff	29.84	26.11	52.31	158.84	217.02	81.79	59.92	67.27	129.91	88.18	108.86	121.08	1141.12 MCM

Momentary Peak 111.00 CMS. at 44.08 m. (MSL.) at 18.00 Hours , on Sep 14 , 2016

Runoff Yield 7.58 Liters/Second/Square KM. Momentary Peak Yield 23.250 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

Ban Wang Nok Aen **Amphoe** Wang Thong **Changwat** Phitsanulok

Drainge Area	1,838 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+40.710 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +54.851 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 - 1974 , 1980 to date
Rated by Flot	-
Rated by Current Meter	1965 - 1974 , 1980 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

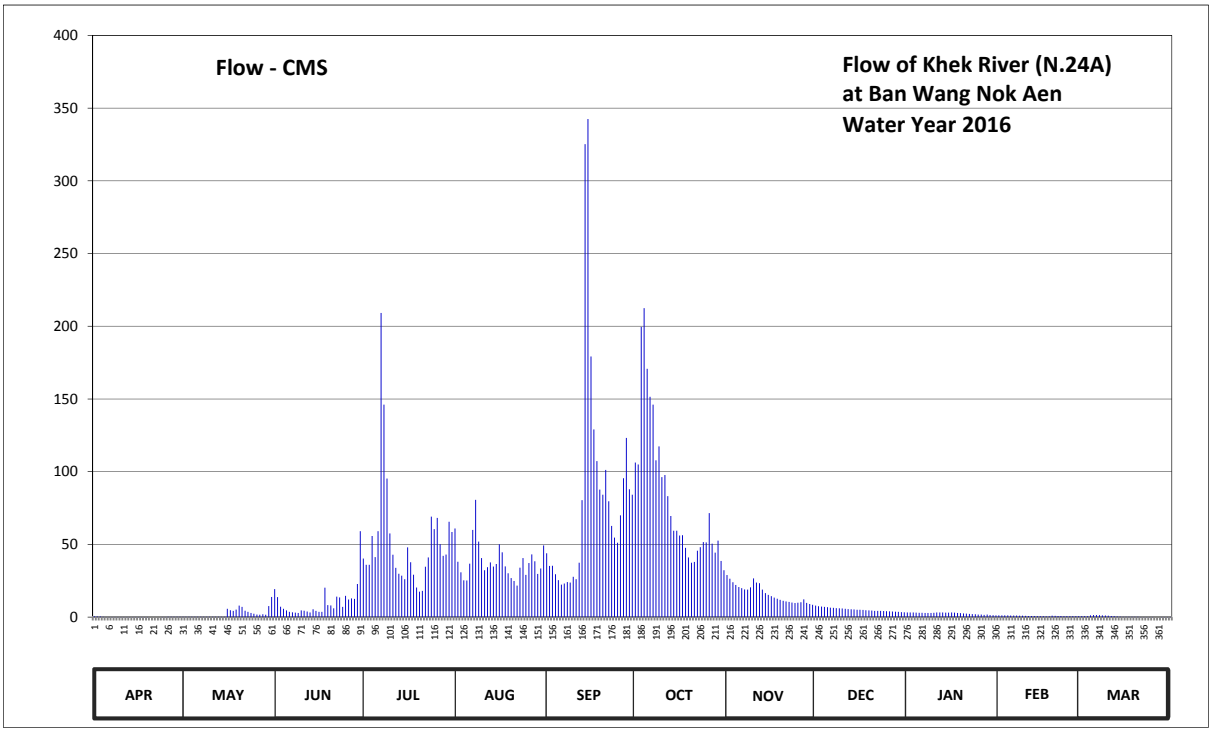
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.59	41.46	43.50	44.92	46.20	45.16	48.37	44.16	42.54	41.96	41.69	41.61	
2	41.55	41.46	43.06	44.63	44.77	44.58	48.32	43.99	42.50	41.95	41.69	41.60	
3	41.56	41.47	42.46	44.63	44.29	44.59	50.47	43.83	42.47	41.95	41.68	41.60	
4	41.45	41.46	42.29	45.90	43.92	44.20	50.63	43.71	42.45	41.94	41.68	41.69	
5	41.42	41.48	42.15	44.98	43.91	43.93	50.03	43.61	42.43	41.93	41.67	41.72	
6	41.42	41.48	42.02	46.09	44.68	43.72	49.65	43.55	42.40	41.93	41.67	41.71	
7	41.41	41.47	41.97	50.59	46.14	43.77	49.54	43.48	42.38	41.92	41.67	41.70	
8	41.41	41.47	41.94	49.54	47.28	43.84	48.43	43.47	42.36	41.92	41.66	41.69	
9	41.41	41.47	41.92	47.93	45.68	43.82	48.75	43.60	42.34	41.92	41.65	41.67	
10	41.40	41.47	42.15	46.00	44.94	44.08	47.97	44.01	42.32	41.93	41.64	41.65	
11	41.40	41.46	42.12	45.09	44.38	43.97	48.03	43.82	42.30	41.96	41.63	41.62	
12	41.39	41.46	42.05	44.49	44.52	44.73	47.41	43.79	42.27	41.95	41.63	41.60	
13	41.39	41.46	41.95	44.22	44.74	47.27	46.69	43.47	42.25	41.95	41.62	41.55	
14	41.38	41.45	42.25	44.13	44.55	51.77	46.11	43.28	42.24	41.94	41.61	41.51	
15	41.37	41.45	42.10	43.97	44.67	51.90	46.11	43.18	42.21	41.94	41.61	41.47	
16	41.36	42.29	42.02	45.43	45.57	50.17	45.92	43.11	42.20	41.95	41.60	41.45	
17	41.36	42.16	42.01	44.75	45.20	49.11	45.93	43.03	42.19	41.94	41.59	41.47	
18	41.35	42.11	43.58	44.18	44.56	48.41	45.41	42.97	42.17	41.92	41.58	41.46	
19	41.35	42.22	42.57	43.59	44.24	47.61	44.97	42.91	42.15	41.90	41.66	41.46	
20	41.34	42.54	42.55	43.36	44.02	47.45	44.73	42.86	42.14	41.87	41.64	41.45	
21	41.34	42.45	42.34	43.40	43.89	48.17	44.76	42.82	42.11	41.85	41.63	41.42	
22	41.34	42.12	43.09	44.54	43.68	47.23	45.28	42.79	42.11	41.83	41.62	41.37	
23	41.34	42.02	43.04	44.97	44.50	46.30	45.44	42.75	42.10	41.81	41.61	41.36	
24	41.38	41.92	42.45	46.66	44.94	45.84	45.66	42.72	42.09	41.79	41.61	41.37	
25	41.42	41.84	43.13	46.17	44.17	45.64	45.65	42.74	42.08	41.77	41.60	41.36	
26	41.44	41.77	42.93	46.61	44.71	46.71	46.80	42.77	42.06	41.76	41.60	41.33	
27	41.45	41.75	42.99	45.58	45.11	47.94	45.60	42.94	42.04	41.74	41.60	41.32	
28	41.45	41.80	42.96	45.04	44.79	48.93	45.19	42.73	42.03	41.76	41.61	41.39	
29	41.46	41.75	43.75	45.10	44.21	47.62	45.72	42.65	42.02	41.71		41.39	
30	41.47	42.51	46.09	46.46	44.46	47.45	44.81	42.60	41.99	41.70		41.38	
31		43.07		46.06	45.52		44.38		41.97	41.69		41.39	
Mean	41.41	41.82	42.65	45.45	44.78	46.53	46.86	43.24	42.22	41.87	41.63	41.51	
Max	41.59	43.07	46.09	50.59	47.28	51.90	50.63	44.16	42.54	41.96	41.69	41.72	51.90
Min	41.34	41.45	41.92	43.36	43.68	43.72	44.38	42.60	41.97	41.69	41.58	41.32	41.32

Annual Max Momentary Gage Height 52.59 m. (MSL.) , at 18.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 40.71 m. (MSL.) , River Bed 40.34 m. (MSL.)

Left Bank Elevation 55.43 m. (MSL.) ,

Right Bank Elevation 55.49 m. (MSL.) , Drainage Are 1,838 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.57	0.22	19.25	40.30	61.00	43.90	106.25	28.90	7.90	3.20	1.23	0.67		
2	0.45	0.22	13.75	35.95	38.05	35.20	105.00	26.35	7.50	3.13	1.23	0.60		
3	0.48	0.24	7.10	35.95	30.85	35.35	199.60	23.95	7.20	3.13	1.16	0.60		
4	0.20	0.22	5.67	55.75	25.30	29.50	212.40	22.15	7.00	3.05	1.16	1.23		
5	0.14	0.26	4.62	41.20	25.15	25.45	170.80	20.65	6.80	2.98	1.09	1.44		
6	0.14	0.26	3.65	59.08	36.70	22.30	151.50	19.88	6.50	2.98	1.09	1.37		
7	0.12	0.24	3.28	209.20	59.95	23.05	146.15	19.00	6.35	2.90	1.09	1.30		
8	0.12	0.24	3.05	146.15	80.60	24.10	107.82	18.88	6.20	2.90	1.02	1.23		
9	0.12	0.24	2.90	95.25	51.90	23.80	117.38	20.50	6.05	2.90	0.95	1.09		
10	0.10	0.24	4.62	57.50	40.60	27.70	96.25	26.65	5.90	2.98	0.88	0.95		
11	0.10	0.22	4.40	42.85	32.20	26.05	97.75	23.80	5.75	3.20	0.81	0.74		
12	0.09	0.22	3.87	33.85	34.30	37.45	83.22	23.35	5.52	3.13	0.81	0.60		
13	0.09	0.22	3.13	29.80	37.60	80.40	69.58	18.88	5.37	3.13	0.74	0.45		
14	0.08	0.20	5.37	28.45	34.75	325.25	59.43	16.50	5.30	3.05	0.67	0.33		
15	0.07	0.20	4.25	26.05	36.55	342.50	59.43	15.25	5.07	3.05	0.67	0.24		
16	0.06	5.67	3.65	47.95	50.05	179.20	56.10	14.38	5.00	3.13	0.60	0.20		
17	0.06	4.70	3.57	37.75	44.50	129.07	56.28	13.38	4.92	3.05	0.57	0.24		
18	0.05	4.32	20.25	29.20	34.90	107.27	47.65	12.63	4.77	2.90	0.54	0.22		
19	0.05	5.15	8.20	20.38	30.10	87.72	41.05	11.88	4.62	2.75	1.02	0.22		
20	0.04	7.90	8.00	17.50	26.80	84.12	37.45	11.25	4.55	2.53	0.88	0.20		
21	0.04	7.00	6.05	18.00	24.85	101.25	37.90	10.75	4.32	2.38	0.81	0.14		
22	0.04	4.40	14.13	34.60	21.70	79.60	45.70	10.40	4.32	2.23	0.74	0.07		
23	0.04	3.65	13.50	41.05	34.00	62.75	48.10	10.00	4.25	2.08	0.67	0.06		
24	0.08	2.90	7.00	69.05	40.60	54.70	51.55	9.70	4.17	1.93	0.67	0.07		
25	0.14	2.30	14.63	60.48	29.05	51.20	51.38	9.90	4.10	1.79	0.60	0.06		
26	0.18	1.79	12.13	68.18	37.15	69.93	71.50	10.20	3.95	1.72	0.60	0.03		
27	0.20	1.65	12.88	50.20	43.15	95.50	50.50	12.25	3.80	1.58	0.60	0.02		
28	0.20	2.00	12.50	42.10	38.35	123.23	44.35	9.80	3.72	1.72	0.67	0.09		
29	0.22	1.65	22.75	43.00	29.65	87.95	52.60	9.00	3.65	1.37		0.09		
30	0.24	7.60	59.08	65.55	33.40	84.12	38.65	8.50	3.43	1.30		0.08		
31		13.88		58.55	49.30		32.20		3.28	1.23		0.09		
Total	4.51	80.00	307.23	1640.87	1193.05	2499.61	2545.52	488.71	161.26	79.40	23.57	14.72	9038.45	CMSDAY
Mean	0.15	2.58	10.24	52.93	38.49	83.32	82.11	16.29	5.20	2.56	0.84	0.47	24.76	CMS
Max	0.57	13.88	59.08	209.20	80.60	342.50	212.40	28.90	7.90	3.20	1.23	1.44	342.50	CMS
Min	0.04	0.20	2.90	17.50	21.70	22.30	32.20	8.50	3.28	1.23	0.54	0.02	0.02	CMS
Runoff	0.39	6.91	26.54	141.77	103.08	215.97	219.93	42.22	13.93	6.86	2.04	1.27	780.92	MCM

Momentary Peak 442.45 CMS. at 52.59 m. (MSL.) at 18.00 Hours , on Sep 14 , 2016

Runoff Yield 13.47 Liters/Second/Square KM. Momentary Peak Yield 240.590 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Nong Kham , Phitsanulok (N.27A)

Lat 17 - 01 - 46 N Long 100 - 11 - 00 E

Location : on right bank about 1.8 kilometers downstream from Phrom Phiram Dam.

Ban Nong Kham **Amphoe** Phrom Phiram **Changwat** Phitsanulok

Drainge Area	19,363 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+38.430 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 10 meters from the top staff gage. **Elevation** +48.572 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1980 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Flot	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

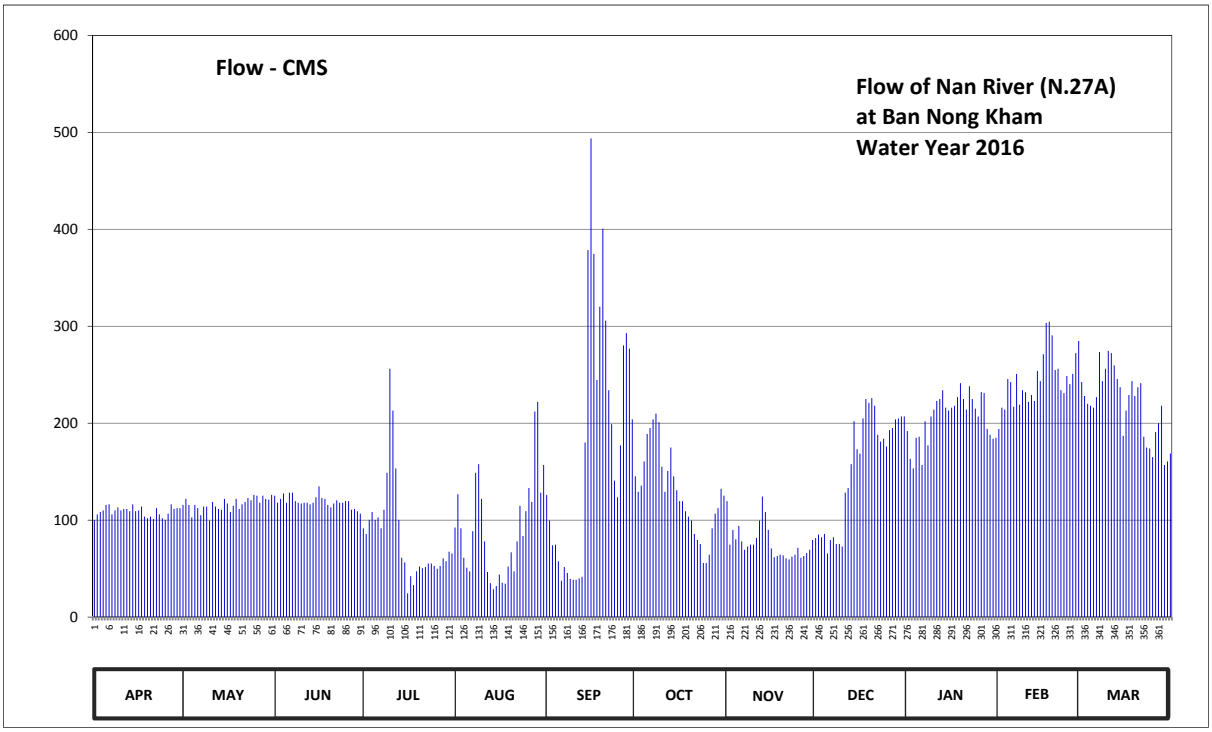
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.53	39.72	39.84	39.42	39.43	39.85	40.08	39.77	39.28	40.58	40.60	41.08	
2	39.60	39.80	39.75	39.34	39.86	39.52	39.89	39.18	39.33	40.28	40.82	40.94	
3	39.63	39.72	39.80	39.53	39.42	39.17	39.97	39.40	39.29	40.17	40.80	40.86	
4	39.65	39.56	39.87	39.63	38.97	39.18	40.25	39.26	39.34	40.51	41.11	40.84	
5	39.72	39.72	39.75	39.53	38.80	38.91	40.55	39.45	39.04	40.52	41.08	40.82	
6	39.73	39.68	39.88	39.56	38.73	38.55	40.61	39.23	39.25	40.21	40.83	40.93	
7	39.60	39.59	39.88	39.42	39.38	38.81	40.70	39.10	39.29	40.68	41.16	41.36	
8	39.65	39.70	39.77	39.66	40.12	38.70	40.76	39.15	39.19	40.43	40.85	41.09	
9	39.69	39.70	39.75	40.12	40.22	38.59	40.67	39.18	39.19	40.73	41.00	41.21	
10	39.65	39.52	39.74	41.21	39.80	38.57	40.19	39.18	39.15	40.80	40.98	41.37	
11	39.67	39.76	39.75	40.79	39.23	38.57	39.89	39.28	39.88	40.89	40.88	41.35	
12	39.67	39.70	39.75	40.17	38.72	38.60	40.14	39.52	39.94	40.91	40.95	41.24	
13	39.64	39.67	39.73	39.53	38.50	38.63	40.41	39.83	40.22	41.00	40.89	41.11	
14	39.73	39.66	39.75	38.97	38.37	40.46	40.08	39.63	40.68	40.82	41.19	41.03	
15	39.64	39.80	39.82	38.89	38.44	42.22	39.91	39.40	40.39	40.79	41.09	40.53	
16	39.65	39.74	39.96	38.28	38.67	43.07	39.77	39.12	40.34	40.82	41.34	40.79	
17	39.70	39.63	39.81	38.64	38.51	42.19	39.77	38.98	40.71	40.84	41.62	40.95	
18	39.57	39.71	39.80	38.46	38.49	41.10	39.64	39.00	40.91	40.93	41.63	41.09	
19	39.55	39.80	39.72	38.73	38.82	41.76	39.57	39.02	40.87	41.07	41.51	40.94	
20	39.57	39.67	39.69	38.82	39.06	42.39	39.52	39.01	40.92	40.91	41.20	41.03	
21	39.54	39.73	39.74	38.79	38.73	41.64	39.34	38.96	40.84	40.80	41.21	41.07	
22	39.68	39.76	39.78	38.81	39.23	41.00	39.25	38.94	40.54	41.04	41.00	40.52	
23	39.60	39.81	39.75	38.87	39.71	40.65	39.19	38.99	40.47	40.91	40.97	40.41	
24	39.55	39.78	39.75	38.87	39.31	40.03	38.88	39.02	40.50	40.81	41.14	40.40	
25	39.53	39.85	39.77	38.83	39.64	39.82	38.88	39.13	40.42	40.73	41.06	40.30	
26	39.61	39.84	39.77	38.78	39.94	40.43	39.02	38.97	40.59	40.98	41.16	40.57	
27	39.73	39.75	39.66	38.83	39.76	41.42	39.42	39.00	40.61	40.97	41.35	40.66	
28	39.67	39.84	39.67	38.96	40.78	41.53	39.61	39.05	40.70	40.60	41.46	40.84	
29	39.68	39.80	39.64	38.91	40.88	41.39	39.68	39.10	40.71	40.54		40.21	
30	39.68	39.79	39.61	39.07	39.88	40.70	39.93	39.25	40.73	40.50		40.25	
31		39.85		39.04	40.21		39.84		40.73	40.51		40.34	
Mean	39.64	39.73	39.77	39.24	39.34	40.25	39.85	39.20	40.13	40.72	41.10	40.84	
Max	39.73	39.85	39.96	41.21	40.88	43.07	40.76	39.83	40.92	41.07	41.63	41.37	43.07
Min	39.53	39.52	39.61	38.28	38.37	38.55	38.88	38.94	39.04	40.17	40.60	40.21	38.28

Annual Max Momentary Gage Height 43.16 m. (MSL.) , at 09.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 38.43 m. (MSL.) , River Bed 34.00 m. (MSL.)

Left Bank Elevation 49.44 m. (MSL.) ,

Right Bank Elevation 49.03 m. (MSL.) , Drainage Are 19,363 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	100.40	115.60	125.20	91.60	92.40	126.00	145.20	119.60	81.60	192.00	194.00	242.40	
2	106.00	122.00	118.00	85.80	126.80	99.60	129.20	74.70	85.10	163.20	216.00	228.00	
3	108.40	115.60	122.00	100.40	91.60	74.05	135.60	90.00	82.30	153.30	214.00	220.00	
4	110.00	102.80	127.60	108.40	61.20	74.70	160.50	80.20	85.80	185.00	245.55	218.00	
5	115.60	115.60	118.00	100.40	51.00	57.60	189.00	94.00	65.60	186.00	242.40	216.00	
6	116.40	112.40	128.40	102.80	47.15	37.50	195.00	78.10	79.50	156.90	217.00	227.00	
7	106.00	105.20	128.40	91.60	88.60	51.60	204.00	69.50	82.30	202.00	250.80	273.40	
8	110.00	114.00	119.60	110.80	148.80	45.50	210.00	72.75	75.35	177.00	219.00	243.45	
9	113.20	114.00	118.00	148.80	157.80	39.50	201.00	74.70	75.35	207.00	234.00	256.15	
10	110.00	99.60	117.20	256.15	122.00	38.50	155.10	74.70	72.75	214.00	232.00	274.55	
11	111.60	118.80	118.00	213.00	78.10	38.50	129.20	81.60	128.40	223.00	222.00	272.25	
12	111.60	114.00	118.00	153.30	46.60	40.00	150.60	99.60	133.20	225.00	229.00	259.60	
13	109.20	111.60	116.40	100.40	35.00	41.65	175.00	124.40	157.80	234.00	223.00	245.55	
14	116.40	110.80	118.00	61.20	28.65	180.00	145.20	108.40	202.00	216.00	253.95	237.15	
15	109.20	122.00	123.60	56.40	32.00	378.60	130.80	90.00	173.10	213.00	243.45	187.00	
16	110.00	117.20	134.80	24.60	43.85	493.80	119.60	70.80	168.60	216.00	271.10	213.00	
17	114.00	108.40	122.80	42.20	35.50	374.70	119.60	61.80	205.00	218.00	303.40	229.00	
18	103.60	114.80	122.00	33.00	34.50	244.50	109.20	63.00	225.00	227.00	304.60	243.45	
19	102.00	122.00	115.60	47.15	52.20	320.20	103.60	64.30	221.00	241.35	290.65	228.00	
20	103.60	111.60	113.20	52.20	66.90	400.70	99.60	63.65	226.00	225.00	255.00	237.15	
21	101.20	116.40	117.20	50.45	47.15	305.80	85.80	60.60	218.00	214.00	256.15	241.35	
22	112.40	118.80	120.40	51.60	78.10	234.00	79.50	59.40	188.00	238.20	234.00	186.00	
23	106.00	122.80	118.00	55.20	114.80	199.00	75.35	62.40	181.00	225.00	231.00	175.00	
24	102.00	120.40	118.00	55.20	83.70	140.70	55.80	64.30	184.00	215.00	248.70	174.00	
25	100.40	126.00	119.60	52.80	109.20	123.60	55.80	71.45	176.00	207.00	240.30	165.00	
26	106.80	125.20	119.60	49.90	133.20	177.00	64.30	61.20	193.00	232.00	250.80	191.00	
27	116.40	118.00	110.80	52.80	118.80	280.30	91.60	63.00	195.00	231.00	272.25	200.00	
28	111.60	125.20	111.60	60.60	212.00	292.95	106.80	66.25	204.00	194.00	284.90	218.00	
29	112.40	122.00	109.20	57.60	222.00	276.85	112.40	69.50	205.00	188.00		156.90	
30	112.40	121.20	106.80	67.55	128.40	204.00	132.40	79.50	207.00	184.00		160.50	
31		126.00		65.60	156.90		125.20		207.00	185.00		168.60	
Total	3268.80	3610.00	3576.00	2599.50	2844.90	5391.40	3991.95	2313.40	4783.75	6387.95	6879.00	6787.45	52434.10	CMSDAY
Mean	108.96	116.45	119.20	83.85	91.77	179.71	128.77	77.11	154.31	206.06	245.68	218.95	143.66	CMS
Max	116.40	126.00	134.80	256.15	222.00	493.80	210.00	124.40	226.00	241.35	304.60	274.55	493.80	CMS
Min	100.40	99.60	106.80	24.60	28.65	37.50	55.80	59.40	65.60	153.30	194.00	156.90	24.60	CMS
Runoff	282.42	311.90	308.97	224.60	245.80	465.82	344.90	199.88	413.32	551.92	594.35	586.44	4530.31	MCM

Momentary Peak 506.40 CMS. at 43.16 m. (MSL.) at 09.00 Hours , on Sep 16 , 2016

Runoff Yield 7.42 Liters/Second/Square KM. Momentary Peak Yield 26.160 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khlong Tron at Ban Na Klam , Uttaradit (N.28A)

Lat 17 - 35 - 00 N Long 100 - 29 - 30 E

Location : on right bank at Ban Na Klam.

Ban Na Klam **Amphoe** Nam Pat **Changwat** Uttaradit

Drainge Area	368 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+120.274 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +126.015 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Flot	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

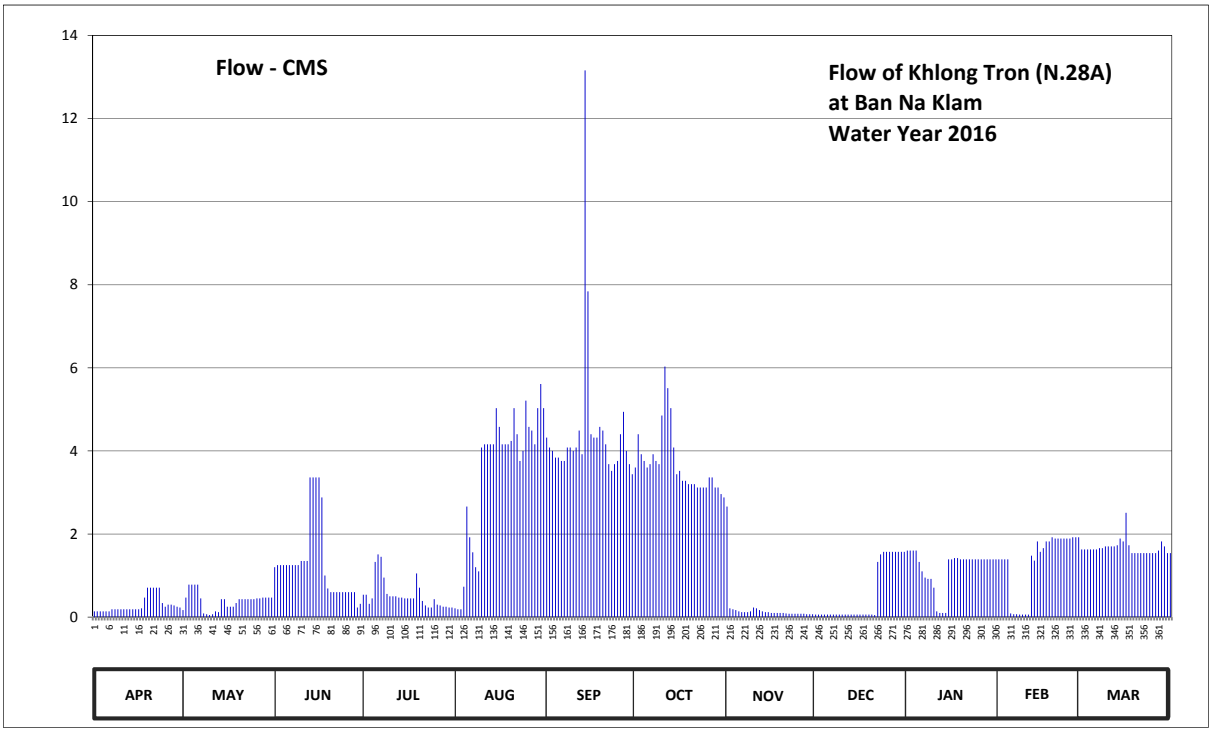
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.62	121.63	121.74	121.80	121.65	122.19	122.10	121.98	121.52	122.20	122.13	122.21	
2	121.62	121.77	121.75	121.80	121.64	122.16	122.20	121.65	121.52	122.20	122.13	122.21	
3	121.62	121.90	121.75	121.70	121.64	122.15	122.14	121.64	121.52	122.20	122.13	122.21	
4	121.62	121.90	121.75	121.76	121.64	122.13	122.12	121.63	121.52	122.20	122.13	122.21	
5	121.62	121.90	121.75	122.11	121.98	122.13	122.10	121.62	121.52	122.11	121.58	122.21	
6	121.62	121.90	121.75	122.17	121.87	122.12	122.11	121.61	121.52	122.03	121.53	122.21	
7	121.64	121.76	121.75	122.15	121.81	122.12	122.14	121.61	121.52	121.97	121.53	122.22	
8	121.64	121.57	121.75	121.97	121.74	122.16	122.12	121.61	121.52	121.96	121.52	122.22	
9	121.64	121.53	121.75	121.81	121.72	122.16	122.11	121.62	121.52	121.96	121.52	122.23	
10	121.64	121.50	121.77	121.78	122.16	122.15	122.25	121.66	121.52	121.87	121.52	122.23	
11	121.64	121.54	121.77	121.78	122.17	122.16	122.37	121.65	121.52	121.62	121.52	122.23	
12	121.64	121.62	121.77	121.78	122.17	122.21	122.32	121.63	121.52	121.60	122.16	122.23	
13	121.64	121.61	122.07	121.77	122.17	122.14	122.27	121.62	121.52	121.60	122.12	122.24	
14	121.64	121.75	122.07	121.77	122.17	122.96	122.16	121.61	121.52	121.59	122.27	122.29	
15	121.64	121.75	122.07	121.76	122.27	122.54	122.08	121.61	121.52	122.13	122.19	122.27	
16	121.64	121.67	122.07	121.76	122.22	122.20	122.09	121.60	121.51	122.13	122.22	122.47	
17	121.65	121.67	122.01	121.76	122.17	122.19	122.06	121.60	121.51	122.14	122.27	122.24	
18	121.77	121.67	121.70	121.76	122.17	122.19	122.06	121.60	121.51	122.14	122.27	122.18	
19	121.87	121.71	121.63	122.01	122.17	122.22	122.05	121.60	121.51	122.13	122.30	122.18	
20	121.87	121.75	121.61	121.87	122.18	122.21	122.05	121.60	121.51	122.13	122.29	122.18	
21	121.87	121.75	121.61	121.73	122.27	122.17	122.05	121.57	121.50	122.13	122.29	122.18	
22	121.87	121.75	121.61	121.68	122.20	122.11	122.04	121.55	122.11	122.13	122.29	122.18	
23	121.87	121.75	121.61	121.66	122.12	122.09	122.04	121.55	122.17	122.13	122.29	122.18	
24	121.71	121.75	121.61	121.66	122.15	122.11	122.04	121.55	122.19	122.13	122.29	122.18	
25	121.67	121.75	121.61	121.75	122.29	122.12	122.04	121.55	122.19	122.13	122.29	122.18	
26	121.69	121.76	121.61	121.69	122.22	122.20	122.07	121.55	122.19	122.13	122.30	122.18	
27	121.69	121.76	121.61	121.68	122.21	122.26	122.07	121.55	122.19	122.13	122.30	122.20	
28	121.68	121.77	121.61	121.67	122.17	122.15	122.04	121.54	122.19	122.13	122.30	122.27	
29	121.67	121.77	121.66	121.67	122.27	122.11	122.04	121.54	122.19	122.13		122.23	
30	121.66	121.77	121.70	121.66	122.33	122.08	122.02	121.54	122.19	122.13		122.18	
31		121.77		121.66	122.27		122.01		122.19	122.13		122.18	
Mean	121.69	121.72	121.75	121.79	122.07	122.20	122.11	121.61	121.73	122.04	122.06	122.22	
Max	121.87	121.90	122.07	122.17	122.33	122.96	122.37	121.98	122.19	122.20	122.30	122.47	122.96
Min	121.62	121.50	121.61	121.66	121.64	122.08	122.01	121.54	121.50	121.59	121.52	122.18	121.50

Annual Max Momentary Gage Height 123.20 m. (MSL.) , at 06.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 120.27 m. (MSL.) , River Bed 120.27 m. (MSL.)

Left Bank Elevation 127.28 m. (MSL.) ,

Right Bank Elevation 127.28 m. (MSL.) , Drainage Are 368 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.17	1.20	0.54	0.21	4.32	3.60	2.66	0.06	1.60	1.39	1.63	
2	0.14	0.47	1.25	0.54	0.19	4.08	4.40	0.21	0.06	1.60	1.39	1.63	
3	0.14	0.78	1.25	0.32	0.19	4.00	3.92	0.19	0.06	1.60	1.39	1.63	
4	0.14	0.78	1.25	0.45	0.73	3.84	3.76	0.17	0.06	1.60	1.39	1.63	
5	0.14	0.78	1.25	1.33	2.66	3.84	3.60	0.14	0.06	1.33	0.09	1.63	
6	0.14	0.78	1.25	1.51	1.92	3.76	3.68	0.12	0.06	1.10	0.07	1.63	
7	0.19	0.45	1.25	1.45	1.56	3.76	3.92	0.12	0.06	0.95	0.07	1.66	
8	0.19	0.09	1.25	0.95	1.20	4.08	3.76	0.12	0.06	0.92	0.06	1.66	
9	0.19	0.07	1.25	0.56	1.10	4.08	3.68	0.14	0.06	0.92	0.06	1.70	
10	0.19	0.05	1.35	0.50	4.08	4.00	4.85	0.23	0.06	0.71	0.06	1.70	
11	0.19	0.07	1.35	0.50	4.16	4.08	6.03	0.21	0.06	0.14	0.06	1.70	
12	0.19	0.14	1.35	0.50	4.16	4.49	5.51	0.17	0.06	0.10	1.48	1.70	
13	0.19	0.12	3.36	0.47	4.16	3.92	5.03	0.14	0.06	0.10	1.36	1.73	
14	0.19	0.43	3.36	0.47	4.16	13.16	4.08	0.12	0.06	0.10	1.82	1.89	
15	0.19	0.43	3.36	0.45	5.03	7.84	3.44	0.12	0.06	1.39	1.57	1.82	
16	0.19	0.25	3.36	0.45	4.58	4.40	3.52	0.10	0.06	1.39	1.66	2.51	
17	0.21	0.25	2.88	0.45	4.16	4.32	3.28	0.10	0.06	1.42	1.82	1.73	
18	0.47	0.25	1.00	0.45	4.16	4.32	3.28	0.10	0.06	1.42	1.82	1.54	
19	0.71	0.34	0.69	1.05	4.16	4.58	3.20	0.10	0.06	1.39	1.92	1.54	
20	0.71	0.43	0.60	0.71	4.24	4.49	3.20	0.10	0.06	1.39	1.89	1.54	
21	0.71	0.43	0.60	0.39	5.03	4.16	3.20	0.09	0.05	1.39	1.89	1.54	
22	0.71	0.43	0.60	0.28	4.40	3.68	3.12	0.08	1.33	1.39	1.89	1.54	
23	0.71	0.43	0.60	0.23	3.76	3.52	3.12	0.08	1.51	1.39	1.89	1.54	
24	0.34	0.43	0.60	0.23	4.00	3.68	3.12	0.08	1.57	1.39	1.89	1.54	
25	0.25	0.43	0.60	0.43	5.21	3.76	3.12	0.08	1.57	1.39	1.89	1.54	
26	0.30	0.45	0.60	0.30	4.58	4.40	3.36	0.08	1.57	1.39	1.92	1.54	
27	0.30	0.45	0.60	0.28	4.49	4.94	3.36	0.08	1.57	1.39	1.92	1.60	
28	0.28	0.47	0.60	0.25	4.16	4.00	3.12	0.07	1.57	1.39	1.92	1.82	
29	0.25	0.47	0.23	0.25	5.03	3.68	3.12	0.07	1.57	1.39		1.70	
30	0.23	0.47	0.32	0.23	5.61	3.44	2.96	0.07	1.57	1.39		1.54	
31		0.47		0.23	5.03		2.88		1.57	1.39		1.54	
Total	8.92	11.59	39.21	16.75	108.11	134.62	114.22	6.14	16.65	36.46	36.58	51.64	580.89 CMSDAY
Mean	0.30	0.39	1.31	0.54	3.49	4.49	3.68	0.20	0.54	1.18	1.31	1.67	1.60 CMS
Max	0.71	0.78	3.36	1.51	5.61	13.16	6.03	2.66	1.57	1.60	1.92	2.51	13.16 CMS
Min	0.14	0.05	0.23	0.23	0.19	3.44	2.88	0.07	0.05	0.10	0.06	1.54	0.05 CMS
Runoff	0.77	1.00	3.39	1.45	9.34	11.63	9.87	0.53	1.44	3.15	3.16	4.46	50.19 MCM

Momentary Peak 16.80 CMS. at 123.20 m. (MSL.) at 06.00 Hours , on Sep 14 , 2016

Runoff Yield 4.32 Liters/Second/Square KM. Momentary Peak Yield 45.650 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khwae Noi River at Ban Nong Krathao , Phitsanulok (N.36)

Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

Ban Nong Krathao **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	1,710 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+191.880 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank along the measuring line. **Elevation** +200.293 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1971 - 1979 , 1993 to date
Rated by Flot	-
Rated by Current Meter	1971 - 1979 , 1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

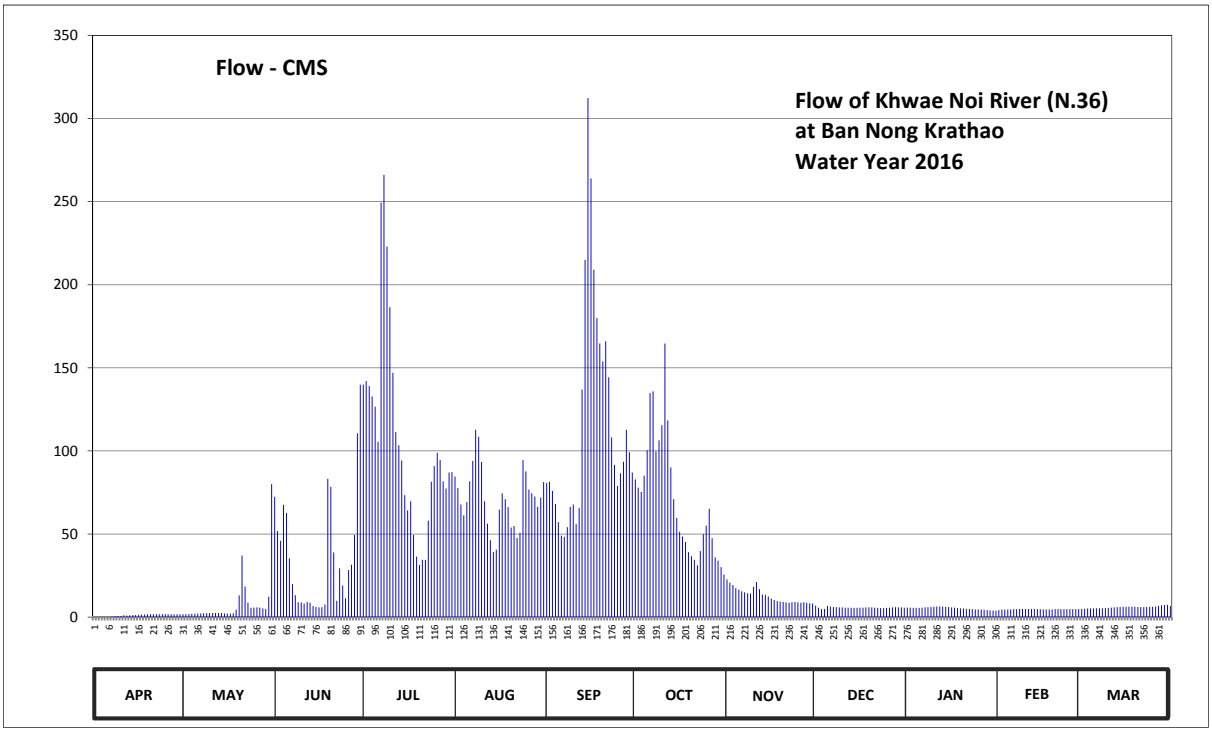
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.67	193.55	197.09	198.77	197.60	197.44	197.53	194.87	194.02	193.93	193.82	193.88	
2	192.84	193.55	196.21	198.79	197.31	197.47	197.32	194.78	193.93	193.93	193.84	193.88	
3	192.93	193.56	195.94	198.76	196.90	197.24	197.21	194.70	193.87	193.92	193.84	193.89	
4	192.96	193.58	196.89	198.70	196.62	196.91	197.62	194.61	193.87	193.92	193.85	193.89	
5	193.09	193.58	196.68	198.64	196.96	196.44	198.21	194.56	194.00	193.92	193.85	193.90	
6	193.11	193.60	195.46	198.33	197.48	196.08	198.72	194.51	193.98	193.93	193.86	193.90	
7	193.22	193.61	194.73	199.43	197.99	196.05	198.73	194.48	193.96	193.94	193.86	193.90	
8	193.33	193.62	194.39	199.51	198.46	196.31	198.19	194.45	193.95	193.95	193.87	193.91	
9	193.37	193.63	194.14	199.30	198.40	196.84	198.35	194.44	193.94	193.96	193.87	193.91	
10	193.36	193.63	194.13	199.10	197.96	196.90	198.50	194.65	193.94	193.97	193.87	193.92	
11	193.45	193.64	194.09	198.83	196.98	196.39	198.96	194.80	193.93	193.98	193.87	193.93	
12	193.42	193.64	194.15	198.44	196.40	196.81	198.54	194.58	193.93	193.99	193.87	193.94	
13	193.46	193.64	194.12	198.28	195.96	198.74	197.83	194.41	193.92	193.98	193.87	193.95	
14	193.47	193.65	194.00	198.00	195.63	199.26	197.03	194.40	193.92	193.97	193.86	193.96	
15	193.47	193.61	193.96	197.13	195.70	199.73	196.55	194.34	193.92	193.96	193.86	193.97	
16	193.49	193.60	193.94	196.75	196.77	199.50	196.19	194.26	193.93	193.94	193.85	193.97	
17	193.51	193.60	193.95	196.98	197.18	199.23	196.06	194.22	193.93	193.93	193.85	193.97	
18	193.52	193.62	194.06	196.10	197.03	199.06	195.91	194.18	193.94	193.91	193.85	193.97	
19	193.54	193.83	197.54	195.51	196.83	198.96	195.63	194.16	193.94	193.90	193.85	193.97	
20	193.55	194.38	197.34	195.28	196.30	198.88	195.52	194.15	193.94	193.89	193.86	193.96	
21	193.54	195.54	195.62	195.42	196.34	198.97	195.42	194.13	193.93	193.88	193.86	193.96	
22	193.54	194.66	194.19	195.42	196.02	198.81	195.27	194.12	193.92	193.87	193.86	193.96	
23	193.55	194.12	195.19	196.48	196.16	198.39	195.66	194.14	193.91	193.86	193.86	193.96	
24	193.55	193.93	194.69	197.47	198.01	197.89	196.12	194.15	193.91	193.85	193.86	193.97	
25	193.56	193.93	194.28	197.86	197.73	197.36	196.35	194.13	193.92	193.85	193.86	193.97	
26	193.55	193.94	195.14	198.16	197.27	197.68	196.79	194.12	193.93	193.84	193.86	193.98	
27	193.54	193.93	195.29	198.01	197.18	197.97	196.01	194.14	193.94	193.83	193.86	194.01	
28	193.54	193.90	196.10	197.48	197.10	198.46	195.49	194.12	193.95	193.81	193.87	194.03	
29	193.54	193.86	198.43	197.30	196.84	198.17	195.40	194.10	193.94	193.80		194.04	
30	193.54	194.33	198.77	197.70	197.07	197.70	195.22	194.09	193.94	193.79		194.05	
31		197.41		197.71	197.46		195.01		193.93	193.78		194.01	
Mean	193.37	193.96	195.35	197.73	197.02	197.85	196.82	194.36	193.93	193.90	193.86	193.95	
Max	193.56	197.41	198.77	199.51	198.46	199.73	198.96	194.87	194.02	193.99	193.87	194.05	199.73
Min	192.67	193.55	193.94	195.28	195.63	196.05	195.01	194.09	193.87	193.78	193.82	193.88	192.67

Annual Max Momentary Gage Height 199.78 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 191.88 m. (MSL.) , River Bed 191.07 m. (MSL.)

Left Bank Elevation 202.26 m. (MSL.) ,

Right Bank Elevation 202.26 m. (MSL.) , Drainage Are 1,710 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.77	72.36	139.92	84.60	80.76	82.92	22.67	6.94	5.69	4.26	5.04	
2	0.00	1.77	51.83	141.97	77.64	81.48	77.88	20.80	5.69	5.69	4.52	5.04	
3	0.00	1.84	45.88	138.90	67.80	75.96	75.24	19.20	4.91	5.56	4.52	5.17	
4	0.00	1.97	67.56	132.75	61.26	68.04	85.08	17.40	4.91	5.56	4.65	5.17	
5	0.09	1.97	62.64	126.60	69.24	57.12	100.43	16.44	6.60	5.56	4.65	5.30	
6	0.11	2.10	35.32	105.53	81.72	48.96	134.80	15.49	6.34	5.69	4.78	5.30	
7	0.26	2.19	19.80	249.30	93.96	48.30	135.82	14.92	6.08	5.82	4.78	5.30	
8	0.59	2.29	13.23	266.10	112.70	54.13	99.71	14.35	5.95	5.95	4.91	5.43	
9	0.71	2.38	8.98	223.00	108.50	66.36	106.38	14.16	5.82	6.08	4.91	5.43	
10	0.68	2.38	8.81	186.50	93.24	67.80	115.50	18.20	5.82	6.21	4.91	5.56	
11	1.13	2.48	8.13	147.05	69.72	55.97	164.60	21.20	5.69	6.34	4.91	5.69	
12	0.93	2.48	9.15	111.30	56.20	65.64	118.30	16.82	5.69	6.47	4.91	5.82	
13	1.19	2.48	8.64	103.40	46.32	136.85	90.12	13.59	5.56	6.34	4.91	5.95	
14	1.26	2.57	6.60	94.20	39.06	215.00	70.92	13.40	5.56	6.21	4.78	6.08	
15	1.26	2.19	6.08	73.32	40.60	312.30	59.65	12.38	5.56	6.08	4.78	6.21	
16	1.39	2.10	5.82	64.25	64.71	264.00	51.38	11.02	5.69	5.82	4.65	6.21	
17	1.51	2.10	5.95	69.72	74.52	209.00	48.52	10.34	5.69	5.69	4.65	6.21	
18	1.58	2.29	7.62	49.40	70.92	179.90	45.22	9.66	5.82	5.43	4.65	6.21	
19	1.71	4.39	83.16	36.42	66.12	164.60	39.06	9.32	5.82	5.30	4.65	6.21	
20	1.77	13.06	78.36	31.36	53.90	153.80	36.64	9.15	5.82	5.17	4.78	6.08	
21	1.71	37.08	38.84	34.44	54.82	165.95	34.44	8.81	5.69	5.04	4.78	6.08	
22	1.71	18.40	9.83	34.44	47.64	144.35	31.14	8.64	5.56	4.91	4.78	6.08	
23	1.77	8.64	29.39	58.04	50.72	108.08	39.72	8.98	5.43	4.78	4.78	6.08	
24	1.77	5.69	19.00	81.48	94.49	91.56	49.84	9.15	5.43	4.65	4.78	6.21	
25	1.84	5.69	11.36	90.84	87.72	78.84	55.05	8.81	5.56	4.65	4.78	6.21	
26	1.77	5.82	28.34	98.84	76.68	86.52	65.17	8.64	5.69	4.52	4.78	6.34	
27	1.71	5.69	31.58	94.49	74.52	93.48	47.42	8.98	5.82	4.39	4.78	6.77	
28	1.71	5.30	49.40	81.72	72.60	112.70	35.98	8.64	5.95	4.13	4.91	7.11	
29	1.71	4.78	110.60	77.40	66.36	99.13	34.00	8.30	5.82	4.00		7.28	
30	1.71	12.21	139.92	87.00	71.88	87.00	30.04	8.13	5.82	3.90		7.45	
31		80.04		87.24	81.24		25.61		5.69	3.81		6.77	
Total	33.58	246.14	1074.18	3316.92	2211.40	3473.58	2186.58	387.59	178.42	165.44	132.93	185.79	13592.55	CMSDAY
Mean	1.12	7.94	35.81	107.00	71.34	115.79	70.53	12.92	5.76	5.34	4.75	5.99	37.24	CMS
Max	1.84	80.04	139.92	266.10	112.70	312.30	164.60	22.67	6.94	6.47	4.91	7.45	312.30	CMS
Min	0.00	1.77	5.82	31.36	39.06	48.30	25.61	8.13	4.91	3.81	4.26	5.04	0.00	CMS
Runoff	2.90	21.27	92.81	286.58	191.06	300.12	188.92	33.49	15.42	14.29	11.49	16.05	1174.40	MCM

Momentary Peak 322.80 CMS. at 199.78 m. (MSL.) at 06.00 Hours , on Sep 15 , 2016

Runoff Yield 21.78 Liters/Second/Square KM. Momentary Peak Yield 188.770 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Thap Krit , Nakhon Sawan (N.37)

Lat 15 - 45 - 20 N Long 100 - 15 - 29 E

Location : on right bank at Ban Thap Krit.

	Ban Thap Krit	**Amphoe** Chum Saeng	**Changwat** Nakhon Sawan
Drainge Area	57,613 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank in front of automatic gage building.	**Elevation**	+27.246 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1971 to date		
Rated by Flot	-		
Rated by Current Meter	1971 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

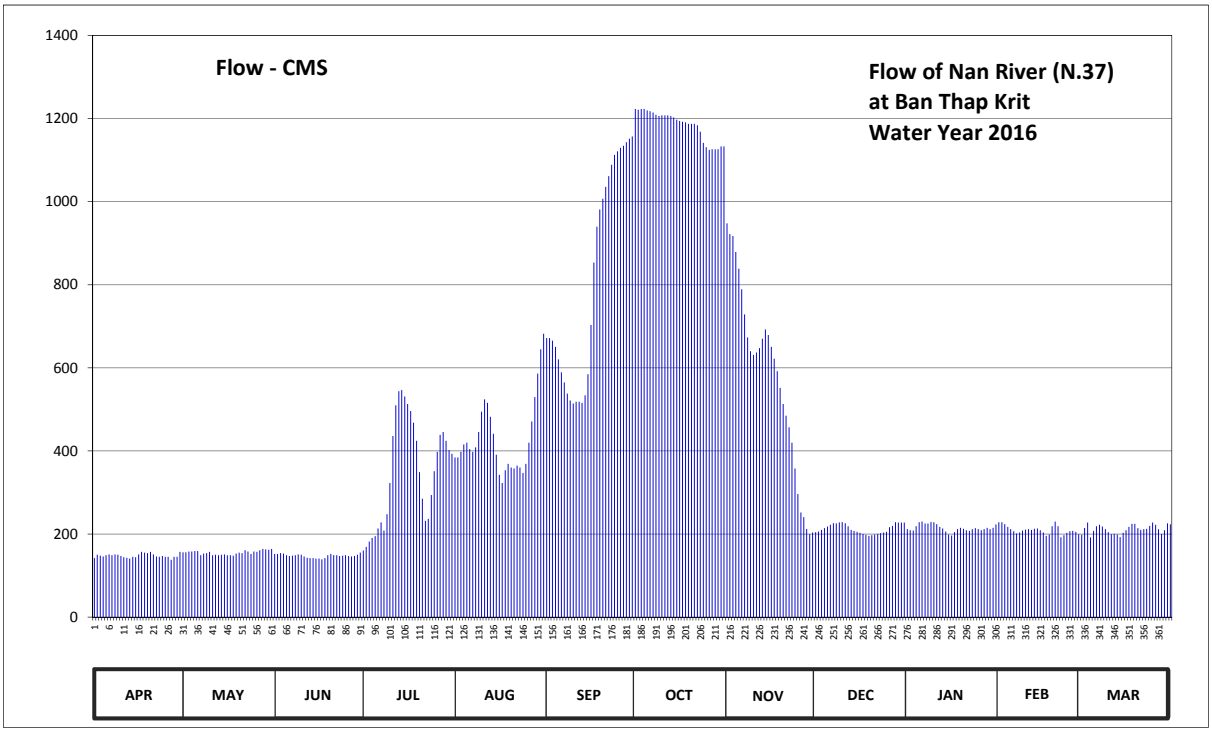
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.87	18.01	17.97	18.05	20.08	21.95	25.37	23.71	19.02	18.93	18.72	19.10	
2	17.95	18.01	17.97	18.14	20.08	21.95	25.36	23.55	19.00	18.96	18.72	19.31	
3	17.93	18.03	17.99	18.26	20.14	21.91	25.37	23.52	18.95	18.97	18.78	19.37	
4	17.91	18.03	17.98	18.34	20.22	21.81	25.37	23.28	18.90	18.84	18.86	19.18	
5	17.94	18.04	17.94	18.38	20.24	21.61	25.35	23.03	18.85	18.72	18.93	18.98	
6	17.96	18.04	17.92	18.55	20.17	21.40	25.34	22.72	18.80	18.70	18.99	18.84	
7	17.94	17.94	17.93	18.68	20.14	21.24	25.32	22.33	18.75	18.76	19.06	18.80	
8	17.96	17.98	17.94	18.97	20.19	21.05	25.29	21.96	18.66	18.76	19.03	18.85	
9	17.95	17.99	17.96	19.46	20.39	20.93	25.27	21.74	18.68	18.69	18.97	18.93	
10	17.92	18.02	17.95	19.80	20.74	20.88	25.28	21.68	18.69	18.72	18.94	19.02	
11	17.89	17.94	17.91	20.32	20.95	20.91	25.28	21.72	18.75	18.78	18.93	19.08	
12	17.88	17.95	17.88	20.85	20.89	20.91	25.28	21.79	18.84	18.86	18.95	19.07	
13	17.86	17.94	17.87	21.09	20.65	20.89	25.27	21.94	18.95	18.91	18.92	19.24	
14	17.90	17.95	17.87	21.11	20.36	21.02	25.25	22.09	18.98	19.00	18.91	19.17	
15	17.89	17.96	17.86	21.00	20.11	21.37	25.22	22.00	19.01	19.09	18.96	19.04	
16	17.96	17.94	17.86	20.87	19.89	22.16	25.20	21.81	19.04	19.12	19.03	18.96	
17	18.02	17.94	17.84	20.75	19.80	23.12	25.19	21.62	19.07	19.02	19.13	18.86	
18	18.00	17.93	17.87	20.55	19.94	23.66	25.18	21.42	19.10	18.93	19.24	18.77	
19	17.99	17.98	17.94	20.26	20.01	23.92	25.16	21.15	19.13	18.89	19.33	18.77	
20	18.02	18.00	17.97	19.92	19.97	24.08	25.16	20.87	19.11	18.92	19.38	18.90	
21	17.96	17.99	17.94	19.63	19.96	24.26	25.16	20.67	19.09	18.96	19.33	18.95	
22	17.91	18.06	17.94	19.39	19.99	24.42	25.14	20.47	19.07	18.98	19.21	18.93	
23	17.90	18.03	17.92	19.41	19.97	24.58	25.05	20.24	19.05	18.93	19.11	18.92	
24	17.92	17.97	17.93	19.67	19.91	24.72	24.89	19.96	19.03	18.90	19.04	18.83	
25	17.90	18.03	17.94	19.93	20.01	24.77	24.83	19.68	19.01	18.93	18.99	18.73	
26	17.90	18.02	17.92	20.14	20.24	24.82	24.79	19.48	18.87	18.96	18.98	18.63	
27	17.83	18.06	17.91	20.34	20.57	24.85	24.80	19.43	18.83	18.93	19.01	18.53	
28	17.90	18.09	17.92	20.39	20.99	24.90	24.80	19.30	18.72	18.89	19.08	18.43	
29	17.90	18.08	17.95	20.26	21.38	24.95	24.80	19.08	18.73	18.93		18.51	
30	18.02	18.07	18.00	20.16	21.77	24.98	24.84	19.03	18.73	18.89		18.66	
31		18.09		20.12	22.02		24.84		18.73	18.79		18.64	
Mean	17.93	18.00	17.93	19.77	20.38	22.80	25.14	21.38	18.91	18.89	19.02	18.90	
Max	18.02	18.09	18.00	21.11	22.02	24.98	25.37	23.71	19.13	19.12	19.38	19.37	25.37
Min	17.83	17.93	17.84	18.05	19.80	20.88	24.79	19.03	18.66	18.69	18.72	18.43	17.83

Annual Max Momentary Gage Height 25.37 m. (MSL.) , at 06.00 Hours , on Oct 1 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 11.88 m. (MSL.)

Left Bank Elevation 27.91 m. (MSL.) ,

Right Bank Elevation 27.95 m. (MSL.) , Drainage Are 57,613 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.00	156.00	152.00	160.00	384.40	671.50	1222.90	947.60	204.40	211.60	228.40	198.00	
2	150.00	156.00	152.00	169.00	384.40	671.50	1221.20	922.00	206.00	209.20	228.40	214.30	
3	148.00	158.00	154.00	181.60	397.65	665.50	1222.90	917.20	210.00	208.40	223.60	227.55	
4	146.00	158.00	153.00	190.40	415.33	650.50	1222.90	878.80	214.00	218.80	217.20	191.60	
5	149.00	159.00	149.00	194.80	419.75	620.50	1219.50	838.80	218.00	228.40	211.60	207.60	
6	151.00	159.00	147.00	213.50	404.28	589.00	1217.80	789.20	222.00	230.00	206.80	218.80	
7	149.00	149.00	148.00	227.80	397.65	565.00	1214.40	728.50	226.00	225.20	201.20	222.00	
8	151.00	153.00	149.00	208.40	408.70	538.00	1209.30	673.00	225.60	225.20	203.60	218.00	
9	150.00	154.00	151.00	247.44	445.60	521.20	1205.90	640.00	227.80	228.90	208.40	211.60	
10	147.00	157.00	150.00	322.55	494.60	514.20	1207.60	631.00	228.90	228.40	210.80	204.40	
11	144.00	149.00	146.00	435.80	524.00	518.40	1207.60	637.00	226.00	223.60	211.60	199.60	
12	143.00	150.00	143.00	510.00	515.60	518.40	1207.60	647.50	218.80	217.20	210.00	200.40	
13	141.00	149.00	142.00	543.60	482.00	515.60	1205.90	670.00	210.00	213.20	212.40	198.84	
14	145.00	150.00	142.00	546.40	441.40	533.80	1202.50	692.50	207.60	206.00	213.20	192.40	
15	144.00	151.00	141.00	531.00	391.03	584.50	1197.40	679.00	205.20	198.80	209.20	202.80	
16	151.00	149.00	141.00	512.80	342.43	703.00	1194.00	650.50	202.80	196.40	203.60	209.20	
17	157.00	149.00	139.00	496.00	322.55	853.20	1192.30	622.00	200.40	204.40	195.60	217.20	
18	155.00	148.00	142.00	468.00	353.47	939.60	1190.60	592.00	198.00	211.60	198.84	224.40	
19	154.00	153.00	149.00	424.16	368.94	981.20	1187.20	552.00	195.60	214.80	218.72	224.40	
20	157.00	155.00	152.00	349.05	360.10	1006.80	1187.20	512.80	197.20	212.40	229.76	214.00	
21	151.00	154.00	149.00	284.99	357.89	1035.60	1187.20	484.80	198.80	209.20	218.72	210.00	
22	146.00	161.00	149.00	231.97	364.52	1061.40	1183.80	456.80	200.40	207.60	192.21	211.60	
23	145.00	158.00	147.00	236.39	360.10	1088.60	1168.50	419.75	202.00	211.60	197.20	212.40	
24	147.00	152.00	148.00	293.83	346.85	1112.40	1141.30	357.89	203.60	214.00	202.80	219.60	
25	145.00	158.00	149.00	351.26	368.94	1120.90	1131.10	296.04	205.20	211.60	206.80	227.60	
26	145.00	157.00	147.00	397.65	419.75	1129.40	1124.30	251.85	216.40	209.20	207.60	222.30	
27	138.00	161.00	146.00	438.60	470.80	1134.50	1126.00	240.81	219.60	211.60	205.20	211.30	
28	145.00	164.00	147.00	445.60	529.60	1143.00	1126.00	212.09	228.40	214.80	199.60	200.30	
29	145.00	163.00	150.00	424.16	586.00	1151.50	1126.00	199.60	227.60	211.60		209.10	
30	157.00	162.00	155.00	402.07	644.50	1156.60	1132.80	203.60	227.60	214.80		225.60	
31		164.00		393.24	682.00		1132.80		227.60	222.80		223.40	
Total	4438.00	4816.00	4429.00	10832.06	13384.83	24295.30	36716.50	17344.63	6601.50	6651.30	5873.05	6570.29	141952.46 CMSDAY
Mean	147.93	155.35	147.63	349.42	431.77	809.84	1184.40	578.15	212.95	214.56	209.75	211.94	388.91 CMS
Max	157.00	164.00	155.00	546.40	682.00	1156.60	1222.90	947.60	228.90	230.00	229.76	227.60	1222.90 CMS
Min	138.00	148.00	139.00	160.00	322.55	514.20	1124.30	199.60	195.60	196.40	192.21	191.60	138.00 CMS
Runoff	383.44	416.10	382.67	935.89	1156.45	2099.11	3172.31	1498.58	570.37	574.67	507.43	567.67	12264.69 MCM

Momentary Peak 1222.90 CMS. at 25.37 m. (MSL.) at 06.00 Hours , on Oct 1 , 2016

Runoff Yield 6.75 Liters/Second/Square KM. Momentary Peak Yield 21.230 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khlong Chom Phu at Ban Chom Phu , Phitsanulok (N.43A)

Lat 16 - 41 - 40 N Long 100 - 39 - 28 E

Location : on right bank at Ban Chom Phu.

	Ban Chom Phu		**Amphoe** Noen Maprang	**Changwat** Phitsanulok	
Drainge Area	434 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+50.056 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	Near the gage site.			**Elevation**	+59.558 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	2010 to date				
Rating Operation					
Period of Rating	2010 to date				
Rated by Flot	-				
Rated by Current Meter	2010 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

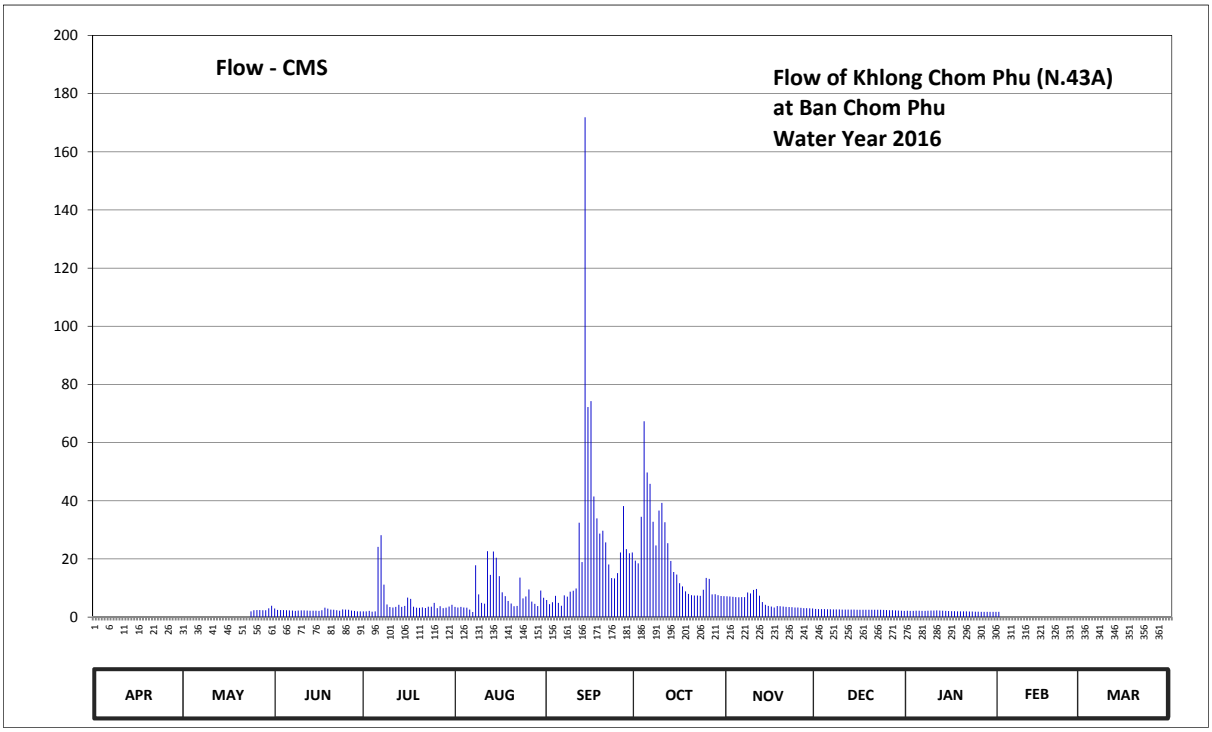
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.06	51.06	51.99	51.79	52.10	52.58	54.40	52.79	51.96	51.84	51.76	51.86	
2	51.06	51.06	51.89	51.80	52.06	52.29	54.31	52.78	51.95	51.83	51.76	51.86	
3	51.06	51.06	51.88	51.83	52.10	52.42	55.51	52.76	51.95	51.83	51.78	51.86	
4	51.06	51.06	51.88	51.77	52.06	52.82	56.71	52.75	51.95	51.84	51.80	51.85	
5	51.06	51.06	51.87	51.79	52.05	52.38	56.14	52.74	51.94	51.84	51.82	51.85	
6	51.06	51.06	51.86	54.81	51.92	52.18	56.00	52.75	51.94	51.83	51.84	51.85	
7	51.06	51.06	51.85	55.11	51.75	52.85	55.41	52.75	51.93	51.83	51.86	51.84	
8	51.06	51.06	51.83	53.45	54.24	52.77	54.85	53.01	51.93	51.84	51.90	51.84	
9	51.06	51.06	51.85	52.27	52.90	53.06	55.63	52.96	51.93	51.85	51.91	51.84	
10	51.06	51.06	51.86	52.09	52.38	53.11	55.75	53.16	51.92	51.85	51.91	51.84	
11	51.06	51.06	51.86	52.06	52.32	53.24	55.40	53.21	51.92	51.86	51.91	51.85	
12	51.06	51.06	51.85	52.10	54.69	55.39	54.91	52.83	51.92	51.85	51.90	51.85	
13	51.06	51.06	51.84	52.25	53.88	54.35	54.39	52.43	51.92	51.84	51.90	51.86	
14	51.06	51.06	51.84	52.10	54.68	59.16	53.99	52.25	51.92	51.83	51.90	51.86	
15	51.06	51.06	51.84	52.17	54.49	56.86	53.89	52.17	51.91	51.82	51.90	51.86	
16	51.06	51.06	51.83	52.72	53.83	56.92	53.52	52.13	51.91	51.81	51.89	51.86	
17	51.06	51.06	51.87	52.64	53.02	55.84	53.36	52.06	51.91	51.81	51.89	51.86	
18	51.06	51.06	52.05	52.11	52.80	55.48	53.08	52.16	51.91	51.80	51.88	51.86	
19	51.06	51.06	51.98	52.05	52.51	55.15	52.93	52.15	51.91	51.80	51.88	51.86	
20	51.06	51.06	51.92	52.04	52.33	55.22	52.86	52.12	51.91	51.79	51.87	51.86	
21	51.06	51.06	51.90	52.07	52.15	54.93	52.84	52.10	51.91	51.79	51.87	51.85	
22	51.06	51.06	51.87	52.03	52.17	54.27	52.84	52.09	51.90	51.78	51.86	51.85	
23	51.06	51.14	51.84	52.11	53.77	53.75	52.82	52.08	51.90	51.78	51.86	51.85	
24	51.06	51.79	51.93	52.11	52.67	53.74	53.17	52.06	51.89	51.77	51.85	51.84	
25	51.06	51.87	51.92	52.38	52.78	53.95	53.76	52.06	51.88	51.77	51.85	51.84	
26	51.06	51.88	51.90	52.02	53.19	54.65	53.72	52.04	51.87	51.76	51.85	51.84	
27	51.06	51.88	51.85	52.15	52.47	55.70	52.90	52.02	51.87	51.76	51.86	51.84	
28	51.06	51.87	51.83	52.01	52.31	54.75	52.91	52.01	51.86	51.76	51.86	51.84	
29	51.06	51.87	51.79	52.05	52.16	54.63	52.86	52.00	51.85	51.76		51.85	
30	51.06	52.00	51.79	52.13	53.12	54.65	52.81	51.99	51.84	51.76		51.85	
31		52.18		52.25	52.71		52.80		51.83	51.76		51.85	
Mean	51.06	51.28	51.88	52.33	52.83	54.30	54.08	52.41	51.91	51.81	51.86	51.85	
Max	51.06	52.18	52.05	55.11	54.69	59.16	56.71	53.21	51.96	51.86	51.91	51.86	59.16
Min	51.06	51.06	51.79	51.77	51.75	52.18	52.80	51.99	51.83	51.76	51.76	51.84	51.06

Annual Max Momentary Gage Height 60.04 m. (MSL.) , at 06.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 50.06 m. (MSL.) , River Bed 51.21 m. (MSL.)

Left Bank Elevation 63.09 m. (MSL.) ,

Right Bank Elevation 63.07 m. (MSL.) , Drainage Are 434 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.95	1.95	3.50	5.90	19.40	7.14	2.80	2.20	1.80	0.00		
2	0.00	0.00	2.45	2.00	3.30	4.45	18.50	7.08	2.75	2.15	0.00	0.00		
3	0.00	0.00	2.40	2.15	3.50	5.10	34.47	6.96	2.75	2.15	0.00	0.00		
4	0.00	0.00	2.40	1.85	3.30	7.32	67.32	6.90	2.75	2.20	0.00	0.00		
5	0.00	0.00	2.35	1.95	3.25	4.90	49.72	6.84	2.70	2.20	0.00	0.00		
6	0.00	0.00	2.30	24.13	2.60	3.90	45.80	6.90	2.70	2.15	0.00	0.00		
7	0.00	0.00	2.25	28.14	1.75	7.50	32.77	6.90	2.65	2.15	0.00	0.00		
8	0.00	0.00	2.15	11.15	17.80	7.02	24.65	8.46	2.65	2.20	0.00	0.00		
9	0.00	0.00	2.25	4.35	7.80	8.76	36.66	8.16	2.65	2.25	0.00	0.00		
10	0.00	0.00	2.30	3.45	4.90	9.06	39.30	9.36	2.60	2.25	0.00	0.00		
11	0.00	0.00	2.30	3.30	4.60	9.84	32.60	9.66	2.60	2.30	0.00	0.00		
12	0.00	0.00	2.25	3.50	22.68	32.44	25.43	7.38	2.60	2.25	0.00	0.00		
13	0.00	0.00	2.20	4.25	14.52	18.90	19.30	5.15	2.60	2.20	0.00	0.00		
14	0.00	0.00	2.20	3.50	22.56	171.84	15.51	4.25	2.60	2.15	0.00	0.00		
15	0.00	0.00	2.20	3.85	20.39	72.24	14.61	3.85	2.55	2.10	0.00	0.00		
16	0.00	0.00	2.15	6.72	14.07	74.28	11.64	3.65	2.55	2.05	0.00	0.00		
17	0.00	0.00	2.35	6.24	8.52	41.48	10.56	3.30	2.55	2.05	0.00	0.00		
18	0.00	0.00	3.25	3.55	7.20	33.96	8.88	3.80	2.55	2.00	0.00	0.00		
19	0.00	0.00	2.90	3.25	5.55	28.70	7.98	3.75	2.55	2.00	0.00	0.00		
20	0.00	0.00	2.60	3.20	4.65	29.72	7.56	3.60	2.55	1.95	0.00	0.00		
21	0.00	0.00	2.50	3.35	3.75	25.69	7.44	3.50	2.55	1.95	0.00	0.00		
22	0.00	0.00	2.35	3.15	3.85	18.10	7.44	3.45	2.50	1.90	0.00	0.00		
23	0.00	0.00	2.20	3.55	13.56	13.40	7.32	3.40	2.50	1.90	0.00	0.00		
24	0.00	1.95	2.65	3.55	6.42	13.32	9.42	3.30	2.45	1.85	0.00	0.00		
25	0.00	2.35	2.60	4.90	7.08	15.15	13.48	3.30	2.40	1.85	0.00	0.00		
26	0.00	2.40	2.50	3.10	9.54	22.20	13.16	3.20	2.35	1.80	0.00	0.00		
27	0.00	2.40	2.25	3.75	5.35	38.20	7.80	3.10	2.35	1.80	0.00	0.00		
28	0.00	2.35	2.15	3.05	4.55	23.40	7.86	3.05	2.30	1.80	0.00	0.00		
29	0.00	2.35	1.95	3.25	3.80	21.96	7.56	3.00	2.25	1.80		0.00		
30	0.00	3.00	1.95	3.65	9.12	22.20	7.26	2.95	2.20	1.80		0.00		
31		3.90		4.25	6.66		7.20		2.15	1.80		0.00		
Total	0.00	20.70	71.30	162.03	250.12	790.93	618.60	155.34	78.70	63.20	1.80	0.00	2212.72	CMSDAY
Mean	0.00	0.67	2.38	5.23	8.07	26.36	19.95	5.18	2.54	2.04	0.06	0.00	6.06	CMS
Max	0.00	3.90	3.25	28.14	22.68	171.84	67.32	9.66	2.80	2.30	1.80	0.00	171.84	CMS
Min	0.00	0.00	1.95	1.85	1.75	3.90	7.20	2.95	2.15	1.80	0.00	0.00	0.00	CMS
Runoff	0.00	1.79	6.16	14.00	21.61	68.34	53.45	13.42	6.80	5.46	0.16	0.00	191.18	MCM

Momentary Peak 223.48 CMS. at 60.04 m. (MSL.) at 06.00 Hours , on Sep 14 , 2016

Runoff Yield 13.97 Liters/Second/Square KM. Momentary Peak Yield 514.930 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Yao at Ban Nam Yao , Nan (N.49)

Lat 18 - 59 - 33 N Long 100 - 56 - 36 E

Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban Nam Yao	**Amphoe** Pua	**Changwat** Nan
Drainge Area	153 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+263.983 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from the top staff gage.	**Elevation**	+270.035 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

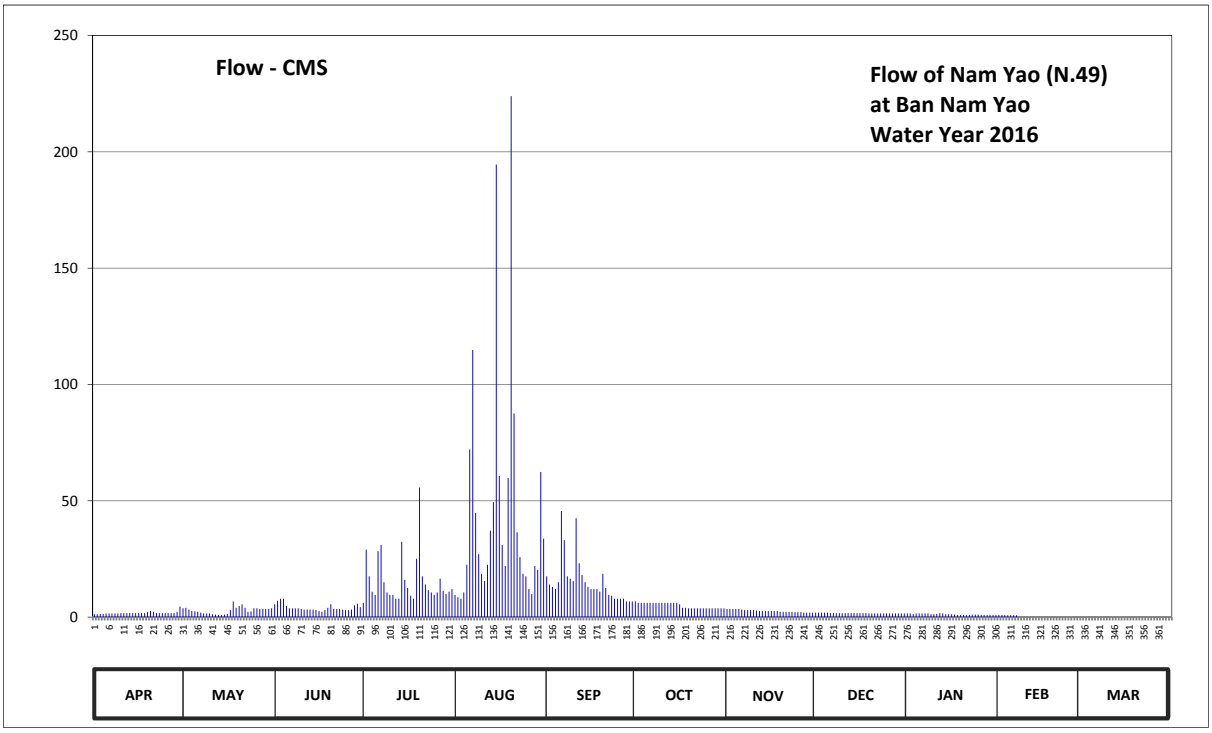
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.30	265.43	265.50	265.52	265.63	265.81	265.54	265.42	265.34	265.32	265.28	265.61	
2	265.30	265.44	265.55	266.00	265.60	265.74	265.52	265.42	265.34	265.32	265.28	265.61	
3	265.31	265.41	265.58	265.81	265.58	265.72	265.52	265.42	265.34	265.31	265.28	265.61	
4	265.31	265.38	265.58	265.67	265.66	265.70	265.52	265.42	265.34	265.32	265.27	265.61	
5	265.32	265.37	265.47	265.63	265.90	265.76	265.52	265.42	265.34	265.32	265.27	265.61	
6	265.32	265.36	265.43	265.99	266.56	266.24	265.52	265.41	265.33	265.32	265.27	265.61	
7	265.32	265.34	265.43	266.03	266.98	266.06	265.52	265.40	265.33	265.32	265.27	265.61	
8	265.32	265.32	265.43	265.76	266.23	265.81	265.52	265.40	265.33	265.32	265.33	265.61	
9	265.32	265.32	265.43	265.66	265.97	265.79	265.52	265.40	265.33	265.30	265.58	265.61	
10	265.33	265.32	265.42	265.63	265.83	265.77	265.52	265.40	265.33	265.30	265.63	265.61	
11	265.33	265.30	265.41	265.63	265.77	266.20	265.52	265.39	265.33	265.31	265.63	265.61	
12	265.33	265.29	265.41	265.58	265.90	265.91	265.52	265.38	265.33	265.33	265.63	265.61	
13	265.33	265.28	265.41	265.58	266.12	265.82	265.52	265.38	265.33	265.32	265.63	265.61	
14	265.33	265.28	265.41	266.05	266.29	265.76	265.52	265.38	265.33	265.30	265.63	265.61	
15	265.33	265.29	265.40	265.78	267.59	265.72	265.52	265.38	265.33	265.30	265.61	265.61	
16	265.33	265.31	265.38	265.71	266.43	265.70	265.50	265.38	265.33	265.30	265.61	265.61	
17	265.33	265.40	265.36	265.62	266.03	265.70	265.44	265.38	265.33	265.29	265.61	265.61	
18	265.33	265.54	265.40	265.58	265.89	265.70	265.44	265.38	265.33	265.28	265.61	265.61	
19	265.35	265.44	265.44	265.94	266.42	265.67	265.43	265.36	265.32	265.28	265.61	265.61	
20	265.38	265.47	265.50	266.37	267.78	265.83	265.43	265.36	265.32	265.28	265.61	265.60	
21	265.36	265.50	265.42	265.81	266.72	265.71	265.43	265.36	265.32	265.28	265.61	265.60	
22	265.33	265.44	265.42	265.74	266.11	265.63	265.43	265.36	265.32	265.28	265.61	265.60	
23	265.33	265.36	265.42	265.69	265.95	265.62	265.43	265.36	265.32	265.29	265.61	265.60	
24	265.33	265.37	265.41	265.66	265.83	265.58	265.43	265.35	265.32	265.29	265.61	265.60	
25	265.33	265.43	265.40	265.63	265.81	265.58	265.43	265.35	265.32	265.29	265.61	265.60	
26	265.33	265.43	265.40	265.66	265.70	265.58	265.43	265.35	265.32	265.28	265.61	265.60	
27	265.33	265.42	265.41	265.79	265.64	265.58	265.43	265.34	265.32	265.28	265.61	265.60	
28	265.33	265.42	265.48	265.68	265.89	265.54	265.43	265.34	265.32	265.28	265.61	265.60	
29	265.36	265.42	265.51	265.64	265.86	265.54	265.43	265.34	265.32	265.28		265.60	
30	265.46	265.42	265.45	265.67	266.45	265.54	265.43	265.34	265.32	265.28		265.62	
31		265.43		265.70	266.07		265.43		265.32	265.28		265.66	
Mean	265.33	265.38	265.44	265.75	266.14	265.74	265.48	265.38	265.33	265.30	265.52	265.61	
Max	265.46	265.54	265.58	266.37	267.78	266.24	265.54	265.42	265.34	265.33	265.63	265.66	267.78
Min	265.30	265.28	265.36	265.52	265.58	265.54	265.43	265.34	265.32	265.28	265.27	265.60	265.27

Annual Max Momentary Gage Height 268.98 m. (MSL.) , at 24.00 Hours , on Aug 19 , 2016

Zero Gage at Bottom Elevation 263.98 m. (MSL.) , River Bed 264.70 m. (MSL.)

Left Bank Elevation 273.20 m. (MSL.) ,

Right Bank Elevation 275.27 m. (MSL.) , Drainage Are 153 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	3.75	5.50	6.10	9.55	17.55	6.70	3.50	1.92	1.56	0.96	0.00		
2	1.20	4.00	7.00	29.00	8.50	14.00	6.10	3.50	1.92	1.56	0.96	0.00		
3	1.38	3.25	7.90	17.55	7.90	13.00	6.10	3.50	1.92	1.38	0.96	0.00		
4	1.38	2.64	7.90	10.95	10.60	12.00	6.10	3.50	1.92	1.56	0.84	0.00		
5	1.56	2.46	4.75	9.55	22.50	15.00	6.10	3.50	1.92	1.56	0.84	0.00		
6	1.56	2.28	3.75	28.35	72.00	45.60	6.10	3.25	1.74	1.56	0.84	0.00		
7	1.56	1.92	3.75	31.02	114.85	33.05	6.10	3.00	1.74	1.56	0.84	0.00		
8	1.56	1.56	3.75	15.00	44.82	17.55	6.10	3.00	1.74	1.56	0.00	0.00		
9	1.56	1.56	3.75	10.60	27.05	16.50	6.10	3.00	1.74	1.20	0.00	0.00		
10	1.74	1.56	3.50	9.55	18.65	15.50	6.10	3.00	1.74	1.20	0.00	0.00		
11	1.74	1.20	3.25	9.55	15.50	42.50	6.10	2.82	1.74	1.38	0.00	0.00		
12	1.74	1.08	3.25	7.90	22.50	23.15	6.10	2.64	1.74	1.74	0.00	0.00		
13	1.74	0.96	3.25	7.90	37.10	18.10	6.10	2.64	1.74	1.56	0.00	0.00		
14	1.74	0.96	3.25	32.37	49.47	15.00	6.10	2.64	1.74	1.20	0.00	0.00		
15	1.74	1.08	3.00	16.00	194.55	13.00	6.10	2.64	1.74	1.20	0.00	0.00		
16	1.74	1.38	2.64	12.50	60.63	12.00	5.50	2.64	1.74	1.20	0.00	0.00		
17	1.74	3.00	2.28	9.20	31.02	12.00	4.00	2.64	1.74	1.08	0.00	0.00		
18	1.74	6.70	3.00	7.90	21.95	12.00	4.00	2.64	1.74	0.96	0.00	0.00		
19	2.10	4.00	4.00	25.10	59.75	10.95	3.75	2.28	1.56	0.96	0.00	0.00		
20	2.64	4.75	5.50	55.68	223.90	18.65	3.75	2.28	1.56	0.96	0.00	0.00		
21	2.28	5.50	3.50	17.55	87.50	12.50	3.75	2.28	1.56	0.96	0.00	0.00		
22	1.74	4.00	3.50	14.00	36.42	9.55	3.75	2.28	1.56	0.96	0.00	0.00		
23	1.74	2.28	3.50	11.65	25.75	9.20	3.75	2.28	1.56	1.08	0.00	0.00		
24	1.74	2.46	3.25	10.60	18.65	7.90	3.75	2.10	1.56	1.08	0.00	0.00		
25	1.74	3.75	3.00	9.55	17.55	7.90	3.75	2.10	1.56	1.08	0.00	0.00		
26	1.74	3.75	3.00	10.60	12.00	7.90	3.75	2.10	1.56	0.96	0.00	0.00		
27	1.74	3.50	3.25	16.50	9.90	7.90	3.75	1.92	1.56	0.96	0.00	0.00		
28	1.74	3.50	5.00	11.30	21.95	6.70	3.75	1.92	1.56	0.96	0.00	0.00		
29	2.28	3.50	5.80	9.90	20.30	6.70	3.75	1.92	1.56	0.96		0.00		
30	4.50	3.50	4.25	10.95	62.38	6.70	3.75	1.92	1.56	0.96		0.00		
31		3.75		12.00	33.72		3.75		1.56	0.96		0.00		
Total	54.60	89.58	123.02	486.37	1398.91	460.05	154.35	79.43	52.50	37.86	6.24	0.00	2942.91	CMSDAY
Mean	1.82	2.89	4.10	15.69	45.13	15.33	4.98	2.65	1.69	1.22	0.22	0.00	8.06	CMS
Max	4.50	6.70	7.90	55.68	223.90	45.60	6.70	3.50	1.92	1.74	0.96	0.00	223.90	CMS
Min	1.20	0.96	2.28	6.10	7.90	6.70	3.75	1.92	1.56	0.96	0.00	0.00	0.00	CMS
Runoff	4.72	7.74	10.63	42.02	120.87	39.75	13.34	6.86	4.54	3.27	0.54	0.00	254.27	MCM

Momentary Peak 446.00 CMS. at 268.98 m. (MSL.) at 24.00 Hours , on Aug 19 , 2016

Runoff Yield 52.70 Liters/Second/Square KM. Momentary Peak Yield 2915.030 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

Ban Wang Pong **Amphoe** Chon Dan **Changwat** Phetchabun

Drainge Area	174 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+104.350 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +108.350 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

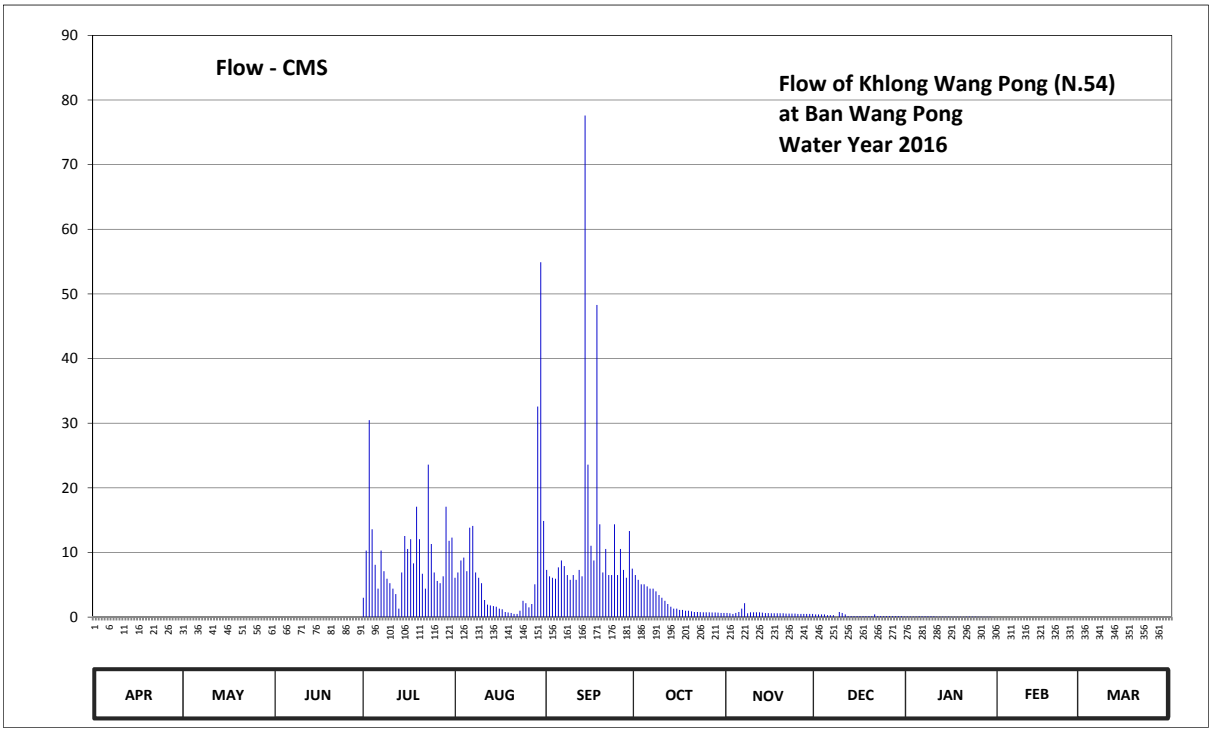
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.04	104.04	104.05	104.20	104.40	104.46	104.42	103.95	104.13	103.70	103.65	103.65	
2	104.04	104.04	104.05	104.60	104.44	104.41	104.38	103.93	104.13	103.70	103.65	103.65	
3	104.04	104.04	104.05	105.24	104.53	104.40	104.34	103.90	104.13	103.70	103.65	103.65	
4	104.04	104.04	104.05	104.73	104.55	104.39	104.34	103.95	104.13	103.70	103.65	103.65	
5	104.04	104.04	104.05	104.50	104.45	104.48	104.32	104.00	104.10	103.71	103.65	103.65	
6	104.04	104.04	104.05	104.30	104.74	104.53	104.30	104.05	104.10	103.71	103.65	103.65	
7	104.04	104.04	104.05	104.60	104.75	104.49	104.30	104.13	104.10	103.71	103.65	103.65	
8	104.04	104.04	104.05	104.45	104.44	104.42	104.27	104.17	104.05	103.71	103.65	103.65	
9	104.04	104.04	104.05	104.39	104.40	104.38	104.23	104.21	104.00	103.71	103.65	103.65	
10	104.04	104.04	104.05	104.35	104.35	104.42	104.20	104.21	103.95	103.71	103.65	103.65	
11	104.04	104.04	104.05	104.30	104.17	104.38	104.16	104.21	103.87	103.69	103.65	103.65	
12	104.04	104.04	104.05	104.24	104.11	104.46	104.12	104.21	103.75	103.69	103.65	103.65	
13	104.04	104.04	104.05	104.05	104.10	104.41	104.08	104.20	103.75	103.69	103.65	103.65	
14	104.04	104.04	104.05	104.44	104.09	106.10	104.05	104.18	103.75	103.69	103.65	103.65	
15	104.04	104.04	104.05	104.69	104.08	105.06	104.05	104.18	103.75	103.69	103.65	103.65	
16	104.04	104.04	104.05	104.61	104.05	104.63	104.03	104.17	103.75	103.68	103.65	103.65	
17	104.04	104.04	104.05	104.67	104.04	104.53	104.03	104.17	103.75	103.68	103.65	103.65	
18	104.04	104.04	104.05	104.51	104.00	105.63	104.02	104.17	103.75	103.68	103.65	103.65	
19	104.04	104.04	104.05	104.86	103.97	104.76	104.02	104.17	103.75	103.68	103.65	103.65	
20	104.04	104.04	104.05	104.67	103.95	104.44	104.01	104.17	103.75	103.68	103.65	103.65	
21	104.04	104.04	104.05	104.43	103.90	104.61	104.00	104.16	103.87	103.69	103.65	103.65	
22	104.04	104.04	104.05	104.30	103.90	104.42	104.00	104.16	103.75	103.69	103.65	103.65	
23	104.04	104.04	104.05	105.06	104.02	104.42	103.99	104.16	103.75	103.69	103.65	103.65	
24	104.04	104.04	104.05	104.64	104.16	104.76	103.98	104.16	103.75	103.69	103.65	103.65	
25	104.04	104.04	104.05	104.44	104.13	104.42	103.98	104.15	103.75	103.67	103.65	103.65	
26	104.04	104.04	104.05	104.37	104.07	104.61	103.98	104.15	103.75	103.67	103.65	103.65	
27	104.04	104.04	104.05	104.35	104.12	104.46	103.97	104.15	103.75	103.67	103.65	103.65	
28	104.04	104.04	104.05	104.41	104.34	104.40	103.97	104.15	103.75	103.67	103.65	103.65	
29	104.04	104.04	104.05	104.86	105.29	104.72	103.96	104.15	103.75	103.67		103.65	
30	104.04	104.04	104.05	104.66	105.75	104.47	103.95	104.15	103.75	103.66		103.65	
31		104.04		104.68	104.78		103.95		103.70	103.65		103.65	
Mean	104.04	104.04	104.05	104.54	104.32	104.60	104.11	104.13	103.86	103.69	103.65	103.65	
Max	104.04	104.04	104.05	105.24	105.75	106.10	104.42	104.21	104.13	103.71	103.65	103.65	106.10
Min	104.04	104.04	104.05	104.05	103.90	104.38	103.95	103.90	103.70	103.65	103.65	103.65	103.65

Annual Max Momentary Gage Height 106.15 m. (MSL.) , at 06.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 104.35 m. (MSL.) , River Bed 103.43 m. (MSL.)

Left Bank Elevation 109.76 m. (MSL.) ,

Right Bank Elevation 107.75 m. (MSL.) , Drainage Are 174 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	3.00	6.10	7.30	6.50	0.65	0.42	0.10	0.00	0.00		
2	0.00	0.00	0.00	10.30	6.90	6.30	5.76	0.59	0.42	0.10	0.00	0.00		
3	0.00	0.00	0.00	30.48	8.76	6.10	5.08	0.50	0.42	0.10	0.00	0.00		
4	0.00	0.00	0.00	13.58	9.20	5.93	5.08	0.65	0.42	0.10	0.00	0.00		
5	0.00	0.00	0.00	8.10	7.10	7.70	4.74	0.80	0.30	0.11	0.00	0.00		
6	0.00	0.00	0.00	4.40	13.84	8.76	4.40	1.30	0.30	0.11	0.00	0.00		
7	0.00	0.00	0.00	10.30	14.10	7.90	4.40	2.16	0.30	0.11	0.00	0.00		
8	0.00	0.00	0.00	7.10	6.90	6.50	3.98	0.58	0.00	0.11	0.00	0.00		
9	0.00	0.00	0.00	5.93	6.10	5.76	3.42	0.74	0.80	0.11	0.00	0.00		
10	0.00	0.00	0.00	5.25	5.25	6.50	3.00	0.74	0.65	0.11	0.00	0.00		
11	0.00	0.00	0.00	4.40	2.64	5.76	2.52	0.74	0.41	0.08	0.00	0.00		
12	0.00	0.00	0.00	3.56	1.92	7.30	2.04	0.74	0.15	0.08	0.00	0.00		
13	0.00	0.00	0.00	1.30	1.80	6.30	1.60	0.70	0.15	0.08	0.00	0.00		
14	0.00	0.00	0.00	6.90	1.70	77.60	1.30	0.62	0.15	0.08	0.00	0.00		
15	0.00	0.00	0.00	12.55	1.60	23.60	1.30	0.62	0.15	0.08	0.00	0.00		
16	0.00	0.00	0.00	10.55	1.30	11.05	1.10	0.58	0.15	0.06	0.00	0.00		
17	0.00	0.00	0.00	12.05	1.20	8.76	1.10	0.58	0.15	0.06	0.00	0.00		
18	0.00	0.00	0.00	8.32	0.80	48.29	1.00	0.58	0.15	0.06	0.00	0.00		
19	0.00	0.00	0.00	17.08	0.71	14.36	1.00	0.58	0.15	0.06	0.00	0.00		
20	0.00	0.00	0.00	12.05	0.65	6.90	0.90	0.58	0.15	0.06	0.00	0.00		
21	0.00	0.00	0.00	6.70	0.50	10.55	0.80	0.54	0.41	0.08	0.00	0.00		
22	0.00	0.00	0.00	4.40	0.50	6.50	0.80	0.54	0.15	0.08	0.00	0.00		
23	0.00	0.00	0.00	23.60	1.00	6.50	0.77	0.54	0.15	0.08	0.00	0.00		
24	0.00	0.00	0.00	11.30	2.52	14.36	0.74	0.54	0.15	0.08	0.00	0.00		
25	0.00	0.00	0.00	6.90	2.16	6.50	0.74	0.50	0.15	0.04	0.00	0.00		
26	0.00	0.00	0.00	5.59	1.50	10.55	0.74	0.50	0.15	0.04	0.00	0.00		
27	0.00	0.00	0.00	5.25	2.04	7.30	0.71	0.50	0.15	0.04	0.00	0.00		
28	0.00	0.00	0.00	6.30	5.08	6.10	0.71	0.50	0.15	0.04	0.00	0.00		
29	0.00	0.00	0.00	17.08	32.58	13.32	0.68	0.50	0.15	0.04		0.00		
30	0.00	0.00	0.00	11.80	54.90	7.50	0.65	0.50	0.15	0.02		0.00		
31		0.00		12.30	14.88		0.65		0.10	0.00		0.00		
Total	0.00	0.00	0.00	298.42	216.23	367.85	68.21	20.19	7.65	2.30	0.00	0.00	980.85	CMSDAY
Mean	0.00	0.00	0.00	9.63	6.98	12.26	2.20	0.67	0.25	0.07	0.00	0.00	2.69	CMS
Max	0.00	0.00	0.00	30.48	54.90	77.60	6.50	2.16	0.80	0.11	0.00	0.00	77.60	CMS
Min	0.00	0.00	0.00	1.30	0.50	5.76	0.65	0.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	25.78	18.68	31.78	5.89	1.74	0.66	0.20	0.00	0.00	84.75	MCM

Momentary Peak 81.10 CMS. at 106.15 m. (MSL.) at 06.00 Hours , on Sep 14 , 2016

Runoff Yield 15.44 Liters/Second/Square KM. Momentary Peak Yield 466.090 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

Ban Tha Sakae **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	971 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+182.830 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 13 meters from the top staff gage. **Elevation** +191.446 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Flot	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

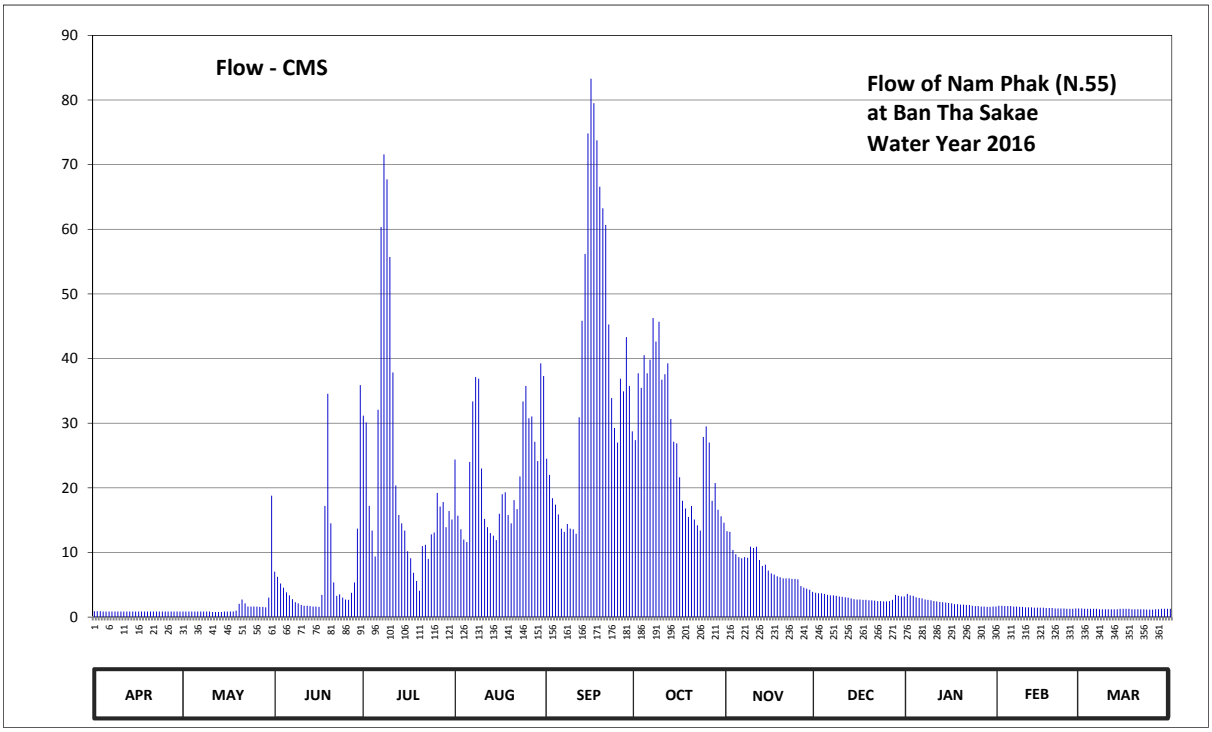
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.22	183.21	184.07	186.29	185.75	185.76	185.99	184.73	183.67	183.65	183.36	183.29	
2	183.22	183.21	183.98	186.21	184.97	185.56	186.78	184.72	183.66	183.62	183.36	183.28	
3	183.22	183.21	183.85	185.12	184.76	185.24	186.62	184.44	183.66	183.61	183.35	183.28	
4	183.21	183.21	183.77	184.74	184.60	185.14	186.98	184.37	183.65	183.58	183.35	183.28	
5	183.21	183.21	183.68	184.33	184.56	184.99	186.78	184.32	183.63	183.56	183.35	183.28	
6	183.21	183.21	183.62	186.36	185.72	184.77	186.93	184.30	183.62	183.55	183.34	183.28	
7	183.21	183.21	183.53	188.31	186.46	184.72	187.39	184.32	183.62	183.52	183.34	183.27	
8	183.21	183.21	183.45	189.00	186.74	184.84	187.13	184.31	183.61	183.51	183.33	183.27	
9	183.21	183.21	183.42	188.77	186.72	184.77	187.35	184.49	183.60	183.50	183.33	183.27	
10	183.21	183.21	183.38	188.02	185.64	184.76	186.71	184.47	183.59	183.48	183.32	183.27	
11	183.21	183.20	183.36	186.79	184.92	184.69	186.77	184.49	183.58	183.47	183.32	183.27	
12	183.21	183.20	183.36	185.43	184.79	186.27	186.89	184.27	183.57	183.46	183.32	183.27	
13	183.21	183.20	183.35	184.98	184.70	187.36	186.25	184.17	183.55	183.45	183.31	183.27	
14	183.21	183.20	183.34	184.85	184.66	188.05	185.97	184.19	183.53	183.44	183.31	183.28	
15	183.21	183.21	183.34	184.74	184.59	189.18	185.95	184.09	183.52	183.43	183.31	183.28	
16	183.21	183.21	183.33	184.42	185.00	189.65	185.53	184.04	183.52	183.42	183.31	183.28	
17	183.21	183.21	183.63	184.30	185.30	189.44	185.20	184.02	183.51	183.40	183.30	183.28	
18	183.21	183.21	185.12	184.05	185.33	189.12	185.08	183.99	183.51	183.40	183.30	183.27	
19	183.21	183.23	186.55	183.90	184.98	188.70	184.95	183.97	183.50	183.39	183.30	183.27	
20	183.21	183.41	184.85	183.71	184.85	188.49	185.12	183.95	183.50	183.39	183.29	183.27	
21	183.21	183.52	183.87	184.50	185.21	188.33	184.91	183.95	183.49	183.38	183.29	183.27	
22	183.21	183.42	183.61	184.52	185.07	187.32	184.82	183.95	183.48	183.38	183.29	183.27	
23	183.21	183.34	183.64	184.29	185.54	186.50	184.74	183.94	183.48	183.36	183.29	183.26	
24	183.21	183.34	183.57	184.68	186.46	186.14	186.03	183.94	183.47	183.35	183.28	183.26	
25	183.21	183.34	183.52	184.71	186.64	185.96	186.16	183.93	183.47	183.35	183.28	183.26	
26	183.21	183.34	183.51	185.32	186.26	186.72	185.96	183.80	183.48	183.34	183.28	183.27	
27	183.21	183.33	183.67	185.11	186.28	186.58	185.20	183.77	183.51	183.34	183.29	183.27	
28	183.21	183.33	183.87	185.18	185.97	187.18	185.46	183.75	183.63	183.33	183.29	183.28	
29	183.21	183.32	184.77	184.79	185.73	186.64	185.06	183.73	183.61	183.33		183.28	
30	183.21	183.57	186.65	185.04	186.89	186.10	184.96	183.69	183.60	183.34		183.28	
31		185.28		184.91	186.75		184.86		183.60	183.34		183.28	
Mean	183.21	183.34	183.92	185.40	185.54	186.63	185.95	184.14	183.56	183.44	183.31	183.27	
Max	183.22	185.28	186.65	189.00	186.89	189.65	187.39	184.73	183.67	183.65	183.36	183.29	189.65
Min	183.21	183.20	183.33	183.71	184.56	184.69	184.74	183.69	183.47	183.33	183.28	183.26	183.20

Annual Max Momentary Gage Height 189.70 m. (MSL.) , at 18.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 182.83 m. (MSL.) , River Bed 182.89 m. (MSL.)

Left Bank Elevation 191.26 m. (MSL.) ,

Right Bank Elevation 191.20 m. (MSL.) , Drainage Are 971 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.86	7.03	31.17	24.38	24.50	27.38	13.30	3.76	3.60	1.76	1.34	
2	0.92	0.86	6.24	30.13	15.70	22.00	37.72	13.20	3.68	3.36	1.76	1.28	
3	0.92	0.86	5.20	17.20	13.60	18.40	35.48	10.40	3.68	3.28	1.70	1.28	
4	0.86	0.86	4.56	13.40	12.00	17.40	40.52	9.73	3.60	3.08	1.70	1.28	
5	0.86	0.86	3.84	9.37	11.60	15.90	37.72	9.28	3.44	2.96	1.70	1.28	
6	0.86	0.86	3.36	32.08	24.00	13.70	39.82	9.10	3.36	2.90	1.64	1.28	
7	0.86	0.86	2.78	60.36	33.38	13.20	46.26	9.28	3.36	2.72	1.64	1.22	
8	0.86	0.86	2.30	71.60	37.16	14.40	42.62	9.19	3.28	2.66	1.58	1.22	
9	0.86	0.86	2.12	67.72	36.88	13.70	45.70	10.90	3.20	2.60	1.58	1.22	
10	0.86	0.86	1.88	55.72	23.00	13.60	36.74	10.70	3.14	2.48	1.52	1.22	
11	0.86	0.80	1.76	37.86	15.20	12.90	37.58	10.90	3.08	2.42	1.52	1.22	
12	0.86	0.80	1.76	20.38	13.90	30.91	39.26	8.83	3.02	2.36	1.52	1.22	
13	0.86	0.80	1.70	15.80	13.00	45.84	30.65	7.93	2.90	2.30	1.46	1.22	
14	0.86	0.80	1.64	14.50	12.60	56.20	27.13	8.11	2.78	2.24	1.46	1.28	
15	0.86	0.86	1.64	13.40	11.90	74.84	26.88	7.21	2.72	2.18	1.46	1.28	
16	0.86	0.86	1.58	10.20	16.00	83.30	21.63	6.76	2.72	2.12	1.46	1.28	
17	0.86	0.86	3.44	9.10	19.00	79.52	18.00	6.58	2.66	2.00	1.40	1.28	
18	0.86	0.86	17.20	6.85	19.30	73.76	16.80	6.32	2.66	2.00	1.40	1.22	
19	0.86	0.98	34.55	5.60	15.80	66.60	15.50	6.16	2.60	1.94	1.40	1.22	
20	0.86	2.06	14.50	4.08	14.50	63.24	17.20	6.00	2.60	1.94	1.34	1.22	
21	0.86	2.72	5.36	11.00	18.10	60.68	15.10	6.00	2.54	1.88	1.34	1.22	
22	0.86	2.12	3.28	11.20	16.70	45.28	14.20	6.00	2.48	1.88	1.34	1.22	
23	0.86	1.64	3.52	9.01	21.75	33.90	13.40	5.92	2.48	1.76	1.34	1.16	
24	0.86	1.64	3.02	12.80	33.38	29.25	27.88	5.92	2.42	1.70	1.28	1.16	
25	0.86	1.64	2.72	13.10	35.76	27.00	29.50	5.84	2.42	1.70	1.28	1.16	
26	0.86	1.64	2.66	19.20	30.78	36.88	27.00	4.80	2.48	1.64	1.28	1.22	
27	0.86	1.58	3.76	17.10	31.04	34.94	18.00	4.56	2.66	1.64	1.34	1.22	
28	0.86	1.58	5.36	17.80	27.13	43.32	20.75	4.40	3.44	1.58	1.34	1.28	
29	0.86	1.52	13.70	13.90	24.13	35.76	16.60	4.24	3.28	1.58		1.28	
30	0.86	3.02	35.90	16.40	39.26	28.75	15.60	3.92	3.20	1.64		1.28	
31		18.80		15.10	37.30		14.60		3.20	1.64		1.28	
Total	25.98	56.18	198.36	683.13	698.23	1129.67	853.22	231.48	92.84	69.78	41.54	38.54	4118.95 CMSDAY
Mean	0.87	1.81	6.61	22.04	22.52	37.66	27.52	7.72	2.99	2.25	1.48	1.24	11.28 CMS
Max	0.92	18.80	35.90	71.60	39.26	83.30	46.26	13.30	3.76	3.60	1.76	1.34	83.30 CMS
Min	0.86	0.80	1.58	4.08	11.60	12.90	13.40	3.92	2.42	1.58	1.28	1.16	0.80 CMS
Runoff	2.24	4.85	17.14	59.02	60.33	97.60	73.72	20.00	8.02	6.03	3.59	3.33	355.88 MCM

Momentary Peak 84.20 CMS. at 189.70 m. (MSL.) at 18.00 Hours , on Sep 16 , 2016

Runoff Yield 11.62 Liters/Second/Square KM. Momentary Peak Yield 86.710 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Fua at Ban Nam Fua , Phitsanulok (N.58)

Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

Ban Nam Fua **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	317 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+208.360 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 16 meters from the top staff gage. **Elevation** +214.931 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

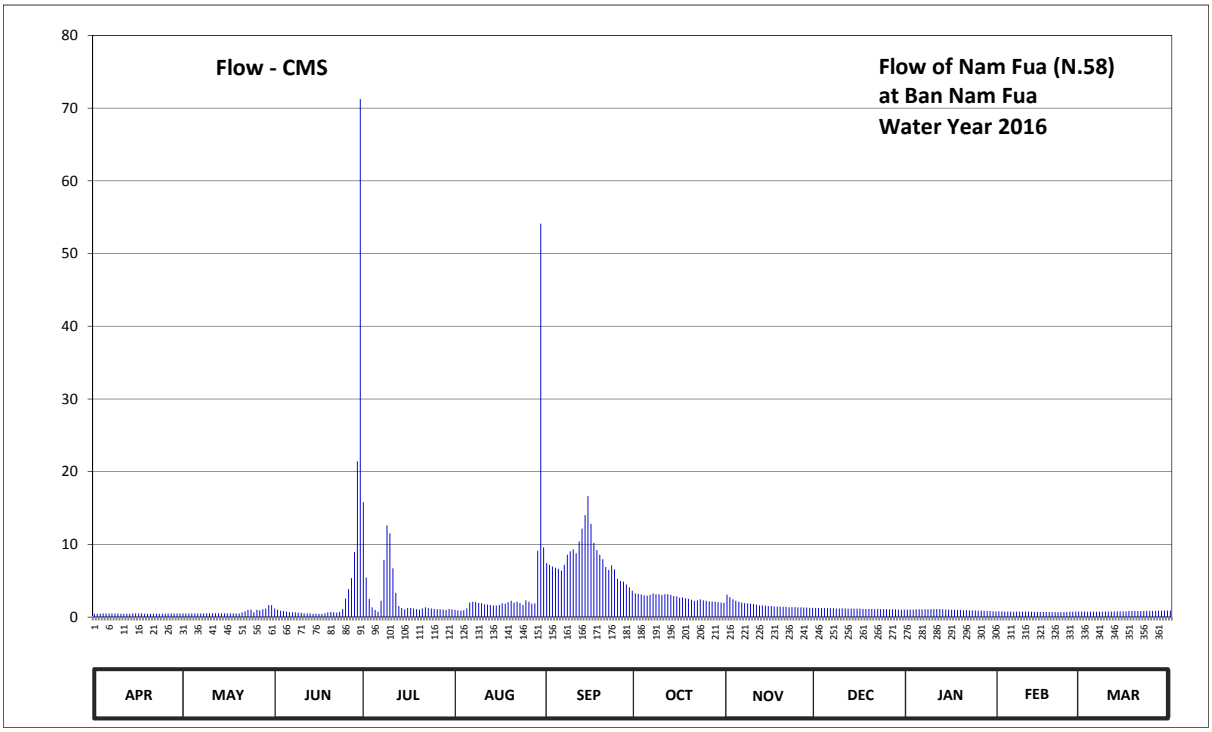
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.29	209.30	209.53	211.40	209.46	210.58	210.01	209.98	209.55	209.48	209.40	209.39	
2	209.29	209.30	209.47	210.33	209.44	210.55	210.00	209.91	209.55	209.48	209.40	209.39	
3	209.29	209.30	209.43	209.86	209.43	210.52	209.98	209.85	209.55	209.48	209.39	209.38	
4	209.30	209.30	209.41	209.58	209.45	210.50	209.96	209.81	209.54	209.49	209.39	209.38	
5	209.30	209.30	209.38	209.46	209.53	210.48	209.95	209.78	209.54	209.49	209.39	209.38	
6	209.30	209.30	209.36	209.38	209.75	210.45	209.97	209.75	209.54	209.49	209.38	209.38	
7	209.30	209.30	209.35	209.81	209.78	210.55	210.01	209.73	209.54	209.49	209.38	209.38	
8	209.30	209.30	209.35	210.63	209.77	210.71	209.99	209.72	209.53	209.49	209.38	209.38	
9	209.30	209.31	209.34	211.11	209.74	210.76	209.99	209.71	209.53	209.50	209.38	209.39	
10	209.29	209.31	209.33	211.01	209.73	210.79	209.97	209.70	209.53	209.50	209.38	209.39	
11	209.29	209.31	209.31	210.49	209.69	210.73	209.99	209.68	209.53	209.50	209.38	209.39	
12	209.29	209.31	209.30	210.02	209.68	210.90	209.99	209.65	209.52	209.50	209.38	209.40	
13	209.29	209.31	209.30	209.63	209.67	211.07	209.97	209.65	209.52	209.49	209.37	209.40	
14	209.30	209.31	209.29	209.55	209.65	211.24	209.94	209.64	209.52	209.48	209.37	209.40	
15	209.30	209.31	209.29	209.49	209.65	211.47	209.93	209.63	209.52	209.48	209.37	209.40	
16	209.30	209.30	209.28	209.55	209.67	211.13	209.89	209.63	209.52	209.47	209.37	209.40	
17	209.30	209.30	209.28	209.55	209.72	210.88	209.90	209.62	209.51	209.47	209.37	209.41	
18	209.29	209.30	209.31	209.52	209.71	210.78	209.88	209.61	209.51	209.46	209.37	209.41	
19	209.29	209.30	209.35	209.50	209.76	210.71	209.86	209.61	209.51	209.46	209.36	209.41	
20	209.29	209.30	209.37	209.48	209.81	210.64	209.84	209.60	209.51	209.45	209.36	209.41	
21	209.29	209.35	209.35	209.53	209.75	210.51	209.81	209.60	209.50	209.45	209.36	209.41	
22	209.29	209.40	209.34	209.58	209.78	210.46	209.82	209.59	209.50	209.44	209.36	209.42	
23	209.29	209.46	209.37	209.54	209.73	210.54	209.85	209.59	209.50	209.44	209.36	209.42	
24	209.29	209.48	209.51	209.53	209.67	210.47	209.82	209.59	209.50	209.44	209.37	209.42	
25	209.29	209.35	209.87	209.51	209.82	210.31	209.81	209.58	209.49	209.43	209.38	209.42	
26	209.30	209.46	210.11	209.50	209.78	210.27	209.79	209.58	209.49	209.43	209.38	209.42	
27	209.30	209.44	210.32	209.49	209.71	210.26	209.79	209.57	209.49	209.42	209.39	209.43	
28	209.30	209.49	210.75	209.48	209.72	210.21	209.78	209.57	209.49	209.41	209.39	209.43	
29	209.30	209.52	211.83	209.46	210.77	210.15	209.76	209.56	209.48	209.41		209.43	
30	209.30	209.66	214.41	209.51	213.66	210.07	209.75	209.56	209.48	209.40		209.43	
31		209.66		209.49	210.82		209.74		209.48	209.40		209.43	
Mean	209.30	209.37	209.73	209.81	209.88	210.62	209.89	209.67	209.52	209.46	209.38	209.40	
Max	209.30	209.66	214.41	211.40	213.66	211.47	210.01	209.98	209.55	209.50	209.40	209.43	214.41
Min	209.29	209.30	209.28	209.38	209.43	210.07	209.74	209.56	209.48	209.40	209.36	209.38	209.28

Annual Max Momentary Gage Height 214.51 m. (MSL.) , at 06.00 Hours , on Jun 30 , 2016

Zero Gage at Bottom Elevation 208.36 m. (MSL.) , River Bed 209.07 m. (MSL.)

Left Bank Elevation 214.92 m. (MSL.) ,

Right Bank Elevation 214.91 m. (MSL.) , Drainage Are 317 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.47	0.50	1.19	15.80	0.98	7.44	3.26	3.10	1.25	1.04	0.80	0.77	
2	0.47	0.50	1.01	5.44	0.92	7.20	3.20	2.75	1.25	1.04	0.80	0.77	
3	0.47	0.50	0.89	2.50	0.89	6.96	3.10	2.45	1.25	1.04	0.77	0.74	
4	0.50	0.50	0.83	1.34	0.95	6.80	3.00	2.25	1.22	1.07	0.77	0.74	
5	0.50	0.50	0.74	0.98	1.19	6.64	2.95	2.12	1.22	1.07	0.77	0.74	
6	0.50	0.50	0.68	0.74	2.00	6.40	3.05	2.00	1.22	1.07	0.74	0.74	
7	0.50	0.50	0.65	2.25	2.12	7.20	3.26	1.92	1.22	1.07	0.74	0.74	
8	0.50	0.50	0.65	7.87	2.08	8.59	3.15	1.88	1.19	1.07	0.74	0.74	
9	0.50	0.53	0.62	12.61	1.96	9.04	3.15	1.84	1.19	1.10	0.74	0.77	
10	0.47	0.53	0.59	11.51	1.92	9.31	3.05	1.80	1.19	1.10	0.74	0.77	
11	0.47	0.53	0.53	6.72	1.76	8.77	3.15	1.72	1.19	1.10	0.74	0.77	
12	0.47	0.53	0.50	3.32	1.72	10.40	3.15	1.60	1.16	1.10	0.74	0.80	
13	0.47	0.53	0.50	1.52	1.68	12.17	3.05	1.60	1.16	1.07	0.71	0.80	
14	0.50	0.53	0.47	1.25	1.60	14.04	2.90	1.56	1.16	1.04	0.71	0.80	
15	0.50	0.53	0.47	1.07	1.60	16.64	2.85	1.52	1.16	1.04	0.71	0.80	
16	0.50	0.50	0.44	1.25	1.68	12.83	2.65	1.52	1.16	1.01	0.71	0.80	
17	0.50	0.50	0.44	1.25	1.88	10.20	2.70	1.48	1.13	1.01	0.71	0.83	
18	0.47	0.50	0.53	1.16	1.84	9.22	2.60	1.44	1.13	0.98	0.71	0.83	
19	0.47	0.50	0.65	1.10	2.04	8.59	2.50	1.44	1.13	0.98	0.68	0.83	
20	0.47	0.50	0.71	1.04	2.25	7.96	2.40	1.40	1.13	0.95	0.68	0.83	
21	0.47	0.65	0.65	1.19	2.00	6.88	2.25	1.40	1.10	0.95	0.68	0.83	
22	0.47	0.80	0.62	1.34	2.12	6.48	2.30	1.37	1.10	0.92	0.68	0.86	
23	0.47	0.98	0.71	1.22	1.92	7.12	2.45	1.37	1.10	0.92	0.68	0.86	
24	0.47	1.04	1.13	1.19	1.68	6.56	2.30	1.37	1.10	0.92	0.71	0.86	
25	0.47	0.65	2.55	1.13	2.30	5.28	2.25	1.34	1.07	0.89	0.74	0.86	
26	0.50	0.98	3.86	1.10	2.12	4.96	2.16	1.34	1.07	0.89	0.74	0.86	
27	0.50	0.92	5.36	1.07	1.84	4.88	2.16	1.31	1.07	0.86	0.77	0.89	
28	0.50	1.07	8.95	1.04	1.88	4.48	2.12	1.31	1.07	0.83	0.77	0.89	
29	0.50	1.16	21.42	0.98	9.13	4.10	2.04	1.28	1.04	0.83		0.89	
30	0.50	1.64	71.25	1.13	54.12	3.62	2.00	1.28	1.04	0.80		0.89	
31		1.64		1.07	9.60		1.96		1.04	0.80		0.89	
Total	14.55	21.74	129.59	93.18	121.77	240.76	83.11	50.76	35.51	30.56	20.48	25.19	867.20 CMSDAY
Mean	0.49	0.70	4.32	3.01	3.93	8.03	2.68	1.69	1.15	0.99	0.73	0.81	2.38 CMS
Max	0.50	1.64	71.25	15.80	54.12	16.64	3.26	3.10	1.25	1.10	0.80	0.89	71.25 CMS
Min	0.47	0.50	0.44	0.74	0.89	3.62	1.96	1.28	1.04	0.80	0.68	0.74	0.44 CMS
Runoff	1.26	1.88	11.20	8.05	10.52	20.80	7.18	4.39	3.07	2.64	1.77	2.18	74.93 MCM

Momentary Peak 73.75 CMS. at 214.51 m. (MSL.) at 06.00 Hours , on Jun 30 , 2016

Runoff Yield 7.47 Liters/Second/Square KM. Momentary Peak Yield 231.920 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Lam Nam Khan at Ban Na Pho Na Chan , Phitsanulok (N.59)

Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Pho Na Chan.

Ban Na Pho Na Chan **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	415 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+197.680 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 25 meters from the top staff gage. **Elevation** +206.935 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

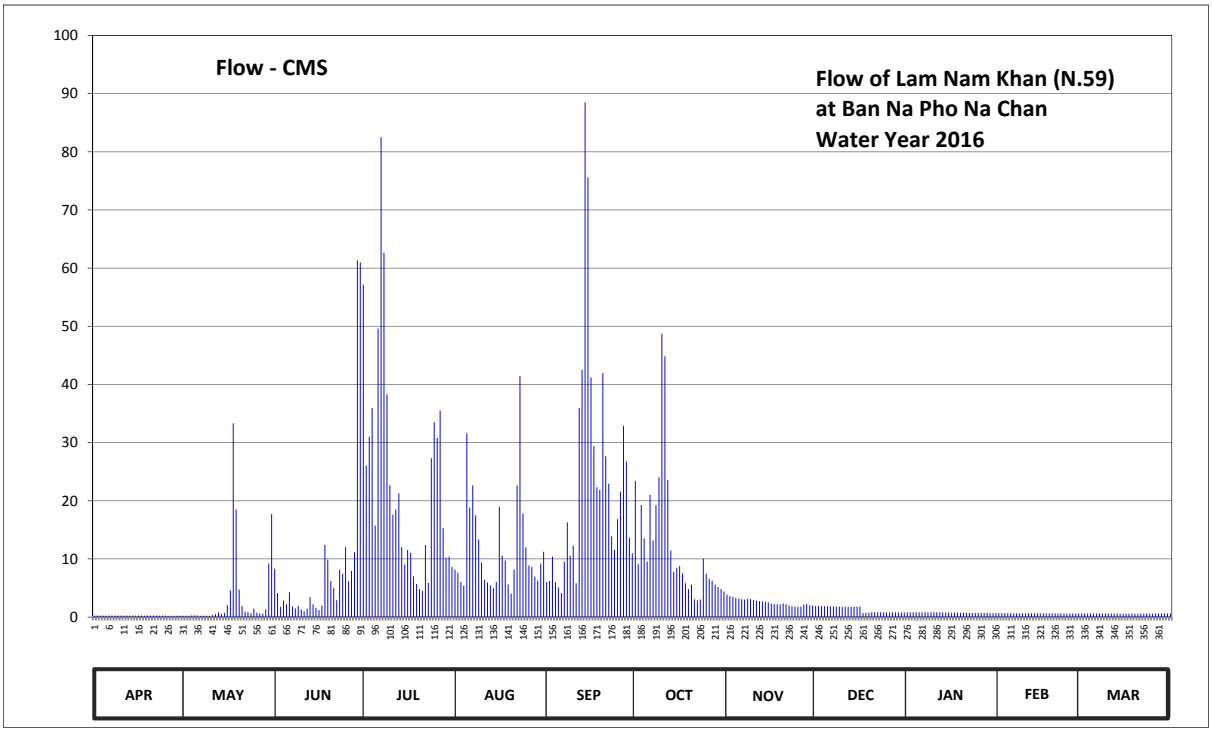
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	200.38	200.35	202.95	205.77	202.93	202.57	204.33	202.06	201.44	201.64	201.36	201.27	
2	200.38	200.35	202.14	204.49	202.84	202.60	203.06	202.01	201.44	201.64	201.36	201.27	
3	200.38	200.35	201.38	204.75	202.57	203.21	204.04	201.96	201.43	201.64	201.36	201.27	
4	200.38	200.41	201.75	204.98	202.43	202.56	203.53	201.90	201.43	201.63	201.36	201.27	
5	200.38	200.42	201.53	203.73	204.78	202.36	203.11	201.86	201.42	201.63	201.35	201.28	
6	200.37	200.38	202.17	205.51	204.01	202.13	204.17	201.83	201.42	201.63	201.35	201.28	
7	200.37	200.35	201.41	206.43	204.28	203.11	203.49	201.81	201.41	201.62	201.35	201.28	
8	200.37	200.35	201.24	205.94	203.89	203.78	204.04	201.85	201.40	201.62	201.35	201.28	
9	200.37	200.35	201.44	205.08	203.51	203.23	204.37	201.83	201.40	201.62	201.35	201.28	
10	200.37	200.35	201.15	204.28	203.09	203.41	205.48	201.77	201.39	201.61	201.34	201.27	
11	200.37	200.46	200.99	203.90	202.64	202.52	205.34	201.74	201.39	201.61	201.34	201.25	
12	200.37	200.63	201.24	203.98	202.55	204.98	204.34	201.72	201.38	201.61	201.33	201.22	
13	200.37	200.87	201.95	204.19	202.44	205.25	203.32	201.71	201.38	201.60	201.32	201.19	
14	200.36	200.66	201.53	203.38	202.33	206.55	202.86	201.68	201.39	201.59	201.32	201.18	
15	200.36	200.80	201.31	203.05	202.57	206.28	202.98	201.65	201.39	201.58	201.31	201.16	
16	200.36	201.50	201.10	203.33	204.02	205.20	203.02	201.58	201.40	201.57	201.31	201.17	
17	200.36	202.25	201.46	203.28	203.23	204.67	202.82	201.55	201.44	201.55	201.30	201.17	
18	200.36	204.86	203.42	202.73	203.13	204.26	202.52	201.54	201.50	201.53	201.30	201.18	
19	200.36	203.98	203.15	202.49	202.47	204.23	202.29	201.52	201.56	201.51	201.30	201.18	
20	200.36	202.27	202.60	202.29	202.11	205.23	202.46	201.58	201.68	201.48	201.29	201.19	
21	200.36	201.43	202.33	202.23	202.93	204.58	201.83	201.54	201.66	201.47	201.29	201.20	
22	200.36	200.96	201.77	203.42	204.28	204.30	201.75	201.47	201.66	201.46	201.29	201.20	
23	200.36	200.91	202.93	202.53	205.21	203.56	201.81	201.42	201.65	201.45	201.28	201.21	
24	200.36	200.75	202.81	204.56	203.92	203.33	203.17	201.39	201.64	201.44	201.28	201.22	
25	200.36	201.23	203.38	204.87	203.38	203.83	202.81	201.38	201.64	201.43	201.28	201.23	
26	200.35	200.84	202.60	204.74	203.03	204.21	202.66	201.40	201.63	201.42	201.28	201.24	
27	200.35	200.73	202.89	204.96	203.00	204.84	202.61	201.51	201.62	201.41	201.28	201.24	
28	200.35	200.71	203.29	203.69	202.72	204.53	202.46	201.55	201.61	201.40	201.28	201.25	
29	200.35	201.17	205.90	203.19	202.61	203.54	202.37	201.48	201.61	201.38		201.26	
30	200.35	203.07	205.89	203.21	203.07	203.27	202.29	201.46	201.60	201.37		201.26	
31		203.91		203.00	203.30		202.20		201.60	201.36		201.25	
Mean	200.36	201.21	202.32	204.00	203.20	203.94	203.15	201.66	201.50	201.53	201.32	201.23	
Max	200.38	204.86	205.90	206.43	205.21	206.55	205.48	202.06	201.68	201.64	201.36	201.28	206.55
Min	200.35	200.35	200.99	202.23	202.11	202.13	201.75	201.38	201.38	201.36	201.28	201.16	200.35

Annual Max Momentary Gage Height 206.83 m. (MSL.) , at 18.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 197.68 m. (MSL.) , River Bed 200.00 m. (MSL.)

Left Bank Elevation 207.42 m. (MSL.) ,

Right Bank Elevation 207.45 m. (MSL.) , Drainage Are 415 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.28	0.25	8.30	57.13	8.18	6.06	23.42	3.84	1.92	0.82	0.68	0.64		
2	0.28	0.25	4.16	26.08	7.64	6.20	9.11	3.64	1.92	0.82	0.68	0.64		
3	0.28	0.25	1.76	31.00	6.06	10.40	19.24	3.48	1.89	0.82	0.68	0.64		
4	0.28	0.31	2.85	35.96	5.43	6.02	13.56	3.30	1.89	0.81	0.68	0.64		
5	0.28	0.32	2.19	15.73	31.60	5.12	9.54	3.18	1.86	0.81	0.67	0.64		
6	0.27	0.28	4.28	49.59	18.84	4.12	21.00	3.09	1.86	0.81	0.67	0.64		
7	0.27	0.25	1.83	82.50	22.64	9.54	13.15	3.03	1.83	0.81	0.67	0.64		
8	0.27	0.25	1.48	62.62	17.49	16.28	19.24	3.15	1.80	0.81	0.67	0.64		
9	0.27	0.25	1.92	38.32	13.35	10.59	24.04	3.09	1.80	0.81	0.67	0.64		
10	0.27	0.25	1.30	22.64	9.37	12.31	48.72	2.91	1.78	0.81	0.67	0.64		
11	0.27	0.36	0.98	17.60	6.44	5.84	44.84	2.82	1.78	0.81	0.67	0.63		
12	0.27	0.53	1.48	18.48	5.97	35.96	23.57	2.76	1.76	0.81	0.67	0.61		
13	0.27	0.80	3.45	21.27	5.48	42.50	11.44	2.73	1.76	0.80	0.66	0.59		
14	0.26	0.56	2.19	12.01	4.99	88.50	7.76	2.64	1.78	0.80	0.66	0.59		
15	0.26	0.70	1.62	9.03	6.06	75.60	8.48	2.55	1.78	0.79	0.66	0.58		
16	0.26	2.10	1.20	11.54	18.97	41.20	8.77	2.34	1.80	0.78	0.66	0.58		
17	0.26	4.63	1.98	11.06	10.59	29.40	7.52	2.25	0.72	0.78	0.65	0.58		
18	0.26	33.32	12.41	6.98	9.71	22.33	5.84	2.22	0.75	0.77	0.65	0.59		
19	0.26	18.48	9.88	5.70	5.61	21.87	4.81	2.16	0.78	0.75	0.65	0.59		
20	0.26	4.72	6.20	4.81	4.04	41.98	5.57	2.34	0.84	0.74	0.64	0.59		
21	0.26	1.89	4.99	4.54	8.18	27.65	3.09	2.22	0.83	0.73	0.64	0.60		
22	0.26	0.94	2.91	12.41	22.64	22.95	2.85	2.01	0.83	0.73	0.64	0.60		
23	0.26	0.86	8.18	5.88	41.46	13.88	3.03	1.86	0.83	0.72	0.64	0.61		
24	0.26	0.65	7.46	27.30	17.82	11.54	10.05	1.78	0.82	0.72	0.64	0.61		
25	0.26	1.46	12.01	33.54	12.01	16.83	7.46	1.76	0.82	0.72	0.64	0.61		
26	0.25	0.76	6.20	30.80	8.86	21.56	6.56	1.80	0.81	0.71	0.64	0.62		
27	0.25	0.63	7.94	35.52	8.60	32.88	6.26	2.13	0.81	0.70	0.64	0.62		
28	0.25	0.61	11.16	15.29	6.92	26.77	5.57	2.25	0.81	0.70	0.64	0.63		
29	0.25	1.34	61.30	10.22	6.26	13.67	5.16	2.04	0.81	0.69		0.63		
30	0.25	9.20	60.97	10.40	9.20	10.97	4.81	1.98	0.80	0.69		0.63		
31		17.71		8.60	11.25		4.40		0.80	0.68		0.63		
Total	7.93	104.91	254.58	734.55	371.66	690.52	388.86	77.35	41.27	23.75	18.43	19.12	2732.93	CMSDAY
Mean	0.26	3.38	8.49	23.70	11.99	23.02	12.54	2.58	1.33	0.77	0.66	0.62	7.49	CMS
Max	0.28	33.32	61.30	82.50	41.46	88.50	48.72	3.84	1.92	0.82	0.68	0.64	88.50	CMS
Min	0.25	0.25	0.98	4.54	4.04	4.12	2.85	1.76	0.72	0.68	0.64	0.58	0.25	CMS
Runoff	0.69	9.06	22.00	63.47	32.11	59.66	33.60	6.68	3.57	2.05	1.59	1.65	236.13	MCM

Momentary Peak 103.03 CMS. at 206.83 m. (MSL.) at 18.00 Hours , on Sep 14 , 2016

Runoff Yield 18.04 Liters/Second/Square KM. Momentary Peak Yield 248.270 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 17 - 24 - 54 N Long 100 - 07 - 58 E

Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

Ban Hat Song Khwae **Amphoe** Tron **Changwat** Uttaradit

Drainge Area	18,447 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+48.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the Meteorological Station. **Elevation** +57.592 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Flot	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Sirikit Dam reservior.
	Stage-discharge relation defined by 47 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

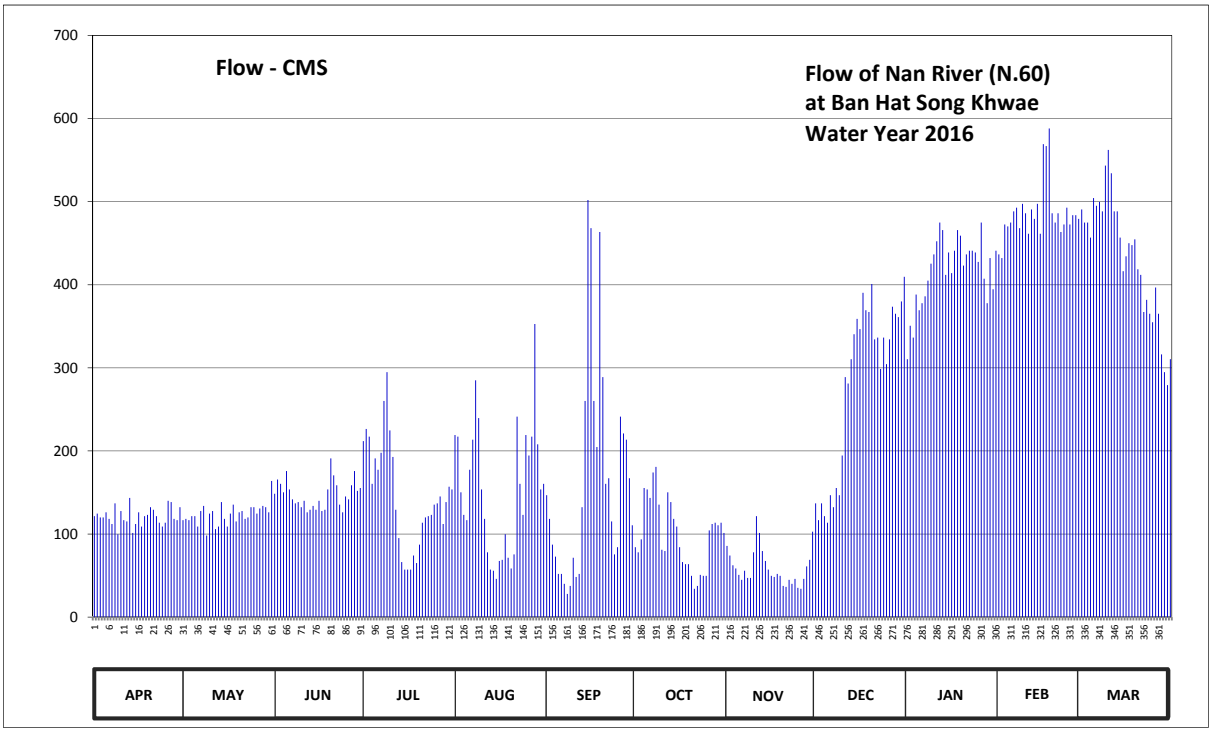
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.28	49.25	49.45	49.82	49.86	49.44	49.04	49.05	49.38	50.34	50.94	51.18	
2	49.30	49.26	49.55	49.90	49.85	49.26	49.00	48.97	49.25	50.54	50.92	51.11	
3	49.27	49.25	49.52	49.85	49.46	49.06	49.10	48.88	49.38	50.47	51.10	51.11	
4	49.27	49.28	49.46	49.52	49.29	48.96	49.49	48.85	49.28	50.72	51.09	51.03	
5	49.31	49.28	49.61	49.70	49.25	48.80	49.48	48.79	49.23	50.63	51.11	51.24	
6	49.26	49.20	49.48	49.62	49.62	48.80	49.42	48.74	49.44	50.67	51.17	51.20	
7	49.22	49.32	49.41	49.74	49.83	48.70	49.60	48.83	49.35	50.71	51.19	51.22	
8	49.38	49.36	49.38	50.08	50.21	48.60	49.64	48.76	49.49	50.80	51.08	51.17	
9	49.14	49.13	49.39	50.26	49.97	48.68	49.37	48.76	49.44	50.89	51.21	51.41	
10	49.32	49.30	49.35	49.89	49.48	48.95	49.02	49.00	49.72	50.94	51.16	51.49	
11	49.25	49.32	49.40	49.71	49.26	48.77	49.01	49.28	50.23	51.01	51.05	51.37	
12	49.24	49.18	49.31	49.33	49.00	48.80	49.46	49.15	50.19	51.11	51.18	51.17	
13	49.42	49.20	49.33	49.11	48.84	49.35	49.39	49.01	50.34	51.07	51.13	51.17	
14	49.15	49.39	49.36	48.91	48.83	50.08	49.26	48.92	50.49	50.83	51.21	51.03	
15	49.22	49.26	49.33	48.84	48.75	51.23	49.20	48.84	50.58	50.95	51.05	50.85	
16	49.31	49.20	49.40	48.84	48.92	51.08	49.04	48.78	50.52	50.84	51.52	50.93	
17	49.20	49.30	49.32	48.84	48.93	50.08	48.91	48.77	50.73	50.96	51.51	51.00	
18	49.28	49.37	49.33	48.97	49.14	49.78	48.89	48.80	50.63	51.07	51.60	50.99	
19	49.29	49.24	49.48	48.90	48.95	51.06	48.89	48.78	50.62	51.04	51.16	51.02	
20	49.35	49.31	49.70	49.06	48.85	50.23	48.78	48.68	50.78	50.88	51.11	50.86	
21	49.33	49.32	49.58	49.23	48.98	49.52	48.65	48.67	50.46	50.94	51.16	50.83	
22	49.28	49.26	49.51	49.27	49.98	49.56	48.68	48.74	50.47	50.96	51.06	50.62	
23	49.23	49.27	49.37	49.28	49.52	49.24	48.79	48.70	50.28	50.96	51.10	50.69	
24	49.20	49.35	49.31	49.29	49.29	48.98	48.78	48.75	50.47	50.95	51.19	50.61	
25	49.23	49.35	49.43	49.37	49.86	49.04	48.78	48.66	50.31	50.90	51.10	50.56	
26	49.40	49.30	49.41	49.38	49.72	49.98	49.17	48.65	50.46	51.11	51.15	50.76	
27	49.39	49.34	49.51	49.43	49.85	49.87	49.22	48.75	50.65	50.81	51.15	50.61	
28	49.26	49.36	49.61	49.22	50.55	49.83	49.23	48.87	50.61	50.67	51.13	50.37	
29	49.25	49.35	49.47	49.39	49.80	49.56	49.21	48.93	50.59	50.92		50.26	
30	49.35	49.31	49.49	49.50	49.48	49.21	49.23	49.16	50.68	50.75		50.18	
31		49.54		49.48	49.52		49.15		50.82	50.96		50.34	
Mean	49.28	49.30	49.44	49.41	49.45	49.48	49.13	48.85	50.16	50.85	51.16	50.92	
Max	49.42	49.54	49.70	50.26	50.55	51.23	49.64	49.28	50.82	51.11	51.60	51.49	51.60
Min	49.14	49.13	49.31	48.84	48.75	48.60	48.65	48.65	49.23	50.34	50.92	50.18	48.60

Annual Max Momentary Gage Height 51.78 m. (MSL.) , at 12.00 Hours , on Feb 18 , 2017

Zero Gage at Bottom Elevation 48.50 m. (MSL.) , River Bed 43.88 m. (MSL.)

Left Bank Elevation 60.29 m. (MSL.) ,

Right Bank Elevation 60.96 m. (MSL.) , Drainage Are 18,447 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.40	116.75	148.50	211.70	219.10	146.80	84.20	85.75	136.90	310.30	436.50	490.50	
2	124.50	118.30	165.50	226.50	217.25	118.30	78.00	74.10	116.75	350.70	432.00	474.75	
3	119.85	116.75	160.40	217.25	150.20	87.30	93.50	62.40	136.90	336.35	472.50	474.75	
4	119.85	121.40	150.20	160.40	122.95	72.80	155.30	58.50	121.40	388.20	470.25	456.75	
5	126.05	121.40	175.70	191.00	116.75	52.00	153.60	50.80	113.65	369.30	474.75	504.20	
6	118.30	109.00	153.60	177.40	177.40	52.00	143.40	44.80	146.80	377.70	488.25	495.00	
7	112.10	127.60	141.70	197.80	213.55	40.00	174.00	55.90	132.25	386.10	492.75	499.60	
8	136.90	133.80	136.90	260.20	284.95	28.00	180.80	47.20	155.30	405.00	468.00	488.25	
9	99.70	98.15	138.45	294.70	239.45	37.60	135.35	47.20	146.80	425.25	497.30	543.35	
10	127.60	124.50	132.25	224.65	153.60	71.50	81.10	78.00	194.40	436.50	486.00	562.15	
11	116.75	127.60	140.00	192.70	118.30	48.40	79.55	121.40	288.85	452.25	461.25	534.10	
12	115.20	105.90	126.05	129.15	78.00	52.00	150.20	101.25	281.10	474.75	490.50	488.25	
13	143.40	109.00	129.15	95.05	57.20	132.25	138.45	79.55	310.30	465.75	479.25	488.25	
14	101.25	138.45	133.80	66.30	55.90	260.20	118.30	67.60	340.45	411.75	497.30	456.75	
15	112.10	118.30	129.15	57.20	46.00	501.90	109.00	57.20	358.90	438.75	461.25	416.25	
16	126.05	109.00	140.00	57.20	67.60	468.00	84.20	49.60	346.60	414.00	569.20	434.25	
17	109.00	124.50	127.60	57.20	68.90	260.20	66.30	48.40	390.30	441.00	566.85	450.00	
18	121.40	135.35	129.15	74.10	99.70	204.60	63.70	52.00	369.30	465.75	588.00	447.75	
19	122.95	115.20	153.60	65.00	71.50	463.50	63.70	49.60	367.20	459.00	486.00	454.50	
20	132.25	126.05	191.00	87.30	58.50	288.85	49.60	37.60	400.80	423.00	474.75	418.50	
21	129.15	127.60	170.60	113.65	75.40	160.40	34.00	36.40	334.30	436.50	486.00	411.75	
22	121.40	118.30	158.70	119.85	241.30	167.20	37.60	44.80	336.35	441.00	463.50	367.20	
23	113.65	119.85	135.35	121.40	160.40	115.20	50.80	40.00	298.60	441.00	472.50	381.90	
24	109.00	132.25	126.05	122.95	122.95	75.40	49.60	46.00	336.35	438.75	492.75	365.10	
25	113.65	132.25	145.10	135.35	219.10	84.20	49.60	35.20	304.45	427.50	472.50	354.80	
26	140.00	124.50	141.70	136.90	194.40	241.30	104.35	34.00	334.30	474.75	483.75	396.60	
27	138.45	130.70	158.70	145.10	217.25	220.95	112.10	46.00	373.50	407.25	483.75	365.10	
28	118.30	133.80	175.70	112.10	352.75	213.55	113.65	61.10	365.10	377.70	479.25	316.15	
29	116.75	132.25	151.90	138.45	208.00	167.20	110.55	68.90	360.95	432.00		294.70	
30	132.25	126.05	155.30	157.00	153.60	110.55	113.65	102.80	379.80	394.50		279.20	
31		163.80		153.60	160.40		101.25		409.50	441.00		310.30	
Total	3639.20	3838.35	4421.80	4499.15	4722.35	4942.15	3079.40	1784.05	8688.15	12943.35	13626.65	13420.70	79605.30	CMSDAY
Mean	121.31	123.82	147.39	145.13	152.33	164.74	99.34	59.47	280.26	417.53	486.67	432.93	218.10	CMS
Max	143.40	163.80	191.00	294.70	352.75	501.90	180.80	121.40	409.50	474.75	588.00	562.15	588.00	CMS
Min	99.70	98.15	126.05	57.20	46.00	28.00	34.00	34.00	113.65	310.30	432.00	279.20	28.00	CMS
Runoff	314.43	331.63	382.04	388.73	408.01	427.00	266.06	154.14	750.66	1118.31	1177.34	1159.55	6877.90	MCM

Momentary Peak 630.30 CMS. at 51.78 m. (MSL.) at 12.00 Hours , on Feb 18 , 2017

Runoff Yield 11.82 Liters/Second/Square KM. Momentary Peak Yield 34.170 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

Lat 17 - 14 - 24 N Long 100 - 33 - 18 E

Location : on left bank at Ban Huai Tha Nua.

Ban Huai Tha Nua **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	353 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+190.310 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 60 meters from the top staff gage. **Elevation** +200.077 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

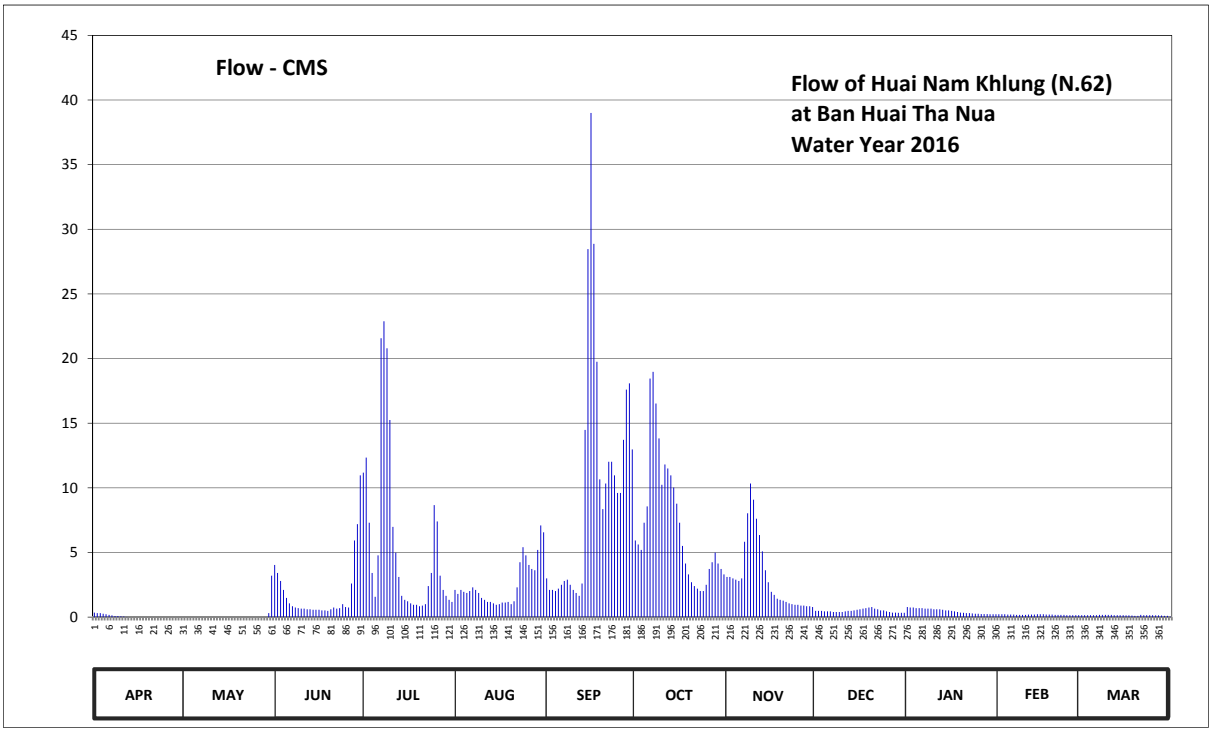
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.40	191.11	191.89	192.57	191.70	191.79	192.07	191.80	191.43	191.50	191.34	191.31	
2	191.38	191.10	191.83	192.68	191.66	191.70	192.04	191.80	191.43	191.49	191.34	191.31	
3	191.38	191.10	191.77	192.20	191.70	191.70	192.00	191.79	191.43	191.49	191.34	191.31	
4	191.36	191.09	191.70	191.83	191.68	191.69	192.20	191.78	191.42	191.48	191.33	191.31	
5	191.34	191.09	191.62	191.63	191.67	191.71	192.32	191.77	191.42	191.48	191.33	191.31	
6	191.32	191.08	191.55	191.96	191.69	191.74	193.22	191.79	191.42	191.48	191.33	191.31	
7	191.30	191.08	191.51	193.46	191.72	191.77	193.26	192.06	191.41	191.47	191.32	191.32	
8	191.27	191.07	191.49	193.56	191.70	191.78	193.06	192.27	191.41	191.47	191.32	191.32	
9	191.26	191.07	191.48	193.40	191.67	191.74	192.82	192.49	191.41	191.47	191.32	191.32	
10	191.25	191.06	191.47	192.95	191.62	191.70	192.48	192.37	191.41	191.46	191.32	191.32	
11	191.24	191.05	191.47	192.17	191.60	191.67	192.63	192.23	191.42	191.46	191.33	191.32	
12	191.21	191.05	191.46	191.98	191.57	191.64	192.60	192.11	191.43	191.46	191.33	191.31	
13	191.19	191.04	191.46	191.80	191.57	191.75	192.55	191.99	191.43	191.45	191.33	191.31	
14	191.17	191.04	191.45	191.64	191.55	192.88	192.46	191.85	191.44	191.44	191.34	191.31	
15	191.16	191.03	191.45	191.60	191.53	193.99	192.34	191.76	191.45	191.44	191.34	191.31	
16	191.15	191.02	191.45	191.58	191.54	194.72	192.20	191.68	191.46	191.43	191.34	191.30	
17	191.14	191.00	191.44	191.55	191.56	194.02	192.03	191.65	191.47	191.42	191.33	191.30	
18	191.14	190.99	191.44	191.53	191.56	193.32	191.90	191.61	191.48	191.41	191.33	191.29	
19	191.13	190.98	191.43	191.53	191.57	192.52	191.82	191.60	191.49	191.40	191.33	191.28	
20	191.13	190.97	191.46	191.51	191.54	192.30	191.76	191.59	191.50	191.39	191.32	191.28	
21	191.12	190.95	191.49	191.52	191.58	192.49	191.73	191.57	191.47	191.38	191.32	191.32	
22	191.12	190.94	191.47	191.54	191.72	192.65	191.71	191.55	191.46	191.38	191.32	191.31	
23	191.12	190.93	191.48	191.73	191.91	192.65	191.69	191.54	191.44	191.37	191.32	191.31	
24	191.11	190.92	191.54	191.83	192.02	192.55	191.69	191.53	191.44	191.36	191.31	191.31	
25	191.11	190.92	191.50	192.33	191.96	192.42	191.74	191.53	191.42	191.36	191.31	191.31	
26	191.11	190.95	191.49	192.21	191.89	192.42	191.86	191.52	191.41	191.35	191.31	191.30	
27	191.12	190.97	191.75	191.81	191.86	192.81	191.91	191.52	191.40	191.35	191.31	191.30	
28	191.12	191.00	192.07	191.70	191.85	193.15	191.98	191.51	191.40	191.35	191.31	191.29	
29	191.11	191.12	192.19	191.64	192.00	193.19	191.90	191.51	191.39	191.34		191.28	
30	191.11	191.38	192.55	191.60	192.18	192.74	191.86	191.50	191.39	191.34		191.28	
31		191.81		191.57	192.13		191.82		191.39	191.34		191.22	
Mean	191.20	191.06	191.61	192.02	191.73	192.44	192.18	191.78	191.43	191.42	191.33	191.30	
Max	191.40	191.81	192.55	193.56	192.18	194.72	193.26	192.49	191.50	191.50	191.34	191.32	194.72
Min	191.11	190.92	191.43	191.51	191.53	191.64	191.69	191.50	191.39	191.34	191.31	191.22	190.92

Annual Max Momentary Gage Height 194.91 m. (MSL.) , at 06.00 Hours , on Sep 16 , 2015

Zero Gage at Bottom Elevation 190.31 m. (MSL.) , River Bed 190.79 m. (MSL.)

Left Bank Elevation 196.91 m. (MSL.) ,

Right Bank Elevation 196.90 m. (MSL.) , Drainage Are 353 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	0.00	4.04	11.18	2.10	3.00	5.93	3.10	0.48	0.78	0.22	0.15		
2	0.31	0.00	3.41	12.34	1.80	2.10	5.62	3.10	0.48	0.74	0.22	0.15		
3	0.31	0.00	2.80	7.30	2.10	2.10	5.20	3.00	0.48	0.74	0.22	0.15		
4	0.26	0.00	2.10	3.41	1.95	2.02	7.30	2.90	0.44	0.69	0.20	0.15		
5	0.22	0.00	1.49	1.57	1.87	2.20	8.56	2.80	0.44	0.69	0.20	0.15		
6	0.17	0.00	1.06	4.78	2.02	2.50	18.46	3.00	0.44	0.69	0.20	0.15		
7	0.13	0.00	0.84	21.58	2.30	2.80	18.98	5.83	0.39	0.65	0.17	0.17		
8	0.09	0.00	0.74	22.88	2.10	2.90	16.52	8.03	0.39	0.65	0.17	0.17		
9	0.08	0.00	0.69	20.80	1.87	2.50	13.82	10.34	0.39	0.65	0.17	0.17		
10	0.06	0.00	0.65	15.25	1.49	2.10	10.24	9.08	0.39	0.61	0.17	0.17		
11	0.05	0.00	0.65	6.98	1.34	1.87	11.81	7.61	0.44	0.61	0.20	0.17		
12	0.01	0.00	0.61	4.99	1.17	1.64	11.50	6.35	0.48	0.61	0.20	0.15		
13	0.00	0.00	0.61	3.10	1.17	2.60	10.97	5.09	0.48	0.57	0.20	0.15		
14	0.00	0.00	0.57	1.64	1.06	14.48	10.03	3.62	0.52	0.52	0.22	0.15		
15	0.00	0.00	0.57	1.34	0.95	28.47	8.77	2.70	0.57	0.52	0.22	0.15		
16	0.00	0.00	0.57	1.23	1.00	39.00	7.30	1.95	0.61	0.48	0.22	0.13		
17	0.00	0.00	0.52	1.06	1.12	28.88	5.51	1.72	0.65	0.44	0.20	0.13		
18	0.00	0.00	0.52	0.95	1.12	19.76	4.15	1.42	0.69	0.39	0.20	0.12		
19	0.00	0.00	0.48	0.95	1.17	10.66	3.31	1.34	0.74	0.35	0.20	0.10		
20	0.00	0.00	0.61	0.84	1.00	8.35	2.70	1.28	0.78	0.33	0.17	0.10		
21	0.00	0.00	0.74	0.89	1.23	10.34	2.40	1.17	0.65	0.31	0.17	0.17		
22	0.00	0.00	0.65	1.00	2.30	12.02	2.20	1.06	0.61	0.31	0.17	0.15		
23	0.00	0.00	0.69	2.40	4.25	12.02	2.02	1.00	0.52	0.28	0.17	0.15		
24	0.00	0.00	1.00	3.41	5.41	10.97	2.02	0.95	0.52	0.26	0.15	0.15		
25	0.00	0.00	0.78	8.66	4.78	9.61	2.50	0.95	0.44	0.26	0.15	0.15		
26	0.00	0.00	0.74	7.40	4.04	9.61	3.73	0.89	0.39	0.24	0.15	0.13		
27	0.00	0.00	2.60	3.20	3.73	13.71	4.25	0.89	0.35	0.24	0.15	0.13		
28	0.00	0.00	5.93	2.10	3.62	17.60	4.99	0.84	0.35	0.24	0.15	0.12		
29	0.00	0.00	7.19	1.64	5.20	18.08	4.15	0.84	0.33	0.22		0.10		
30	0.00	0.31	10.97	1.34	7.09	12.97	3.73	0.78	0.33	0.22		0.10		
31		3.20		1.17	6.56		3.31		0.33	0.22		0.03		
Total	2.04	3.51	54.82	177.38	78.91	306.86	221.98	93.63	15.10	14.51	5.23	4.31	978.28	CMSDAY
Mean	0.07	0.11	1.83	5.72	2.55	10.23	7.16	3.12	0.49	0.47	0.19	0.14	2.68	CMS
Max	0.35	3.20	10.97	22.88	7.09	39.00	18.98	10.34	0.78	0.78	0.22	0.17	39.00	CMS
Min	0.00	0.00	0.48	0.84	0.95	1.64	2.02	0.78	0.33	0.22	0.15	0.03	0.00	CMS
Runoff	0.18	0.30	4.74	15.33	6.82	26.51	19.18	8.09	1.30	1.25	0.45	0.37	84.52	MCM

Momentary Peak 41.85 CMS. at 194.91 m. (MSL.) at 06.00 Hours , on Sep 16 , 2016

Runoff Yield 7.59 Liters/Second/Square KM. Momentary Peak Yield 118.560 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Pha Khwang , Nan (N.64)

Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	**Amphoe** Mueang	**Changwat** Nan
Drainge Area	3,476 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+210.900 m. (MSL.)		
Bench Mark	B.M.- Temporary.		
Location BM	On right bank at the approach of the bridge.		**Elevation** +223.555 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

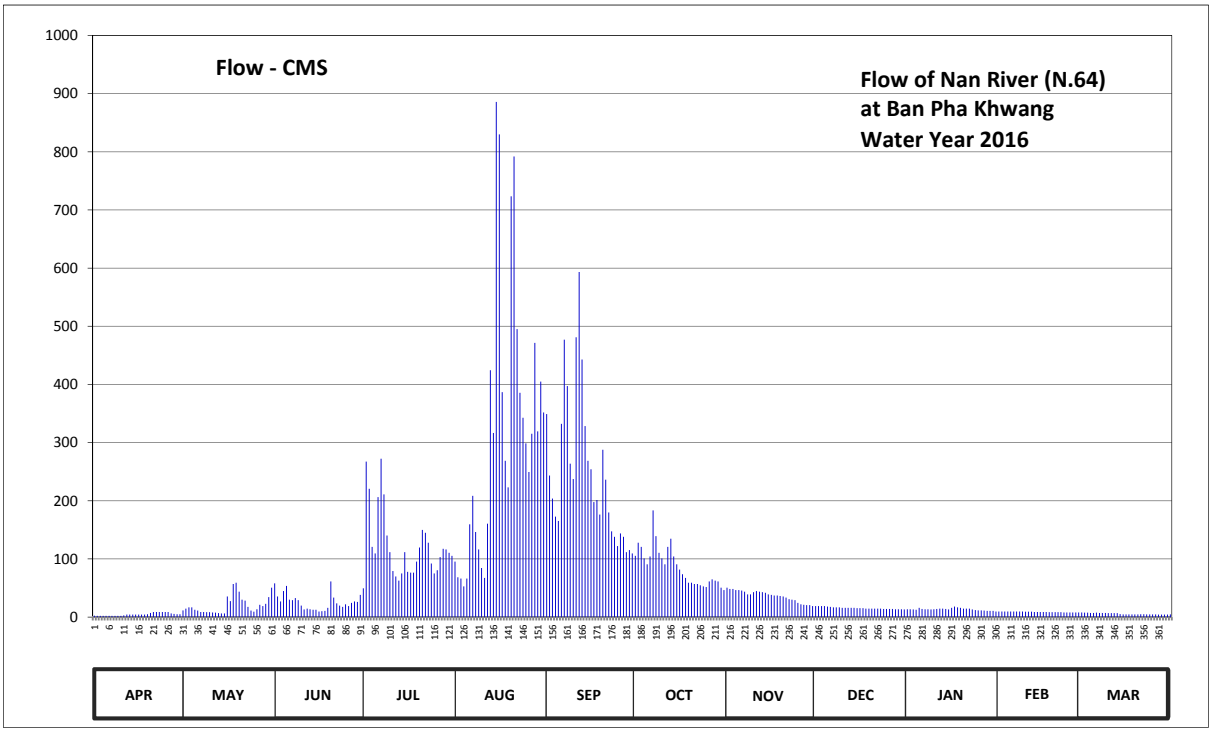
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.40	211.64	212.19	212.11	212.47	214.57	212.55	212.12	211.76	211.68	211.60	211.56	
2	211.39	211.70	211.96	213.92	212.28	213.72	212.75	212.10	211.76	211.68	211.60	211.55	
3	211.39	211.73	211.86	213.53	212.26	213.39	212.69	212.10	211.76	211.67	211.60	211.55	
4	211.39	211.73	212.06	212.69	212.14	213.13	212.51	212.08	211.76	211.66	211.60	211.54	
5	211.39	211.66	212.15	212.59	212.26	213.07	212.44	212.08	211.75	211.72	211.60	211.54	
6	211.39	211.63	211.90	213.41	213.02	214.44	212.54	212.07	211.74	211.69	211.60	211.55	
7	211.39	211.58	211.89	213.96	213.43	215.55	213.22	212.05	211.73	211.68	211.60	211.54	
8	211.39	211.58	211.93	213.45	212.91	214.94	212.85	212.00	211.73	211.68	211.60	211.54	
9	211.39	211.57	211.89	212.86	212.65	213.89	212.60	212.00	211.73	211.67	211.60	211.54	
10	211.39	211.57	211.77	212.61	212.40	213.67	212.51	212.04	211.72	211.68	211.59	211.53	
11	211.42	211.56	211.67	212.36	212.27	215.58	212.44	212.06	211.72	211.69	211.59	211.53	
12	211.46	211.55	211.70	212.29	213.03	216.38	212.69	212.05	211.72	211.70	211.59	211.53	
13	211.46	211.53	211.68	212.23	215.15	215.29	212.81	212.04	211.72	211.70	211.58	211.53	
14	211.46	211.52	211.66	212.33	214.32	214.41	212.54	212.03	211.72	211.69	211.58	211.49	
15	211.46	211.52	211.66	212.61	218.47	213.93	212.44	212.00	211.71	211.67	211.58	211.47	
16	211.46	211.96	211.60	212.35	218.07	213.81	212.38	211.99	211.71	211.72	211.58	211.47	
17	211.46	211.87	211.61	212.34	214.86	213.34	212.32	211.98	211.71	211.75	211.58	211.47	
18	211.46	212.18	211.62	212.34	213.93	213.37	212.27	211.98	211.70	211.73	211.57	211.47	
19	211.48	212.20	211.72	212.47	213.55	213.16	212.20	211.97	211.70	211.72	211.57	211.47	
20	211.54	212.05	212.22	212.68	217.31	214.09	212.20	211.96	211.70	211.70	211.57	211.47	
21	211.58	211.90	211.94	212.94	217.80	213.66	212.18	211.94	211.70	211.70	211.57	211.48	
22	211.58	211.88	211.82	212.90	215.68	213.19	212.18	211.91	211.70	211.70	211.57	211.48	
23	211.58	211.74	211.77	212.75	214.85	212.92	212.16	211.90	211.70	211.67	211.56	211.47	
24	211.58	211.63	211.74	212.45	214.52	212.84	212.14	211.89	211.69	211.65	211.56	211.47	
25	211.58	211.59	211.80	212.33	214.18	212.70	212.13	211.83	211.69	211.64	211.56	211.47	
26	211.58	211.68	211.76	212.37	213.77	212.89	212.22	211.80	211.69	211.64	211.56	211.47	
27	211.52	211.79	211.83	212.53	214.31	212.84	212.25	211.79	211.69	211.63	211.56	211.46	
28	211.50	211.76	211.86	212.66	215.51	212.61	212.23	211.78	211.68	211.62	211.56	211.46	
29	211.48	211.81	211.85	212.65	214.34	212.64	212.22	211.78	211.68	211.62		211.46	
30	211.48	211.95	211.99	212.60	215.00	212.59	212.12	211.76	211.68	211.62		211.46	
31		212.12		212.55	214.59		212.08		211.67	211.60		211.47	
Mean	211.47	211.75	211.84	212.71	214.24	213.75	212.41	211.97	211.71	211.68	211.58	211.50	
Max	211.58	212.20	212.22	213.96	218.47	216.38	213.22	212.12	211.76	211.75	211.60	211.56	218.47
Min	211.39	211.52	211.60	212.11	212.14	212.59	212.08	211.76	211.67	211.60	211.56	211.46	211.39

Annual Max Momentary Gage Height 220.25 m. (MSL.) , at 19.00 Hours , on Aug 15, 2016

Zero Gage at Bottom Elevation 210.90 m. (MSL.) , River Bed 210.57 m. (MSL.)

Left Bank Elevation 226.43 m. (MSL.) ,

Right Bank Elevation 224.10 m. (MSL.) , Drainage Are 3,476 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	11.62	57.95	49.55	95.35	349.10	105.25	50.60	19.00	13.54	9.70	8.02	
2	2.25	14.50	35.40	267.40	68.60	243.40	127.75	48.50	19.00	13.54	9.70	7.60	
3	2.25	16.75	26.80	220.60	66.20	203.80	120.85	48.50	19.00	13.06	9.70	7.60	
4	2.25	16.75	44.70	120.85	52.70	172.60	101.05	46.60	19.00	12.58	9.70	7.18	
5	2.25	12.58	53.75	109.45	66.20	165.40	90.70	46.60	18.25	16.00	9.70	7.18	
6	2.25	11.14	30.00	206.20	159.40	332.20	104.20	45.65	17.50	14.02	9.70	7.60	
7	2.25	8.86	29.20	272.20	208.60	477.00	183.40	43.75	16.75	13.54	9.70	7.18	
8	2.25	8.86	32.70	211.00	146.20	397.20	139.25	39.00	16.75	13.54	9.70	7.18	
9	2.25	8.44	29.20	140.40	116.25	263.80	110.50	39.00	16.75	13.06	9.70	7.18	
10	2.25	8.44	19.75	111.65	84.50	237.40	101.05	42.80	16.00	13.54	9.28	6.76	
11	3.10	8.02	13.06	79.10	67.40	481.20	90.70	44.70	16.00	14.02	9.28	6.76	
12	4.30	7.60	14.50	69.80	160.60	593.20	120.85	43.75	16.00	14.50	9.28	6.76	
13	4.30	6.76	13.54	62.60	424.50	442.70	134.65	42.80	16.00	14.50	8.86	6.76	
14	4.30	6.34	12.58	75.05	316.60	328.30	104.20	41.85	16.00	14.02	8.86	5.20	
15	4.30	6.34	12.58	111.65	885.80	268.60	90.70	39.00	15.25	13.06	8.86	4.60	
16	4.30	35.40	9.70	77.75	829.80	254.20	81.80	38.10	15.25	16.00	8.86	4.60	
17	4.30	27.60	10.18	76.40	386.80	197.80	73.70	37.20	15.25	18.25	8.86	4.60	
18	4.30	56.90	10.66	76.40	268.60	201.40	67.40	37.20	14.50	16.75	8.44	4.60	
19	4.90	59.00	16.00	95.35	223.00	176.20	59.00	36.30	14.50	16.00	8.44	4.60	
20	7.18	43.75	61.40	119.70	723.40	287.80	59.00	35.40	14.50	14.50	8.44	4.60	
21	8.86	30.00	33.60	149.80	792.00	236.20	56.90	33.60	14.50	14.50	8.44	4.90	
22	8.86	28.40	23.60	145.00	495.20	179.80	56.90	30.90	14.50	14.50	8.44	4.90	
23	8.86	17.50	19.75	127.75	385.50	147.40	54.80	30.00	14.50	13.06	8.02	4.60	
24	8.86	11.14	17.50	92.25	342.60	138.10	52.70	29.20	14.02	12.10	8.02	4.60	
25	8.86	9.28	22.00	75.05	298.60	122.00	51.65	24.40	14.02	11.62	8.02	4.60	
26	8.86	13.54	19.00	80.45	249.40	143.85	61.40	22.00	14.02	11.62	8.02	4.60	
27	6.34	21.25	24.40	103.15	315.30	138.10	65.00	21.25	14.02	11.14	8.02	4.30	
28	5.50	19.00	26.80	117.40	471.40	111.65	62.60	20.50	13.54	10.66	8.02	4.30	
29	4.90	22.80	26.00	116.25	319.20	115.10	61.40	20.50	13.54	10.66		4.30	
30	4.90	34.50	38.10	110.50	405.00	109.45	50.60	19.00	13.54	10.66		4.30	
31		50.60		105.25	351.70		46.60		13.06	9.70		4.60	
Total	142.83	633.66	784.40	3775.95	9776.40	7514.95	2686.55	1098.65	484.51	418.24	249.76	176.56	27742.46	CMSDAY
Mean	4.76	20.44	26.15	121.80	315.37	250.50	86.66	36.62	15.63	13.49	8.92	5.70	76.01	CMS
Max	8.86	59.00	61.40	272.20	885.80	593.20	183.40	50.60	19.00	18.25	9.70	8.02	885.80	CMS
Min	2.25	6.34	9.70	49.55	52.70	109.45	46.60	19.00	13.06	9.70	8.02	4.30	2.25	CMS
Runoff	12.34	54.75	67.77	326.24	844.68	649.29	232.12	94.92	41.86	36.14	21.58	15.25	2396.95	MCM

Momentary Peak 1147.50 CMS. at 220.25 m. (MSL.) at 19.00 Hours , on Aug 15 , 2016

Runoff Yield 21.87 Liters/Second/Square KM. Momentary Peak Yield 330.120 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

Ban Pang Sa **Amphoe** Tha Wang Pha **Changwat** Nan

Drainge Area	621 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+248.891 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank about 20 meters from the top staff gage. **Elevation** +257.381 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

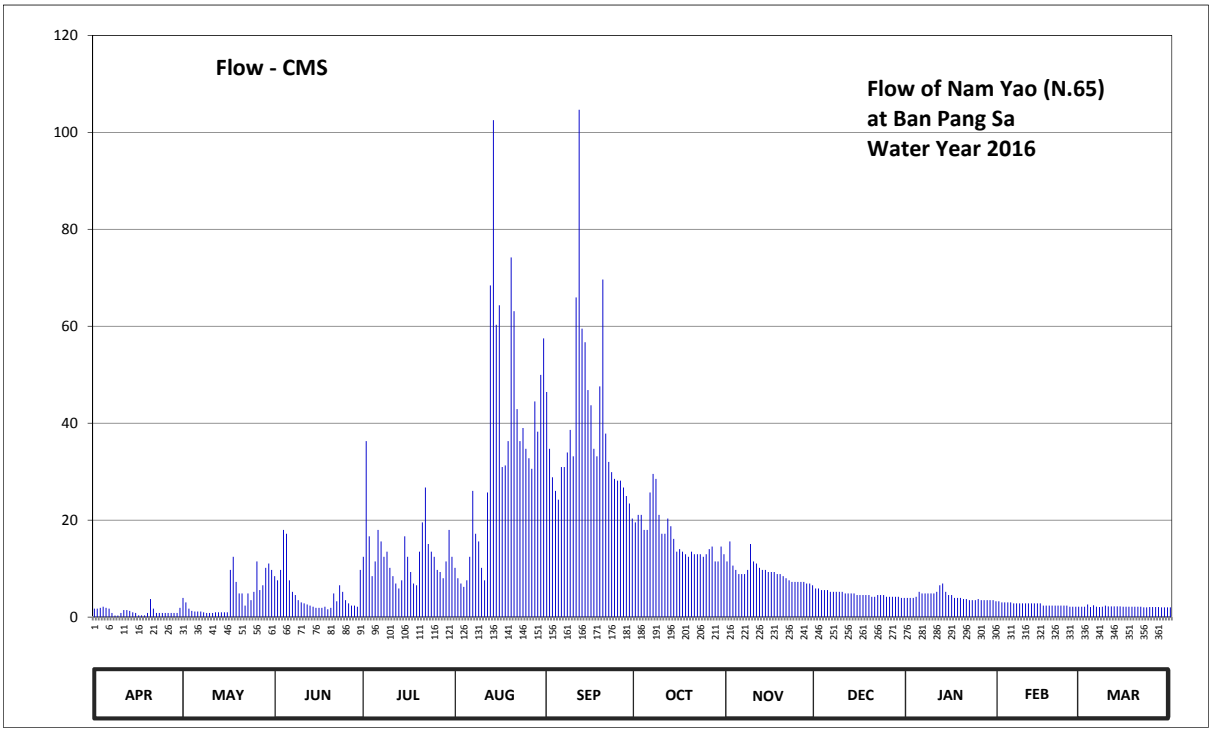
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.49	249.59	249.72	249.81	249.76	250.57	249.93	249.79	249.65	249.59	249.56	249.51	
2	249.49	249.55	249.70	250.31	249.71	250.27	249.95	249.87	249.65	249.59	249.55	249.51	
3	249.50	249.49	249.75	249.89	249.68	250.11	249.95	249.77	249.64	249.59	249.55	249.53	
4	249.51	249.46	249.91	249.72	249.66	250.03	249.91	249.75	249.64	249.60	249.55	249.64	
5	249.50	249.45	249.90	249.79	249.70	249.99	249.91	249.73	249.64	249.63	249.55	249.69	
6	249.49	249.45	249.70	249.91	249.81	250.17	250.02	249.73	249.63	249.62	249.54	249.65	
7	249.43	249.45	249.63	249.87	250.03	250.17	250.13	249.73	249.63	249.62	249.54	249.64	
8	249.38	249.44	249.61	249.81	249.90	250.25	250.10	249.75	249.63	249.62	249.54	249.65	
9	249.38	249.43	249.57	249.83	249.87	250.37	249.95	249.86	249.63	249.62	249.54	249.68	
10	249.43	249.43	249.55	249.76	249.76	250.23	249.90	249.79	249.63	249.62	249.54	249.66	
11	249.47	249.43	249.54	249.72	249.70	251.06	249.90	249.78	249.62	249.63	249.54	249.66	
12	249.47	249.44	249.53	249.68	250.02	251.98	249.94	249.76	249.62	249.67	249.54	249.66	
13	249.46	249.44	249.52	249.65	251.12	250.90	249.92	249.75	249.62	249.68	249.54	249.66	
14	249.44	249.44	249.51	249.70	251.93	250.83	249.88	249.75	249.62	249.63	249.54	249.66	
15	249.43	249.44	249.50	249.89	250.92	250.58	249.83	249.74	249.61	249.61	249.54	249.65	
16	249.39	249.44	249.50	249.81	251.02	250.50	249.84	249.74	249.61	249.61	249.52	249.65	
17	249.39	249.75	249.50	249.74	250.17	250.27	249.83	249.74	249.61	249.59	249.52	249.65	
18	249.39	249.81	249.51	249.68	250.18	250.23	249.82	249.73	249.61	249.59	249.52	249.65	
19	249.43	249.69	249.48	249.67	250.31	250.60	249.81	249.73	249.61	249.59	249.52	249.65	
20	249.58	249.62	249.50	249.83	251.26	251.15	249.83	249.72	249.60	249.58	249.52	249.65	
21	249.49	249.62	249.62	249.93	250.99	250.35	249.82	249.71	249.60	249.58	249.52	249.65	
22	249.43	249.52	249.56	250.05	250.48	250.20	249.82	249.70	249.61	249.57	249.52	249.63	
23	249.43	249.62	249.67	249.86	250.31	250.14	249.82	249.69	249.61	249.57	249.52	249.63	
24	249.43	249.57	249.63	249.83	250.38	250.10	249.81	249.69	249.61	249.57	249.52	249.64	
25	249.43	249.63	249.57	249.81	250.27	250.09	249.82	249.69	249.60	249.58	249.51	249.64	
26	249.43	249.79	249.54	249.75	250.22	250.09	249.84	249.69	249.60	249.57	249.51	249.64	
27	249.43	249.64	249.52	249.74	250.16	250.05	249.85	249.69	249.60	249.57	249.51	249.64	
28	249.43	249.67	249.52	249.71	250.52	250.00	249.79	249.68	249.60	249.57	249.51	249.63	
29	249.43	249.76	249.51	249.79	250.36	249.98	249.79	249.68	249.60	249.57		249.63	
30	249.50	249.78	249.75	249.91	250.66	249.94	249.85	249.67	249.59	249.57		249.63	
31		249.75		249.81	250.85		249.82		249.59	249.56		249.63	
Mean	249.45	249.57	249.60	249.81	250.31	250.37	249.88	249.74	249.62	249.60	249.53	249.64	
Max	249.58	249.81	249.91	250.31	251.93	251.98	250.13	249.87	249.65	249.68	249.56	249.69	251.98
Min	249.38	249.43	249.48	249.65	249.66	249.94	249.79	249.67	249.59	249.56	249.51	249.51	249.38

Annual Max Momentary Gage Height 252.87 m. (MSL.) , at 06.00 Hours , on Sep 12 , 2016

Zero Gage at Bottom Elevation 248.89 m. (MSL.) , River Bed 248.95 m. (MSL.)

Left Bank Elevation 256.62 m. (MSL.) ,

Right Bank Elevation 256.61 m. (MSL.) , Drainage Are 621 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.75	3.97	8.46	12.43	10.18	46.43	19.54	11.47	5.90	3.97	3.28	2.13	
2	1.75	3.05	7.60	36.29	8.03	34.73	21.10	15.61	5.90	3.97	3.05	2.13	
3	1.90	1.75	9.75	16.67	6.92	28.85	21.10	10.61	5.56	3.97	3.05	2.59	
4	2.13	1.30	17.98	8.46	6.24	26.05	17.98	9.75	5.56	4.20	3.05	2.08	
5	1.90	1.15	17.20	11.47	7.60	24.22	17.98	8.89	5.56	5.22	3.05	2.43	
6	1.75	1.15	7.60	17.98	12.43	30.95	25.70	8.89	5.22	4.88	2.82	2.15	
7	0.85	1.15	5.22	15.61	26.05	30.95	29.55	8.89	5.22	4.88	2.82	2.08	
8	0.32	1.00	4.54	12.43	17.20	33.95	28.50	9.75	5.22	4.88	2.82	2.15	
9	0.32	0.85	3.51	13.49	15.61	38.63	21.10	15.08	5.22	4.88	2.82	2.36	
10	0.85	0.85	3.05	10.18	10.18	33.17	17.20	11.47	5.22	4.88	2.82	2.22	
11	1.45	0.85	2.82	8.46	7.60	65.96	17.20	11.04	4.88	5.22	2.82	2.22	
12	1.45	1.00	2.59	6.92	25.70	104.65	20.32	10.18	4.88	6.58	2.82	2.22	
13	1.30	1.00	2.36	5.90	68.42	59.50	18.76	9.75	4.88	6.92	2.82	2.22	
14	1.00	1.00	2.13	7.60	102.53	56.70	16.14	9.75	4.88	5.22	2.82	2.22	
15	0.85	1.00	1.90	16.67	60.30	46.82	13.49	9.32	4.54	4.54	2.82	2.15	
16	0.36	1.00	1.90	12.43	64.32	43.70	14.02	9.32	4.54	4.54	2.36	2.15	
17	0.36	9.75	1.90	9.32	30.95	34.73	13.49	9.32	4.54	3.97	2.36	2.15	
18	0.36	12.43	2.13	6.92	31.30	33.17	12.96	8.89	4.54	3.97	2.36	2.15	
19	0.85	7.26	1.60	6.58	36.29	47.60	12.43	8.89	4.54	3.97	2.36	2.15	
20	3.74	4.88	1.90	13.49	74.19	69.65	13.49	8.46	4.20	3.74	2.36	2.15	
21	1.75	4.88	4.88	19.54	63.10	37.85	12.96	8.03	4.20	3.74	2.36	2.15	
22	0.85	2.36	3.28	26.75	42.92	32.00	12.96	7.60	4.54	3.51	2.36	2.01	
23	0.85	4.88	6.58	15.08	36.29	29.90	12.96	7.26	4.54	3.51	2.36	2.01	
24	0.85	3.51	5.22	13.49	39.02	28.50	12.43	7.26	4.54	3.51	2.36	2.08	
25	0.85	5.22	3.51	12.43	34.73	28.15	12.96	7.26	4.20	3.74	2.13	2.08	
26	0.85	11.47	2.82	9.75	32.78	28.15	14.02	7.26	4.20	3.51	2.13	2.08	
27	0.85	5.56	2.36	9.32	30.60	26.75	14.55	7.26	4.20	3.51	2.13	2.08	
28	0.85	6.58	2.36	8.03	44.48	25.00	11.47	6.92	4.20	3.51	2.13	2.01	
29	0.85	10.18	2.13	11.47	38.24	23.44	11.47	6.92	4.20	3.51		2.01	
30	1.90	11.04	9.75	17.98	49.97	20.32	14.55	6.58	3.97	3.51		2.01	
31		9.75		12.43	57.50		12.96		3.97	3.28		2.01	
Total	35.69	131.82	149.03	405.57	1091.67	1170.47	515.34	277.68	147.76	133.24	73.44	66.63	4198.34	CMSDAY
Mean	1.19	4.25	4.97	13.08	35.22	39.02	16.62	9.26	4.77	4.30	2.62	2.15	11.50	CMS
Max	3.74	12.43	17.98	36.29	102.53	104.65	29.55	15.61	5.90	6.92	3.28	2.59	104.65	CMS
Min	0.32	0.85	1.60	5.90	6.24	20.32	11.47	6.58	3.97	3.28	2.13	2.01	0.32	CMS
Runoff	3.08	11.39	12.88	35.04	94.32	101.13	44.53	23.99	12.77	11.51	6.35	5.76	362.74	MCM

Momentary Peak 144.22 CMS. at 252.87 m. (MSL.) at 06.00 Hours , on Sep 12 , 2016

Runoff Yield 18.52 Liters/Second/Square KM. Momentary Peak Yield 232.240 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Om Sing.

Ban Noen Phoem **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	152 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+201.220 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank about 8 meters from the top staff gage. **Elevation** +208.617 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

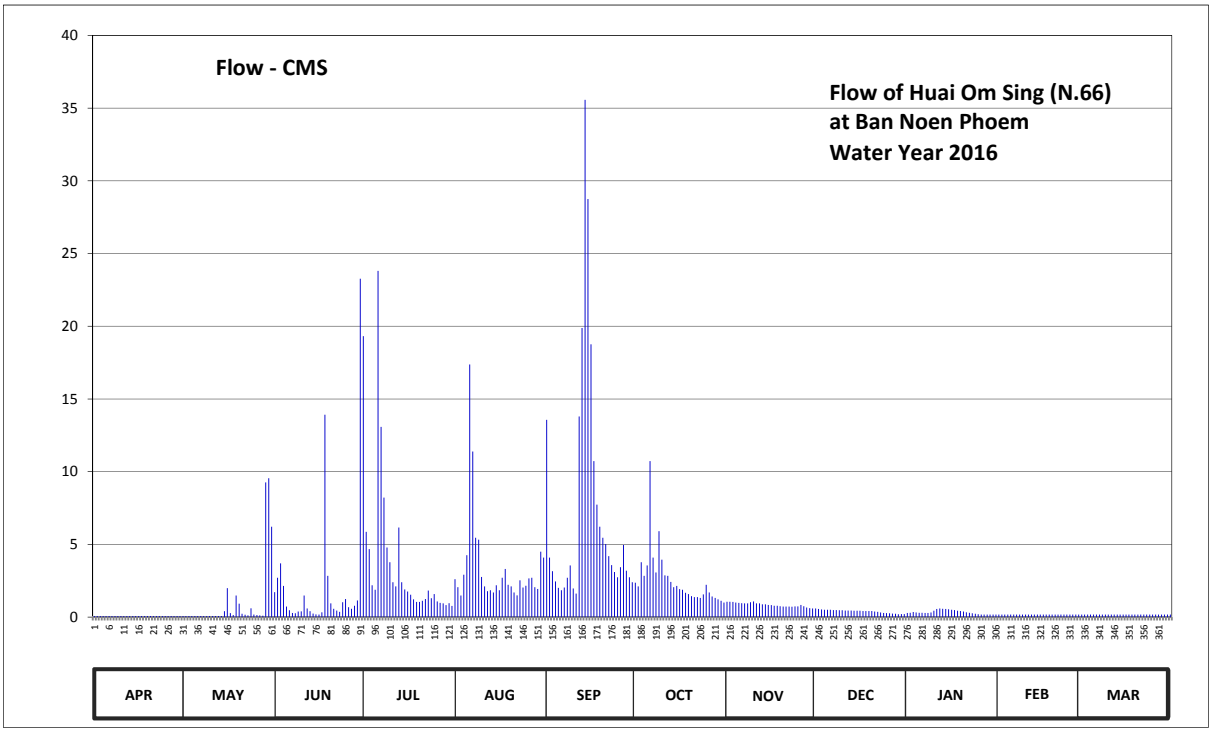
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.37	202.37	203.45	206.13	203.81	205.68	203.72	203.13	202.86	202.66	202.54	202.54	
2	202.37	202.37	203.85	204.77	203.60	204.31	203.62	203.13	202.84	202.67	202.54	202.54	
3	202.37	202.37	204.20	204.48	203.34	204.02	204.22	203.12	202.82	202.70	202.54	202.54	
4	202.37	202.37	203.63	203.65	203.93	203.75	203.90	203.10	202.81	202.68	202.54	202.54	
5	202.37	202.37	202.95	203.52	204.36	203.58	204.15	203.09	202.81	202.67	202.54	202.54	
6	202.37	202.37	202.78	206.41	205.99	203.51	205.43	203.08	202.80	202.67	202.54	202.54	
7	202.37	202.37	202.66	205.64	205.49	203.59	204.31	203.07	202.79	202.66	202.54	202.54	
8	202.37	202.37	202.64	205.16	204.68	203.85	203.99	203.07	202.79	202.66	202.54	202.54	
9	202.37	202.37	202.72	204.51	204.65	204.15	204.78	203.11	202.78	202.68	202.54	202.54	
10	202.37	202.37	202.73	204.22	203.87	203.56	204.27	203.14	202.78	202.76	202.54	202.54	
11	202.37	202.37	203.34	203.73	203.62	203.41	203.91	203.07	202.77	202.84	202.54	202.54	
12	202.37	202.37	202.86	203.62	203.48	205.70	203.90	203.07	202.77	202.86	202.54	202.54	
13	202.37	202.37	202.74	204.83	203.51	206.17	203.74	203.04	202.77	202.85	202.54	202.54	
14	202.37	202.37	202.63	203.73	203.44	206.95	203.60	203.04	202.76	202.84	202.54	202.54	
15	202.37	202.74	202.59	203.53	203.65	206.65	203.63	203.02	202.76	202.83	202.54	202.54	
16	202.37	203.57	202.56	203.47	203.51	206.09	203.54	203.01	202.76	202.81	202.54	202.54	
17	202.37	202.65	202.69	203.37	203.85	205.43	203.52	202.99	202.75	202.79	202.54	202.54	
18	202.37	202.49	205.71	203.21	204.07	205.09	203.43	202.99	202.75	202.76	202.54	202.54	
19	202.37	203.34	203.90	203.12	203.66	204.84	203.39	202.97	202.75	202.75	202.54	202.54	
20	202.37	203.06	203.07	203.12	203.62	204.68	203.32	202.95	202.75	202.72	202.54	202.54	
21	202.37	202.62	202.85	203.16	203.44	204.58	203.29	202.95	202.72	202.69	202.54	202.54	
22	202.37	202.52	202.77	203.22	203.35	204.34	203.29	202.95	202.71	202.67	202.54	202.54	
23	202.37	202.45	202.71	203.50	203.78	204.16	203.26	202.94	202.68	202.64	202.54	202.54	
24	202.37	202.87	203.11	203.25	203.59	204.00	203.38	202.96	202.66	202.62	202.54	202.54	
25	202.37	202.55	203.22	203.39	203.64	203.86	203.66	202.96	202.65	202.60	202.54	202.54	
26	202.37	202.49	202.92	203.14	203.83	204.11	203.44	203.02	202.64	202.57	202.54	202.54	
27	202.37	202.44	202.85	203.09	203.85	204.56	203.31	202.97	202.63	202.55	202.54	202.54	
28	202.37	202.40	202.99	203.07	203.60	204.03	203.26	202.91	202.62	202.54	202.54	202.54	
29	202.37	205.28	203.17	203.01	203.55	203.86	203.21	202.88	202.60	202.54		202.54	
30	202.37	205.31	206.38	203.08	204.43	203.73	203.16	202.86	202.61	202.54		202.54	
31		204.84		202.98	204.31		203.10		202.61	202.54		202.54	
Mean	202.37	202.80	203.22	203.84	203.92	204.54	203.70	203.02	202.74	202.69	202.54	202.54	
Max	202.37	205.31	206.38	206.41	205.99	206.95	205.43	203.14	202.86	202.86	202.54	202.54	206.95
Min	202.37	202.37	202.56	202.98	203.34	203.41	203.10	202.86	202.60	202.54	202.54	202.54	202.37

Annual Max Momentary Gage Height 207.07 m. (MSL.) , at 06.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 201.22 m. (MSL.) , River Bed 202.17 m. (MSL.)

Left Bank Elevation 208.66 m. (MSL.) ,

Right Bank Elevation 208.63 m. (MSL.) , Drainage Are 152 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.08	1.72	19.32	2.61	13.56	2.37	1.06	0.59	0.29	0.17	0.17		
2	0.08	0.08	2.71	5.86	2.06	4.09	2.11	1.06	0.56	0.30	0.17	0.17		
3	0.08	0.08	3.70	4.68	1.48	3.16	3.77	1.04	0.53	0.35	0.17	0.17		
4	0.08	0.08	2.14	2.19	2.92	2.45	2.84	1.00	0.51	0.32	0.17	0.17		
5	0.08	0.08	0.72	1.88	4.26	2.01	3.55	0.98	0.51	0.30	0.17	0.17		
6	0.08	0.08	0.47	23.81	17.37	1.85	10.73	0.96	0.50	0.30	0.17	0.17		
7	0.08	0.08	0.29	13.08	11.39	2.04	4.09	0.94	0.48	0.29	0.17	0.17		
8	0.08	0.08	0.26	8.22	5.46	2.71	3.07	0.94	0.48	0.29	0.17	0.17		
9	0.08	0.08	0.38	4.78	5.32	3.55	5.91	1.02	0.47	0.32	0.17	0.17		
10	0.08	0.08	0.39	3.77	2.76	1.97	3.95	1.08	0.47	0.44	0.17	0.17		
11	0.08	0.08	1.48	2.40	2.11	1.62	2.87	0.94	0.45	0.56	0.17	0.17		
12	0.08	0.08	0.59	2.11	1.78	13.80	2.84	0.94	0.45	0.59	0.17	0.17		
13	0.08	0.08	0.41	6.16	1.85	19.88	2.42	0.88	0.45	0.57	0.17	0.17		
14	0.08	0.08	0.24	2.40	1.69	35.57	2.06	0.88	0.44	0.56	0.17	0.17		
15	0.08	0.41	0.19	1.90	2.19	28.75	2.14	0.84	0.44	0.54	0.17	0.17		
16	0.08	1.99	0.18	1.76	1.85	18.76	1.92	0.82	0.44	0.51	0.17	0.17		
17	0.08	0.27	0.33	1.54	2.71	10.73	1.88	0.78	0.42	0.48	0.17	0.17		
18	0.08	0.14	13.92	1.22	3.31	7.73	1.67	0.78	0.42	0.44	0.17	0.17		
19	0.08	1.48	2.84	1.04	2.22	6.22	1.58	0.75	0.42	0.42	0.17	0.17		
20	0.08	0.92	0.94	1.04	2.11	5.46	1.44	0.72	0.42	0.38	0.17	0.17		
21	0.08	0.23	0.57	1.12	1.69	5.03	1.38	0.72	0.38	0.33	0.17	0.17		
22	0.08	0.16	0.45	1.24	1.50	4.19	1.38	0.72	0.36	0.30	0.17	0.17		
23	0.08	0.12	0.36	1.83	2.53	3.58	1.32	0.71	0.32	0.26	0.17	0.17		
24	0.08	0.60	1.02	1.30	2.04	3.10	1.56	0.74	0.29	0.23	0.17	0.17		
25	0.08	0.17	1.24	1.58	2.16	2.74	2.22	0.74	0.27	0.20	0.17	0.17		
26	0.08	0.14	0.68	1.08	2.66	3.43	1.69	0.84	0.26	0.18	0.17	0.17		
27	0.08	0.12	0.57	0.98	2.71	4.96	1.42	0.75	0.24	0.17	0.17	0.17		
28	0.08	0.10	0.78	0.94	2.06	3.19	1.32	0.66	0.23	0.17	0.17	0.17		
29	0.08	9.26	1.14	0.82	1.94	2.74	1.22	0.62	0.20	0.17		0.17		
30	0.08	9.55	23.27	0.96	4.50	2.40	1.12	0.59	0.21	0.17		0.17		
31		6.22		0.77	4.09		1.00		0.21	0.17		0.17		
Total	2.40	33.00	63.98	121.78	105.33	221.27	78.84	25.50	12.42	10.60	4.76	5.27	685.15	CMSDAY
Mean	0.08	1.06	2.13	3.93	3.40	7.38	2.54	0.85	0.40	0.34	0.17	0.17	1.88	CMS
Max	0.08	9.55	23.27	23.81	17.37	35.57	10.73	1.08	0.59	0.59	0.17	0.17	35.57	CMS
Min	0.08	0.08	0.18	0.77	1.48	1.62	1.00	0.59	0.20	0.17	0.17	0.17	0.08	CMS
Runoff	0.21	2.85	5.53	10.52	9.10	19.12	6.81	2.20	1.07	0.92	0.41	0.46	59.20	MCM

Momentary Peak 38.66 CMS. at 207.07 m. (MSL.) at 06.00 Hours , on Sep 14 , 2016

Runoff Yield 12.35 Liters/Second/Square KM. Momentary Peak Yield 254.340 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

Location : on right bank at the bridge near Wat Koei Chai Nua

Ban Koei Chai **Amphoe** Chum Saeng **Changwat** Nakhon Sawan

Drainge Area	57,384 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage observe's house **Elevation** +27.470 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Flot	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Mae Yom side flow. Stage-discharge relation defined by 54 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

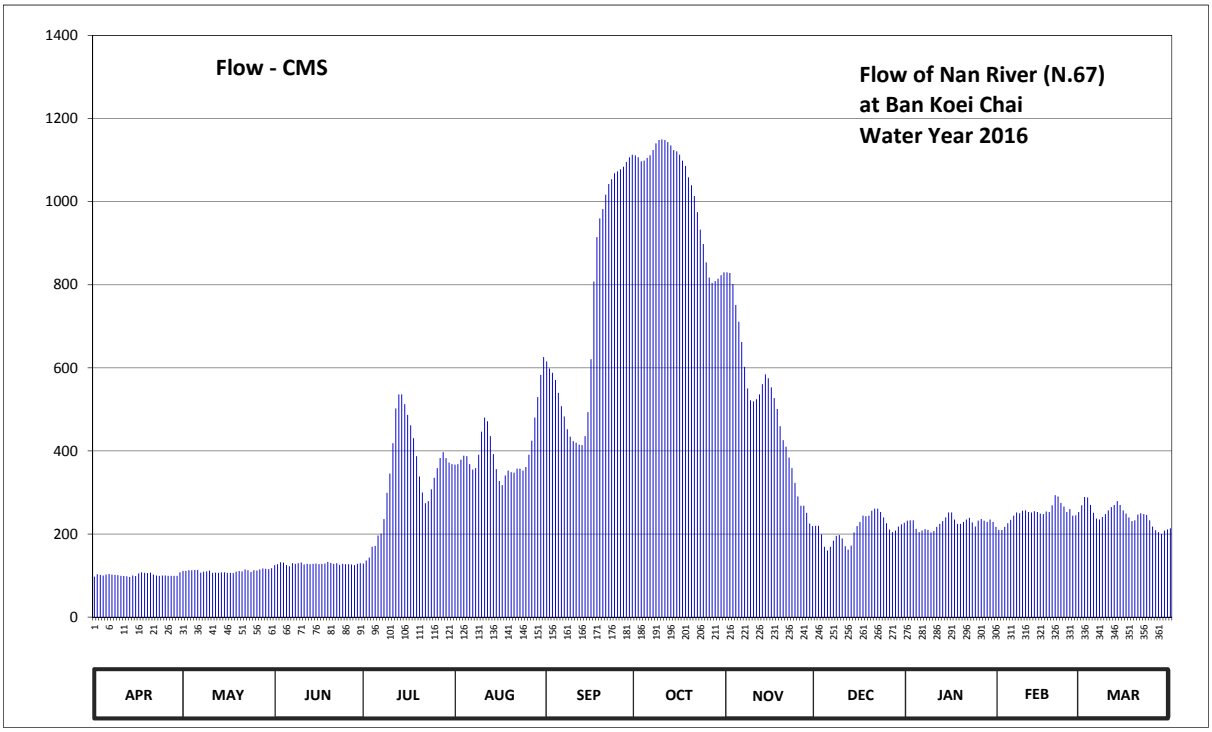
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.62	18.82	19.00	19.05	21.50	23.48	26.89	25.02	20.11	20.24	20.00	20.61	
2	18.70	18.82	19.03	19.14	21.51	23.35	26.86	25.01	20.11	20.25	20.00	20.81	
3	18.68	18.84	19.09	19.23	21.60	23.27	26.80	24.82	19.88	20.25	20.08	20.80	
4	18.66	18.84	19.08	19.55	21.68	23.14	26.81	24.46	19.55	20.03	20.18	20.62	
5	18.69	18.85	19.00	19.57	21.67	22.90	26.85	24.17	19.44	19.94	20.26	20.43	
6	18.71	18.85	18.97	19.85	21.51	22.65	26.89	23.82	19.55	19.98	20.36	20.29	
7	18.69	18.76	19.06	19.90	21.40	22.46	26.97	23.38	19.71	20.02	20.44	20.27	
8	18.68	18.79	19.04	20.28	21.43	22.21	27.07	22.98	19.84	20.00	20.42	20.33	
9	18.67	18.80	19.06	20.90	21.70	22.06	27.12	22.76	19.86	19.93	20.48	20.40	
10	18.65	18.83	19.08	21.32	22.16	21.97	27.13	22.74	19.77	19.97	20.49	20.49	
11	18.64	18.75	19.02	21.93	22.44	21.94	27.12	22.78	19.56	20.08	20.45	20.57	
12	18.63	18.76	19.04	22.61	22.37	21.90	27.09	22.87	19.47	20.16	20.44	20.62	
13	18.61	18.75	19.03	22.87	22.07	21.89	27.04	23.06	19.58	20.23	20.47	20.71	
14	18.66	18.77	19.04	22.87	21.71	22.07	26.97	23.24	19.93	20.32	20.45	20.62	
15	18.64	18.77	19.05	22.69	21.41	22.54	26.95	23.17	20.10	20.44	20.41	20.49	
16	18.73	18.75	19.03	22.49	21.16	23.52	26.90	23.00	20.21	20.44	20.40	20.41	
17	18.77	18.75	19.04	22.29	21.07	24.86	26.81	22.80	20.36	20.27	20.46	20.32	
18	18.75	18.74	19.05	22.03	21.28	25.61	26.73	22.60	20.35	20.16	20.45	20.23	
19	18.74	18.79	19.10	21.67	21.38	25.91	26.56	22.27	20.36	20.16	20.61	20.25	
20	18.76	18.81	19.07	21.26	21.35	26.06	26.44	21.99	20.48	20.21	20.85	20.39	
21	18.69	18.80	19.04	20.91	21.34	26.29	26.27	21.86	20.53	20.27	20.82	20.42	
22	18.66	18.87	19.06	20.66	21.42	26.46	26.01	21.64	20.53	20.31	20.67	20.40	
23	18.65	18.84	19.01	20.71	21.42	26.53	25.73	21.43	20.45	20.20	20.58	20.38	
24	18.66	18.78	19.04	20.98	21.38	26.62	25.50	21.12	20.32	20.09	20.45	20.25	
25	18.66	18.84	19.03	21.23	21.45	26.65	25.19	20.82	20.18	20.24	20.52	20.09	
26	18.65	18.83	19.03	21.43	21.70	26.68	24.93	20.60	20.01	20.28	20.36	19.99	
27	18.65	18.87	19.02	21.63	21.98	26.72	24.84	20.60	19.94	20.24	20.37	19.94	
28	18.65	18.90	19.00	21.75	22.44	26.79	24.87	20.43	19.98	20.21	20.45	19.89	
29	18.65	18.89	19.04	21.63	22.82	26.86	24.91	20.17	20.09	20.27		19.98	
30	18.77	18.88	19.06	21.54	23.23	26.90	24.97	20.10	20.15	20.21		20.01	
31		18.91		21.51	23.56		25.02		20.19	20.08		20.04	
Mean	18.68	18.81	19.04	21.14	21.78	24.34	26.33	22.52	20.02	20.18	20.43	20.36	
Max	18.77	18.91	19.10	22.87	23.56	26.90	27.13	25.02	20.53	20.44	20.85	20.81	27.13
Min	18.61	18.74	18.97	19.05	21.07	21.89	24.84	20.10	19.44	19.93	20.00	19.89	18.61

Annual Max Momentary Gage Height 27.14 m. (MSL.) , at 02.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 14.13 m. (MSL.)

Left Bank Elevation 28.92 m. (MSL.) ,

Right Bank Elevation 28.21 m. (MSL.) , Drainage Are 57,384 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.40	111.40	125.00	129.00	367.00	615.40	1111.40	829.80	219.90	232.00	210.00	269.00	
2	103.00	111.40	127.40	136.20	368.20	598.50	1106.60	828.40	219.90	233.00	210.00	289.10	
3	101.60	112.80	132.20	143.40	379.00	588.10	1097.00	801.80	199.20	233.00	217.20	288.00	
4	100.20	112.80	131.40	169.50	388.60	571.20	1098.60	751.40	169.50	212.70	226.20	270.00	
5	102.30	113.50	125.00	171.30	387.40	540.00	1105.00	710.80	160.20	204.60	234.00	251.00	
6	103.70	113.50	122.60	196.50	368.20	507.50	1111.40	661.80	169.50	208.20	244.00	237.00	
7	102.30	107.20	129.80	201.00	355.00	482.80	1124.20	602.40	183.90	211.80	252.00	235.00	
8	101.60	109.30	128.20	236.00	358.60	452.20	1140.20	550.40	195.60	210.00	250.00	241.00	
9	100.90	110.00	129.80	299.00	391.00	434.20	1148.20	521.80	197.40	203.70	256.00	248.00	
10	99.50	112.10	131.40	345.40	446.20	423.40	1149.80	519.20	189.30	207.30	257.00	257.00	
11	98.80	106.50	126.60	418.60	480.20	419.80	1148.20	524.40	170.40	217.20	253.00	265.00	
12	98.10	107.20	128.20	502.30	471.40	415.00	1143.40	536.10	162.60	224.40	252.00	270.00	
13	96.70	106.50	127.40	536.10	435.40	413.80	1135.40	560.80	172.20	231.00	255.00	279.00	
14	100.20	107.90	128.20	536.10	392.20	435.40	1124.20	584.20	203.70	240.00	253.00	270.00	
15	98.80	107.90	129.00	512.70	356.20	493.20	1121.00	575.10	219.00	252.00	249.00	257.00	
16	105.10	106.50	127.40	486.70	327.60	620.60	1113.00	553.00	229.00	252.00	248.00	249.00	
17	107.90	106.50	128.20	461.80	317.70	807.40	1098.60	527.00	244.00	235.00	254.00	240.00	
18	106.50	105.80	129.00	430.60	340.80	914.50	1085.80	501.00	243.00	224.40	253.00	231.00	
19	105.80	109.30	133.00	387.40	352.60	959.50	1058.60	459.40	244.00	224.40	269.00	233.00	
20	107.20	110.70	130.60	338.60	349.00	982.00	1039.40	425.80	256.00	229.00	293.50	247.00	
21	102.30	110.00	128.20	300.10	347.80	1016.50	1013.50	410.20	261.00	235.00	290.20	250.00	
22	100.20	114.90	129.80	274.00	357.40	1042.60	974.50	383.80	261.00	239.00	275.00	248.00	
23	99.50	112.80	125.80	279.00	357.40	1053.80	932.50	358.60	253.00	228.00	266.00	246.00	
24	100.20	108.60	128.20	307.80	352.60	1068.20	898.00	323.20	240.00	218.10	253.00	233.00	
25	100.20	112.80	127.40	335.30	361.00	1073.00	853.60	290.20	226.20	232.00	260.00	218.10	
26	99.50	112.10	127.40	358.60	391.00	1077.80	817.20	268.00	210.90	236.00	244.00	209.10	
27	99.50	114.90	126.60	382.60	424.60	1084.20	804.60	268.00	204.60	232.00	245.00	204.60	
28	99.50	117.00	125.00	397.00	480.20	1095.40	808.80	251.00	208.20	229.00	253.00	200.10	
29	99.50	116.30	128.20	382.60	529.60	1106.60	814.40	225.30	218.10	235.00		208.20	
30	107.90	115.60	129.80	371.80	582.90	1113.00	822.80	219.00	223.50	229.00		210.90	
31		117.80		368.20	625.80		829.80		227.10	217.20		213.60	
Total	3045.90	3441.60	3846.80	10395.20	12442.60	22405.60	31829.70	15021.90	6581.90	7016.00	7022.10	7567.70	130617.00	CMSDAY
Mean	101.53	111.02	128.23	335.33	401.37	746.85	1026.76	500.73	212.32	226.32	250.79	244.12	357.85	CMS
Max	107.90	117.80	133.00	536.10	625.80	1113.00	1149.80	829.80	261.00	252.00	293.50	289.10	1149.80	CMS
Min	96.70	105.80	122.60	129.00	317.70	413.80	804.60	219.00	160.20	203.70	210.00	200.10	96.70	CMS
Runoff	263.17	297.35	332.36	898.15	1075.04	1935.84	2750.09	1297.89	568.68	606.18	606.71	653.85	11285.31	MCM

Momentary Peak 1151.40 CMS. at 27.14 m. (MSL.) at 02.00 Hours , on Oct 10 , 2016

Runoff Yield 6.24 Liters/Second/Square KM. Momentary Peak Yield 20.060 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Tha Takhian , Phitsanulok (N.68)

Lat 16 - 52 - 15 N Long 100 - 14 - 36 E

Location : on right bank at Ban Tha Takhian.

Ban Tha Takhian **Amphoe** Mueang **Changwat** Phitsanulok

Drainge Area	25,018 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+35.000 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank near the gage site. **Elevation** +48.620 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	2004 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Mae Yom side flow.
	Stage-discharge relation defined by 38 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

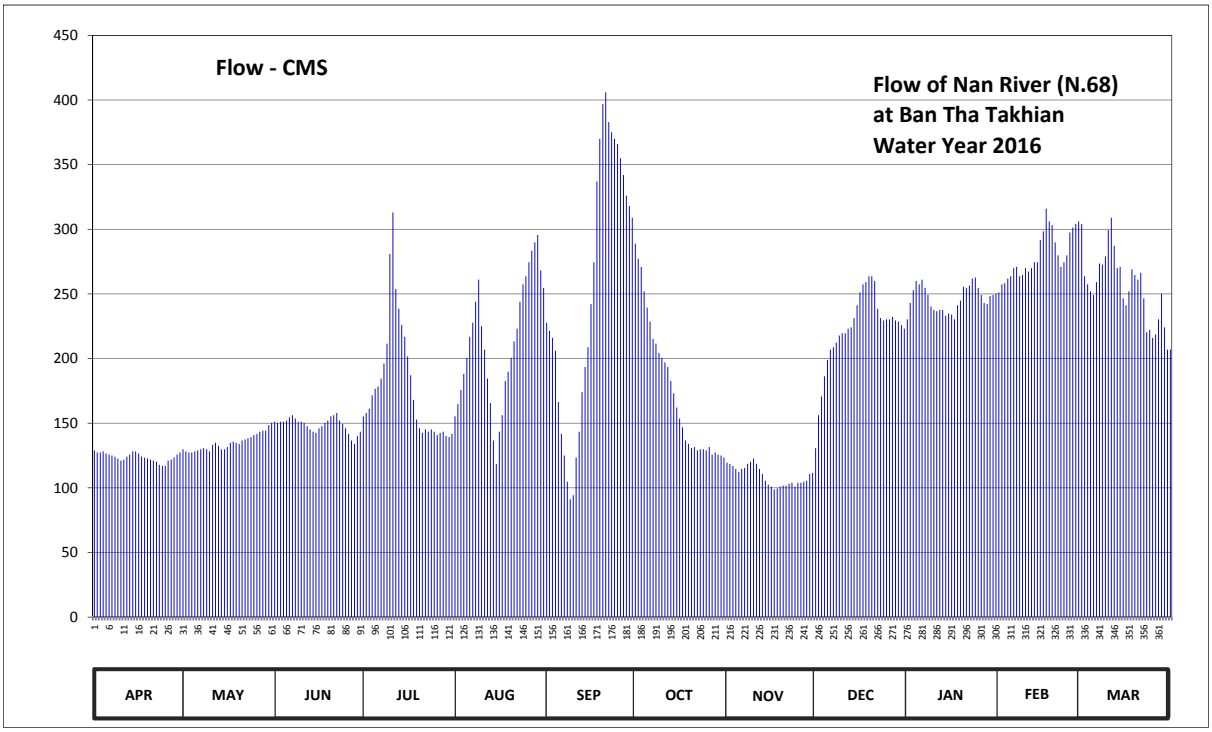
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.00	37.01	37.26	37.31	37.31	38.13	38.81	36.88	37.02	38.16	38.39	38.97	
2	36.98	36.99	37.25	37.34	37.42	38.06	38.68	36.87	37.32	38.30	38.46	38.53	
3	36.98	36.98	37.26	37.38	37.55	38.00	38.61	36.85	37.49	38.41	38.47	38.46	
4	36.99	36.98	37.26	37.50	37.69	37.89	38.40	36.82	37.67	38.49	38.51	38.40	
5	36.97	36.99	37.27	37.56	37.83	37.44	38.26	36.79	37.81	38.46	38.53	38.37	
6	36.96	37.00	37.30	37.58	38.01	37.15	38.14	36.82	37.90	38.50	38.60	38.48	
7	36.95	37.01	37.32	37.65	38.13	36.95	37.99	36.83	37.92	38.43	38.61	38.64	
8	36.94	37.02	37.29	37.78	38.31	36.69	37.95	36.87	37.96	38.37	38.53	38.63	
9	36.92	37.01	37.26	37.95	38.50	36.51	37.87	36.89	38.02	38.27	38.54	38.70	
10	36.90	36.99	37.26	38.72	38.10	36.55	37.83	36.92	38.04	38.24	38.60	38.92	
11	36.91	37.05	37.25	39.06	37.90	36.93	37.79	36.87	38.04	38.23	38.57	39.02	
12	36.94	37.07	37.22	38.42	37.65	37.17	37.75	36.82	38.08	38.24	38.60	38.79	
13	36.96	37.04	37.19	38.25	37.43	37.53	37.63	36.77	38.09	38.24	38.65	38.60	
14	36.99	37.01	37.17	38.11	37.09	37.75	37.52	36.70	38.17	38.19	38.65	38.61	
15	36.99	37.01	37.16	38.01	36.87	37.92	37.39	36.66	38.28	38.21	38.84	38.34	
16	36.97	37.03	37.20	37.84	37.17	38.29	37.29	36.64	38.39	38.20	38.91	38.28	
17	36.94	37.07	37.22	37.68	37.32	38.65	37.21	36.61	38.46	38.16	39.09	38.40	
18	36.93	37.08	37.25	37.46	37.63	39.30	37.09	36.62	38.48	38.28	38.99	38.59	
19	36.92	37.07	37.27	37.28	37.71	39.63	37.06	36.64	38.53	38.32	38.96	38.54	
20	36.91	37.06	37.31	37.20	37.83	39.90	37.02	36.65	38.53	38.44	38.82	38.50	
21	36.90	37.09	37.32	37.16	37.97	39.99	37.03	36.65	38.49	38.43	38.71	38.56	
22	36.89	37.10	37.34	37.19	38.08	39.76	37.00	36.67	38.25	38.45	38.61	38.34	
23	36.86	37.11	37.27	37.17	38.31	39.68	37.01	36.68	38.17	38.51	38.65	38.05	
24	36.85	37.12	37.24	37.19	38.46	39.63	37.01	36.64	38.15	38.52	38.71	38.07	
25	36.85	37.14	37.20	37.17	38.53	39.59	37.00	36.68	38.16	38.43	38.90	38.00	
26	36.90	37.15	37.15	37.14	38.65	39.48	37.03	36.68	38.16	38.37	38.94	38.03	
27	36.91	37.17	37.09	37.16	38.75	39.35	36.96	36.69	38.18	38.30	38.97	38.16	
28	36.93	37.18	37.06	37.17	38.82	39.19	36.98	36.70	38.15	38.29	38.99	38.38	
29	36.96	37.18	37.13	37.13	38.88	39.11	36.96	36.77	38.14	38.36		38.09	
30	36.98	37.23	37.17	37.12	38.58	39.02	36.95	36.78	38.11	38.37		37.90	
31		37.25		37.15	38.43		36.93		38.08	38.38		37.90	
Mean	36.94	37.07	37.23	37.58	37.96	38.37	37.52	36.75	38.07	38.34	38.71	38.43	
Max	37.00	37.25	37.34	39.06	38.88	39.99	38.81	36.92	38.53	38.52	39.09	39.02	39.99
Min	36.85	36.98	37.06	37.12	36.87	36.51	36.93	36.61	37.02	38.16	38.39	37.90	36.51

Annual Max Momentary Gage Height 40.12 m. (MSL.) , at 18.00 Hours , on Sep 20 , 2016

Zero Gage at Bottom Elevation 35.00 m. (MSL.) , River Bed 32.91 m. (MSL.)

Left Bank Elevation 48.32 m. (MSL.) ,

Right Bank Elevation 48.33 m. (MSL.) , Drainage Are 25,018 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.00	129.85	151.10	155.35	155.35	227.70	288.95	119.40	130.70	230.40	251.10	304.15	
2	127.40	128.20	150.25	157.90	164.70	221.40	277.20	118.60	156.20	243.00	257.40	263.70	
3	127.40	127.40	151.10	161.30	175.75	216.00	270.90	117.00	170.65	252.90	258.30	257.40	
4	128.20	127.40	151.10	171.50	188.10	206.10	252.00	114.60	186.30	260.10	261.90	252.00	
5	126.60	128.20	151.95	176.60	200.70	166.40	239.40	112.25	198.90	257.40	263.70	249.30	
6	125.80	129.00	154.50	178.30	216.90	141.75	228.60	114.60	207.00	261.00	270.00	259.20	
7	125.00	129.85	156.20	184.50	227.70	125.00	215.10	115.40	208.80	254.70	270.90	273.60	
8	124.20	130.70	153.65	196.20	243.90	104.75	211.50	118.60	212.40	249.30	263.70	272.70	
9	122.60	129.85	151.10	211.50	261.00	91.25	204.30	120.20	217.80	240.30	264.60	279.00	
10	121.00	128.20	151.10	280.80	225.00	94.25	200.70	122.60	219.60	237.60	270.00	299.40	
11	121.80	133.25	150.25	313.00	207.00	123.40	197.10	118.60	219.60	236.70	267.30	309.00	
12	124.20	134.95	147.70	253.80	184.50	143.45	193.50	114.60	223.20	237.60	270.00	287.10	
13	125.80	132.40	145.15	238.50	165.55	174.05	182.70	110.75	224.10	237.60	274.50	270.00	
14	128.20	129.85	143.45	225.90	136.65	193.50	173.20	105.50	231.30	233.10	274.50	270.90	
15	128.20	129.85	142.60	216.90	118.60	208.80	162.15	102.50	241.20	234.90	291.80	246.60	
16	126.60	131.55	146.00	201.60	143.45	242.10	153.65	101.00	251.10	234.00	298.45	241.20	
17	124.20	134.95	147.70	187.20	156.20	274.50	146.85	98.75	257.40	230.40	316.00	252.00	
18	123.40	135.80	150.25	168.10	182.70	337.00	136.65	99.50	259.20	241.20	306.05	269.10	
19	122.60	134.95	151.95	152.80	189.90	370.00	134.10	101.00	263.70	244.80	303.20	264.60	
20	121.80	134.10	155.35	146.00	200.70	397.00	130.70	101.75	263.70	255.60	289.90	261.00	
21	121.00	136.65	156.20	142.60	213.30	406.00	131.55	101.75	260.10	254.70	279.90	266.40	
22	120.20	137.50	157.90	145.15	223.20	383.00	129.00	103.25	238.50	256.50	270.90	246.60	
23	117.80	138.35	151.95	143.45	243.90	375.00	129.85	104.00	231.30	261.90	274.50	220.50	
24	117.00	139.20	149.40	145.15	257.40	370.00	129.85	101.00	229.50	262.80	279.90	222.30	
25	117.00	140.90	146.00	143.45	263.70	366.00	129.00	104.00	230.40	254.70	297.50	216.00	
26	121.00	141.75	141.75	140.90	274.50	355.00	131.55	104.00	230.40	249.30	301.30	218.70	
27	121.80	143.45	136.65	142.60	283.50	342.00	125.80	104.75	232.20	243.00	304.15	230.40	
28	123.40	144.30	134.10	143.45	289.90	326.00	127.40	105.50	229.50	242.10	306.05	250.20	
29	125.80	144.30	140.05	140.05	295.60	318.00	125.80	110.75	228.60	248.40		224.10	
30	127.40	148.55	143.45	139.20	268.20	309.00	125.00	111.50	225.90	249.30		207.00	
31		150.25		141.75	254.70		123.40		223.20	250.20		207.00	
Total	3716.40	4185.50	4459.90	5545.50	6612.25	7608.40	5407.45	3277.70	6902.45	7645.50	7837.50	7891.15	71089.70	CMSDAY
Mean	123.88	135.02	148.66	178.89	213.30	253.61	174.43	109.26	222.66	246.63	279.91	254.55	194.77	CMS
Max	129.00	150.25	157.90	313.00	295.60	406.00	288.95	122.60	263.70	262.80	316.00	309.00	406.00	CMS
Min	117.00	127.40	134.10	139.20	118.60	91.25	123.40	98.75	130.70	230.40	251.10	207.00	91.25	CMS
Runoff	321.10	361.63	385.34	479.13	571.30	657.37	467.20	283.19	596.37	660.57	677.16	681.80	6142.15	MCM

Momentary Peak 419.00 CMS. at 40.12 m. (MSL.) at 18.00 Hours , on Sep 20 , 2016

Runoff Yield 7.79 Liters/Second/Square KM. Momentary Peak Yield 16.750 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)

Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

Location : on right bank at Ban Wang Pla Kod.

Ban Wang Pla Kod **Amphoe** Thong Saen Khan **Changwat** Uttaradit

Drainge Area	225 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+60.891 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank near the gage site. **Elevation** +69.454 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

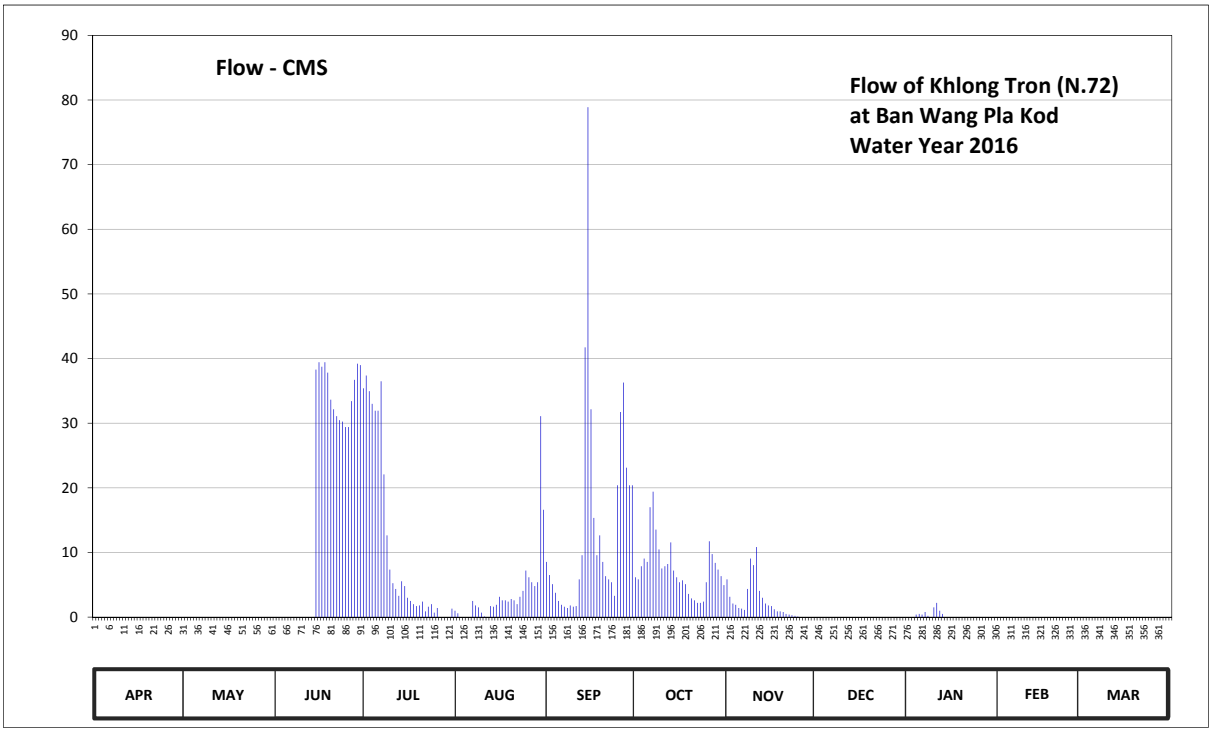
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.88	60.89	63.75	63.90	62.00	62.55	62.41	62.39	61.87	61.89	61.42	62.49	
2	61.86	60.89	63.86	63.99	61.96	62.43	62.39	62.21	61.87	61.89	61.44	62.38	
3	61.84	60.89	63.79	63.88	61.88	62.34	62.51	62.11	61.86	61.89	61.44	62.33	
4	61.81	60.89	63.72	63.79	61.90	62.25	62.58	62.09	61.84	61.94	61.42	62.67	
5	61.79	60.89	63.72	63.74	61.79	62.15	62.55	62.04	61.84	61.95	61.39	62.38	
6	61.71	60.89	63.81	63.74	61.70	62.09	63.02	62.03	61.82	61.94	61.39	63.40	
7	61.64	60.89	63.96	63.95	62.15	62.06	63.14	62.01	61.79	61.98	61.38	63.42	
8	61.57	61.77	63.89	63.27	62.08	62.04	62.83	62.29	61.77	61.92	61.36	63.34	
9	61.52	62.23	63.85	62.78	62.05	62.08	62.66	62.58	61.74	61.86	61.38	63.34	
10	61.49	62.74	63.81	62.48	61.97	62.06	62.49	62.52	61.76	62.05	61.38	63.34	
11	61.49	63.28	63.78	62.35	61.91	62.07	62.51	62.68	61.76	62.12	61.34	63.37	
12	61.42	63.14	63.78	62.29	61.82	62.39	62.53	62.27	61.76	62.00	61.32	63.23	
13	61.42	63.06	63.78	62.22	62.07	62.61	62.72	62.20	61.74	61.95	61.31	63.12	
14	61.41	63.10	63.78	62.37	62.06	64.18	62.47	62.11	61.74	61.72	61.30	62.97	
15	61.41	63.13	64.03	62.32	62.09	65.74	62.41	62.08	61.74	61.72	61.29	62.92	
16	61.41	63.16	64.08	62.20	62.21	63.75	62.36	62.07	61.72	61.72	61.28	62.86	
17	61.41	63.16	64.05	62.15	62.16	62.93	62.38	62.02	61.63	61.76	61.28	63.60	
18	61.34	63.19	64.08	62.10	62.16	62.61	62.34	61.99	61.60	61.89	61.27	63.40	
19	61.27	63.26	64.01	62.07	62.14	62.78	62.24	61.99	61.67	61.89	61.26	63.36	
20	61.24	63.29	63.82	62.08	62.18	62.55	62.19	61.98	61.56	61.73	61.26	63.34	
21	61.19	63.32	63.75	62.14	62.16	62.42	62.16	61.95	61.54	61.88	61.24	63.33	
22	61.16	63.34	63.70	61.99	62.10	62.39	62.12	61.94	61.59	61.81	61.24	63.32	
23	61.16	63.42	63.67	62.06	62.21	62.36	62.12	61.93	61.58	61.73	61.24	63.31	
24	61.14	63.52	63.66	62.10	62.27	62.22	62.14	61.92	61.57	61.69	61.23	63.30	
25	61.14	63.63	63.62	61.97	62.47	63.19	62.36	61.91	61.56	61.69	61.23	63.29	
26	61.14	63.98	63.62	62.04	62.41	63.73	62.73	61.90	61.55	61.69	61.23	63.29	
27	61.13	64.03	63.81	61.89	62.36	63.94	62.62	61.89	61.54	61.68	61.22	63.30	
28	61.12	63.85	63.96	61.77	62.32	63.32	62.54	61.89	61.53	61.68	61.22	63.33	
29	61.11	63.84	64.07	61.71	62.36	63.19	62.48	61.89	61.52	61.68		63.36	
30	61.11	63.84	64.06	61.69	63.70	63.19	62.42	61.89	61.51	61.67		63.34	
31		63.82		62.03	63.00		62.33		61.50	61.67		63.32	
Mean	61.41	62.75	63.84	62.55	62.18	62.79	62.48	62.09	61.68	61.83	61.31	63.15	
Max	61.88	64.03	64.08	63.99	63.70	65.74	63.14	62.68	61.87	62.12	61.44	63.60	65.74
Min	61.11	60.89	63.62	61.69	61.70	62.04	62.12	61.89	61.50	61.67	61.22	62.33	60.89

Annual Max Momentary Gage Height 65.98 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 60.89 m. (MSL.) , River Bed 60.35 m. (MSL.)

Left Bank Elevation 69.23 m. (MSL.) ,

Right Bank Elevation 69.24 m. (MSL.) , Drainage Are 225 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	35.40	1.00	8.55	6.17	5.85	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	37.38	0.60	6.51	5.85	3.15	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	34.96	0.00	5.10	7.87	2.10	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	32.99	0.00	3.75	9.06	1.90	0.00	0.40	0.00	0.00		
5	0.00	0.00	0.00	31.94	0.00	2.50	8.55	1.40	0.00	0.50	0.00	0.00		
6	0.00	0.00	0.00	31.94	0.00	1.90	17.00	1.30	0.00	0.40	0.00	0.00		
7	0.00	0.00	0.00	36.50	2.50	1.60	19.40	1.10	0.00	0.80	0.00	0.00		
8	0.00	0.00	0.00	22.07	1.80	1.40	13.54	4.35	0.00	0.20	0.00	0.00		
9	0.00	0.00	0.00	12.64	1.50	1.80	10.48	9.06	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	7.36	0.70	1.60	7.53	8.04	0.00	1.50	0.00	0.00		
11	0.00	0.00	0.00	5.25	0.10	1.70	7.87	10.84	0.00	2.20	0.00	0.00		
12	0.00	0.00	0.00	4.35	0.00	5.85	8.21	4.05	0.00	1.00	0.00	0.00		
13	0.00	0.00	0.00	3.30	1.70	9.58	11.56	3.00	0.00	0.50	0.00	0.00		
14	0.00	0.00	0.00	5.55	1.60	41.74	7.19	2.10	0.00	0.00	0.00	0.00		
15	0.00	0.00	38.29	4.80	1.90	78.90	6.17	1.80	0.00	0.00	0.00	0.00		
16	0.00	0.00	39.44	3.00	3.15	32.15	5.40	1.70	0.00	0.00	0.00	0.00		
17	0.00	0.00	38.75	2.50	2.60	15.34	5.70	1.20	0.00	0.00	0.00	0.00		
18	0.00	0.00	39.44	2.00	2.60	9.58	5.10	0.90	0.00	0.00	0.00	0.00		
19	0.00	0.00	37.83	1.70	2.40	12.64	3.60	0.90	0.00	0.00	0.00	0.00		
20	0.00	0.00	33.64	1.80	2.80	8.55	2.90	0.80	0.00	0.00	0.00	0.00		
21	0.00	0.00	32.15	2.40	2.60	6.34	2.60	0.50	0.00	0.00	0.00	0.00		
22	0.00	0.00	31.10	0.90	2.00	5.85	2.20	0.40	0.00	0.00	0.00	0.00		
23	0.00	0.00	30.47	1.60	3.15	5.40	2.20	0.30	0.00	0.00	0.00	0.00		
24	0.00	0.00	30.26	2.00	4.05	3.30	2.40	0.20	0.00	0.00	0.00	0.00		
25	0.00	0.00	29.42	0.70	7.19	20.40	5.40	0.10	0.00	0.00	0.00	0.00		
26	0.00	0.00	29.42	1.40	6.17	31.73	11.74	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	33.42	0.00	5.40	36.28	9.76	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	36.72	0.00	4.80	23.12	8.38	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	39.21	0.00	5.40	20.40	7.36	0.00	0.00	0.00		0.00		
30	0.00	0.00	38.98	0.00	31.10	20.40	6.34	0.00	0.00	0.00		0.00		
31		0.00		1.30	16.60		4.95		0.00	0.00		0.00		
Total	0.00	0.00	558.54	327.73	115.41	423.96	232.48	67.04	0.00	7.50	0.00	0.00	1732.66	CMSDAY
Mean	0.00	0.00	18.62	10.57	3.72	14.13	7.50	2.23	0.00	0.24	0.00	0.00	4.75	CMS
Max	0.00	0.00	39.44	37.38	31.10	78.90	19.40	10.84	0.00	2.20	0.00	0.00	78.90	CMS
Min	0.00	0.00	0.00	0.00	0.00	1.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	48.26	28.32	9.97	36.63	20.09	5.79	0.00	0.65	0.00	0.00	149.70	MCM

Momentary Peak 84.90 CMS. at 65.98 m. (MSL.) at 06.00 Hours , on Sep 15 , 2016

Runoff Yield 21.10 Liters/Second/Square KM. Momentary Peak Yield 377.330 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Khek River at Ban Tan Tawan , Phetchabun (N.73)

Lat 16 - 33 - 24 N Long 100 - 53 - 44 E

Location : on right bank at Ban Tan Tawan.

Ban Tan Tawan **Amphoe** Khao Kho **Changwat** Phetchabun

Drainge Area	213 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+684.529 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank near the gage site. **Elevation** +694.038 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2002 to date
Rating Operation	
Period of Rating	2002 to date
Rated by Flot	-
Rated by Current Meter	2002 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

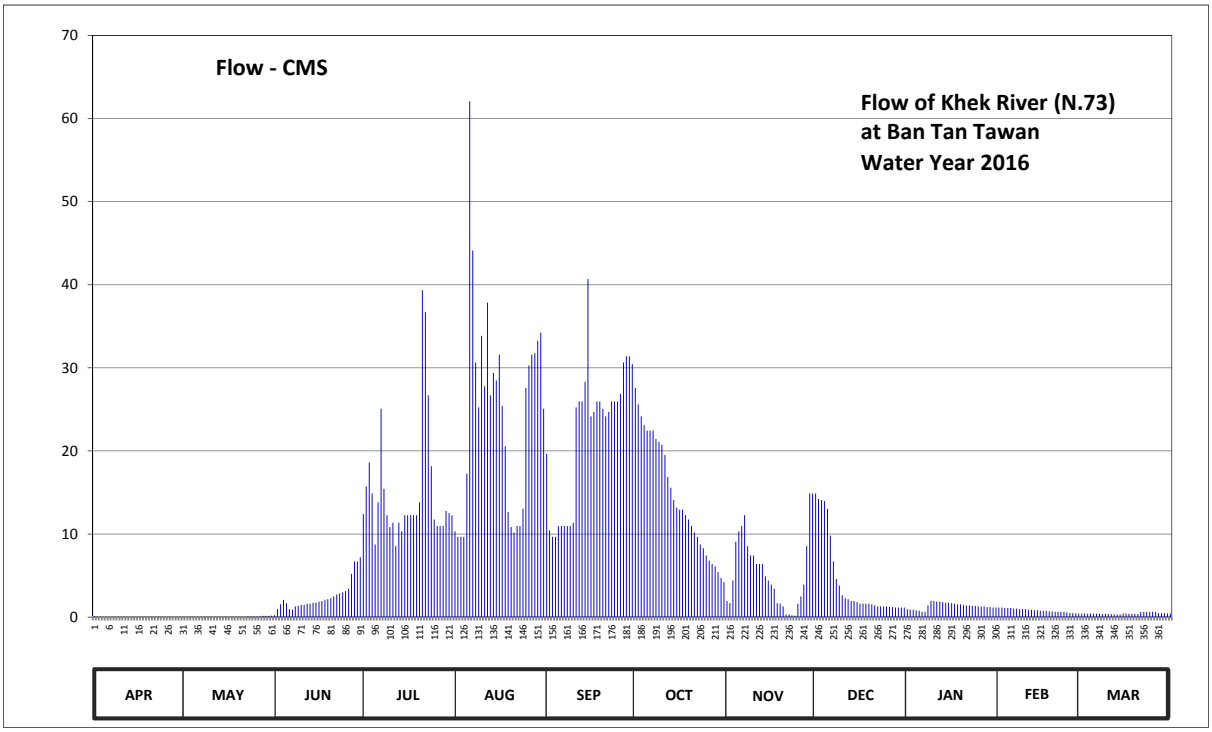
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.44	685.02	685.49	686.83	686.67	687.35	687.81	685.82	687.02	685.67	685.70	685.57	
2	685.42	685.02	685.67	687.08	686.62	686.68	687.70	685.78	686.97	685.66	685.70	685.57	
3	685.40	685.02	685.76	687.28	686.62	686.62	687.62	686.12	686.96	685.66	685.69	685.57	
4	685.36	685.02	685.84	687.02	686.62	686.62	687.56	686.57	686.95	685.65	685.69	685.57	
5	685.32	685.02	685.78	686.54	687.19	686.72	687.52	686.67	686.88	685.64	685.69	685.57	
6	685.30	685.02	685.67	686.94	689.52	686.72	687.52	686.72	686.63	685.62	685.68	685.57	
7	685.32	685.02	685.66	687.67	688.69	686.72	687.52	686.82	686.35	685.62	685.68	685.56	
8	685.27	685.02	685.72	687.06	687.98	686.72	687.46	686.52	686.14	685.74	685.67	685.55	
9	685.22	685.02	685.73	686.82	687.68	686.72	687.44	686.42	686.06	685.82	685.67	685.55	
10	685.20	685.02	685.75	686.71	688.15	686.75	687.42	686.42	685.92	685.82	685.67	685.55	
11	685.12	685.02	685.75	686.75	687.82	687.68	687.34	686.32	685.87	685.81	685.66	685.54	
12	685.12	685.02	685.77	686.52	688.36	687.72	687.16	686.32	685.85	685.81	685.66	685.54	
13	685.12	685.02	685.77	686.75	687.76	687.72	687.07	686.32	685.82	685.80	685.65	685.53	
14	685.12	685.17	685.79	686.67	687.91	687.85	686.96	686.17	685.82	685.79	685.65	685.53	
15	685.10	685.22	685.79	686.82	687.86	688.51	686.89	686.12	685.80	685.79	685.64	685.57	
16	685.10	685.28	685.81	686.82	688.03	687.62	686.87	686.07	685.77	685.78	685.64	685.58	
17	685.10	685.32	685.82	686.82	687.69	687.65	686.87	686.02	685.77	685.77	685.64	685.56	
18	685.10	685.32	685.84	686.82	687.41	687.72	686.82	685.78	685.77	685.76	685.63	685.55	
19	685.10	685.36	685.85	686.82	686.85	687.72	686.78	685.77	685.77	685.76	685.63	685.55	
20	685.10	685.37	685.87	686.94	686.71	687.67	686.72	685.72	685.76	685.75	685.62	685.55	
21	685.07	685.39	685.90	688.44	686.66	687.62	686.66	685.52	685.74	685.74	685.62	685.62	
22	685.07	685.40	685.93	688.30	686.72	687.65	686.62	685.52	685.72	685.74	685.62	685.62	
23	685.05	685.42	685.95	687.76	686.72	687.72	686.54	685.49	685.72	685.73	685.62	685.62	
24	685.05	685.42	685.97	687.25	686.88	687.72	686.50	685.47	685.72	685.73	685.61	685.62	
25	685.05	685.42	685.99	686.78	687.81	687.72	686.42	685.77	685.72	685.72	685.60	685.62	
26	685.02	685.42	686.02	686.72	687.96	687.77	686.36	685.90	685.71	685.72	685.59	685.62	
27	685.02	685.42	686.20	686.72	688.03	687.98	686.32	686.07	685.71	685.72	685.58	685.60	
28	685.02	685.46	686.35	686.72	688.04	688.02	686.29	686.52	685.70	685.71	685.57	685.59	
29	685.02	685.46	686.35	686.86	688.12	688.02	686.22	687.02	685.70	685.71		685.59	
30	685.02	685.46	686.40	686.84	688.17	687.97	686.15	687.02	685.70	685.70		685.58	
31		685.47		686.82	687.67		686.10		685.70	685.70		685.57	
Mean	685.16	685.23	685.87	687.00	687.58	687.46	686.94	686.16	686.02	685.73	685.65	685.57	
Max	685.44	685.47	686.40	688.44	689.52	688.51	687.81	687.02	687.02	685.82	685.70	685.62	689.52
Min	685.02	685.02	685.49	686.52	686.62	686.62	686.10	685.47	685.70	685.62	685.57	685.53	685.02

Annual Max Momentary Gage Height 689.62 m. (MSL.) , at 09.00 Hours , on Aug 6 , 2016

Zero Gage at Bottom Elevation 684.53 m. (MSL.) , River Bed 685.75 m. (MSL.)

Left Bank Elevation 694.02 m. (MSL.) ,

Right Bank Elevation 694.00 m. (MSL.) , Drainage Are 213 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.00	0.22	12.39	10.31	19.65	27.58	1.94	14.88	0.96	1.15	0.43	
2	0.05	0.00	0.96	15.72	9.66	10.44	25.60	1.67	14.21	0.89	1.15	0.43	
3	0.00	0.00	1.54	18.60	9.66	9.66	24.16	4.40	14.08	0.89	1.09	0.43	
4	0.00	0.00	2.08	14.88	9.66	9.66	23.12	9.07	13.95	0.83	1.09	0.43	
5	0.00	0.00	1.67	8.74	17.26	10.96	22.44	10.31	13.04	0.76	1.09	0.43	
6	0.00	0.00	0.96	13.82	62.08	10.96	22.44	10.96	9.79	0.63	1.02	0.43	
7	0.00	0.00	0.89	25.06	44.11	10.96	22.44	12.26	6.70	0.63	1.02	0.40	
8	0.00	0.00	1.28	15.44	30.64	10.96	21.42	8.52	4.60	1.41	0.96	0.38	
9	0.00	0.00	1.35	12.26	25.24	10.96	21.08	7.42	3.80	1.94	0.96	0.38	
10	0.00	0.00	1.48	10.83	33.85	11.35	20.74	7.42	2.64	1.94	0.96	0.38	
11	0.00	0.00	1.48	11.35	27.76	25.24	19.50	6.40	2.29	1.87	0.89	0.35	
12	0.00	0.00	1.61	8.52	37.84	25.96	16.84	6.40	2.15	1.87	0.89	0.35	
13	0.00	0.00	1.61	11.35	26.68	25.96	15.58	6.40	1.94	1.80	0.83	0.33	
14	0.00	0.00	1.74	10.31	29.38	28.30	14.08	4.90	1.94	1.74	0.83	0.33	
15	0.00	0.00	1.74	12.26	28.48	40.69	13.17	4.40	1.80	1.74	0.76	0.43	
16	0.00	0.00	1.87	12.26	31.57	24.16	12.91	3.90	1.61	1.67	0.76	0.45	
17	0.00	0.00	1.94	12.26	25.42	24.70	12.91	3.40	1.61	1.61	0.76	0.40	
18	0.00	0.00	2.08	12.26	20.57	25.96	12.26	1.67	1.61	1.54	0.70	0.38	
19	0.00	0.00	2.15	12.26	12.65	25.96	11.74	1.61	1.61	1.54	0.70	0.38	
20	0.00	0.00	2.29	13.82	10.83	25.06	10.96	1.28	1.54	1.48	0.63	0.38	
21	0.00	0.00	2.50	39.36	10.18	24.16	10.18	0.30	1.41	1.41	0.63	0.63	
22	0.00	0.00	2.71	36.70	10.96	24.70	9.66	0.30	1.28	1.41	0.63	0.63	
23	0.00	0.05	2.85	26.68	10.96	25.96	8.74	0.22	1.28	1.35	0.63	0.63	
24	0.00	0.05	2.99	18.15	13.04	25.96	8.30	0.17	1.28	1.35	0.57	0.63	
25	0.00	0.05	3.13	11.74	27.58	25.96	7.42	1.61	1.28	1.28	0.50	0.63	
26	0.00	0.05	3.40	10.96	30.28	26.86	6.80	2.50	1.22	1.28	0.48	0.63	
27	0.00	0.05	5.20	10.96	31.57	30.64	6.40	3.90	1.22	1.28	0.45	0.50	
28	0.00	0.15	6.70	10.96	31.76	31.38	6.10	8.52	1.15	1.22	0.43	0.48	
29	0.00	0.15	6.70	12.78	33.28	31.38	5.40	14.88	1.15	1.22		0.48	
30	0.00	0.15	7.20	12.52	34.23	30.46	4.70	14.88	1.15	1.15		0.45	
31		0.17		12.26	25.06		4.20		1.15	1.15		0.43	
Total	0.15	0.87	74.32	467.46	762.55	665.01	448.87	161.61	129.36	41.84	22.56	14.02	2788.62 CMSDAY
Mean	0.01	0.03	2.48	15.08	24.60	22.17	14.48	5.39	4.17	1.35	0.81	0.45	7.64 CMS
Max	0.10	0.17	7.20	39.36	62.08	40.69	27.58	14.88	14.88	1.94	1.15	0.63	62.08 CMS
Min	0.00	0.00	0.22	8.52	9.66	9.66	4.20	0.17	1.15	0.63	0.43	0.33	0.00 CMS
Runoff	0.01	0.08	6.42	40.39	65.88	57.46	38.78	13.96	11.18	3.61	1.95	1.21	240.94 MCM

Momentary Peak 64.48 CMS. at 689.62 m. (MSL.) at 09.00 Hours , on Aug 6 , 2016

Runoff Yield 35.87 Liters/Second/Square KM. Momentary Peak Yield 302.720 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Bang Krathum , Phitsanulok (N.74)

Lat 16 - 34 - 38 N Long 100 - 14 - 33 E

Location : on left bank at Bang Krathum.

Ban - **Amphoe** Bang Krathum **Changwat** Phitsanulok

Drainge Area	25,489 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+29.360 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank near the gage site. **Elevation** +44.315 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

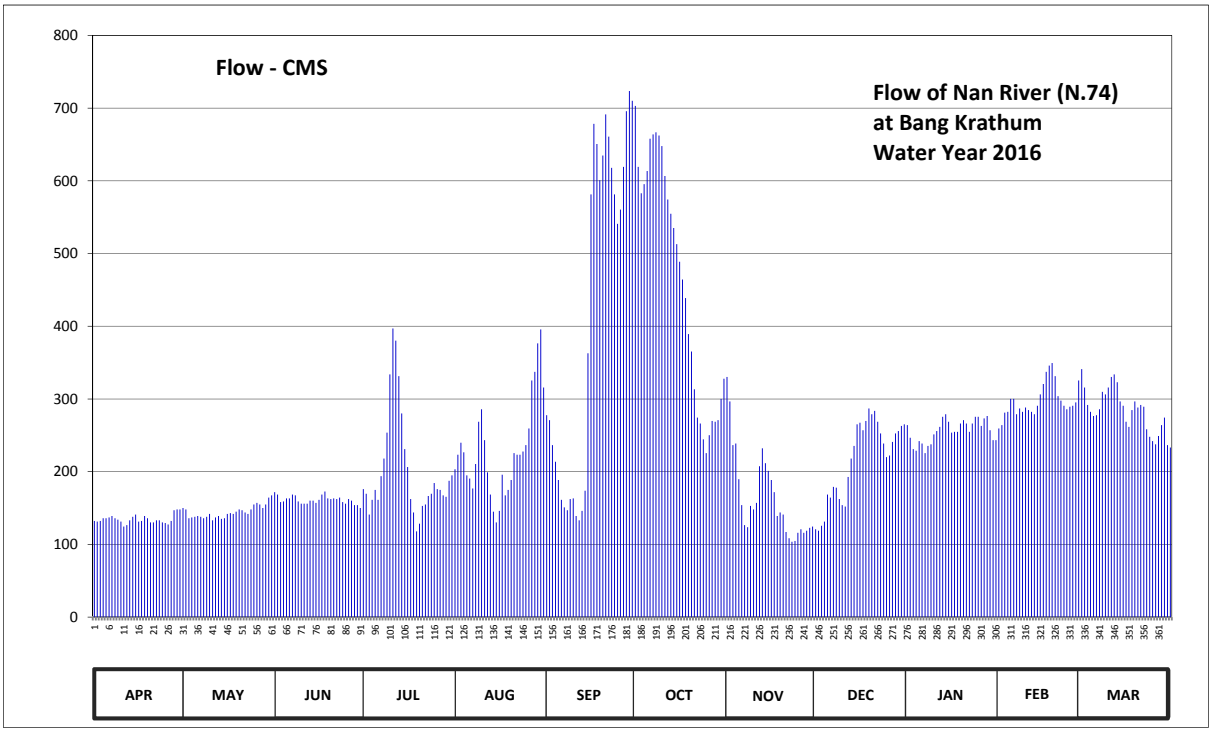
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.16	31.34	31.55	31.59	31.85	32.52	35.71	32.96	31.04	32.40	32.36	33.05	
2	31.15	31.32	31.52	31.53	32.04	32.46	35.13	32.68	31.02	32.25	32.40	32.84	
3	31.16	31.20	31.42	31.25	32.19	32.16	34.87	32.16	31.09	32.11	32.55	32.64	
4	31.20	31.21	31.43	31.45	32.07	31.95	34.96	32.18	31.15	32.09	32.56	32.56	
5	31.20	31.22	31.47	31.58	31.77	31.71	35.09	31.72	31.52	32.21	32.71	32.51	
6	31.21	31.23	31.47	31.45	31.73	31.45	35.40	31.38	31.48	32.18	32.71	32.52	
7	31.23	31.22	31.52	31.76	31.60	31.35	35.44	31.10	31.62	32.06	32.53	32.59	
8	31.20	31.20	31.51	31.99	31.92	31.31	35.46	31.07	31.61	32.15	32.60	32.79	
9	31.18	31.22	31.43	32.31	32.44	31.46	35.43	31.37	31.46	32.17	32.56	32.76	
10	31.15	31.26	31.40	32.99	32.59	31.47	35.33	31.32	31.38	32.29	32.61	32.84	
11	31.08	31.17	31.40	33.50	32.22	31.23	35.04	31.41	31.36	32.33	32.58	32.96	
12	31.10	31.21	31.40	33.37	31.81	31.17	34.81	31.89	31.75	32.38	32.56	32.99	
13	31.17	31.23	31.44	32.97	31.52	31.30	34.67	32.12	31.99	32.50	32.53	32.90	
14	31.22	31.19	31.44	32.54	31.29	31.57	34.53	31.93	32.15	32.53	32.63	32.68	
15	31.25	31.20	31.41	32.11	31.14	33.23	34.37	31.83	32.41	32.44	32.76	32.63	
16	31.15	31.26	31.45	31.88	31.30	34.86	34.19	31.71	32.43	32.31	32.88	32.44	
17	31.16	31.27	31.52	31.46	31.78	35.54	34.01	31.55	32.34	32.32	33.02	32.38	
18	31.23	31.26	31.56	31.28	31.51	35.35	33.82	31.23	32.45	32.32	33.09	32.58	
19	31.20	31.29	31.47	31.01	31.58	35.00	33.44	31.28	32.60	32.42	33.12	32.68	
20	31.14	31.32	31.46	31.12	31.71	35.24	33.25	31.25	32.53	32.46	32.97	32.61	
21	31.14	31.31	31.47	31.37	32.06	35.63	32.82	31.00	32.57	32.42	32.74	32.64	
22	31.17	31.28	31.46	31.39	32.04	35.42	32.49	30.91	32.44	32.32	32.69	32.62	
23	31.17	31.26	31.48	31.50	32.04	35.12	32.42	30.86	32.30	32.42	32.63	32.35	
24	31.14	31.32	31.42	31.53	32.08	34.86	32.23	30.87	32.18	32.50	32.59	32.26	
25	31.13	31.39	31.40	31.67	32.16	34.57	32.06	30.99	32.01	32.50	32.62	32.21	
26	31.11	31.41	31.46	31.59	32.36	34.71	32.28	31.04	32.03	32.39	32.63	32.17	
27	31.16	31.39	31.44	31.58	32.92	35.13	32.45	30.99	32.20	32.48	32.67	32.27	
28	31.31	31.34	31.38	31.51	33.02	35.66	32.44	31.02	32.30	32.51	32.92	32.40	
29	31.32	31.39	31.38	31.49	33.34	35.85	32.46	31.06	32.33	32.34		32.49	
30	31.32	31.48	31.34	31.70	33.49	35.76	32.71	31.08	32.39	32.22		32.16	
31		31.51		31.77	32.84		32.94		32.41	32.22		32.13	
Mean	31.18	31.29	31.45	31.81	32.08	33.50	33.94	31.47	31.95	32.33	32.69	32.57	
Max	31.32	31.51	31.56	33.50	33.49	35.85	35.71	32.96	32.60	32.53	33.12	33.05	35.85
Min	31.08	31.17	31.34	31.01	31.14	31.17	32.06	30.86	31.02	32.06	32.36	32.13	30.86

Annual Max Momentary Gage Height 35.89 m. (MSL.) , at 18.00 Hours , on Sep 29 , 2016

Zero Gage at Bottom Elevation 29.36 m. (MSL.) , River Bed 27.14 m. (MSL.)

Left Bank Elevation 44.39 m. (MSL.) ,

Right Bank Elevation 44.56 m. (MSL.) , Drainage Are 25,489 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	132.20	150.00	171.75	175.95	203.25	277.80	702.95	330.20	120.80	264.00	259.40	341.00	
2	131.25	148.00	168.60	169.65	223.40	270.90	619.20	296.60	118.90	246.75	264.00	315.80	
3	132.20	136.00	158.10	141.00	239.90	236.60	582.80	236.60	125.55	231.10	281.25	291.80	
4	136.00	137.00	159.15	161.25	226.70	213.75	595.40	238.80	131.25	228.90	282.40	282.40	
5	136.00	138.00	163.35	174.90	194.85	188.55	613.60	189.60	168.60	242.15	300.20	276.65	
6	137.00	139.00	163.35	161.25	190.65	161.25	658.00	154.00	164.40	238.80	300.20	277.80	
7	139.00	138.00	168.60	193.80	177.00	151.00	663.80	126.50	179.10	225.60	278.95	285.85	
8	136.00	136.00	167.55	217.95	210.60	147.00	666.70	123.65	178.05	235.50	287.00	309.80	
9	134.10	138.00	159.15	253.65	268.60	162.30	662.35	153.00	162.30	237.70	282.40	306.20	
10	131.25	142.00	156.00	333.80	285.85	163.35	647.85	148.00	154.00	251.35	288.20	315.80	
11	124.60	133.15	156.00	397.00	243.30	139.00	606.60	157.05	152.00	255.95	284.70	330.20	
12	126.50	137.00	156.00	380.25	199.05	133.15	574.40	207.45	192.75	261.70	282.40	333.80	
13	133.15	139.00	160.20	331.40	168.60	146.00	554.80	232.20	217.95	275.50	278.95	323.00	
14	138.00	135.05	160.20	280.10	145.00	173.85	535.20	211.65	235.50	278.95	290.60	296.60	
15	141.00	136.00	157.05	231.10	130.30	362.75	512.95	201.15	265.15	268.60	306.20	290.60	
16	131.25	142.00	161.25	206.40	146.00	581.40	488.65	188.55	267.45	253.65	320.60	268.60	
17	132.20	143.00	168.60	162.30	195.90	678.30	464.35	171.75	257.10	254.80	337.40	261.70	
18	139.00	142.00	172.80	144.00	167.55	650.75	438.70	139.00	269.75	254.80	345.80	284.70	
19	136.00	145.00	163.35	117.95	174.90	601.00	389.20	144.00	287.00	266.30	349.40	296.60	
20	130.30	148.00	162.30	128.40	188.55	634.80	365.25	141.00	278.95	270.90	331.40	288.20	
21	130.30	147.00	163.35	153.00	225.60	691.35	313.40	117.00	283.55	266.30	303.80	291.80	
22	133.15	144.00	162.30	155.00	223.40	660.90	274.35	108.45	268.60	254.80	297.80	289.40	
23	133.15	142.00	164.40	166.50	223.40	617.80	266.30	103.70	252.50	266.30	290.60	258.25	
24	130.30	148.00	158.10	169.65	227.80	581.40	244.45	104.65	238.80	275.50	285.85	247.90	
25	129.35	155.00	156.00	184.35	236.60	540.80	225.60	116.05	220.10	275.50	289.40	242.15	
26	127.45	157.05	162.30	175.95	259.40	560.40	250.20	120.80	222.30	262.85	290.60	237.70	
27	132.20	155.00	160.20	174.90	325.40	619.20	269.75	116.05	241.00	273.20	295.40	249.05	
28	147.00	150.00	154.00	167.55	337.40	695.70	268.60	118.90	252.50	276.65	325.40	264.00	
29	148.00	155.00	154.00	165.45	376.50	723.50	270.90	122.70	255.95	257.10		274.35	
30	148.00	164.40	150.00	187.50	395.70	710.20	300.20	124.60	262.85	243.30		236.60	
31		167.55		194.85	315.80		327.80		265.15	243.30		233.30	
Total	4035.90	4487.20	4838.00	6256.80	7126.95	12474.75	14354.30	4943.65	6689.85	7937.80	8330.30	8801.60	90277.10 CMSDAY
Mean	134.53	144.75	161.27	201.83	229.90	415.83	463.04	164.79	215.80	256.06	297.51	283.92	247.33 CMS
Max	148.00	167.55	172.80	397.00	395.70	723.50	702.95	330.20	287.00	278.95	349.40	341.00	723.50 CMS
Min	124.60	133.15	150.00	117.95	130.30	133.15	225.60	103.70	118.90	225.60	259.40	233.30	103.70 CMS
Runoff	348.70	387.69	418.00	540.59	615.77	1077.82	1240.21	427.13	578.00	685.83	719.74	760.46	7799.94 MCM

Momentary Peak 729.50 CMS. at 35.89 m. (MSL.) at 18.00 Hours , on Sep 29 , 2016

Runoff Yield 9.70 Liters/Second/Square KM. Momentary Peak Yield 28.620 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Wa at Tha Li Bridge , Nan (N.75)

Lat 18 - 33 - 00 N Long 100 - 48 - 41 E

Location : on left bank at the bridge.

	Ban Tha Li Bridge	**Amphoe** Wiang Sa	**Changwat** Nan
Drainge Area	2,170 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+182.805 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the approach of the bridge.	**Elevation**	+196.616 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

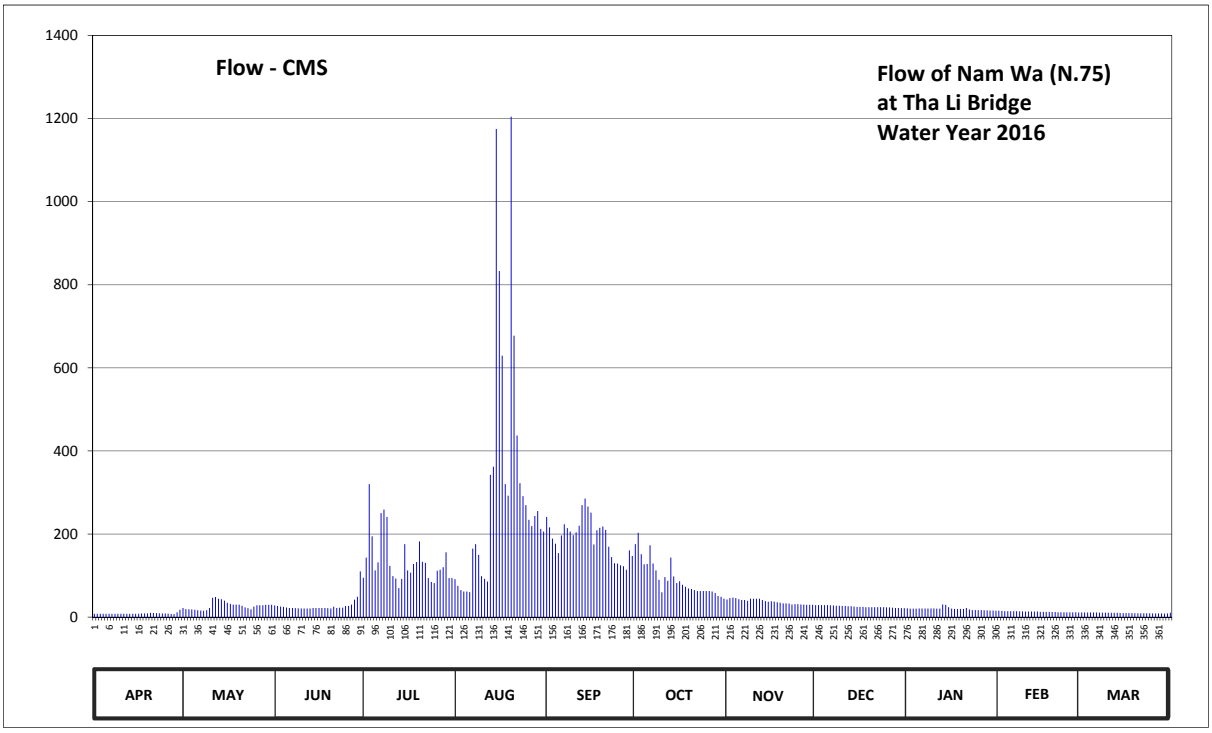
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.03	184.39	184.51	185.57	185.52	187.19	186.53	184.78	184.53	184.37	184.23	184.12	
2	184.03	184.33	184.49	186.17	185.29	186.96	186.83	184.84	184.53	184.35	184.22	184.12	
3	184.03	184.32	184.46	187.85	185.14	186.68	186.26	184.86	184.53	184.35	184.21	184.12	
4	184.03	184.31	184.44	186.74	185.09	186.54	185.99	184.84	184.53	184.35	184.21	184.12	
5	184.03	184.29	184.41	185.80	185.09	186.29	186.00	184.79	184.53	184.36	184.21	184.12	
6	184.03	184.26	184.39	186.04	185.07	186.76	186.50	184.76	184.52	184.36	184.21	184.12	
7	184.03	184.24	184.39	187.27	186.41	187.03	186.01	184.76	184.51	184.36	184.21	184.11	
8	184.03	184.23	184.38	187.34	186.53	186.94	185.80	184.72	184.50	184.36	184.20	184.11	
9	184.03	184.26	184.37	187.19	186.24	186.86	185.50	184.81	184.50	184.36	184.20	184.11	
10	184.03	184.39	184.36	185.94	185.62	186.77	185.06	184.81	184.49	184.36	184.19	184.11	
11	184.03	184.85	184.36	185.62	185.53	186.84	185.59	184.81	184.49	184.35	184.19	184.10	
12	184.03	184.88	184.36	185.54	185.44	187.00	185.47	184.81	184.47	184.35	184.19	184.10	
13	184.03	184.81	184.36	185.21	188.03	187.43	186.17	184.76	184.47	184.56	184.19	184.10	
14	184.03	184.79	184.39	185.53	188.17	187.56	185.61	184.71	184.46	184.54	184.18	184.09	
15	184.03	184.73	184.39	186.53	192.70	187.40	185.39	184.68	184.44	184.43	184.16	184.08	
16	184.03	184.64	184.39	185.80	190.99	187.28	185.45	184.70	184.44	184.35	184.16	184.08	
17	184.05	184.59	184.39	185.73	189.89	186.52	185.33	184.69	184.44	184.34	184.16	184.08	
18	184.05	184.55	184.39	186.00	187.85	186.89	185.26	184.66	184.43	184.34	184.16	184.08	
19	184.06	184.55	184.38	186.05	187.62	186.95	185.20	184.64	184.43	184.34	184.15	184.07	
20	184.10	184.55	184.36	186.60	192.84	186.98	185.18	184.61	184.43	184.34	184.15	184.07	
21	184.09	184.50	184.45	186.06	190.16	186.90	185.14	184.61	184.43	184.39	184.13	184.07	
22	184.08	184.42	184.39	186.03	188.70	186.46	185.11	184.60	184.43	184.31	184.13	184.07	
23	184.07	184.38	184.40	185.56	187.87	186.18	185.11	184.56	184.43	184.27	184.13	184.07	
24	184.06	184.32	184.40	185.43	187.61	186.02	185.11	184.57	184.43	184.27	184.13	184.07	
25	184.05	184.46	184.48	185.39	187.43	186.01	185.11	184.57	184.42	184.27	184.13	184.06	
26	184.04	184.52	184.49	185.79	187.13	185.96	185.11	184.56	184.42	184.27	184.13	184.06	
27	184.02	184.52	184.55	185.82	186.99	185.93	185.09	184.55	184.40	184.26	184.13	184.06	
28	184.01	184.52	184.77	185.90	187.21	185.82	185.04	184.54	184.39	184.25	184.12	184.05	
29	184.13	184.54	184.89	186.31	187.31	186.36	184.92	184.54	184.39	184.24		184.04	
30	184.29	184.54	185.77	185.56	186.92	186.21	184.89	184.54	184.38	184.24		184.05	
31		184.54		185.56	186.86		184.81		184.38	184.23		184.10	
Mean	184.05	184.49	184.49	186.06	187.40	186.69	185.50	184.69	184.46	184.34	184.17	184.09	
Max	184.29	184.88	185.77	187.85	192.84	187.56	186.83	184.86	184.53	184.56	184.23	184.12	192.84
Min	184.01	184.23	184.36	185.21	185.07	185.82	184.81	184.54	184.38	184.23	184.12	184.04	184.01

Annual Max Momentary Gage Height 194.35 m. (MSL.) , at 15.00 Hours , on Aug 15 , 2016

Zero Gage at Bottom Elevation 182.81 m. (MSL.) , River Bed 181.40 m. (MSL.)

Left Bank Elevation 196.57 m. (MSL.) ,

Right Bank Elevation 196.49 m. (MSL.) , Drainage Are 2,170 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.99	22.05	28.01	94.82	91.20	240.90	175.70	42.48	29.03	21.15	15.20	11.04	
2	7.99	19.35	27.00	143.30	75.02	216.00	203.00	45.96	29.03	20.25	14.80	11.04	
3	7.99	18.90	25.50	320.00	64.88	189.20	151.40	47.14	29.03	20.25	14.40	11.04	
4	7.99	18.45	24.50	194.60	61.53	176.60	127.22	45.96	29.03	20.25	14.40	11.04	
5	7.99	17.60	23.00	112.50	61.53	154.10	128.00	43.04	29.03	20.70	14.40	11.04	
6	7.99	16.40	22.05	131.60	60.19	196.40	173.00	41.36	28.52	20.70	14.40	11.04	
7	7.99	15.60	22.05	250.40	164.90	223.30	128.90	41.36	28.01	20.70	14.40	10.67	
8	7.99	15.20	21.60	258.80	175.70	214.00	112.50	39.12	27.50	20.70	14.00	10.67	
9	7.99	16.40	21.15	240.90	149.60	206.00	89.75	44.19	27.50	20.70	14.00	10.67	
10	7.99	22.05	20.70	123.35	98.55	197.30	59.52	44.19	27.00	20.70	13.63	10.67	
11	7.99	46.55	20.70	98.55	91.92	204.00	96.27	44.19	27.00	20.25	13.63	10.30	
12	7.99	48.32	20.70	92.65	85.40	220.00	87.58	44.19	26.00	20.25	13.63	10.30	
13	7.99	44.19	20.70	69.58	342.20	269.60	143.30	41.36	26.00	30.56	13.63	10.30	
14	7.99	43.04	22.05	91.92	361.80	285.20	97.77	38.56	25.50	29.54	13.26	9.97	
15	7.99	39.68	22.05	175.70	1175.00	266.00	81.82	36.92	24.50	24.00	12.52	9.64	
16	7.99	34.76	22.05	112.50	833.10	251.60	86.13	38.00	24.50	20.25	12.52	9.64	
17	8.65	32.09	22.05	107.07	629.30	174.80	77.74	37.46	24.50	19.80	12.52	9.64	
18	8.65	30.05	22.05	128.00	320.00	209.00	72.98	35.84	24.00	19.80	12.52	9.64	
19	8.98	30.05	21.60	132.50	292.40	215.00	68.90	34.76	24.00	19.80	12.15	9.31	
20	10.30	30.05	20.70	182.00	1204.40	218.00	67.56	33.14	24.00	19.80	12.15	9.31	
21	9.97	27.50	25.00	133.40	677.20	210.00	64.88	33.14	24.00	22.05	11.41	9.31	
22	9.64	23.50	22.05	130.70	437.00	169.40	62.87	32.60	24.00	18.45	11.41	9.31	
23	9.31	21.60	22.50	94.10	322.40	144.20	62.87	30.56	24.00	16.80	11.41	9.31	
24	8.98	18.90	22.50	84.68	291.20	129.80	62.87	31.07	24.00	16.80	11.41	9.31	
25	8.65	25.50	26.50	81.82	269.60	128.90	62.87	31.07	23.50	16.80	11.41	8.98	
26	8.32	28.52	27.00	111.72	234.30	124.90	62.87	30.56	23.50	16.80	11.41	8.98	
27	7.66	28.52	30.05	114.05	219.00	122.57	61.53	30.05	22.50	16.40	11.41	8.98	
28	7.33	28.52	41.92	120.25	243.20	114.05	58.18	29.54	22.05	16.00	11.04	8.65	
29	11.41	29.54	48.91	155.90	255.20	160.40	50.70	29.54	22.05	15.60		8.32	
30	17.60	29.54	110.17	94.10	212.00	146.90	48.91	29.54	21.60	15.60		8.65	
31		29.54		94.10	206.00		44.19		21.60	15.20		10.30	
Total	263.29	851.96	826.81	4275.56	9705.72	5778.12	2871.78	1126.89	786.48	616.65	363.07	307.07	27773.40	CMSDAY
Mean	8.78	27.48	27.56	137.92	313.09	192.60	92.64	37.56	25.37	19.89	12.97	9.91	76.09	CMS
Max	17.60	48.32	110.17	320.00	1204.40	285.20	203.00	47.14	29.03	30.56	15.20	11.04	1204.40	CMS
Min	7.33	15.20	20.70	69.58	60.19	114.05	44.19	29.54	21.60	15.20	11.04	8.32	7.33	CMS
Runoff	22.75	73.61	71.44	369.41	838.57	499.23	248.12	97.36	67.95	53.28	31.37	26.53	2399.62	MCM

Momentary Peak 1529.50 CMS. at 194.35 m. (MSL.) at 15.00 Hours , on Aug 15 , 2016

Runoff Yield 35.07 Liters/Second/Square KM. Momentary Peak Yield 704.840 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

Ban Kaeng Bua Kham **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	3,120 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+160.260 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank near the gage site. **Elevation** +167.292 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2012 to date
Rating Operation	
Period of Rating	2012 to date
Rated by Flot	-
Rated by Current Meter	2012 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

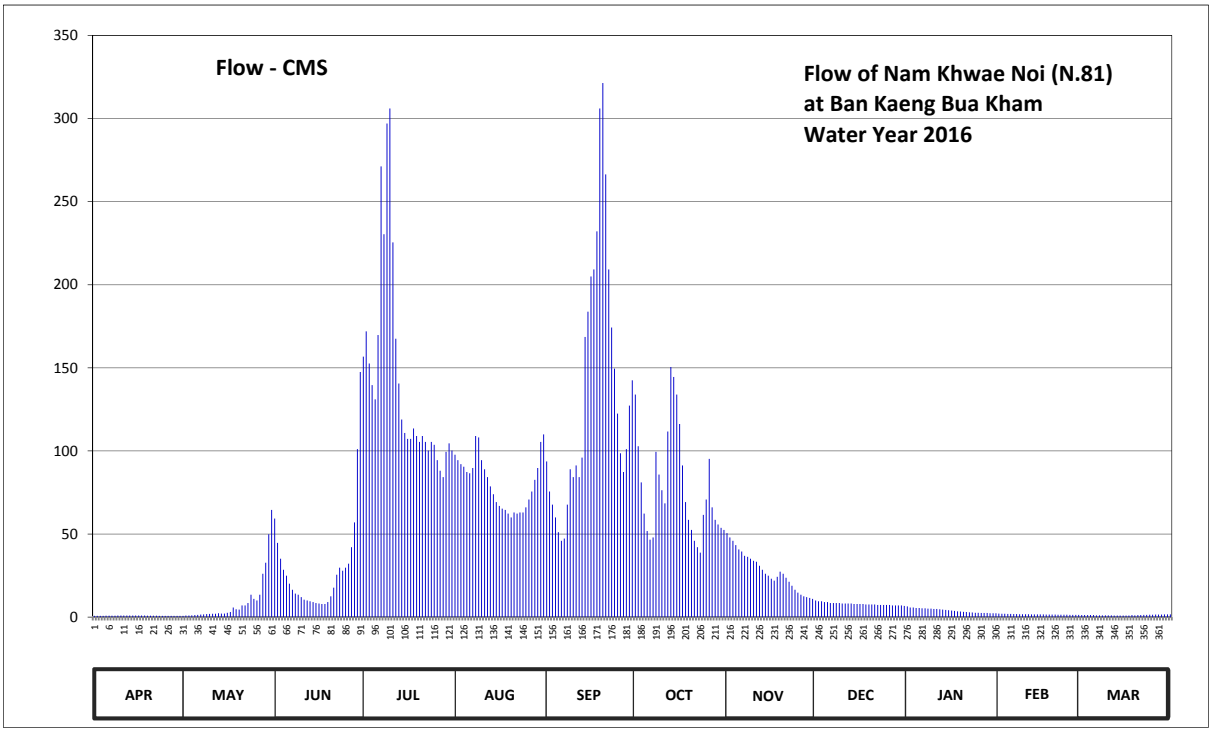
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.16	161.16	162.43	163.55	162.92	162.87	163.32	162.30	161.63	161.53	161.31	161.22	
2	161.16	161.19	162.21	163.69	162.88	162.64	162.98	162.26	161.62	161.51	161.30	161.22	
3	161.15	161.19	162.06	163.51	162.85	162.54	162.71	162.23	161.62	161.51	161.30	161.22	
4	161.16	161.21	161.95	163.38	162.83	162.44	162.47	162.19	161.61	161.50	161.29	161.22	
5	161.17	161.22	161.89	163.29	162.79	162.31	162.32	162.15	161.61	161.50	161.29	161.22	
6	161.17	161.23	161.81	163.67	162.78	162.23	162.24	162.13	161.60	161.49	161.28	161.21	
7	161.18	161.25	161.75	164.33	162.82	162.25	162.26	162.09	161.60	161.49	161.28	161.21	
8	161.18	161.26	161.71	164.12	163.05	162.54	162.94	162.08	161.60	161.48	161.27	161.21	
9	161.19	161.28	161.70	164.43	163.04	162.81	162.77	162.06	161.60	161.48	161.27	161.21	
10	161.20	161.29	161.67	164.46	162.88	162.75	162.65	162.04	161.59	161.47	161.27	161.21	
11	161.20	161.30	161.64	164.09	162.81	162.84	162.55	162.03	161.59	161.47	161.27	161.21	
12	161.20	161.30	161.63	163.65	162.75	162.75	163.08	161.99	161.59	161.46	161.26	161.20	
13	161.20	161.32	161.62	163.39	162.68	162.90	163.49	161.95	161.59	161.45	161.26	161.20	
14	161.20	161.31	161.61	163.16	162.62	163.66	163.43	161.91	161.58	161.44	161.26	161.20	
15	161.19	161.31	161.60	163.07	162.56	163.79	163.32	161.89	161.58	161.43	161.26	161.20	
16	161.19	161.34	161.59	163.03	162.53	163.95	163.13	161.86	161.58	161.42	161.26	161.20	
17	161.19	161.37	161.58	163.03	162.51	163.98	162.84	161.84	161.58	161.41	161.25	161.20	
18	161.19	161.51	161.58	163.10	162.50	164.13	162.56	161.88	161.57	161.40	161.25	161.22	
19	161.18	161.46	161.61	163.05	162.47	164.46	162.42	161.93	161.57	161.39	161.25	161.21	
20	161.18	161.45	161.68	163.01	162.44	164.51	162.33	161.91	161.57	161.38	161.25	161.22	
21	161.18	161.55	161.77	163.05	162.48	164.31	162.23	161.87	161.57	161.37	161.24	161.22	
22	161.17	161.55	161.90	163.01	162.47	163.98	162.17	161.83	161.56	161.36	161.24	161.23	
23	161.16	161.60	161.97	162.95	162.48	163.71	162.12	161.79	161.56	161.35	161.24	161.23	
24	161.16	161.70	161.94	163.01	162.48	163.48	162.46	161.75	161.56	161.34	161.24	161.24	
25	161.15	161.65	161.97	162.99	162.52	163.20	162.58	161.72	161.56	161.34	161.23	161.24	
26	161.15	161.63	162.01	162.88	162.58	162.93	162.89	161.70	161.56	161.33	161.23	161.25	
27	161.15	161.70	162.17	162.80	162.64	162.79	162.52	161.68	161.55	161.33	161.23	161.25	
28	161.15	161.91	162.40	162.75	162.73	162.96	162.42	161.67	161.55	161.33	161.23	161.25	
29	161.16	162.02	162.96	162.94	162.82	163.25	162.38	161.66	161.55	161.32		161.26	
30	161.16	162.29	163.46	163.00	163.01	163.41	162.35	161.65	161.55	161.32		161.26	
31		162.50		162.95	163.06		162.33		161.54	161.32		161.26	
Mean	161.17	161.49	161.93	163.33	162.71	163.21	162.65	161.93	161.58	161.42	161.26	161.22	
Max	161.20	162.50	163.46	164.46	163.06	164.51	163.49	162.30	161.63	161.53	161.31	161.26	164.51
Min	161.15	161.16	161.58	162.75	162.44	162.23	162.12	161.65	161.54	161.32	161.23	161.20	161.15

Annual Max Momentary Gage Height 164.53 m. (MSL.) , at 06.00 Hours , on Sep 20 , 2016

Zero Gage at Bottom Elevation 160.26 m. (MSL.) , River Bed 160.08 m. (MSL.)

Left Bank Elevation 167.10 m. (MSL.) ,

Right Bank Elevation 167.09 m. (MSL.) , Drainage Are 3,120 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.80	59.25	156.75	97.70	93.64	133.90	50.50	10.00	6.40	2.15	1.20	
2	0.80	0.95	44.65	171.90	94.43	75.53	102.80	47.90	9.50	5.80	2.00	1.20	
3	0.75	0.95	35.10	152.55	92.06	67.65	81.04	45.95	9.50	5.80	2.00	1.20	
4	0.80	1.10	28.50	139.60	90.49	60.00	62.25	43.35	9.00	5.50	1.90	1.20	
5	0.85	1.20	24.90	131.05	87.34	51.15	51.80	40.75	9.00	5.50	1.90	1.20	
6	0.85	1.30	20.10	169.70	86.55	45.95	46.60	39.45	8.50	5.30	1.80	1.10	
7	0.90	1.50	16.50	271.20	89.70	47.25	47.90	36.90	8.50	5.30	1.80	1.10	
8	0.90	1.60	14.10	230.40	109.00	67.65	99.40	36.30	8.50	5.10	1.70	1.10	
9	0.95	1.80	13.50	297.00	108.10	88.91	85.76	35.10	8.50	5.10	1.70	1.10	
10	1.00	1.90	12.00	306.00	94.43	84.19	76.31	33.90	8.20	4.90	1.70	1.10	
11	1.00	2.00	10.50	225.50	88.91	91.28	68.44	33.30	8.20	4.90	1.70	1.10	
12	1.00	2.00	10.00	167.50	84.19	84.19	111.70	30.90	8.20	4.70	1.60	1.00	
13	1.00	2.30	9.50	140.55	78.68	96.00	150.50	28.50	8.20	4.50	1.60	1.00	
14	1.00	2.15	9.00	118.90	73.95	168.60	144.50	26.10	7.90	4.30	1.60	1.00	
15	0.95	2.15	8.50	110.80	69.23	183.80	133.90	24.90	7.90	4.10	1.60	1.00	
16	0.95	2.60	8.20	107.20	66.86	205.00	116.20	23.10	7.90	3.90	1.60	1.00	
17	0.95	3.05	7.90	107.20	65.29	209.20	91.28	21.90	7.90	3.70	1.50	1.00	
18	0.95	5.80	7.90	113.50	64.50	232.10	69.23	24.30	7.60	3.50	1.50	1.20	
19	0.90	4.70	9.00	109.00	62.25	306.00	58.50	27.30	7.60	3.35	1.50	1.10	
20	0.90	4.50	12.50	105.40	60.00	321.40	52.45	26.10	7.60	3.20	1.50	1.20	
21	0.90	7.00	17.70	109.00	63.00	266.40	45.95	23.70	7.60	3.05	1.40	1.20	
22	0.85	7.00	25.50	105.40	62.25	209.20	42.05	21.30	7.30	2.90	1.40	1.30	
23	0.80	8.50	29.70	100.25	63.00	174.20	38.80	18.90	7.30	2.75	1.40	1.30	
24	0.80	13.50	27.90	105.40	63.00	149.50	61.50	16.50	7.30	2.60	1.40	1.40	
25	0.75	11.00	29.70	103.65	66.08	122.50	70.80	14.70	7.30	2.60	1.30	1.40	
26	0.75	10.00	32.10	94.43	70.80	98.55	95.21	13.50	7.30	2.45	1.30	1.50	
27	0.75	13.50	42.05	88.13	75.53	87.34	66.08	12.50	7.00	2.45	1.30	1.50	
28	0.75	26.10	57.00	84.19	82.61	101.10	58.50	12.00	7.00	2.45	1.30	1.50	
29	0.80	32.70	101.10	99.40	89.70	127.25	55.70	11.50	7.00	2.30		1.60	
30	0.80	49.85	147.50	104.50	105.40	142.50	53.75	11.00	7.00	2.30		1.60	
31		64.50		100.25	109.90		52.45		6.70	2.30		1.60	
Total	26.15	288.00	871.85	4426.30	2514.93	4058.03	2425.25	832.10	247.00	123.00	45.15	38.00	15895.76 CMSDAY
Mean	0.87	9.29	29.06	142.78	81.13	135.27	78.23	27.74	7.97	3.97	1.61	1.23	43.55 CMS
Max	1.00	64.50	147.50	306.00	109.90	321.40	150.50	50.50	10.00	6.40	2.15	1.60	321.40 CMS
Min	0.75	0.80	7.90	84.19	60.00	45.95	38.80	11.00	6.70	2.30	1.30	1.00	0.75 CMS
Runoff	2.26	24.88	75.33	382.43	217.29	350.61	209.54	71.89	21.34	10.63	3.90	3.28	1373.39 MCM

Momentary Peak 328.20 CMS. at 164.53 m. (MSL.) at 06.00 Hours , on Sep 20 , 2016

Runoff Yield 13.96 Liters/Second/Square KM. Momentary Peak Yield 105.190 Liters/Second/Square KM.

WATER YEAR : 2016

NAN RIVER BASIN

Huai Nam Ree at Ban Kaeng Sai Ngam , Uttaradit (N.82)

Lat - - N Long - - E

Location : on right bank at Ban Kaeng Sai Ngam.

Ban Kaeng Sai Ngam **Amphoe** Nam Pat **Changwat** Uttaradit

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.- H.D.
Location BM	On left bank near the gage site. **Elevation** +6.312 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2016 to date
Rating Operation	
Period of Rating	2016 to date
Rated by Flot	-
Rated by Current Meter	2016 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2016.

Gage Height in Meter (A.D.) Water Year April 1, 2016 to March 31, 2017

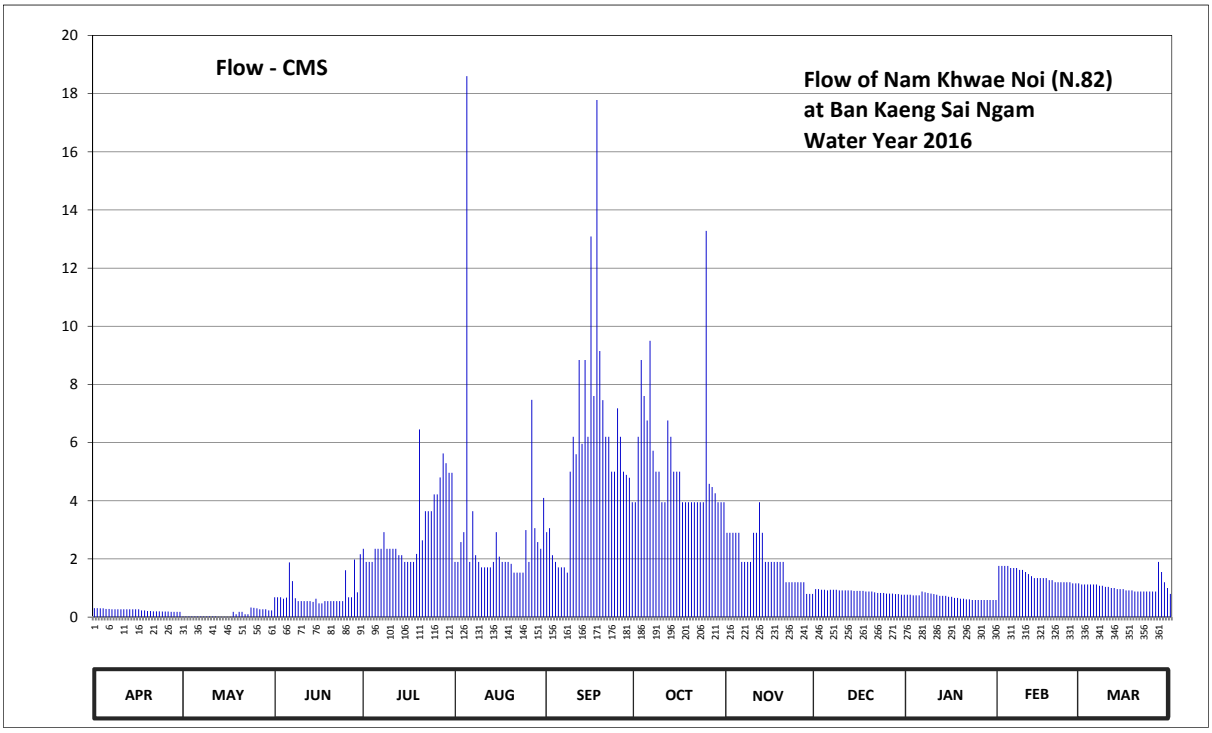
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	0.70	1.30	1.40	1.30	1.50	1.10	1.00	0.99	0.90	0.88	0.78	
2	1.03	0.70	1.30	1.30	1.30	1.52	1.30	1.00	0.99	0.90	0.88	0.78	
3	1.02	0.70	1.30	1.30	1.44	1.35	1.48	1.00	0.98	0.89	0.88	0.78	
4	1.02	0.70	1.26	1.30	1.50	1.30	1.40	1.00	0.98	0.89	0.88	0.78	
5	1.01	0.70	1.29	1.40	2.00	1.25	1.34	1.00	0.97	0.89	0.87	0.78	
6	1.01	0.70	1.47	1.40	1.30	1.25	1.52	0.90	0.98	0.95	0.87	0.78	
7	1.00	0.70	1.40	1.40	1.60	1.25	1.26	0.90	0.98	0.94	0.87	0.77	
8	1.00	0.70	1.28	1.50	1.35	1.20	1.20	0.90	0.98	0.93	0.86	0.77	
9	1.00	0.70	1.20	1.40	1.30	1.20	1.20	0.90	0.97	0.92	0.86	0.76	
10	1.00	0.70	1.20	1.40	1.25	1.30	1.10	1.00	0.97	0.91	0.85	0.76	
11	1.00	0.70	1.20	1.40	1.25	1.25	1.10	1.00	0.97	0.90	0.84	0.75	
12	1.00	0.70	1.20	1.40	1.25	1.48	1.34	1.10	0.97	0.88	0.83	0.75	
13	1.00	0.65	1.20	1.35	1.25	1.28	1.30	1.00	0.97	0.88	0.82	0.74	
14	1.00	0.65	1.18	1.35	1.30	1.48	1.20	0.90	0.96	0.88	0.82	0.74	
15	1.00	0.65	1.26	1.30	1.50	1.30	1.20	0.90	0.96	0.86	0.82	0.74	
16	1.00	0.65	1.15	1.30	1.34	1.72	1.20	0.90	0.96	0.86	0.82	0.73	
17	0.95	0.65	1.15	1.30	1.30	1.40	1.10	0.90	0.96	0.84	0.82	0.73	
18	0.95	0.90	1.20	1.30	1.30	1.96	1.10	0.90	0.95	0.84	0.81	0.73	
19	0.93	0.80	1.20	1.36	1.30	1.50	1.10	0.90	0.95	0.82	0.81	0.72	
20	0.93	0.90	1.20	1.80	1.28	1.39	1.10	0.90	0.95	0.82	0.80	0.72	
21	0.92	0.90	1.20	1.45	1.20	1.30	1.10	0.80	0.94	0.81	0.80	0.72	
22	0.92	0.80	1.20	1.60	1.20	1.30	1.10	0.80	0.93	0.81	0.80	0.72	
23	0.92	0.80	1.20	1.60	1.20	1.20	1.10	0.80	0.93	0.80	0.80	0.72	
24	0.91	1.05	1.20	1.60	1.20	1.20	1.10	0.80	0.93	0.80	0.80	0.72	
25	0.91	1.04	1.44	1.65	1.51	1.37	1.73	0.80	0.92	0.80	0.80	0.72	
26	0.91	1.02	1.30	1.65	1.30	1.30	1.16	0.80	0.92	0.80	0.79	0.72	
27	0.90	1.00	1.30	1.70	1.84	1.20	1.15	0.80	0.92	0.80	0.79	0.90	
28	0.90	1.00	1.48	1.75	1.52	1.19	1.13	0.70	0.91	0.80	0.79	0.85	
29	0.90	1.00	1.33	1.73	1.44	1.18	1.10	0.70	0.91	0.80		0.80	
30	0.90	0.95	1.51	1.71	1.40	1.10	1.10	0.70	0.90	0.80		0.75	
31		0.95		1.71	1.64		1.10		0.90	0.80		0.70	
Mean	0.97	0.80	1.27	1.48	1.38	1.34	1.21	0.89	0.95	0.86	0.83	0.76	
Max	1.03	1.05	1.51	1.80	2.00	1.96	1.73	1.10	0.99	0.95	0.88	0.90	2.00
Min	0.90	0.65	1.15	1.30	1.20	1.10	1.10	0.70	0.90	0.80	0.79	0.70	0.65

Annual Max Momentary Gage Height 2.20 m. (A.D.) , at 15.00 Hours , on Aug 27 , 2016

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.07 m. (A.D.)

Left Bank Elevation 5.05 m. (A.D.) ,

Right Bank Elevation 5.45 m. (A.D.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.02	0.68	2.35	1.90	2.92	3.95	2.90	0.96	0.77	1.76	1.12	
2	0.31	0.02	0.68	1.90	1.90	3.06	6.20	2.90	0.96	0.77	1.76	1.12	
3	0.30	0.02	0.68	1.90	2.58	2.13	8.84	2.90	0.94	0.75	1.76	1.12	
4	0.30	0.02	0.63	1.90	2.92	1.90	7.60	2.90	0.94	0.75	1.76	1.12	
5	0.28	0.02	0.67	2.35	18.60	1.71	6.76	2.90	0.92	0.75	1.69	1.12	
6	0.28	0.02	1.88	2.35	1.90	1.71	9.50	1.90	0.94	0.88	1.69	1.12	
7	0.27	0.02	1.24	2.35	3.64	1.71	5.72	1.90	0.94	0.85	1.69	1.08	
8	0.27	0.02	0.65	2.92	2.13	1.53	5.00	1.90	0.94	0.83	1.62	1.08	
9	0.27	0.02	0.55	2.35	1.90	5.00	5.00	1.90	0.92	0.81	1.62	1.04	
10	0.27	0.02	0.55	2.35	1.71	6.20	3.95	2.90	0.92	0.79	1.55	1.04	
11	0.27	0.02	0.55	2.35	1.71	5.60	3.95	2.90	0.92	0.77	1.48	1.00	
12	0.27	0.02	0.55	2.35	1.71	8.84	6.76	3.95	0.92	0.73	1.41	1.00	
13	0.27	0.01	0.55	2.13	1.71	5.96	6.20	2.90	0.92	0.73	1.34	0.96	
14	0.27	0.01	0.52	2.13	1.90	8.84	5.00	1.90	0.90	0.73	1.34	0.96	
15	0.27	0.01	0.63	1.90	2.92	6.20	5.00	1.90	0.90	0.70	1.34	0.96	
16	0.27	0.01	0.47	1.90	2.08	13.09	5.00	1.90	0.90	0.70	1.34	0.92	
17	0.23	0.01	0.47	1.90	1.90	7.60	3.95	1.90	0.90	0.66	1.34	0.92	
18	0.23	0.18	0.55	1.90	1.90	17.78	3.95	1.90	0.88	0.66	1.27	0.92	
19	0.21	0.10	0.55	2.17	1.90	9.15	3.95	1.90	0.88	0.63	1.27	0.88	
20	0.21	0.18	0.55	6.45	1.83	7.46	3.95	1.90	0.88	0.63	1.20	0.88	
21	0.20	0.18	0.55	2.64	1.53	6.20	3.95	1.20	0.85	0.61	1.20	0.88	
22	0.20	0.10	0.55	3.64	1.53	6.20	3.95	1.20	0.83	0.61	1.20	0.88	
23	0.20	0.10	0.55	3.64	1.53	5.00	3.95	1.20	0.83	0.59	1.20	0.88	
24	0.19	0.33	0.55	3.64	1.53	5.00	3.95	1.20	0.83	0.59	1.20	0.88	
25	0.19	0.32	1.61	4.22	2.99	7.18	13.28	1.20	0.81	0.59	1.20	0.88	
26	0.19	0.30	0.68	4.22	1.90	6.20	4.58	1.20	0.81	0.59	1.16	0.88	
27	0.18	0.27	0.68	4.80	7.47	5.00	4.47	1.20	0.81	0.59	1.16	1.90	
28	0.18	0.27	1.98	5.63	3.06	4.89	4.26	0.80	0.79	0.59	1.16	1.55	
29	0.18	0.27	0.85	5.29	2.58	4.79	3.95	0.80	0.79	0.59		1.20	
30	0.18	0.23	2.16	4.96	2.35	3.95	3.95	0.80	0.77	0.59		1.00	
31		0.23		4.96	4.10		3.95		0.77	0.59		0.80	
Total	7.25	3.35	23.76	95.54	89.31	172.80	164.47	58.85	27.27	21.42	39.71	32.09	735.82 CMSDAY
Mean	0.24	0.11	0.79	3.08	2.88	5.76	5.31	1.96	0.88	0.69	1.42	1.04	2.02 CMS
Max	0.31	0.33	2.16	6.45	18.60	17.78	13.28	3.95	0.96	0.88	1.76	1.90	18.60 CMS
Min	0.18	0.01	0.47	1.90	1.53	1.53	3.95	0.80	0.77	0.59	1.16	0.80	0.01 CMS
Runoff	0.63	0.29	2.05	8.25	7.72	14.93	14.21	5.08	2.36	1.85	3.43	2.77	63.57 MCM

Momentary Peak 18.60 CMS. at 2.20 m. (A.D.) at 15.00 Hours , on Aug 27 , 2016

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

WATER YEAR : 2016

NAN RIVER BASIN

Huai Nam Ree at Ban Kiw Kian , Uttaradit (N.83)

Lat - - N Long - - E

Location : on left bank at Ban Kiw kian.

Ban Kiw Kian **Amphoe** Nam Pat **Changwat** Uttaradit

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.- H.D.
Location BM	On left bank near the gage site. **Elevation** - m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2016 to date
Rating Operation	
Period of Rating	2016 to date
Rated by Flot	-
Rated by Current Meter	2016 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (A.D.) Water Year April 1, 2016 to March 31, 2017

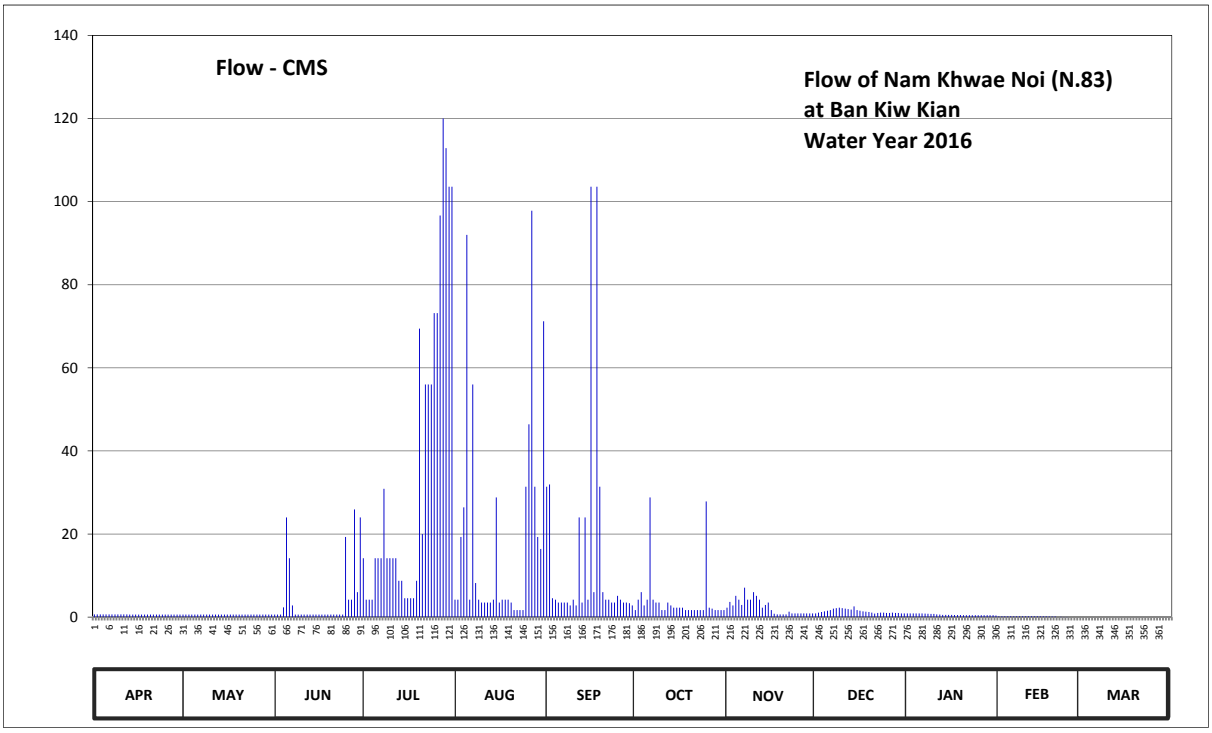
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.34	0.34	1.12	0.70	1.55	0.50	0.55	0.40	0.40	0.25	0.18	
2	0.35	0.34	0.34	0.70	0.70	1.56	0.70	0.66	0.42	0.40	0.25	0.18	
3	0.35	0.34	0.34	0.70	1.28	0.72	0.80	0.60	0.44	0.40	0.25	0.18	
4	0.35	0.34	0.56	0.70	1.45	0.70	0.60	0.75	0.46	0.40	0.25	0.18	
5	0.35	0.34	1.40	1.12	2.30	0.65	0.70	0.70	0.48	0.40	0.25	0.18	
6	0.35	0.34	1.12	1.12	0.70	0.65	1.50	0.61	0.50	0.40	0.25	0.18	
7	0.35	0.34	0.60	1.12	1.92	0.65	0.70	0.85	0.53	0.39	0.25	0.18	
8	0.35	0.34	0.34	1.54	0.90	0.65	0.65	0.70	0.54	0.38	0.25	0.18	
9	0.35	0.34	0.34	1.12	0.70	0.60	0.65	0.70	0.55	0.37	0.25	0.18	
10	0.35	0.34	0.34	1.12	0.65	0.70	0.50	0.80	0.54	0.37	0.25	0.18	
11	0.35	0.34	0.34	1.12	0.65	0.60	0.50	0.75	0.53	0.35	0.25	0.18	
12	0.35	0.34	0.34	1.12	0.65	1.40	0.65	0.70	0.52	0.34	0.25	0.18	
13	0.34	0.34	0.34	0.92	0.65	0.65	0.60	0.55	0.51	0.33	0.25	0.18	
14	0.34	0.34	0.34	0.92	0.70	1.40	0.55	0.61	0.58	0.33	0.25	0.18	
15	0.34	0.34	0.34	0.72	1.50	0.70	0.55	0.65	0.50	0.33	0.25	0.18	
16	0.34	0.34	0.34	0.72	0.65	2.40	0.55	0.50	0.48	0.33	0.25	0.18	
17	0.34	0.34	0.34	0.72	0.70	0.80	0.55	0.38	0.46	0.32	0.25	0.18	
18	0.34	0.34	0.34	0.72	0.70	2.40	0.50	0.35	0.45	0.32	0.24	0.18	
19	0.34	0.34	0.34	0.92	0.70	1.55	0.50	0.35	0.44	0.32	0.24	0.18	
20	0.34	0.34	0.34	2.08	0.65	0.80	0.50	0.35	0.42	0.31	0.24	0.18	
21	0.34	0.34	0.34	1.30	0.50	0.70	0.50	0.35	0.39	0.31	0.20	0.18	
22	0.34	0.34	0.34	1.92	0.50	0.70	0.50	0.45	0.41	0.31	0.22	0.18	
23	0.34	0.34	0.34	1.92	0.50	0.65	0.50	0.40	0.42	0.31	0.21	0.18	
24	0.34	0.34	0.34	1.92	0.50	0.65	0.50	0.40	0.42	0.31	0.21	0.18	
25	0.34	0.34	1.28	2.12	1.55	0.75	1.48	0.40	0.41	0.31	0.20	0.18	
26	0.34	0.34	0.70	2.12	1.80	0.70	0.55	0.40	0.41	0.31	0.20	0.18	
27	0.34	0.34	0.70	2.34	2.35	0.65	0.53	0.40	0.42	0.31	0.19	0.18	
28	0.34	0.34	1.44	2.54	1.55	0.65	0.50	0.40	0.41	0.31	0.19	0.18	
29	0.34	0.34	0.80	2.48	1.28	0.64	0.50	0.40	0.41	0.31		0.18	
30	0.34	0.34	1.40	2.40	1.20	0.60	0.50	0.40	0.40	0.31		0.18	
31		0.34		2.40	2.10		0.50		0.40	0.30		0.18	
Mean	0.34	0.34	0.56	1.41	1.05	0.93	0.62	0.54	0.46	0.34	0.24	0.18	
Max	0.35	0.34	1.44	2.54	2.35	2.40	1.50	0.85	0.58	0.40	0.25	0.18	2.54
Min	0.34	0.34	0.34	0.70	0.50	0.60	0.50	0.35	0.39	0.30	0.19	0.18	0.18

Annual Max Momentary Gage Height 2.54 m. (A.D.) , at 06.00 Hours , on Jul 28 , 2016

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

Left Bank Elevation 5.00 m. (A.D.) ,

Right Bank Elevation 5.10 m. (A.D.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.60	0.60	14.16	4.20	31.40	1.70	2.25	0.90	0.90	0.20	0.00	
2	0.65	0.60	0.60	4.20	4.20	31.92	4.20	3.64	1.06	0.90	0.20	0.00	
3	0.65	0.60	0.60	4.20	19.28	4.56	6.00	2.80	1.22	0.90	0.20	0.00	
4	0.65	0.60	2.36	4.20	26.40	4.20	2.80	5.10	1.38	0.90	0.20	0.00	
5	0.65	0.60	24.00	14.16	92.00	3.50	4.20	4.20	1.54	0.90	0.20	0.00	
6	0.65	0.60	14.16	14.16	4.20	3.50	28.80	2.94	1.70	0.90	0.20	0.00	
7	0.65	0.60	2.80	14.16	56.00	3.50	4.20	7.10	2.03	0.85	0.20	0.00	
8	0.65	0.60	0.60	30.88	8.20	3.50	3.50	4.20	2.14	0.80	0.20	0.00	
9	0.65	0.60	0.60	14.16	4.20	2.80	3.50	4.20	2.25	0.75	0.20	0.00	
10	0.65	0.60	0.60	14.16	3.50	4.20	1.70	6.00	2.14	0.75	0.20	0.00	
11	0.65	0.60	0.60	14.16	3.50	2.80	1.70	5.10	2.03	0.65	0.20	0.00	
12	0.65	0.60	0.60	14.16	3.50	24.00	3.50	4.20	1.92	0.60	0.20	0.00	
13	0.60	0.60	0.60	8.72	3.50	3.50	2.80	2.25	1.81	0.55	0.20	0.00	
14	0.60	0.60	0.60	8.72	4.20	24.00	2.25	2.94	2.58	0.55	0.20	0.00	
15	0.60	0.60	0.60	4.56	28.80	4.20	2.25	3.50	1.70	0.55	0.20	0.00	
16	0.60	0.60	0.60	4.56	3.50	103.60	2.25	1.70	1.54	0.55	0.20	0.00	
17	0.60	0.60	0.60	4.56	4.20	6.00	2.25	0.80	1.38	0.50	0.20	0.00	
18	0.60	0.60	0.60	4.56	4.20	103.60	1.70	0.65	1.30	0.50	0.16	0.00	
19	0.60	0.60	0.60	8.72	4.20	31.40	1.70	0.65	1.22	0.50	0.16	0.00	
20	0.60	0.60	0.60	69.44	3.50	6.00	1.70	0.65	1.06	0.45	0.16	0.00	
21	0.60	0.60	0.60	20.00	1.70	4.20	1.70	0.65	0.85	0.45	0.00	0.00	
22	0.60	0.60	0.60	56.00	1.70	4.20	1.70	1.30	0.98	0.45	0.08	0.00	
23	0.60	0.60	0.60	56.00	1.70	3.50	1.70	0.90	1.06	0.45	0.04	0.00	
24	0.60	0.60	0.60	56.00	1.70	3.50	1.70	0.90	1.06	0.45	0.04	0.00	
25	0.60	0.60	19.28	73.16	31.40	5.10	27.84	0.90	0.98	0.45	0.00	0.00	
26	0.60	0.60	4.20	73.16	46.40	4.20	2.25	0.90	0.98	0.45	0.00	0.00	
27	0.60	0.60	4.20	96.64	97.80	3.50	2.03	0.90	1.06	0.45	0.00	0.00	
28	0.60	0.60	25.92	120.00	31.40	3.50	1.70	0.90	0.98	0.45	0.00	0.00	
29	0.60	0.60	6.00	112.88	19.28	3.36	1.70	0.90	0.98	0.45		0.00	
30	0.60	0.60	24.00	103.60	16.40	2.80	1.70	0.90	0.90	0.45		0.00	
31		0.60		103.60	71.20		1.70		0.90	0.40		0.00	
Total	18.60	18.60	138.92	1141.64	605.96	440.04	128.42	74.02	43.63	18.85	4.04	0.00	2632.72	CMSDAY
Mean	0.62	0.60	4.63	36.83	19.55	14.67	4.14	2.47	1.41	0.61	0.14	0.00	7.21	CMS
Max	0.65	0.60	25.92	120.00	97.80	103.60	28.80	7.10	2.58	0.90	0.20	0.00	120.00	CMS
Min	0.60	0.60	0.60	4.20	1.70	2.80	1.70	0.65	0.85	0.40	0.00	0.00	0.00	CMS
Runoff	1.61	1.61	12.00	98.64	52.35	38.02	11.10	6.40	3.77	1.63	0.35	0.00	227.47	MCM

Momentary Peak 120.00 CMS. at 2.54 m. (A.D.) at 06.00 Hours , on Jul 28 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

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

Lat 15 - 40 - 15 N Long 100 - 06 - 49 E

Location : on left bank at Ban Phai Lom

Ban Phai Lom **Amphoe** Mueang **Changwat** Nakhon Sawan

Drainge Area	109,973 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 20.00 meters west of the gage site **Elevation** +25.628 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1914 to date
Rating Operation	
Period of Rating	1956 to date
Rated by Flot	-
Rated by Current Meter	1956 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 44 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

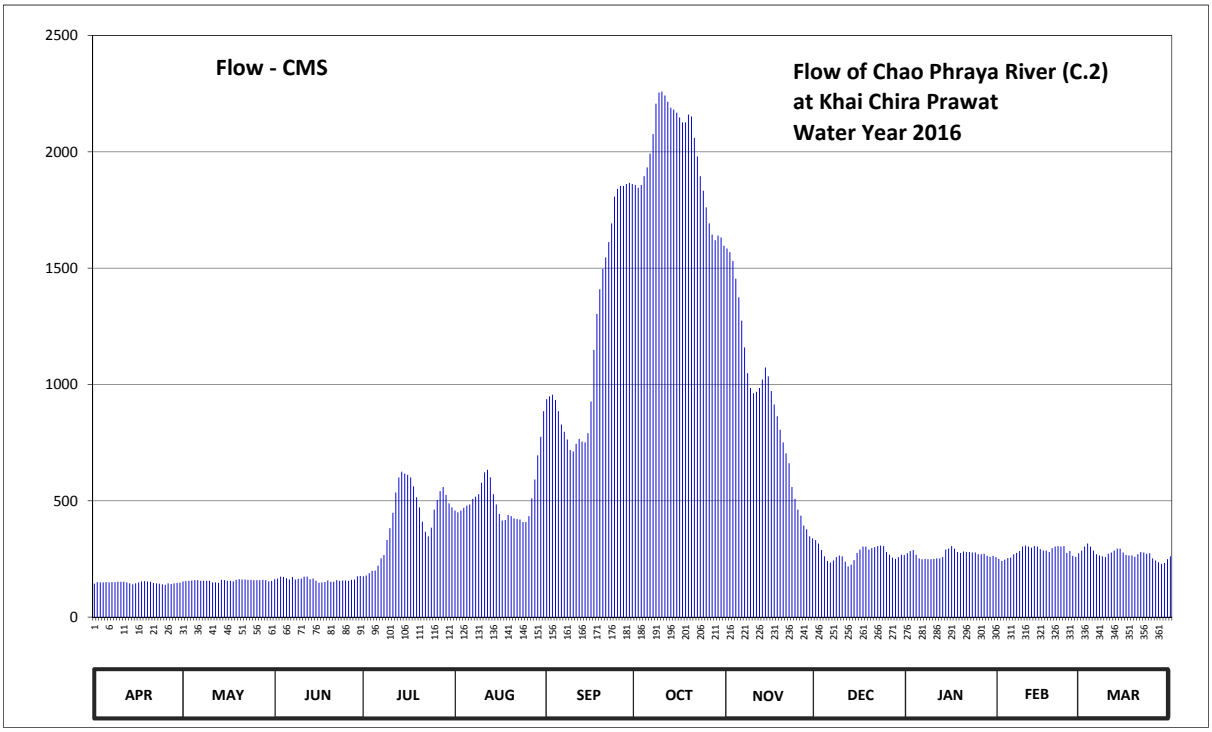
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.31	17.38	17.45	17.54	18.94	20.62	23.08	22.41	18.38	18.11	17.98	18.17	
2	17.36	17.39	17.47	17.56	18.91	20.66	23.05	22.37	18.31	18.16	17.93	18.25	
3	17.35	17.40	17.53	17.63	18.94	20.68	23.08	22.27	18.18	18.18	17.96	18.31	
4	17.35	17.41	17.52	17.69	18.99	20.61	23.17	22.07	18.04	18.08	18.00	18.25	
5	17.36	17.42	17.48	17.70	19.03	20.46	23.26	21.86	17.93	17.99	18.01	18.17	
6	17.35	17.42	17.44	17.82	19.05	20.28	23.40	21.59	17.89	17.97	18.09	18.09	
7	17.36	17.40	17.52	17.99	19.15	20.18	23.60	21.27	17.94	17.98	18.12	18.06	
8	17.36	17.40	17.44	18.07	19.19	20.07	23.91	20.96	18.02	17.97	18.16	18.04	
9	17.37	17.40	17.46	18.38	19.23	19.92	24.02	20.77	18.06	17.97	18.25	18.02	
10	17.37	17.40	17.47	18.61	19.42	19.90	24.03	20.70	18.04	17.98	18.27	18.10	
11	17.37	17.35	17.53	18.90	19.58	20.01	23.99	20.72	17.91	17.99	18.25	18.13	
12	17.35	17.35	17.53	19.26	19.62	20.08	23.93	20.77	17.80	17.99	18.23	18.17	
13	17.32	17.34	17.45	19.50	19.50	20.04	23.87	20.88	17.84	18.02	18.26	18.21	
14	17.29	17.43	17.47	19.59	19.23	20.03	23.85	21.03	17.95	18.19	18.25	18.21	
15	17.32	17.42	17.40	19.56	19.05	20.16	23.82	20.92	18.12	18.21	18.20	18.13	
16	17.35	17.40	17.34	19.54	18.88	20.59	23.77	20.73	18.19	18.26	18.17	18.07	
17	17.38	17.40	17.35	19.50	18.76	21.24	23.72	20.55	18.25	18.21	18.17	18.06	
18	17.39	17.38	17.36	19.36	18.77	21.67	23.72	20.39	18.25	18.14	18.14	18.06	
19	17.38	17.43	17.41	19.18	18.86	21.95	23.80	20.21	18.19	18.12	18.22	18.03	
20	17.37	17.45	17.37	19.00	18.84	22.18	23.78	20.03	18.22	18.15	18.25	18.09	
21	17.33	17.44	17.37	18.74	18.80	22.31	23.56	19.87	18.24	18.14	18.26	18.14	
22	17.32	17.44	17.42	18.54	18.79	22.48	23.37	19.72	18.26	18.14	18.25	18.13	
23	17.31	17.43	17.40	18.45	18.78	22.68	23.17	19.35	18.27	18.13	18.26	18.10	
24	17.29	17.43	17.41	18.62	18.73	22.96	23.02	19.15	18.26	18.13	18.12	18.11	
25	17.28	17.42	17.41	18.96	18.73	23.04	22.85	18.96	18.14	18.09	18.16	17.99	
26	17.32	17.42	17.40	19.13	18.84	23.07	22.68	18.85	18.08	18.09	18.05	17.94	
27	17.30	17.42	17.43	19.28	19.16	23.07	22.56	18.66	18.01	18.10	18.03	17.90	
28	17.32	17.43	17.44	19.35	19.47	23.09	22.50	18.59	17.98	18.05	18.11	17.86	
29	17.33	17.42	17.54	19.22	19.84	23.10	22.55	18.45	18.02	18.03		17.88	
30	17.34	17.38	17.55	19.07	20.11	23.09	22.53	18.41	18.08	18.05		17.97	
31		17.40		19.00	20.46		22.44		18.07	18.02		18.04	
Mean	17.34	17.41	17.45	18.73	19.15	21.34	23.36	20.42	18.09	18.09	18.15	18.09	
Max	17.39	17.45	17.55	19.59	20.46	23.10	24.03	22.41	18.38	18.26	18.27	18.31	24.03
Min	17.28	17.34	17.34	17.54	18.73	19.90	22.44	18.41	17.80	17.97	17.93	17.86	17.28

Annual Max Momentary Gage Height 24.03 m. (MSL.) , at 12.00 Hours , on Oct 9 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 13.33 m. (MSL.)

Left Bank Elevation 25.60 m. (MSL.) ,

Right Bank Elevation 26.46 m. (MSL.) , Drainage Are 109,973 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.40	153.20	163.00	175.60	457.60	936.40	1857.60	1584.00	331.60	274.00	250.40	286.00	
2	150.40	154.60	165.80	178.40	450.40	949.20	1845.00	1568.60	316.20	284.00	241.40	303.00	
3	149.00	156.00	174.20	188.80	457.60	955.60	1857.60	1530.60	288.00	288.00	246.80	316.20	
4	149.00	157.40	172.80	198.40	469.60	933.20	1895.40	1454.60	261.20	268.40	254.00	303.00	
5	150.40	158.80	167.20	200.00	479.20	885.20	1933.20	1374.80	241.40	252.20	255.80	286.00	
6	149.00	158.80	161.60	221.60	484.00	827.60	1992.00	1274.40	234.20	248.60	270.20	270.20	
7	150.40	156.00	172.80	252.20	508.00	796.00	2076.00	1159.20	243.20	250.40	276.00	264.80	
8	150.40	156.00	161.60	266.60	517.60	763.00	2206.40	1048.40	257.60	248.60	284.00	261.20	
9	151.80	156.00	164.40	331.60	527.80	718.00	2254.80	984.40	264.80	248.60	303.00	257.60	
10	151.80	156.00	165.80	382.20	577.60	712.00	2259.20	962.00	261.20	250.40	307.40	272.00	
11	151.80	149.00	174.20	448.00	622.40	745.00	2241.60	968.40	237.80	252.20	303.00	278.00	
12	149.00	149.00	174.20	535.60	633.60	766.00	2215.20	984.40	218.00	252.20	298.60	286.00	
13	144.80	147.60	163.00	600.00	600.00	754.00	2189.40	1021.20	225.20	257.60	305.20	294.20	
14	140.60	160.20	165.80	625.20	527.80	751.00	2181.00	1072.80	245.00	290.00	303.00	294.20	
15	144.80	158.80	156.00	616.80	484.00	790.00	2168.40	1034.80	276.00	294.20	292.00	278.00	
16	149.00	156.00	147.60	611.20	443.20	926.80	2147.40	971.60	290.00	305.20	286.00	266.60	
17	153.20	156.00	149.00	600.00	415.20	1148.40	2126.40	914.00	303.00	294.20	286.00	264.80	
18	154.60	153.20	150.40	561.60	417.40	1303.20	2126.40	862.80	303.00	280.00	280.00	264.80	
19	153.20	160.20	157.40	515.20	438.40	1409.00	2160.00	805.20	290.00	276.00	296.40	259.40	
20	151.80	163.00	151.80	472.00	433.60	1496.40	2151.60	751.00	296.40	282.00	303.00	270.20	
21	146.20	161.60	151.80	410.80	424.00	1545.80	2059.20	703.60	300.80	280.00	305.20	280.00	
22	144.80	161.60	158.80	366.80	421.80	1612.00	1979.40	661.60	305.20	280.00	303.00	278.00	
23	143.40	160.20	156.00	347.00	419.60	1692.00	1895.40	559.00	307.40	278.00	305.20	272.00	
24	140.60	160.20	157.40	384.40	408.60	1807.20	1832.40	508.00	305.20	278.00	276.00	274.00	
25	139.20	158.80	157.40	462.40	408.60	1840.80	1761.00	462.40	280.00	270.20	284.00	252.20	
26	144.80	158.80	156.00	503.20	433.60	1853.40	1692.00	436.00	268.40	270.20	263.00	243.20	
27	142.00	158.80	160.20	540.80	510.40	1853.40	1644.00	393.20	255.80	272.00	259.40	236.00	
28	144.80	160.20	161.60	559.00	591.60	1861.80	1620.00	377.80	250.40	263.00	274.00	228.80	
29	146.20	158.80	175.60	525.20	695.20	1866.00	1640.00	347.00	257.60	259.40		232.40	
30	147.60	153.20	177.00	488.80	775.00	1861.80	1632.00	338.20	268.40	263.00		248.60	
31		156.00		472.00	885.20		1596.00		266.60	257.60		261.20	
Total	4428.00	4864.00	4870.40	13041.40	15918.60	36360.20	61236.00	27114.00	8449.60	8368.20	7912.00	8382.60	200945.00	CMSDAY
Mean	147.60	156.90	162.35	420.69	513.50	1212.01	1975.35	903.80	272.57	269.94	282.57	270.41	550.53	CMS
Max	154.60	163.00	177.00	625.20	885.20	1866.00	2259.20	1584.00	331.60	305.20	307.40	316.20	2259.20	CMS
Min	139.20	147.60	147.60	175.60	408.60	712.00	1596.00	338.20	218.00	248.60	241.40	228.80	139.20	CMS
Runoff	382.58	420.25	420.8	1126.78	1375.37	3141.52	5290.79	2342.65	730.05	723.01	683.60	724.26	17361.65	MCM

Momentary Peak 2259.20 CMS. at 24.03 m. (MSL.) at 12.00 Hours , on Oct 9 , 2016

Runoff Yield 5.01 Liters/Second/Square KM. Momentary Peak Yield 20.540 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)

Lat 14 - 53 - 50 N Long 100 - 24 - 18 E

Location : on right bank at Ban Bang Phutsa

Ban Bang Phutsa **Amphoe** Mueang **Changwat** Sing Buri

Drainge Area	118,752 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the bridge **Elevation** +11.880 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1950 to date
Rating Operation	
Period of Rating	1950 to date
Rated by Flot	-
Rated by Current Meter	1950 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

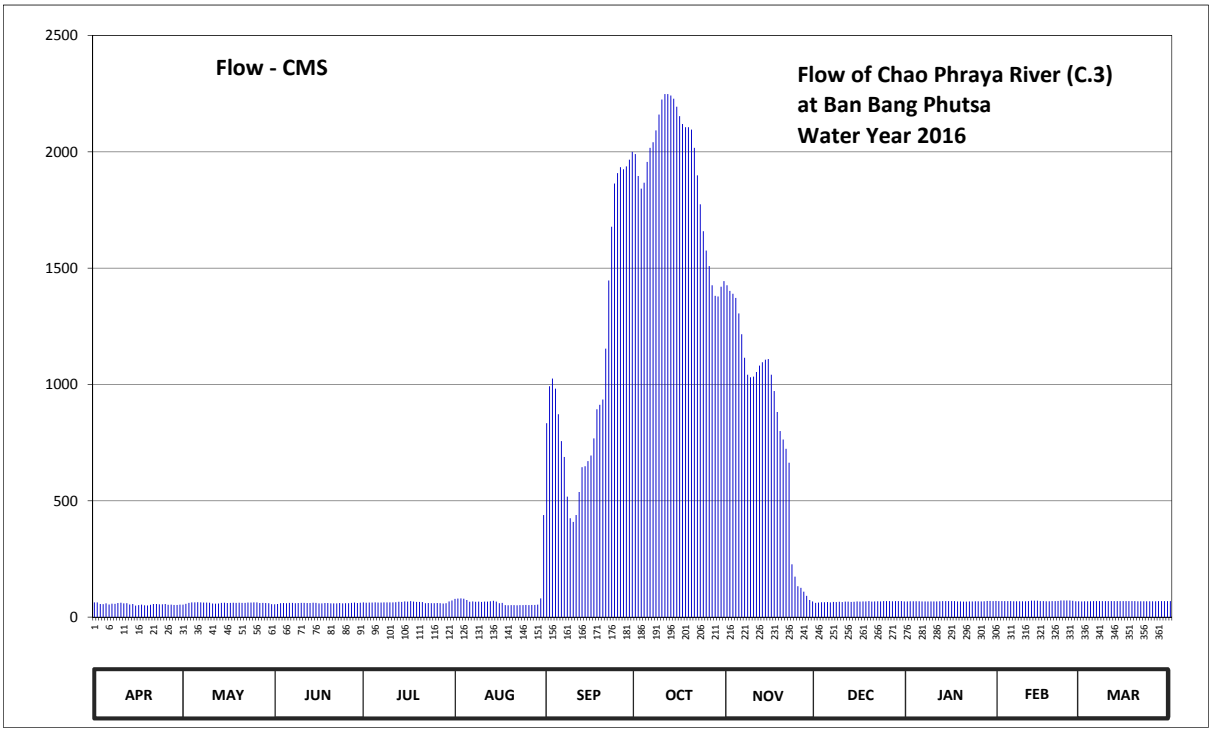
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	1.86	1.88	2.00	2.22	7.13	11.07	9.30	1.97	2.06	2.08	2.06	
2	2.00	1.91	1.90	1.98	2.24	7.77	10.78	9.22	1.99	2.07	2.08	2.07	
3	1.90	1.97	1.95	1.99	2.25	7.89	10.61	9.18	2.01	2.07	2.08	2.07	
4	1.89	2.00	1.96	1.99	2.23	7.73	10.69	9.12	2.01	2.07	2.08	2.07	
5	1.94	2.00	1.95	2.00	2.15	7.29	10.97	8.89	2.02	2.07	2.08	2.08	
6	1.87	2.01	1.97	1.99	2.04	6.81	11.15	8.57	2.00	2.06	2.07	2.08	
7	1.92	2.00	1.97	1.99	2.06	6.50	11.22	8.21	2.03	2.06	2.07	2.08	
8	1.91	1.99	1.95	2.00	2.04	5.67	11.37	7.95	2.02	2.06	2.07	2.08	
9	1.96	1.99	1.96	2.00	2.05	5.17	11.57	7.91	2.04	2.06	2.07	2.08	
10	1.98	1.98	1.97	2.00	2.03	5.08	11.76	7.92	2.02	2.06	2.07	2.08	
11	1.94	1.93	1.97	2.00	2.05	5.25	11.83	7.99	2.05	2.06	2.08	2.08	
12	1.95	1.92	1.96	2.01	2.05	5.77	11.83	8.09	2.05	2.07	2.11	2.08	
13	1.87	1.93	1.96	2.04	2.07	6.30	11.81	8.14	2.03	2.08	2.11	2.08	
14	1.90	1.97	1.98	2.03	2.10	6.32	11.77	8.18	2.04	2.08	2.11	2.08	
15	1.79	1.98	1.97	2.06	2.05	6.42	11.67	8.19	2.06	2.08	2.08	2.08	
16	1.82	1.96	1.94	2.05	1.95	6.53	11.55	7.95	2.05	2.08	2.08	2.08	
17	1.86	1.97	1.94	2.08	1.97	6.86	11.45	7.69	2.06	2.08	2.07	2.08	
18	1.81	1.98	1.96	2.05	1.83	7.38	11.41	7.33	2.06	2.06	2.07	2.08	
19	1.80	1.97	1.96	2.03	1.81	7.46	11.41	6.99	2.08	2.06	2.08	2.08	
20	1.85	1.98	1.94	2.03	1.82	7.55	11.38	6.84	2.05	2.05	2.08	2.07	
21	1.90	1.97	1.94	2.02	1.82	8.35	11.15	6.66	2.06	2.05	2.09	2.07	
22	1.90	1.97	1.94	1.95	1.81	9.37	10.79	6.39	2.07	2.06	2.12	2.07	
23	1.88	1.99	1.96	1.96	1.82	10.10	10.40	3.84	2.06	2.06	2.12	2.07	
24	1.88	1.99	1.94	1.95	1.82	10.68	10.04	3.34	2.08	2.07	2.12	2.07	
25	1.90	2.00	1.95	1.95	1.84	10.82	9.78	2.93	2.08	2.07	2.12	2.07	
26	1.85	2.00	1.95	1.96	1.83	10.90	9.57	2.86	2.08	2.06	2.10	2.07	
27	1.86	1.96	1.97	1.95	1.84	10.87	9.30	2.66	2.07	2.07	2.07	2.08	
28	1.84	1.97	1.99	1.93	1.84	10.91	9.15	2.41	2.08	2.09	2.07	2.08	
29	1.84	1.96	1.96	1.95	1.86	11.00	9.14	2.15	2.08	2.09		2.08	
30	1.86	1.95	1.98	2.06	2.25	11.10	9.28	2.06	2.08	2.08		2.08	
31		1.89		2.12	5.25		9.36		2.06	2.09		2.08	
Mean	1.89	1.97	1.95	2.00	2.10	7.90	10.81	6.63	2.05	2.07	2.09	2.08	
Max	2.00	2.01	1.99	2.12	5.25	11.10	11.83	9.30	2.08	2.09	2.12	2.08	11.83
Min	1.79	1.86	1.88	1.93	1.81	5.08	9.14	2.06	1.97	2.05	2.07	2.06	1.79

Annual Max Momentary Gage Height 11.84 m. (MSL.) , at 12.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.16 m. (MSL.)

Left Bank Elevation 13.41 m. (MSL.) ,

Right Bank Elevation 13.72 m. (MSL.) , Drainage Are 118,752 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.00	53.60	54.80	63.00	78.40	833.20	1989.80	1426.00	60.90	67.20	68.60	67.20	
2	63.00	56.70	56.00	61.60	79.80	992.20	1895.60	1402.00	62.30	67.90	68.60	67.90	
3	56.00	60.90	59.50	62.30	80.50	1025.20	1841.20	1390.00	63.70	67.90	68.60	67.90	
4	55.40	63.00	60.20	62.30	79.10	981.80	1866.80	1372.00	63.70	67.90	68.60	67.90	
5	58.80	63.00	59.50	63.00	73.50	871.60	1956.40	1305.20	64.40	67.90	68.60	68.60	
6	54.20	63.70	60.90	62.30	65.80	756.40	2017.00	1215.60	63.00	67.20	67.90	68.60	
7	57.40	63.00	60.90	62.30	67.20	688.00	2040.80	1114.80	65.10	67.20	67.90	68.60	
8	56.70	62.30	59.50	63.00	65.80	518.00	2091.80	1042.00	64.40	67.20	67.90	68.60	
9	60.20	62.30	60.20	63.00	66.50	424.60	2159.80	1030.80	65.80	67.20	67.90	68.60	
10	61.60	61.60	60.90	63.00	65.10	408.80	2224.40	1033.60	64.40	67.20	67.90	68.60	
11	58.80	58.10	60.90	63.00	66.50	439.00	2248.20	1053.20	66.50	67.20	68.60	68.60	
12	59.50	57.40	60.20	63.70	66.50	538.00	2248.20	1081.20	66.50	67.90	70.70	68.60	
13	54.20	58.10	60.20	65.80	67.90	644.00	2241.40	1095.20	65.10	68.60	70.70	68.60	
14	56.00	60.90	61.60	65.10	70.00	648.40	2227.80	1106.40	65.80	68.60	70.70	68.60	
15	49.50	61.60	60.90	67.20	66.50	670.40	2193.80	1109.20	67.20	68.60	68.60	68.60	
16	51.20	60.20	58.80	66.50	59.50	694.60	2153.00	1042.00	66.50	68.60	68.60	68.60	
17	53.60	60.90	58.80	68.60	60.90	768.40	2119.00	971.40	67.20	68.60	67.90	68.60	
18	50.60	61.60	60.20	66.50	51.80	893.20	2105.40	881.20	67.20	67.20	67.90	68.60	
19	50.00	60.90	60.20	65.10	50.60	912.40	2105.40	799.60	68.60	67.20	68.60	68.60	
20	53.00	61.60	58.80	65.10	51.20	935.00	2095.20	763.60	66.50	66.50	68.60	67.90	
21	56.00	60.90	58.80	64.40	51.20	1154.00	2017.00	723.20	67.20	66.50	69.30	67.90	
22	56.00	60.90	58.80	59.50	50.60	1447.00	1898.80	663.80	67.90	67.20	71.40	67.90	
23	54.80	62.30	60.20	60.20	51.20	1678.00	1774.00	226.80	67.20	67.20	71.40	67.90	
24	54.80	62.30	58.80	59.50	51.20	1863.60	1658.80	174.00	68.60	67.90	71.40	67.90	
25	56.00	63.00	59.50	59.50	52.40	1908.40	1575.60	133.00	68.60	67.90	71.40	67.90	
26	53.00	63.00	59.50	60.20	51.80	1934.00	1508.40	126.00	68.60	67.20	70.00	67.90	
27	53.60	60.20	60.90	59.50	52.40	1924.40	1426.00	109.20	67.90	67.90	67.90	68.60	
28	52.40	60.90	62.30	58.10	52.40	1937.20	1381.00	91.70	68.60	69.30	67.90	68.60	
29	52.40	60.20	60.20	59.50	53.60	1966.00	1378.00	73.50	68.60	69.30		68.60	
30	53.60	59.50	61.60	67.20	80.50	2000.00	1420.00	67.20	68.60	68.60		68.60	
31		55.40		71.40	439.00		1444.00		67.20	69.30		68.60	
Total	1665.30	1880.00	1793.60	1961.40	2319.40	32455.80	59302.60	24623.40	2053.80	2102.10	1934.10	2118.20	134209.70 CMSDAY
Mean	55.51	60.65	59.79	63.27	74.82	1081.86	1912.99	820.78	66.25	67.81	69.08	68.33	367.70 CMS
Max	63.00	63.70	62.30	71.40	439.00	2000.00	2248.20	1426.00	68.60	69.30	71.40	68.60	2248.20 CMS
Min	49.50	53.60	54.80	58.10	50.60	408.80	1378.00	67.20	60.90	66.50	67.90	67.20	49.50 CMS
Runoff	143.88	162.43	154.97	169.46	200.40	2804.18	5123.74	2127.46	177.45	181.62	167.11	183.01	11595.72 MCM

Momentary Peak 2251.60 CMS. at 11.84 m. (MSL.) at 12.00 Hours , on Oct 12 , 2016

Runoff Yield 3.10 Liters/Second/Square KM. Momentary Peak Yield 18.960 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

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

Lat 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaco

	Ban	Bang Keao	**Amphoe**	Mueang	**Changwat** Ang Thong
Drainge Area	Flood Plain				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the gage site				**Elevation** +8.633 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2006 to date				
Rating Operation					
Period of Rating	2006 to date				
Rated by Flot	-				
Rated by Current Meter	2006 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

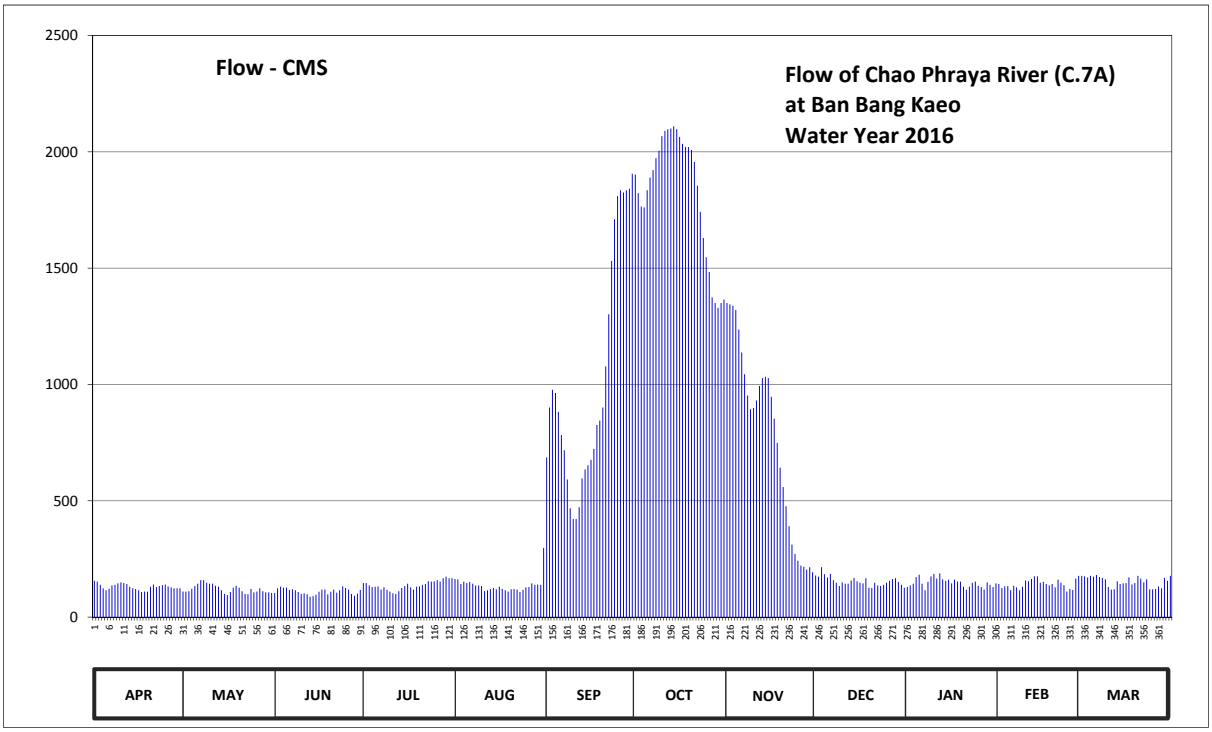
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.83	0.51	0.46	0.77	0.88	3.42	7.55	5.80	0.97	0.65	0.74	0.96	
2	0.81	0.50	0.61	0.77	0.87	4.23	7.30	5.78	0.94	0.70	0.62	0.95	
3	0.72	0.52	0.66	0.70	0.74	4.51	7.12	5.76	1.18	0.75	0.67	0.92	
4	0.61	0.60	0.63	0.65	0.81	4.46	7.11	5.70	1.00	0.93	0.68	0.96	
5	0.55	0.68	0.63	0.66	0.77	4.16	7.34	5.42	0.92	0.99	0.55	0.94	
6	0.60	0.75	0.56	0.67	0.80	3.79	7.51	5.08	1.01	0.75	0.69	0.98	
7	0.70	0.85	0.58	0.57	0.75	3.54	7.61	4.75	0.85	0.55	0.64	0.93	
8	0.72	0.85	0.55	0.64	0.70	3.04	7.77	4.42	0.78	0.80	0.55	0.91	
9	0.76	0.78	0.49	0.56	0.70	2.49	7.87	4.20	0.68	0.95	0.66	0.87	
10	0.79	0.75	0.43	0.51	0.68	2.28	8.06	4.22	0.79	1.01	0.84	0.65	
11	0.77	0.75	0.45	0.45	0.53	2.28	8.13	4.34	0.75	0.89	0.82	0.57	
12	0.74	0.69	0.42	0.43	0.55	2.51	8.15	4.57	0.75	1.02	0.88	0.58	
13	0.66	0.66	0.33	0.52	0.59	3.06	8.16	4.69	0.84	0.87	0.95	0.82	
14	0.61	0.55	0.35	0.62	0.62	3.22	8.19	4.71	0.91	0.83	0.95	0.74	
15	0.59	0.43	0.40	0.68	0.58	3.29	8.15	4.69	0.82	0.86	0.78	0.76	
16	0.55	0.39	0.50	0.75	0.66	3.38	8.05	4.40	0.78	0.76	0.80	0.77	
17	0.49	0.49	0.57	0.64	0.60	3.56	7.96	4.05	0.76	0.86	0.74	0.92	
18	0.51	0.63	0.57	0.57	0.55	3.95	7.92	3.66	0.90	0.81	0.70	0.73	
19	0.50	0.69	0.41	0.66	0.51	4.02	7.92	3.25	0.63	0.81	0.74	0.77	
20	0.66	0.63	0.50	0.67	0.58	4.23	7.88	2.90	0.62	0.66	0.64	0.96	
21	0.73	0.52	0.57	0.72	0.59	4.87	7.72	2.53	0.78	0.56	0.86	0.89	
22	0.65	0.43	0.47	0.74	0.57	5.64	7.40	2.13	0.70	0.66	0.78	0.79	
23	0.68	0.42	0.55	0.82	0.49	6.39	7.05	1.73	0.68	0.78	0.71	0.87	
24	0.71	0.59	0.67	0.81	0.56	6.95	6.70	1.51	0.72	0.81	0.51	0.58	
25	0.73	0.48	0.62	0.82	0.64	7.26	6.44	1.34	0.78	0.69	0.59	0.58	
26	0.67	0.51	0.57	0.85	0.65	7.34	6.24	1.22	0.83	0.65	0.56	0.59	
27	0.64	0.61	0.43	0.81	0.76	7.31	5.88	1.19	0.88	0.57	0.89	0.67	
28	0.61	0.52	0.36	0.90	0.72	7.34	5.80	1.12	0.90	0.79	0.96	0.61	
29	0.61	0.48	0.44	0.94	0.73	7.36	5.73	1.18	0.80	0.72		0.91	
30	0.61	0.48	0.56	0.90	0.72	7.56	5.80	1.05	0.72	0.65		0.83	
31		0.46		0.90	1.65		5.85		0.63	0.76		0.96	
Mean	0.66	0.59	0.51	0.70	0.70	4.58	7.30	3.58	0.82	0.78	0.73	0.81	
Max	0.83	0.85	0.67	0.94	1.65	7.56	8.19	5.80	1.18	1.02	0.96	0.98	8.19
Min	0.49	0.39	0.33	0.43	0.49	2.28	5.73	1.05	0.62	0.55	0.51	0.57	0.33

Annual Max Momentary Gage Height 8.22 m. (MSL.) , at 13.00 Hours , on Oct 14 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -6.89 m. (MSL.)

Left Bank Elevation 10.04 m. (MSL.) ,

Right Bank Elevation 9.98 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	155.80	110.30	103.80	146.50	163.80	686.20	1902.00	1350.00	178.90	129.00	142.00	177.20	
2	152.60	109.00	123.40	146.50	162.20	901.10	1822.00	1344.00	173.80	136.00	124.80	175.50	
3	139.00	111.60	130.40	136.00	142.00	976.80	1764.40	1338.00	214.60	143.50	131.80	170.40	
4	123.40	122.00	126.20	129.00	152.60	963.20	1761.20	1320.00	184.00	172.10	133.20	177.20	
5	115.50	133.20	126.20	130.40	146.50	882.20	1834.80	1236.00	170.40	182.30	115.50	173.80	
6	122.00	143.50	116.80	131.80	151.00	782.40	1889.20	1137.20	185.70	143.50	134.60	180.60	
7	136.00	159.00	119.40	118.10	143.50	717.40	1921.20	1044.00	159.00	115.50	127.60	172.10	
8	139.00	159.00	115.50	127.60	136.00	591.60	1972.40	952.40	148.00	151.00	115.50	168.70	
9	145.00	148.00	107.70	116.80	136.00	467.80	2004.40	893.00	133.20	175.50	130.40	162.20	
10	149.50	143.50	99.90	110.30	133.20	421.80	2066.80	898.40	149.50	185.70	157.40	129.00	
11	146.50	143.50	102.50	102.50	112.90	421.80	2089.90	930.80	143.50	165.40	154.20	118.10	
12	142.00	134.60	98.60	99.90	115.50	472.20	2096.50	993.60	143.50	187.40	163.80	119.40	
13	130.40	130.40	87.60	111.60	120.70	596.40	2099.80	1027.20	157.40	162.20	175.50	154.20	
14	123.40	115.50	90.00	124.80	124.80	635.00	2109.70	1032.80	168.70	155.80	175.50	142.00	
15	120.70	99.90	96.00	133.20	119.40	652.50	2096.50	1027.20	154.20	160.60	148.00	145.00	
16	115.50	94.80	109.00	143.50	130.40	675.80	2063.50	947.00	148.00	145.00	151.00	146.50	
17	107.70	107.70	118.10	127.60	122.00	722.60	2033.80	852.50	145.00	160.60	142.00	170.40	
18	110.30	126.20	118.10	118.10	115.50	825.50	2020.60	748.60	167.00	152.60	136.00	140.50	
19	109.00	134.60	97.30	130.40	110.30	844.40	2020.60	642.50	126.20	152.60	142.00	146.50	
20	130.40	126.20	109.00	131.80	119.40	901.10	2007.60	559.00	124.80	130.40	127.60	177.20	
21	140.50	111.60	118.10	139.00	120.70	1077.60	1956.40	476.60	148.00	116.80	160.60	165.40	
22	129.00	99.90	105.10	142.00	118.10	1302.00	1854.00	390.30	136.00	130.40	148.00	149.50	
23	133.20	98.60	115.50	154.20	107.70	1530.80	1742.00	311.70	133.20	148.00	137.50	162.20	
24	137.50	120.70	131.80	152.60	116.80	1710.00	1630.00	271.80	139.00	152.60	110.30	119.40	
25	140.50	106.40	124.80	154.20	127.60	1809.20	1546.80	241.80	148.00	134.60	120.70	119.40	
26	131.80	110.30	118.10	159.00	129.00	1834.80	1483.40	221.40	155.80	129.00	116.80	120.70	
27	127.60	123.40	99.90	152.60	145.00	1825.20	1374.00	216.30	163.80	118.10	165.40	131.80	
28	123.40	111.60	91.20	167.00	139.00	1834.80	1350.00	204.40	167.00	149.50	177.20	123.40	
29	123.40	106.40	101.20	173.80	140.50	1841.20	1329.00	214.60	151.00	139.00		168.70	
30	123.40	106.40	116.80	167.00	139.00	1905.20	1350.00	192.50	139.00	129.00		155.80	
31		103.80		167.00	297.00		1365.00		126.20	145.00		177.20	
Total	3924.00	3751.60	3318.00	4244.80	4238.10	30808.60	56557.50	23015.60	4782.40	4598.70	3964.90	4740.00	147944.20	CMSDAY
Mean	130.80	121.02	110.60	136.93	136.71	1026.95	1824.44	767.19	154.27	148.35	141.60	152.90	405.33	CMS
Max	155.80	159.00	131.80	173.80	297.00	1905.20	2109.70	1350.00	214.60	187.40	177.20	180.60	2109.70	CMS
Min	107.70	94.80	87.60	99.90	107.70	421.80	1329.00	192.50	124.80	115.50	110.30	118.10	87.60	CMS
Runoff	339.03	324.14	286.68	366.75	366.17	2661.86	4886.57	1988.55	413.20	397.33	342.57	409.54	12782.38	MCM

Momentary Peak 2119.60 CMS. at 8.22 m. (MSL.) at 13.00 Hours , on Oct 14 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

Ban Bang Luang **Amphoe** Sanphaya **Changwat** Chai Nat

Drainge Area 117,187 sq.km.

Type of Gage Water - stage recorder

Zero Gage at Bottom +0.000 m. (MSL.)

Bench Mark B.M.-H.D.

Location BM B.M.2 - on right bank about 400 meters from the B.M.1 **Elevation** +16.310 m. (MSL.)

Gage Reading Frequency Recording

Basis of Mean Daily Gage Height Arithmetic mean of 24 readings

Period of Available Gage Records 1947 to date

Rating Operation

Period of Rating 1953 - 1962, 1965 - 1968, 1972 - 1975 to date

Rated by Flot -

Rated by Current Meter 1953 - 1962, 1965 - 1968, 1972 - 1975 to date

Stability of Channel Regimes Fairly stable.

Overbank Flow Conditions No overbank flow.

General Description Records good. Flow regulated by Chao Phraya Dam above gage site.
Stage-discharge relation defined by 42 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

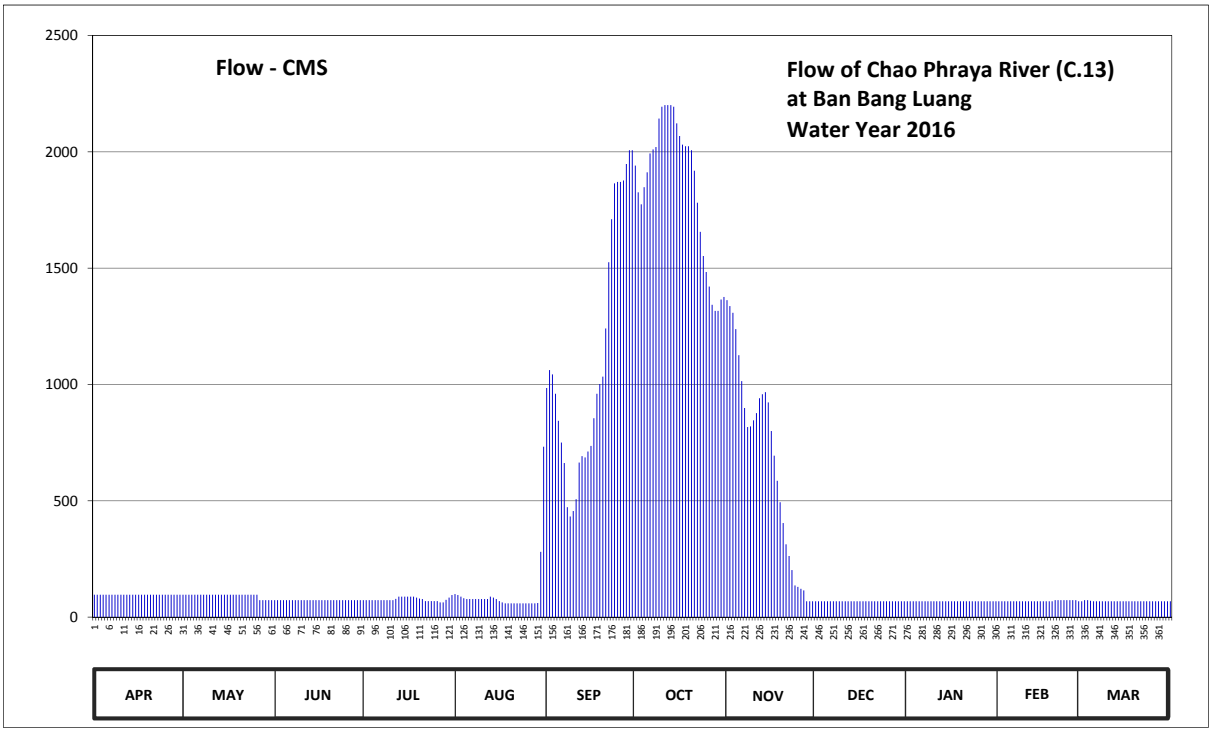
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.96	5.96	5.71	5.71	5.99	11.22	14.59	12.70	5.65	5.65	5.65	5.65	
2	5.96	5.96	5.71	5.71	5.95	11.55	14.23	12.61	5.65	5.65	5.65	5.71	
3	5.96	5.96	5.71	5.71	5.88	11.47	14.07	12.50	5.65	5.65	5.65	5.71	
4	5.96	5.96	5.71	5.71	5.81	11.11	14.30	12.23	5.65	5.65	5.65	5.68	
5	5.96	5.96	5.71	5.71	5.77	10.58	14.50	11.80	5.65	5.65	5.65	5.65	
6	5.96	5.96	5.71	5.71	5.77	10.14	14.75	11.35	5.65	5.65	5.65	5.65	
7	5.96	5.96	5.71	5.71	5.77	9.70	14.80	10.83	5.65	5.65	5.65	5.65	
8	5.96	5.96	5.71	5.71	5.77	8.68	14.83	10.46	5.65	5.65	5.65	5.65	
9	5.96	5.96	5.71	5.71	5.77	8.46	15.19	10.47	5.65	5.65	5.65	5.65	
10	5.96	5.96	5.71	5.71	5.77	8.59	15.34	10.59	5.65	5.65	5.65	5.65	
11	5.96	5.96	5.71	5.71	5.77	8.87	15.36	10.73	5.65	5.65	5.65	5.65	
12	5.96	5.96	5.71	5.78	5.77	9.71	15.36	11.02	5.65	5.65	5.65	5.65	
13	5.96	5.96	5.71	5.88	5.88	9.85	15.36	11.10	5.65	5.65	5.65	5.65	
14	5.96	5.96	5.71	5.88	5.84	9.82	15.34	11.14	5.65	5.65	5.65	5.65	
15	5.96	5.96	5.71	5.88	5.77	9.95	15.13	10.94	5.65	5.65	5.65	5.65	
16	5.96	5.96	5.71	5.88	5.66	10.07	14.97	10.38	5.65	5.65	5.65	5.65	
17	5.96	5.96	5.71	5.88	5.59	10.63	14.86	9.86	5.65	5.65	5.65	5.65	
18	5.96	5.96	5.71	5.88	5.54	11.11	14.84	9.31	5.65	5.65	5.65	5.65	
19	5.96	5.96	5.71	5.84	5.54	11.30	14.84	8.80	5.65	5.65	5.65	5.65	
20	5.96	5.96	5.71	5.80	5.54	11.43	14.79	8.30	5.65	5.65	5.71	5.65	
21	5.96	5.96	5.71	5.77	5.54	12.24	14.52	7.72	5.65	5.65	5.71	5.65	
22	5.96	5.96	5.71	5.66	5.54	13.27	14.09	7.36	5.65	5.65	5.71	5.65	
23	5.96	5.96	5.71	5.66	5.54	13.87	13.70	6.92	5.65	5.65	5.71	5.65	
24	5.96	5.96	5.71	5.66	5.54	14.35	13.36	6.36	5.65	5.65	5.71	5.65	
25	5.96	5.96	5.71	5.66	5.54	14.37	13.13	6.30	5.65	5.65	5.71	5.65	
26	5.96	5.96	5.71	5.66	5.54	14.37	12.91	6.22	5.65	5.65	5.71	5.65	
27	5.96	5.71	5.71	5.59	5.54	14.39	12.63	6.15	5.65	5.65	5.71	5.65	
28	5.96	5.71	5.71	5.59	5.54	14.61	12.53	5.65	5.65	5.65	5.65	5.65	
29	5.96	5.71	5.71	5.73	5.56	14.79	12.53	5.65	5.65	5.65		5.65	
30	5.96	5.71	5.71	5.84	7.49	14.79	12.71	5.65	5.65	5.65		5.65	
31		5.71		5.95	10.05		12.75		5.65	5.65		5.65	
Mean	5.96	5.92	5.71	5.75	5.89	11.51	14.27	9.37	5.65	5.65	5.67	5.65	
Max	5.96	5.96	5.71	5.95	10.05	14.79	15.36	12.70	5.65	5.65	5.71	5.71	15.36
Min	5.96	5.71	5.71	5.59	5.54	8.46	12.53	5.65	5.65	5.65	5.65	5.65	5.54

Annual Max Momentary Gage Height 15.36 m. (MSL.) , at 09.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.23 m. (MSL.)

Left Bank Elevation 16.78 m. (MSL.) ,

Right Bank Elevation 18.36 m. (MSL.) , Drainage Are 117,187 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	96.00	96.00	72.80	72.80	99.00	984.40	1940.80	1362.00	68.00	68.00	68.00	68.00	
2	96.00	96.00	72.80	72.80	95.00	1062.00	1825.60	1336.80	68.00	68.00	68.00	72.80	
3	96.00	96.00	72.80	72.80	88.00	1042.80	1774.40	1308.00	68.00	68.00	68.00	72.80	
4	96.00	96.00	72.80	72.80	81.00	960.20	1848.00	1237.80	68.00	68.00	68.00	70.40	
5	96.00	96.00	72.80	72.80	77.60	843.60	1912.00	1126.00	68.00	68.00	68.00	68.00	
6	96.00	96.00	72.80	72.80	77.60	750.00	1993.00	1014.00	68.00	68.00	68.00	68.00	
7	96.00	96.00	72.80	72.80	77.60	662.00	2010.00	898.60	68.00	68.00	68.00	68.00	
8	96.00	96.00	72.80	72.80	77.60	472.40	2020.20	817.20	68.00	68.00	68.00	68.00	
9	96.00	96.00	72.80	72.80	77.60	432.80	2142.60	819.40	68.00	68.00	68.00	68.00	
10	96.00	96.00	72.80	72.80	77.60	456.20	2193.60	845.80	68.00	68.00	68.00	68.00	
11	96.00	96.00	72.80	72.80	77.60	506.60	2200.40	876.60	68.00	68.00	68.00	68.00	
12	96.00	96.00	72.80	78.40	77.60	664.00	2200.40	940.40	68.00	68.00	68.00	68.00	
13	96.00	96.00	72.80	88.00	88.00	692.00	2200.40	958.00	68.00	68.00	68.00	68.00	
14	96.00	96.00	72.80	88.00	84.00	686.00	2193.60	966.80	68.00	68.00	68.00	68.00	
15	96.00	96.00	72.80	88.00	77.60	712.00	2122.20	922.80	68.00	68.00	68.00	68.00	
16	96.00	96.00	72.80	88.00	68.80	736.00	2067.80	799.60	68.00	68.00	68.00	68.00	
17	96.00	96.00	72.80	88.00	63.20	854.60	2030.40	694.00	68.00	68.00	68.00	68.00	
18	96.00	96.00	72.80	88.00	59.20	960.20	2023.60	585.80	68.00	68.00	68.00	68.00	
19	96.00	96.00	72.80	84.00	59.20	1002.00	2023.60	494.00	68.00	68.00	68.00	68.00	
20	96.00	96.00	72.80	80.00	59.20	1033.20	2006.60	404.00	68.00	68.00	72.80	68.00	
21	96.00	96.00	72.80	77.60	59.20	1240.40	1918.40	312.80	68.00	68.00	72.80	68.00	
22	96.00	96.00	72.80	68.80	59.20	1525.00	1780.80	262.40	68.00	68.00	72.80	68.00	
23	96.00	96.00	72.80	68.80	59.20	1710.40	1656.00	202.40	68.00	68.00	72.80	68.00	
24	96.00	96.00	72.80	68.80	59.20	1864.00	1552.00	136.00	68.00	68.00	72.80	68.00	
25	96.00	96.00	72.80	68.80	59.20	1870.40	1483.00	130.00	68.00	68.00	72.80	68.00	
26	96.00	96.00	72.80	68.80	59.20	1870.40	1420.80	122.00	68.00	68.00	72.80	68.00	
27	96.00	72.80	72.80	63.20	59.20	1876.80	1342.40	115.00	68.00	68.00	72.80	68.00	
28	96.00	72.80	72.80	63.20	59.20	1947.20	1315.80	68.00	68.00	68.00	68.00	68.00	
29	96.00	72.80	72.80	74.40	60.80	2006.60	1315.80	68.00	68.00	68.00		68.00	
30	96.00	72.80	72.80	84.00	280.60	2006.60	1364.80	68.00	68.00	68.00		68.00	
31		72.80		95.00	732.00		1376.00		68.00	68.00		68.00	
Total	2880.00	2860.00	2184.00	2372.60	3090.00	33430.80	57255.00	19892.20	2108.00	2108.00	1942.40	2120.00	132243.00 CMSDAY
Mean	96.00	92.26	72.80	76.54	99.68	1114.36	1846.94	663.07	68.00	68.00	69.37	68.39	362.31 CMS
Max	96.00	96.00	72.80	95.00	732.00	2006.60	2200.40	1362.00	68.00	68.00	72.80	72.80	2200.40 CMS
Min	96.00	72.80	72.80	63.20	59.20	432.80	1315.80	68.00	68.00	68.00	68.00	68.00	59.20 CMS
Runoff	248.83	247.10	188.70	204.99	266.98	2888.42	4946.83	1718.69	182.13	182.13	167.82	183.17	11425.80 MCM

Momentary Peak 2200.40 CMS. at 15.36 m. (MSL.) at 09.00 Hours , on Oct 10 , 2016

Runoff Yield 3.09 Liters/Second/Square KM. Momentary Peak Yield 18.780 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

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

Lat 15 - 20 - 53 N Long 99 - 32 - 11 E

Location : on right bank in front of Wat Samo Thong School

	Ban Samo Thong	**Amphoe** Huai Khot	**Changwat** Uthai Thani
Drainge Area	227 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 60 meters from the top staff gage	**Elevation**	+111.590 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1982 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

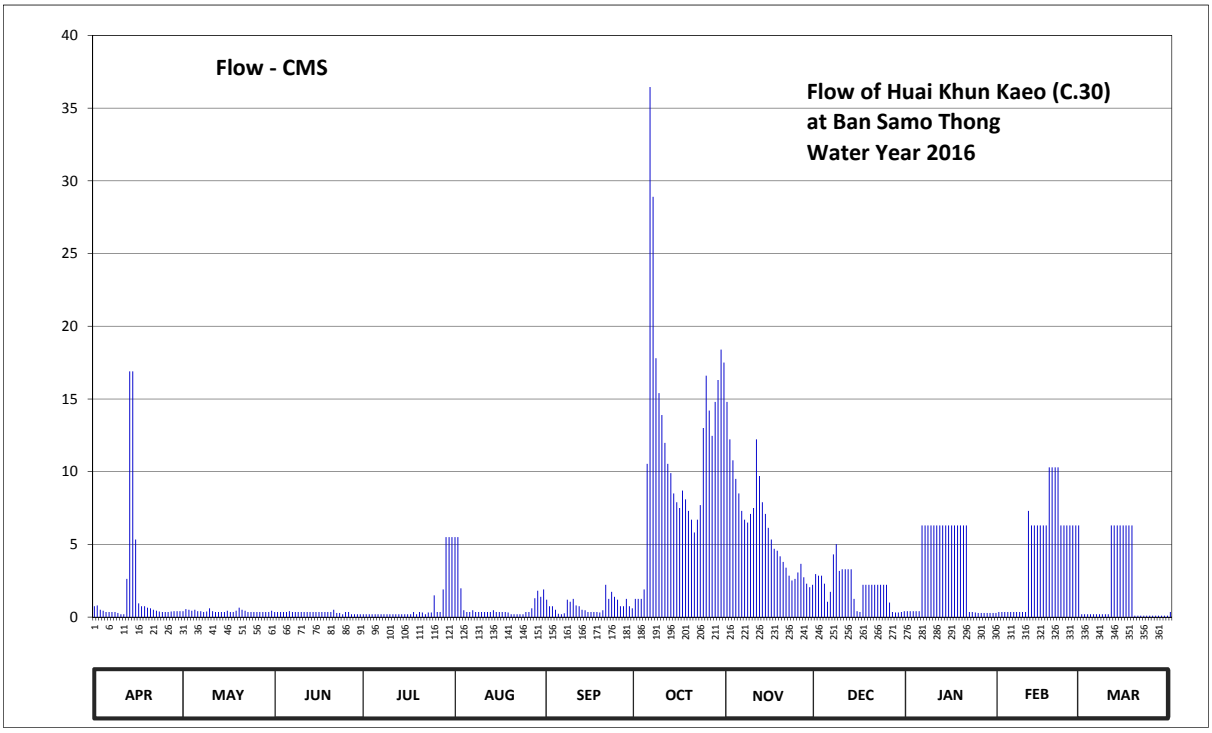
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.65	101.57	101.55	101.50	102.15	101.74	101.75	102.57	101.96	101.57	101.55	101.50	
2	101.66	101.61	101.55	101.50	102.15	101.65	101.75	102.48	101.95	101.57	101.55	101.50	
3	101.60	101.60	101.55	101.50	101.86	101.65	101.75	102.42	101.95	101.57	101.55	101.50	
4	101.58	101.58	101.55	101.50	101.59	101.60	101.85	102.36	101.90	101.57	101.55	101.50	
5	101.55	101.60	101.55	101.50	101.55	101.51	102.41	102.31	101.71	101.57	101.55	101.50	
6	101.55	101.57	101.57	101.50	101.55	101.50	103.15	102.25	101.83	102.20	101.55	101.50	
7	101.55	101.57	101.55	101.50	101.59	101.52	102.98	102.22	102.07	102.20	101.55	101.50	
8	101.55	101.55	101.55	101.50	101.55	101.74	102.67	102.21	102.12	102.20	101.55	101.50	
9	101.53	101.56	101.55	101.50	101.55	101.71	102.59	102.24	101.98	102.20	101.55	101.50	
10	101.50	101.62	101.55	101.50	101.55	101.75	102.54	102.26	101.99	102.20	101.55	101.50	
11	101.50	101.57	101.55	101.50	101.55	101.66	102.47	102.48	101.99	102.20	102.25	102.20	
12	101.93	101.55	101.55	101.50	101.55	101.65	102.41	102.37	101.99	102.20	102.20	102.20	
13	102.64	101.55	101.55	101.50	101.55	101.60	102.38	102.28	101.99	102.20	102.20	102.20	
14	102.64	101.55	101.55	101.50	101.59	101.59	102.31	102.24	101.75	102.20	102.20	102.20	
15	102.14	101.55	101.55	101.50	101.55	101.55	102.28	102.19	101.57	102.20	102.20	102.20	
16	101.69	101.58	101.55	101.50	101.55	101.55	102.26	102.14	101.55	102.20	102.20	102.20	
17	101.65	101.55	101.55	101.50	101.55	101.55	102.32	102.10	101.89	102.20	102.20	102.20	
18	101.65	101.55	101.55	101.55	101.55	101.55	102.29	102.09	101.89	102.20	102.40	102.20	
19	101.63	101.58	101.55	101.50	101.54	101.54	102.25	102.06	101.89	102.20	102.40	101.45	
20	101.62	101.63	101.55	101.55	101.50	101.59	102.22	102.03	101.89	102.20	102.40	101.45	
21	101.60	101.60	101.60	101.54	101.50	101.89	102.17	102.00	101.89	102.20	102.40	101.45	
22	101.58	101.58	101.53	101.50	101.50	101.75	102.22	101.95	101.89	101.55	102.20	101.45	
23	101.56	101.55	101.53	101.54	101.50	101.83	102.27	101.92	101.89	101.55	102.20	101.45	
24	101.55	101.55	101.50	101.54	101.50	101.78	102.51	101.93	101.89	101.54	102.20	101.45	
25	101.55	101.55	101.55	101.80	101.55	101.74	102.63	101.97	101.89	101.53	102.20	101.45	
26	101.55	101.55	101.55	101.55	101.55	101.65	102.55	102.02	101.70	101.53	102.20	101.45	
27	101.56	101.55	101.50	101.55	101.62	101.65	102.49	101.94	101.55	101.53	102.20	101.45	
28	101.57	101.55	101.50	101.85	101.76	101.75	102.57	101.90	101.54	101.53	102.20	101.45	
29	101.57	101.55	101.50	102.15	101.84	101.65	102.62	101.87	101.54	101.53		101.45	
30	101.57	101.55	101.50	102.15	101.78	101.62	102.69	101.89	101.55	101.53		101.45	
31		101.58		102.15	101.85		102.66		101.57	101.53		101.55	
Mean	101.68	101.57	101.54	101.59	101.63	101.65	102.39	102.16	101.83	101.88	102.00	101.66	
Max	102.64	101.63	101.60	102.15	102.15	101.89	103.15	102.57	102.12	102.20	102.40	102.20	103.15
Min	101.50	101.55	101.50	101.50	101.50	101.50	101.75	101.87	101.54	101.53	101.55	101.45	101.45

Annual Max Momentary Gage Height 103.20 m. (MSL.) , at 18.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 101.32 m. (MSL.)

Left Bank Elevation 108.30 m. (MSL.) ,

Right Bank Elevation 108.34 m. (MSL.) , Drainage Are 227 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	0.41	0.35	0.20	5.50	1.20	1.25	14.80	2.96	0.41	0.35	0.20		
2	0.80	0.55	0.35	0.20	5.50	0.75	1.25	12.22	2.85	0.41	0.35	0.20		
3	0.50	0.50	0.35	0.20	1.98	0.75	1.25	10.78	2.85	0.41	0.35	0.20		
4	0.44	0.44	0.35	0.20	0.47	0.50	1.90	9.50	2.30	0.41	0.35	0.20		
5	0.35	0.50	0.35	0.20	0.35	0.23	10.54	8.50	1.05	0.41	0.35	0.20		
6	0.35	0.41	0.41	0.20	0.35	0.20	36.45	7.30	1.74	6.30	0.35	0.20		
7	0.35	0.41	0.35	0.20	0.47	0.26	28.90	6.70	4.31	6.30	0.35	0.20		
8	0.35	0.35	0.35	0.20	0.35	1.20	17.80	6.50	5.02	6.30	0.35	0.20		
9	0.29	0.38	0.35	0.20	0.35	1.05	15.40	7.10	3.18	6.30	0.35	0.20		
10	0.20	0.60	0.35	0.20	0.35	1.25	13.90	7.50	3.29	6.30	0.35	0.20		
11	0.20	0.41	0.35	0.20	0.35	0.80	11.98	12.22	3.29	6.30	7.30	6.30		
12	2.63	0.35	0.35	0.20	0.35	0.75	10.54	9.70	3.29	6.30	6.30	6.30		
13	16.90	0.35	0.35	0.20	0.35	0.50	9.90	7.90	3.29	6.30	6.30	6.30		
14	16.90	0.35	0.35	0.20	0.47	0.47	8.50	7.10	1.25	6.30	6.30	6.30		
15	5.34	0.35	0.35	0.20	0.35	0.35	7.90	6.14	0.41	6.30	6.30	6.30		
16	0.95	0.44	0.35	0.20	0.35	0.35	7.50	5.34	0.35	6.30	6.30	6.30		
17	0.75	0.35	0.35	0.20	0.35	0.35	8.70	4.70	2.22	6.30	6.30	6.30		
18	0.75	0.35	0.35	0.35	0.35	0.35	8.10	4.57	2.22	6.30	10.30	6.30		
19	0.65	0.44	0.35	0.20	0.32	0.32	7.30	4.18	2.22	6.30	10.30	0.10		
20	0.60	0.65	0.35	0.35	0.20	0.47	6.70	3.79	2.22	6.30	10.30	0.10		
21	0.50	0.50	0.50	0.32	0.20	2.22	5.82	3.40	2.22	6.30	10.30	0.10		
22	0.44	0.44	0.29	0.20	0.20	1.25	6.70	2.85	2.22	0.35	6.30	0.10		
23	0.38	0.35	0.29	0.32	0.20	1.74	7.70	2.52	2.22	0.35	6.30	0.10		
24	0.35	0.35	0.20	0.32	0.20	1.40	13.00	2.63	2.22	0.32	6.30	0.10		
25	0.35	0.35	0.35	1.50	0.35	1.20	16.60	3.07	2.22	0.29	6.30	0.10		
26	0.35	0.35	0.35	0.35	0.35	0.75	14.20	3.66	1.00	0.29	6.30	0.10		
27	0.38	0.35	0.20	0.35	0.60	0.75	12.46	2.74	0.35	0.29	6.30	0.10		
28	0.41	0.35	0.20	1.90	1.30	1.25	14.80	2.30	0.32	0.29	6.30	0.10		
29	0.41	0.35	0.20	5.50	1.82	0.75	16.30	2.06	0.32	0.29		0.10		
30	0.41	0.35	0.20	5.50	1.40	0.60	18.40	2.22	0.35	0.29		0.10		
31		0.44		5.50	1.90		17.50		0.41	0.29		0.35		
Total	54.03	12.77	9.84	26.06	27.63	24.01	359.24	183.99	64.16	105.90	133.90	53.95	1055.48	CMSDAY
Mean	1.80	0.41	0.33	0.84	0.89	0.80	11.59	6.13	2.07	3.42	4.78	1.74	2.89	CMS
Max	16.90	0.65	0.50	5.50	5.50	2.22	36.45	14.80	5.02	6.30	10.30	6.30	36.45	CMS
Min	0.20	0.35	0.20	0.20	0.20	0.20	1.25	2.06	0.32	0.29	0.35	0.10	0.10	CMS
Runoff	4.67	1.10	0.85	2.25	2.39	2.07	31.04	15.90	5.54	9.15	11.57	4.66	91.19	MCM

Momentary Peak 38.70 CMS. at 103.20 m. (MSL.) at 18.00 Hours , on Oct 6 , 2016

Runoff Yield 12.74 Liters/Second/Square KM. Momentary Peak Yield 170.480 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya (C.35)

Lat 14 - 22 - 02 N Long 100 - 31 - 58 E

Location : on right bank at Ban Pom

Ban Pom **Amphoe** Phra Nakhon Si Ayutthaya **Changwat** Phra Nakhon Si Ayutthaya

Drainge Area	Flood Plain
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +6.300 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

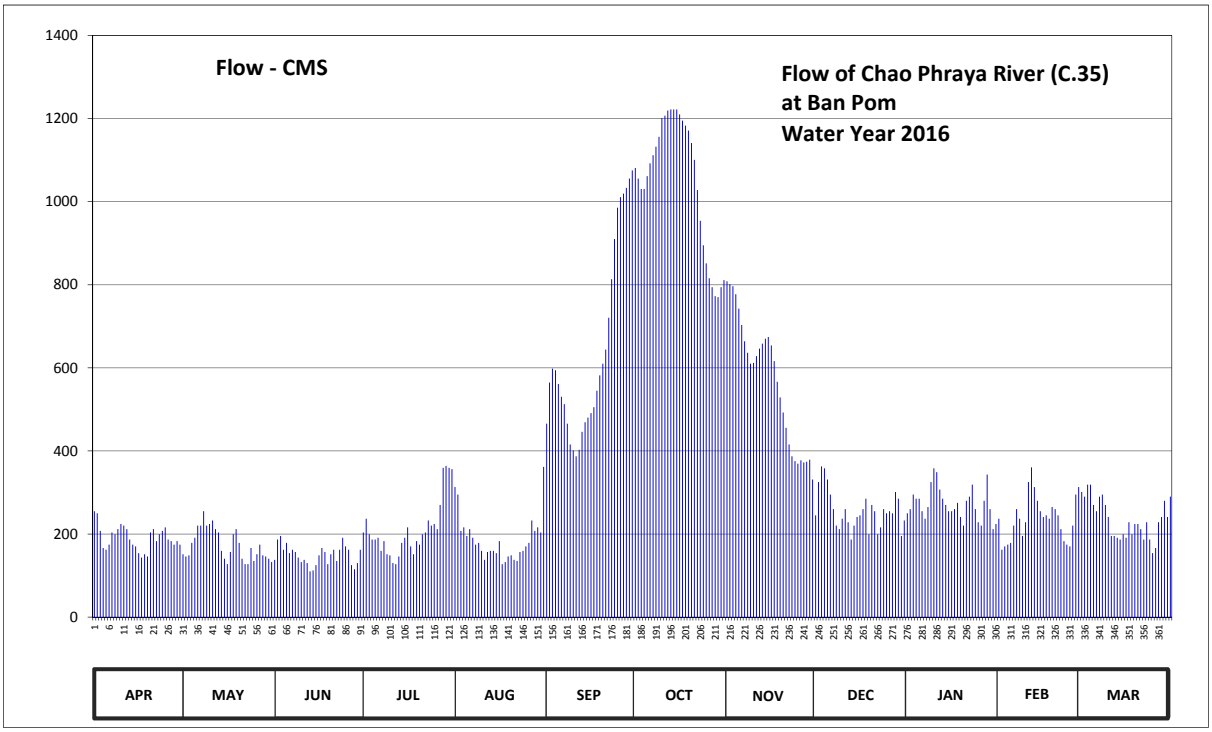
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.46	0.41	0.60	0.83	1.62	4.36	3.31	0.70	0.71	0.68	0.81	
2	0.71	0.44	0.56	0.68	0.80	2.17	4.27	3.28	0.85	0.73	0.50	0.79	
3	0.61	0.45	0.58	0.59	0.61	2.34	4.18	3.26	0.97	0.80	0.52	0.84	
4	0.51	0.54	0.50	0.56	0.63	2.32	4.18	3.18	0.93	0.78	0.53	0.84	
5	0.50	0.57	0.54	0.56	0.58	2.15	4.29	3.03	0.86	0.78	0.54	0.75	
6	0.53	0.64	0.47	0.57	0.62	1.98	4.40	2.85	0.80	0.72	0.64	0.72	
7	0.60	0.64	0.50	0.49	0.57	1.88	4.47	2.67	0.73	0.68	0.73	0.79	
8	0.59	0.72	0.48	0.55	0.53	1.62	4.54	2.53	0.64	0.74	0.68	0.80	
9	0.62	0.64	0.43	0.46	0.54	1.31	4.62	2.40	0.62	0.85	0.58	0.75	
10	0.65	0.65	0.39	0.45	0.49	1.22	4.77	2.41	0.68	0.93	0.66	0.69	
11	0.64	0.67	0.41	0.38	0.41	1.13	4.79	2.49	0.73	0.89	0.85	0.58	
12	0.62	0.62	0.38	0.37	0.48	1.23	4.83	2.58	0.66	0.82	0.95	0.58	
13	0.56	0.60	0.30	0.44	0.49	1.50	4.84	2.64	0.56	0.78	0.83	0.57	
14	0.53	0.49	0.31	0.54	0.49	1.64	4.84	2.70	0.64	0.75	0.77	0.56	
15	0.52	0.42	0.36	0.57	0.47	1.70	4.84	2.72	0.69	0.72	0.72	0.59	
16	0.47	0.37	0.45	0.63	0.55	1.76	4.80	2.62	0.70	0.72	0.69	0.57	
17	0.43	0.48	0.51	0.52	0.37	1.84	4.75	2.43	0.73	0.73	0.70	0.66	
18	0.46	0.59	0.48	0.46	0.39	2.06	4.71	2.18	0.78	0.76	0.68	0.59	
19	0.44	0.62	0.37	0.55	0.44	2.26	4.67	1.97	0.59	0.69	0.74	0.65	
20	0.60	0.54	0.46	0.53	0.45	2.40	4.57	1.77	0.75	0.64	0.73	0.65	
21	0.62	0.42	0.50	0.59	0.41	2.57	4.43	1.56	0.72	0.77	0.70	0.62	
22	0.55	0.37	0.40	0.60	0.40	2.93	4.17	1.31	0.59	0.79	0.62	0.56	
23	0.59	0.37	0.50	0.67	0.48	3.33	3.90	1.13	0.63	0.84	0.55	0.66	
24	0.61	0.51	0.57	0.64	0.49	3.73	3.67	1.06	0.73	0.73	0.53	0.56	
25	0.63	0.40	0.52	0.65	0.52	4.02	3.49	1.02	0.71	0.66	0.52	0.47	
26	0.56	0.46	0.50	0.62	0.54	4.11	3.34	1.07	0.72	0.64	0.64	0.51	
27	0.55	0.53	0.36	0.75	0.67	4.14	3.25	1.04	0.71	0.77	0.80	0.66	
28	0.53	0.45	0.32	0.94	0.61	4.19	3.16	1.05	0.81	0.88	0.83	0.69	
29	0.55	0.44	0.38	0.98	0.63	4.27	3.15	1.08	0.78	0.73		0.77	
30	0.53	0.42	0.50	0.94	0.60	4.34	3.25	0.86	0.58	0.62		0.69	
31		0.39		0.91	0.96		3.32		0.67	0.65		0.79	
Mean	0.57	0.51	0.45	0.61	0.55	2.46	4.22	2.14	0.72	0.75	0.68	0.67	
Max	0.72	0.72	0.58	0.98	0.96	4.34	4.84	3.31	0.97	0.93	0.95	0.84	4.84
Min	0.43	0.37	0.30	0.37	0.37	1.13	3.15	0.86	0.56	0.62	0.50	0.47	0.30

Annual Max Momentary Gage Height 4.85 m. (MSL.) , at 22.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -7.67 m. (MSL.)

Left Bank Elevation 5.29 m. (MSL.) ,

Right Bank Elevation 6.76 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	255.00	151.20	137.70	203.50	313.00	465.60	1080.80	808.40	245.00	250.00	236.70	301.00	
2	250.00	145.80	186.90	236.70	295.00	564.60	1055.60	801.20	325.00	260.00	162.00	290.00	
3	207.65	148.50	195.20	199.35	207.65	598.00	1030.40	796.40	362.70	295.00	170.30	319.00	
4	166.15	178.60	162.00	186.90	215.95	594.00	1030.40	777.20	358.30	285.00	174.45	319.00	
5	162.00	191.05	178.60	186.90	195.20	561.00	1061.20	742.60	331.00	285.00	178.60	270.00	
6	174.45	220.10	153.90	191.05	211.80	530.40	1092.00	703.00	295.00	255.00	220.10	255.00	
7	203.50	220.10	162.00	159.30	191.05	512.40	1111.60	664.00	260.00	236.70	260.00	290.00	
8	199.35	255.00	156.60	182.75	174.45	465.60	1132.00	636.00	220.10	265.00	236.70	295.00	
9	211.80	220.10	143.10	151.20	178.60	415.60	1156.00	610.00	211.80	325.00	195.20	270.00	
10	224.25	224.25	132.50	148.50	159.30	401.20	1201.00	612.00	236.70	358.30	228.40	240.85	
11	220.10	232.55	137.70	130.00	137.70	386.80	1207.00	628.00	260.00	349.00	325.00	195.20	
12	211.80	211.80	130.00	127.50	156.60	402.80	1219.00	646.00	228.40	307.00	360.50	195.20	
13	186.90	203.50	110.00	145.80	159.30	446.00	1222.00	658.00	186.90	285.00	313.00	191.05	
14	174.45	159.30	112.50	178.60	159.30	469.20	1222.00	670.00	220.10	270.00	280.00	186.90	
15	170.30	140.40	125.00	191.05	153.90	480.00	1222.00	674.40	240.85	255.00	255.00	199.35	
16	153.90	127.50	148.50	215.95	182.75	490.80	1210.00	654.00	245.00	255.00	240.85	191.05	
17	143.10	156.60	166.15	170.30	127.50	505.20	1195.00	616.00	260.00	260.00	245.00	228.40	
18	151.20	199.35	156.60	151.20	132.50	544.80	1183.00	566.40	285.00	275.00	236.70	199.35	
19	145.80	211.80	127.50	182.75	145.80	582.00	1171.00	528.60	199.35	240.85	265.00	224.25	
20	203.50	178.60	151.20	174.45	148.50	610.00	1141.00	492.60	270.00	220.10	260.00	224.25	
21	211.80	140.40	162.00	199.35	137.70	644.00	1100.40	455.60	255.00	280.00	245.00	211.80	
22	182.75	127.50	135.00	203.50	135.00	720.60	1027.60	415.60	199.35	290.00	211.80	186.90	
23	199.35	127.50	162.00	232.55	156.60	813.20	954.00	386.80	215.95	319.00	182.75	228.40	
24	207.65	166.15	191.05	220.10	159.30	909.80	894.80	375.60	260.00	260.00	174.45	186.90	
25	215.95	135.00	170.30	224.25	170.30	985.60	851.60	369.20	250.00	228.40	170.30	153.90	
26	186.90	151.20	162.00	211.80	178.60	1010.80	815.60	377.20	255.00	220.10	220.10	166.15	
27	182.75	174.45	125.00	270.00	232.55	1019.20	794.00	372.40	250.00	280.00	295.00	228.40	
28	174.45	148.50	115.00	359.40	207.65	1033.20	772.40	374.00	301.00	343.00	313.00	240.85	
29	182.75	145.80	130.00	363.80	215.95	1055.60	770.00	378.80	285.00	260.00		280.00	
30	174.45	140.40	162.00	359.40	203.50	1075.20	794.00	331.00	195.20	211.80		240.85	
31		132.50		356.10	361.60		810.80		232.55	224.25		290.00	
Total	5734.00	5365.50	4488.00	6514.00	5804.60	19293.20	32528.20	17121.00	7940.25	8448.50	6655.90	7299.00	127192.15 CMSDAY
Mean	191.13	173.08	149.60	210.13	187.25	643.11	1049.30	570.70	256.14	272.53	237.71	235.45	348.47 CMS
Max	255.00	255.00	195.20	363.80	361.60	1075.20	1222.00	808.40	362.70	358.30	360.50	319.00	1222.00 CMS
Min	143.10	127.50	110.00	127.50	127.50	386.80	770.00	331.00	186.90	211.80	162.00	153.90	110.00 CMS
Runoff	495.42	463.58	387.76	562.81	501.52	1666.93	2810.44	1479.25	686.04	729.95	575.07	630.63	10989.40 MCM

Momentary Peak 1225.00 CMS. at 4.85 m. (MSL.) at 22.00 Hours , on Oct 12 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Khlong Bang Luang at Ban Bang Luang Dod, Phra Nakhon Si Ayutthaya (C.36)

Lat 14 - 24 - 50 N Long 100 - 26 - 37 E

Location : on right bank at the bridge.

Ban Bang Luang Dod **Amphoe** Bang Ban **Changwat** Phra Nakhon Si Ayutthaya

Drainge Area	Flood Plain
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the top staff gage **Elevation** +7.500 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Flot	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

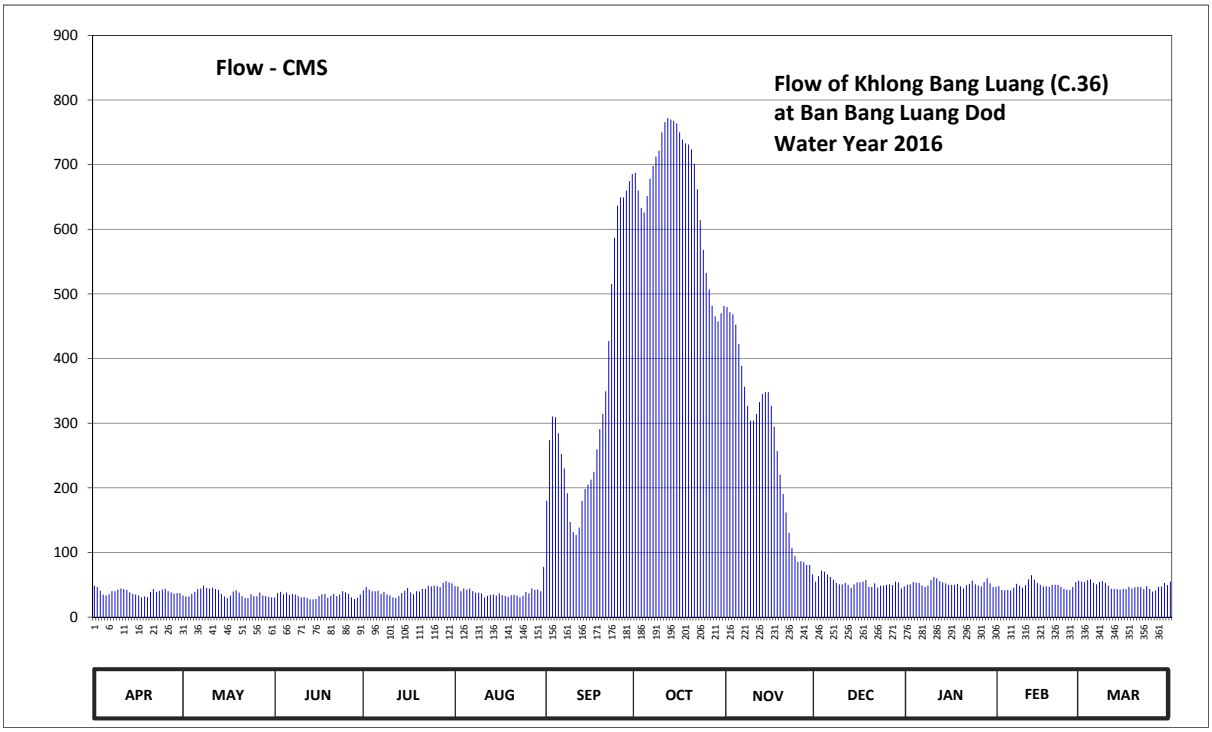
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.05	-0.01	0.19	0.30	1.86	5.34	4.13	0.40	0.33	0.30	0.40	
2	0.28	0.02	0.12	0.28	0.29	2.69	5.19	4.08	0.52	0.34	0.20	0.39	
3	0.18	0.02	0.15	0.21	0.17	2.98	5.04	4.06	0.64	0.39	0.19	0.43	
4	0.08	0.10	0.09	0.17	0.24	2.97	5.00	3.96	0.62	0.37	0.20	0.45	
5	0.05	0.15	0.13	0.17	0.21	2.78	5.14	3.77	0.56	0.37	0.19	0.37	
6	0.09	0.22	0.07	0.18	0.24	2.51	5.29	3.54	0.50	0.31	0.26	0.34	
7	0.17	0.24	0.10	0.10	0.17	2.32	5.40	3.31	0.44	0.28	0.35	0.39	
8	0.17	0.31	0.08	0.15	0.13	1.97	5.48	3.10	0.37	0.31	0.31	0.41	
9	0.21	0.25	0.03	0.08	0.13	1.53	5.53	2.93	0.34	0.43	0.26	0.37	
10	0.24	0.24	-0.01	0.05	0.11	1.36	5.68	2.93	0.34	0.50	0.32	0.31	
11	0.22	0.26	0.00	-0.01	-0.01	1.31	5.76	3.01	0.37	0.47	0.45	0.23	
12	0.20	0.22	-0.03	-0.03	0.04	1.44	5.79	3.14	0.33	0.41	0.54	0.23	
13	0.14	0.20	-0.07	0.03	0.07	1.86	5.78	3.23	0.26	0.38	0.44	0.22	
14	0.10	0.10	-0.07	0.12	0.08	2.03	5.77	3.25	0.34	0.36	0.37	0.21	
15	0.08	0.02	-0.06	0.18	0.05	2.09	5.75	3.25	0.38	0.33	0.33	0.23	
16	0.05	-0.03	0.03	0.25	0.11	2.16	5.68	3.10	0.38	0.33	0.29	0.22	
17	-0.01	0.05	0.09	0.14	0.06	2.27	5.62	2.86	0.40	0.33	0.29	0.28	
18	0.02	0.16	0.10	0.09	0.04	2.57	5.59	2.55	0.43	0.35	0.28	0.24	
19	0.00	0.19	-0.02	0.17	0.01	2.83	5.58	2.23	0.28	0.29	0.33	0.27	
20	0.15	0.13	0.04	0.16	0.06	3.01	5.54	1.96	0.28	0.24	0.33	0.28	
21	0.22	0.03	0.10	0.23	0.07	3.26	5.42	1.68	0.36	0.32	0.33	0.27	
22	0.15	-0.03	0.03	0.23	0.05	3.80	5.20	1.35	0.26	0.35	0.28	0.22	
23	0.18	-0.03	0.08	0.31	-0.01	4.35	4.93	1.09	0.31	0.42	0.23	0.30	
24	0.21	0.09	0.17	0.29	0.04	4.77	4.66	0.93	0.31	0.34	0.21	0.23	
25	0.23	0.03	0.14	0.31	0.15	5.06	4.45	0.82	0.33	0.31	0.20	0.16	
26	0.17	0.03	0.10	0.30	0.11	5.13	4.30	0.83	0.34	0.29	0.28	0.19	
27	0.14	0.13	-0.01	0.27	0.24	5.13	4.14	0.81	0.32	0.39	0.39	0.28	
28	0.11	0.05	-0.06	0.37	0.20	5.19	4.04	0.76	0.40	0.47	0.42	0.29	
29	0.12	0.03	-0.02	0.41	0.21	5.27	3.99	0.76	0.38	0.36		0.37	
30	0.12	0.01	0.08	0.38	0.17	5.33	4.07	0.56	0.24	0.27		0.32	
31		-0.01		0.36	0.72		4.14		0.29	0.28		0.40	
Mean	0.15	0.12	0.07	0.21	0.15	3.06	5.14	2.47	0.38	0.35	0.31	0.30	
Max	0.31	0.31	0.17	0.41	0.72	5.33	5.79	4.13	0.64	0.50	0.54	0.45	5.79
Min	-0.01	-0.03	-0.07	-0.03	-0.01	1.31	3.99	0.56	0.24	0.24	0.19	0.16	-0.07

Annual Max Momentary Gage Height 5.80 m. (MSL.) , at 11.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -6.08 m. (MSL.)

Left Bank Elevation 7.06 m. (MSL.) ,

Right Bank Elevation 7.45 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.70	33.50	30.50	41.40	48.00	180.00	687.20	479.80	55.00	50.10	48.00	55.00	
2	46.80	32.00	37.20	46.80	47.40	273.80	660.20	471.80	63.40	50.80	42.00	54.30	
3	40.80	32.00	39.00	42.60	40.20	310.40	633.20	468.60	71.80	54.30	41.40	57.10	
4	35.00	36.00	35.50	40.20	44.40	309.10	626.00	452.60	70.40	52.90	42.00	58.50	
5	33.50	39.00	37.80	40.20	42.60	284.60	651.20	422.50	66.20	52.90	41.40	52.90	
6	35.50	43.20	34.50	40.80	44.40	252.20	678.20	388.60	62.00	48.70	45.60	50.80	
7	40.20	44.40	36.00	36.00	40.20	230.20	698.00	356.40	57.80	46.80	51.50	54.30	
8	40.20	48.70	35.00	39.00	37.80	191.70	712.40	327.00	52.90	48.70	48.70	55.70	
9	42.60	45.00	32.50	35.00	37.80	147.00	721.70	303.90	50.80	57.10	45.60	52.90	
10	44.40	44.40	30.50	33.50	36.60	131.40	750.20	303.90	50.80	62.00	49.40	48.70	
11	43.20	45.60	31.00	30.50	30.50	126.90	766.00	314.40	52.90	59.90	58.50	43.80	
12	42.00	43.20	29.50	29.50	33.00	138.60	772.00	332.60	50.10	55.70	64.80	43.80	
13	38.40	42.00	27.50	32.50	34.50	180.00	770.00	345.20	45.60	53.60	57.80	43.20	
14	36.00	36.00	27.50	37.20	35.00	198.30	768.00	348.00	50.80	52.20	52.90	42.60	
15	35.00	32.00	28.00	40.80	33.50	204.90	764.00	348.00	53.60	50.10	50.10	43.80	
16	33.50	29.50	32.50	45.00	36.60	212.60	750.20	327.00	53.60	50.10	47.40	43.20	
17	30.50	33.50	35.50	38.40	34.00	224.70	738.80	294.80	55.00	50.10	47.40	46.80	
18	32.00	39.60	36.00	35.50	33.00	259.40	733.10	257.00	57.10	51.50	46.80	44.40	
19	31.00	41.40	30.00	40.20	31.50	290.90	731.20	220.30	46.80	47.40	50.10	46.20	
20	39.00	37.80	33.00	39.60	34.00	314.40	723.60	190.60	46.80	44.40	50.10	46.80	
21	43.20	32.50	36.00	43.80	34.50	349.40	701.60	162.00	52.20	49.40	50.10	46.20	
22	39.00	29.50	32.50	43.80	33.50	427.00	662.00	130.50	45.60	51.50	46.80	43.20	
23	40.80	29.50	35.00	48.70	30.50	515.50	614.10	107.20	48.70	56.40	43.80	48.00	
24	42.60	35.50	40.20	47.40	33.00	586.90	568.20	94.40	48.70	50.80	42.60	43.80	
25	43.80	32.50	38.40	48.70	39.00	636.80	532.50	85.60	50.10	48.70	42.00	39.60	
26	40.20	32.50	36.00	48.00	36.60	649.40	507.00	86.40	50.80	47.40	46.80	41.40	
27	38.40	37.80	30.50	46.20	44.40	649.40	481.40	84.80	49.40	54.30	54.30	46.80	
28	36.60	33.50	28.00	52.90	42.00	660.20	465.40	80.80	55.00	59.90	56.40	47.40	
29	37.20	32.50	30.00	55.70	42.60	674.60	457.40	80.80	53.60	52.20		52.90	
30	37.20	31.50	35.00	53.60	40.20	685.40	470.20	66.20	44.40	46.20		49.40	
31		30.50		52.20	77.60		481.40		47.40	46.80		55.00	
Total	1167.30	1136.60	1000.60	1305.70	1208.90	10295.70	20276.40	7931.70	1659.30	1602.90	1364.30	1498.50	50447.90 CMSDAY
Mean	38.91	36.66	33.35	42.12	39.00	343.19	654.08	264.39	53.53	51.71	48.72	48.34	138.21 CMS
Max	48.70	48.70	40.20	55.70	77.60	685.40	772.00	479.80	71.80	62.00	64.80	58.50	772.00 CMS
Min	30.50	29.50	27.50	29.50	30.50	126.90	457.40	66.20	44.40	44.40	41.40	39.60	27.50 CMS
Runoff	100.85	98.20	86.45	112.81	104.45	889.55	1751.88	685.30	143.36	138.49	117.88	129.47	4358.70 MCM

Momentary Peak 774.00 CMS. at 5.80 m. (MSL.) at 11.00 Hours , on Oct 12 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Khlong Bang Ban at Ban Bang Ban, Phra Nakhon Si Ayutthaya (C.37)

Lat 14 - 21 - 28 N Long 100 - 29 - 03 E

Location : on left bank at the bridge.

	Ban Bang Ban		**Amphoe** Bang Ban	**Changwat**	Phra Nakhon Si Ayutthaya
Drainge Area	Flood Plain				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the top staff gage			**Elevation**	+7.703 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1982 to date				
Rating Operation					
Period of Rating	1983 to date				
Rated by Flot	-				
Rated by Current Meter	1983 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

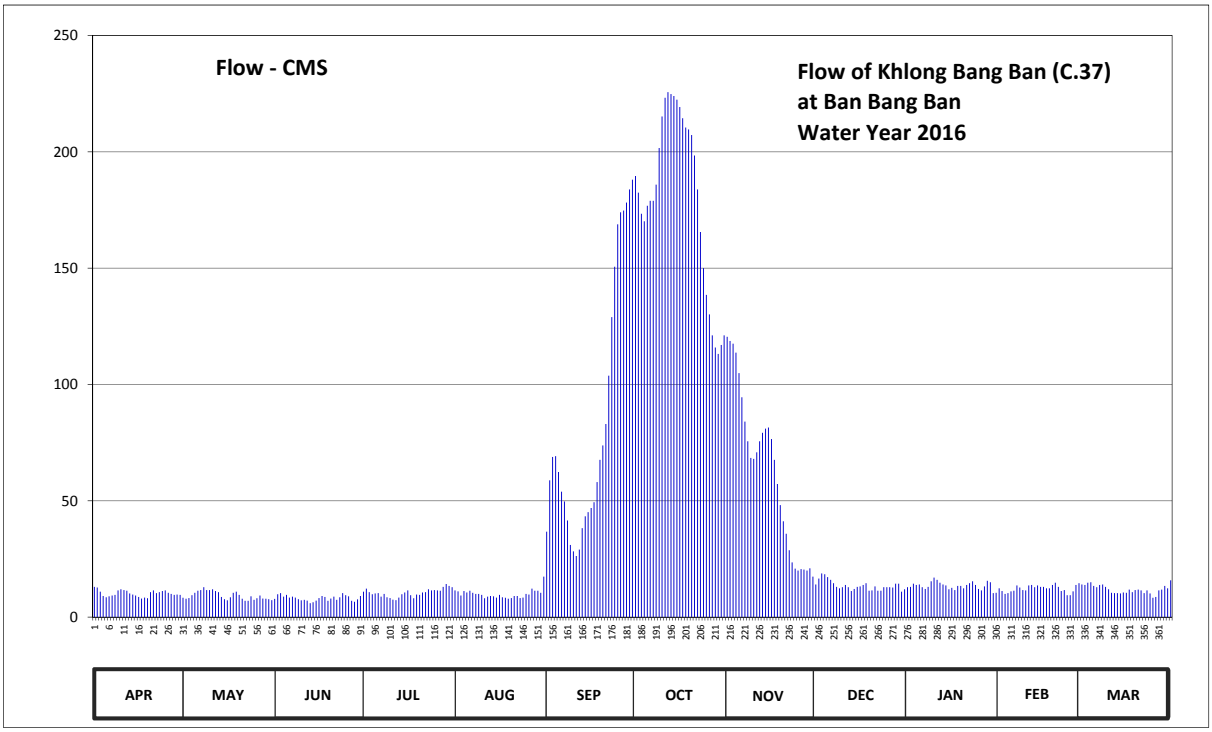
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.08	0.03	0.26	0.30	1.39	4.42	3.35	0.45	0.39	0.36	0.45	
2	0.38	0.04	0.19	0.35	0.27	2.07	4.32	3.32	0.58	0.40	0.28	0.44	
3	0.26	0.07	0.22	0.25	0.15	2.32	4.19	3.30	0.69	0.47	0.20	0.49	
4	0.14	0.16	0.12	0.19	0.28	2.33	4.14	3.23	0.67	0.44	0.22	0.50	
5	0.10	0.23	0.17	0.21	0.24	2.16	4.24	3.07	0.61	0.45	0.27	0.42	
6	0.13	0.29	0.09	0.22	0.29	1.94	4.27	2.87	0.55	0.39	0.29	0.39	
7	0.15	0.31	0.12	0.12	0.23	1.82	4.27	2.66	0.48	0.34	0.43	0.44	
8	0.17	0.39	0.09	0.20	0.20	1.55	4.37	2.48	0.40	0.40	0.38	0.45	
9	0.30	0.31	0.02	0.10	0.20	1.20	4.57	2.31	0.36	0.52	0.31	0.40	
10	0.33	0.31	-0.03	0.07	0.17	1.09	4.74	2.30	0.39	0.60	0.30	0.33	
11	0.31	0.33	-0.01	0.00	0.06	1.01	4.84	2.37	0.44	0.55	0.43	0.23	
12	0.29	0.28	-0.04	-0.02	0.12	1.12	4.87	2.48	0.39	0.49	0.44	0.22	
13	0.21	0.25	-0.15	0.09	0.14	1.44	4.86	2.56	0.28	0.45	0.39	0.22	
14	0.18	0.11	-0.11	0.19	0.13	1.61	4.85	2.60	0.34	0.43	0.43	0.21	
15	0.15	0.02	-0.04	0.24	0.09	1.67	4.83	2.61	0.40	0.33	0.40	0.24	
16	0.11	-0.03	0.07	0.30	0.17	1.73	4.79	2.50	0.41	0.37	0.40	0.23	
17	0.05	0.10	0.14	0.16	0.10	1.81	4.73	2.29	0.44	0.31	0.36	0.32	
18	0.09	0.23	0.11	0.06	0.08	2.05	4.68	2.03	0.48	0.42	0.36	0.25	
19	0.06	0.26	-0.05	0.18	0.04	2.29	4.67	1.77	0.29	0.42	0.44	0.31	
20	0.25	0.17	0.05	0.17	0.07	2.44	4.64	1.54	0.30	0.36	0.49	0.32	
21	0.30	0.04	0.12	0.24	0.14	2.64	4.53	1.36	0.41	0.44	0.40	0.30	
22	0.22	-0.05	-0.01	0.25	0.14	3.05	4.34	1.11	0.29	0.48	0.28	0.22	
23	0.25	-0.05	0.10	0.33	0.07	3.49	4.07	0.90	0.29	0.52	0.31	0.30	
24	0.28	0.13	0.22	0.30	0.09	3.84	3.83	0.79	0.39	0.44	0.16	0.21	
25	0.30	-0.01	0.16	0.31	0.20	4.12	3.65	0.75	0.39	0.34	0.16	0.08	
26	0.23	0.06	0.13	0.30	0.18	4.20	3.51	0.78	0.39	0.30	0.27	0.11	
27	0.20	0.15	-0.05	0.29	0.35	4.21	3.36	0.77	0.38	0.41	0.44	0.30	
28	0.17	0.05	-0.09	0.40	0.29	4.26	3.27	0.75	0.47	0.53	0.48	0.32	
29	0.18	0.04	0.01	0.46	0.29	4.34	3.22	0.80	0.47	0.50		0.42	
30	0.17	0.02	0.14	0.42	0.23	4.40	3.29	0.62	0.26	0.22		0.36	
31		-0.02		0.39	0.62		3.36		0.33	0.23		0.54	
Mean	0.21	0.16	0.09	0.23	0.19	2.45	4.25	2.01	0.42	0.42	0.35	0.32	
Max	0.40	0.39	0.22	0.46	0.62	4.40	4.87	3.35	0.69	0.60	0.49	0.54	4.87
Min	0.05	-0.05	-0.15	-0.02	0.04	1.01	3.22	0.62	0.26	0.22	0.16	0.08	-0.15

Annual Max Momentary Gage Height 4.89 m. (MSL.) , at 12.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -3.59 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.00	8.30	7.80	10.90	11.50	36.70	189.60	120.50	14.00	12.85	12.40	14.00	
2	12.70	7.90	9.85	12.25	11.05	58.80	182.40	118.70	16.60	13.00	11.20	13.80	
3	10.90	8.20	10.30	10.75	9.25	68.80	173.35	117.50	18.80	14.40	10.00	14.80	
4	9.10	9.40	8.80	9.85	11.20	69.20	170.10	113.65	18.40	13.80	10.30	15.00	
5	8.50	10.45	9.55	10.15	10.60	62.40	176.80	104.85	17.20	14.00	11.05	13.40	
6	8.95	11.35	8.40	10.30	11.35	53.90	178.90	94.50	16.00	12.85	11.35	12.85	
7	9.25	11.65	8.80	8.80	10.45	49.70	178.90	84.00	14.60	12.10	13.60	13.80	
8	9.55	12.85	8.40	10.00	10.00	41.50	185.90	75.60	13.00	13.00	12.70	14.00	
9	11.50	11.65	7.70	8.50	10.00	31.00	201.60	68.40	12.40	15.40	11.65	13.00	
10	11.95	11.65	7.20	8.20	9.55	28.25	215.20	68.00	12.85	17.00	11.50	11.95	
11	11.65	11.95	7.40	7.50	8.10	26.25	223.20	70.80	13.80	16.00	13.60	10.45	
12	11.35	11.20	7.10	7.30	8.80	29.00	225.60	75.60	12.85	14.80	13.80	10.30	
13	10.15	10.75	6.00	8.40	9.10	38.20	224.80	79.20	11.20	14.00	12.85	10.30	
14	9.70	8.65	6.40	9.85	8.95	43.30	224.00	81.00	12.10	13.60	13.60	10.15	
15	9.25	7.70	7.10	10.60	8.40	45.10	222.40	81.50	13.00	11.95	13.00	10.60	
16	8.65	7.20	8.20	11.50	9.55	46.90	219.20	76.50	13.20	12.55	13.00	10.45	
17	8.00	8.50	9.10	9.40	8.50	49.35	214.40	67.60	13.80	11.65	12.40	11.80	
18	8.40	10.45	8.65	8.10	8.30	58.00	210.40	57.20	14.60	13.40	12.40	10.75	
19	8.10	10.90	7.00	9.70	7.90	67.60	209.60	48.10	11.35	13.40	13.80	11.65	
20	10.75	9.55	8.00	9.55	8.20	73.80	207.20	41.20	11.50	12.40	14.80	11.80	
21	11.50	7.90	8.80	10.60	9.10	83.00	198.40	35.80	13.20	13.80	13.00	11.50	
22	10.30	7.00	7.40	10.75	9.10	103.75	183.80	28.75	11.35	14.60	11.20	10.30	
23	10.75	7.00	8.50	11.95	8.20	128.90	165.55	23.50	11.35	15.40	11.65	11.50	
24	11.20	8.95	10.30	11.50	8.40	150.60	149.95	20.80	12.85	13.80	9.40	10.15	
25	11.50	7.40	9.40	11.65	10.00	168.80	138.50	20.00	12.85	12.10	9.40	8.30	
26	10.45	8.10	8.95	11.50	9.70	174.00	130.10	20.60	12.85	11.50	11.05	8.65	
27	10.00	9.25	7.00	11.35	12.25	174.70	121.10	20.40	12.70	13.20	13.80	11.50	
28	9.55	8.00	6.60	13.00	11.35	178.20	115.85	20.00	14.40	15.60	14.60	11.80	
29	9.70	7.90	7.60	14.20	11.35	183.80	113.10	21.00	14.40	15.00		13.40	
30	9.55	7.70	9.10	13.40	10.45	188.00	116.95	17.40	10.90	10.30		12.40	
31		7.30		12.85	17.40		121.10		11.95	10.45		15.80	
Total	305.90	286.75	245.40	324.35	308.05	2511.50	5587.95	1872.65	420.05	417.90	343.10	370.15	12993.75 CMSDAY
Mean	10.20	9.25	8.18	10.46	9.94	83.72	180.26	62.42	13.55	13.48	12.25	11.94	35.60 CMS
Max	13.00	12.85	10.30	14.20	17.40	188.00	225.60	120.50	18.80	17.00	14.80	15.80	225.60 CMS
Min	8.00	7.00	6.00	7.30	7.90	26.25	113.10	17.40	10.90	10.30	9.40	8.30	6.00 CMS
Runoff	26.43	24.78	21.20	28.02	26.62	216.99	482.80	161.80	36.29	36.11	29.64	31.98	1122.66 MCM

Momentary Peak 227.20 CMS. at 4.89 m. (MSL.) at 12.00 Hours , on Oct 12 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban In Buri, Sing Buri (C.44)

Lat 15 - 00 - 18 N Long 100 - 19 - 48 E

Location : on right bank at the bridge

Ban In Buri **Amphoe** In Buri **Changwat** Sing Buri

Drainge Area	118,510 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site **Elevation** +13.856 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

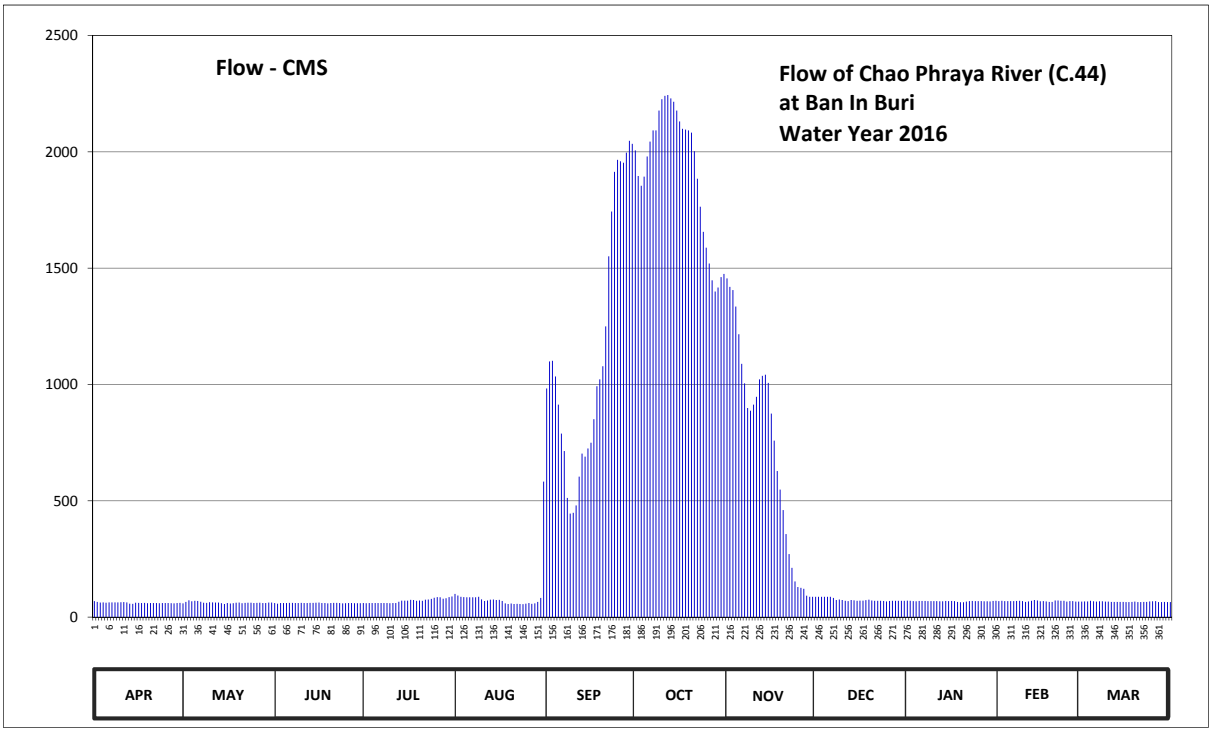
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.71	3.55	3.57	3.57	4.17	9.42	13.08	11.22	4.00	3.75	3.71	3.68	
2	3.65	3.66	3.53	3.56	4.08	9.88	12.72	11.09	4.00	3.74	3.73	3.69	
3	3.61	3.77	3.58	3.58	4.00	9.89	12.58	11.04	4.00	3.71	3.71	3.69	
4	3.62	3.70	3.58	3.58	3.98	9.63	12.71	10.78	4.00	3.70	3.71	3.74	
5	3.60	3.73	3.58	3.57	3.97	9.13	13.00	10.33	4.00	3.72	3.71	3.70	
6	3.62	3.72	3.59	3.58	3.97	8.61	13.20	9.84	4.00	3.72	3.71	3.68	
7	3.62	3.67	3.59	3.57	3.97	8.28	13.35	9.51	3.94	3.72	3.72	3.70	
8	3.62	3.60	3.58	3.57	3.97	7.28	13.35	9.07	3.79	3.71	3.73	3.70	
9	3.62	3.59	3.58	3.57	4.00	6.91	13.61	9.02	3.83	3.71	3.71	3.68	
10	3.63	3.63	3.59	3.56	3.84	6.93	13.75	9.13	3.79	3.71	3.66	3.68	
11	3.64	3.62	3.58	3.57	3.72	7.11	13.79	9.27	3.74	3.71	3.69	3.66	
12	3.62	3.61	3.57	3.58	3.76	7.76	13.80	9.58	3.71	3.70	3.73	3.66	
13	3.53	3.61	3.59	3.67	3.81	8.23	13.76	9.64	3.79	3.70	3.79	3.66	
14	3.52	3.56	3.59	3.75	3.83	8.17	13.72	9.66	3.77	3.72	3.76	3.66	
15	3.60	3.51	3.60	3.75	3.79	8.33	13.61	9.52	3.74	3.71	3.70	3.65	
16	3.59	3.57	3.61	3.75	3.80	8.44	13.47	8.97	3.75	3.72	3.71	3.64	
17	3.57	3.54	3.57	3.80	3.72	8.87	13.37	8.48	3.75	3.71	3.69	3.64	
18	3.59	3.56	3.57	3.79	3.55	9.46	13.36	7.88	3.78	3.66	3.66	3.66	
19	3.56	3.60	3.55	3.74	3.51	9.58	13.35	7.47	3.81	3.63	3.66	3.68	
20	3.57	3.61	3.57	3.76	3.54	9.80	13.32	7.00	3.76	3.63	3.76	3.64	
21	3.58	3.56	3.59	3.73	3.50	10.46	13.07	6.38	3.74	3.68	3.76	3.64	
22	3.57	3.59	3.59	3.82	3.52	11.56	12.68	5.80	3.73	3.71	3.73	3.65	
23	3.56	3.60	3.58	3.83	3.50	12.21	12.28	5.33	3.74	3.72	3.74	3.66	
24	3.57	3.60	3.55	3.87	3.49	12.78	11.92	4.81	3.72	3.71	3.68	3.69	
25	3.58	3.58	3.56	3.95	3.53	12.95	11.69	4.54	3.69	3.71	3.71	3.70	
26	3.57	3.59	3.57	3.98	3.58	12.93	11.45	4.50	3.72	3.71	3.71	3.71	
27	3.56	3.60	3.58	3.97	3.52	12.91	11.19	4.45	3.74	3.70	3.68	3.64	
28	3.55	3.58	3.56	3.88	3.55	13.05	11.02	4.07	3.74	3.70	3.68	3.64	
29	3.58	3.57	3.56	3.92	3.66	13.21	11.08	4.00	3.73	3.69		3.65	
30	3.59	3.61	3.56	3.98	3.94	13.17	11.24	4.00	3.74	3.72		3.64	
31		3.61		4.02	7.65		11.29		3.74	3.74		3.64	
Mean	3.59	3.61	3.58	3.74	3.88	9.90	12.77	7.88	3.81	3.71	3.71	3.67	
Max	3.71	3.77	3.61	4.02	7.65	13.21	13.80	11.22	4.00	3.75	3.79	3.74	13.80
Min	3.52	3.51	3.53	3.56	3.49	6.91	11.02	4.00	3.69	3.63	3.66	3.64	3.49

Annual Max Momentary Gage Height 13.80 m. (MSL.) , at 06.00 Hours , on Oct 11 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.87 m. (MSL.)

Left Bank Elevation 15.99 m. (MSL.) ,

Right Bank Elevation 15.84 m. (MSL.) , Drainage Are 118,510 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.60	59.00	60.20	60.20	99.60	982.80	2005.60	1455.60	87.00	71.00	68.60	66.80	
2	65.00	65.60	57.80	59.60	92.60	1098.80	1896.00	1419.20	87.00	70.40	69.80	67.40	
3	62.60	72.20	60.80	60.80	87.00	1101.40	1854.00	1405.20	87.00	68.60	68.60	67.40	
4	63.20	68.00	60.80	60.80	85.60	1034.50	1893.00	1334.60	87.00	68.00	68.60	70.40	
5	62.00	69.80	60.80	60.20	84.90	913.20	1980.00	1215.80	87.00	69.20	68.60	68.00	
6	63.20	69.20	61.40	60.80	84.90	788.40	2044.00	1088.40	87.00	69.20	68.60	66.80	
7	63.20	66.20	61.40	60.20	84.90	713.60	2092.00	1004.50	82.80	69.20	69.20	68.00	
8	63.20	62.00	60.80	60.20	84.90	512.20	2092.00	898.80	73.40	68.60	69.80	68.00	
9	63.20	61.40	60.80	60.20	87.00	444.70	2177.40	886.80	75.80	68.60	68.60	66.80	
10	63.80	63.80	61.40	59.60	76.40	448.10	2226.00	913.20	73.40	68.60	65.60	66.80	
11	64.40	63.20	60.80	60.20	69.20	479.90	2240.40	946.80	70.40	68.60	67.40	65.60	
12	63.20	62.60	60.20	60.80	71.60	604.00	2244.00	1022.00	68.60	68.00	69.80	65.60	
13	57.80	62.60	61.40	66.20	74.60	702.60	2229.60	1037.00	73.40	68.00	73.40	65.60	
14	57.20	59.60	61.40	71.00	75.80	689.40	2215.20	1042.00	72.20	69.20	71.60	65.60	
15	62.00	56.60	62.00	71.00	73.40	724.60	2177.40	1007.00	70.40	68.60	68.00	65.00	
16	61.40	60.20	62.60	71.00	74.00	749.20	2130.40	874.80	71.00	69.20	68.60	64.40	
17	60.20	58.40	60.20	74.00	69.20	850.80	2098.40	758.40	71.00	68.60	67.40	64.40	
18	61.40	59.60	60.20	73.40	59.00	992.40	2095.20	628.00	72.80	65.60	65.60	65.60	
19	59.60	62.00	59.00	70.40	56.60	1022.00	2092.00	548.30	74.60	63.80	65.60	66.80	
20	60.20	62.60	60.20	71.60	58.40	1078.00	2082.40	460.00	71.60	63.80	71.60	64.40	
21	60.80	59.60	61.40	69.80	56.00	1249.60	2002.40	357.00	70.40	66.80	71.60	64.40	
22	60.20	61.40	61.40	75.20	57.20	1550.80	1884.00	271.00	69.80	68.60	69.80	65.00	
23	59.60	62.00	60.80	75.80	56.00	1743.00	1764.00	211.60	70.40	69.20	70.40	65.60	
24	60.20	62.00	59.00	78.20	55.40	1914.00	1656.00	153.00	69.20	68.60	66.80	67.40	
25	60.80	60.80	59.60	83.50	57.80	1965.00	1588.10	129.20	67.40	68.60	68.60	68.00	
26	60.20	61.40	60.20	85.60	60.80	1959.00	1520.00	126.00	69.20	68.60	68.60	68.60	
27	59.60	62.00	60.80	84.90	57.20	1953.00	1447.20	122.00	70.40	68.00	66.80	64.40	
28	59.00	60.80	59.60	78.80	59.00	1996.00	1399.60	91.90	70.40	68.00	66.80	64.40	
29	60.80	60.20	59.60	81.40	65.60	2047.20	1416.40	87.00	69.80	67.40		65.00	
30	61.40	62.60	59.60	85.60	82.80	2034.40	1461.20	87.00	70.40	69.20		64.40	
31		62.60		88.40	582.50		1475.20		70.40	70.40		64.40	
Total	1848.00	1940.00	1816.20	2179.40	2739.90	34342.60	59479.10	21582.10	2311.20	2118.20	1924.40	2051.00	134332.10 CMSDAY
Mean	61.60	62.58	60.54	70.30	88.38	1144.75	1918.68	719.40	74.55	68.33	68.73	66.16	368.03 CMS
Max	68.60	72.20	62.60	88.40	582.50	2047.20	2244.00	1455.60	87.00	71.00	73.40	70.40	2244.00 CMS
Min	57.20	56.60	57.80	59.60	55.40	444.70	1399.60	87.00	67.40	63.80	65.60	64.40	55.40 CMS
Runoff	159.67	167.62	156.92	188.30	236.73	2967.20	5138.99	1864.69	199.69	183.01	166.27	177.21	11606.29 MCM

Momentary Peak 2244.00 CMS. at 13.80 m. (MSL.) at 06.00 Hours , on Oct 11 , 2016

Runoff Yield 3.11 Liters/Second/Square KM. Momentary Peak Yield 18.940 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Nam Chieo, Sing Buri (C.45)

Lat 14 - 48 - 31 N Long 100 - 27 - 09 E

Location : on left bank at Ban Bang Nam Chieo

Ban Bang Nam Chieo **Amphoe** Prom Buri **Changwat** Sing Buri

Drainge Area	Flood Plain
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site **Elevation** +10.460 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2012 to date
Rating Operation	
Period of Rating	2012 to date
Rated by Flot	-
Rated by Current Meter	2012 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	Overbank flow starts at elevation + 10.880 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

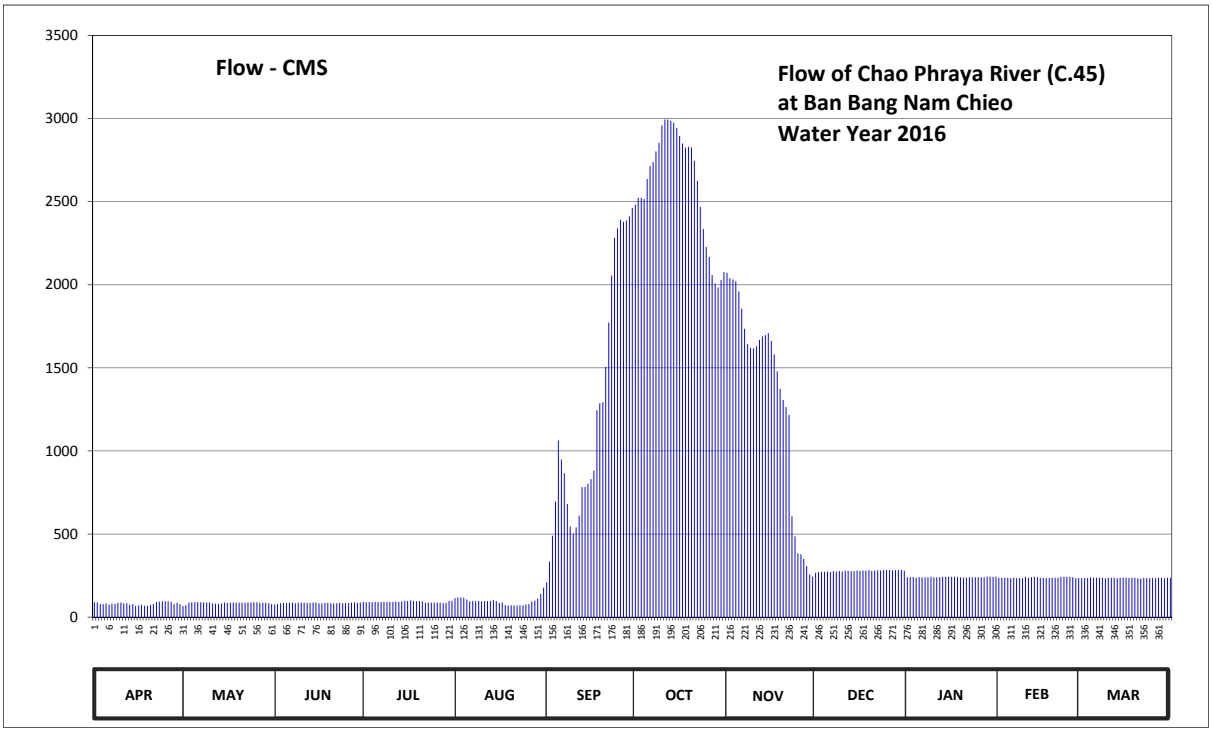
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.54	0.64	0.78	0.99	1.79	10.45	9.30	2.21	2.01	1.99	1.97	
2	0.75	0.60	0.66	0.76	1.01	2.64	10.56	9.20	2.23	2.02	1.99	1.98	
3	0.66	0.74	0.71	0.77	1.02	3.50	10.56	9.18	2.25	2.02	1.99	1.98	
4	0.65	0.76	0.72	0.77	1.00	4.48	10.54	9.15	2.25	2.00	1.99	2.01	
5	0.70	0.76	0.71	0.78	0.92	5.95	10.86	8.97	2.26	2.02	1.97	1.99	
6	0.63	0.77	0.73	0.77	0.81	5.51	11.06	8.65	2.24	2.01	1.99	1.99	
7	0.68	0.76	0.73	0.77	0.83	5.19	11.12	8.27	2.27	2.01	1.98	1.99	
8	0.67	0.75	0.71	0.78	0.81	4.42	11.28	7.98	2.26	2.01	1.98	1.99	
9	0.72	0.75	0.72	0.78	0.82	3.78	11.41	7.90	2.28	2.03	1.97	1.97	
10	0.74	0.74	0.73	0.78	0.80	3.56	11.67	7.89	2.26	2.01	2.03	1.99	
11	0.70	0.69	0.73	0.78	0.82	3.75	11.76	7.93	2.29	2.01	1.99	1.99	
12	0.71	0.68	0.72	0.79	0.82	4.10	11.76	8.06	2.29	2.02	2.02	1.99	
13	0.63	0.67	0.72	0.78	0.83	4.84	11.74	8.13	2.27	2.03	2.03	1.97	
14	0.66	0.70	0.74	0.80	0.87	4.85	11.71	8.15	2.28	2.03	2.02	1.99	
15	0.55	0.74	0.73	0.84	0.82	4.93	11.63	8.19	2.30	2.03	1.99	1.99	
16	0.58	0.72	0.70	0.83	0.72	5.04	11.51	8.04	2.29	2.03	1.99	1.99	
17	0.62	0.73	0.70	0.86	0.74	5.25	11.40	7.77	2.30	2.03	1.98	1.98	
18	0.57	0.74	0.72	0.83	0.60	6.61	11.34	7.43	2.30	2.01	1.98	1.99	
19	0.56	0.73	0.72	0.82	0.58	6.76	11.35	7.07	2.32	2.01	1.99	1.99	
20	0.61	0.74	0.70	0.82	0.59	6.78	11.34	6.83	2.29	2.00	1.99	1.97	
21	0.66	0.73	0.70	0.80	0.58	7.52	11.14	6.68	2.30	2.00	2.00	1.96	
22	0.77	0.73	0.70	0.73	0.58	8.39	10.83	6.51	2.31	2.01	2.03	1.99	
23	0.79	0.75	0.72	0.74	0.59	9.25	10.42	4.08	2.30	2.01	2.03	1.98	
24	0.81	0.75	0.70	0.73	0.59	9.90	10.05	3.48	2.32	2.02	2.03	1.98	
25	0.82	0.76	0.71	0.73	0.64	10.06	9.75	2.92	2.32	2.02	2.03	1.98	
26	0.80	0.76	0.71	0.74	0.66	10.20	9.58	2.89	2.32	2.01	2.01	1.98	
27	0.78	0.72	0.73	0.73	0.79	10.17	9.26	2.73	2.31	2.02	1.98	1.99	
28	0.65	0.73	0.75	0.71	0.85	10.19	9.11	2.47	2.32	2.04	1.98	1.99	
29	0.73	0.72	0.72	0.73	0.96	10.26	9.04	2.13	2.32	2.04		1.97	
30	0.65	0.71	0.74	0.83	1.21	10.40	9.17	2.04	2.32	2.03		1.99	
31		0.65		0.84	1.54		9.31		2.30	2.04		1.99	
Mean	0.69	0.72	0.71	0.78	0.82	6.34	10.73	6.67	2.29	2.02	2.00	1.98	
Max	0.82	0.77	0.75	0.86	1.54	10.40	11.76	9.30	2.32	2.04	2.03	2.01	11.76
Min	0.55	0.54	0.64	0.71	0.58	1.79	9.04	2.04	2.21	2.00	1.97	1.96	0.54

Annual Max Momentary Gage Height 11.76 m. (MSL.) , at 06.00 Hours , on Oct 11 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.23 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	89.60	66.00	76.40	91.80	114.90	209.70	2481.00	2072.00	267.40	239.40	236.60	233.80		
2	88.50	72.00	78.60	89.60	117.10	334.40	2522.80	2038.00	270.20	240.80	236.60	235.20		
3	78.60	87.40	84.10	90.70	118.20	490.00	2522.80	2031.20	273.00	240.80	236.60	235.20		
4	77.50	89.60	85.20	90.70	116.00	695.20	2515.20	2021.00	273.00	238.00	236.60	239.40		
5	83.00	89.60	84.10	91.80	107.20	1063.00	2636.80	1959.80	274.40	240.80	233.80	236.60		
6	75.30	90.70	86.30	90.70	95.10	948.60	2714.00	1856.00	271.60	239.40	236.60	236.60		
7	80.80	89.60	86.30	90.70	97.30	865.60	2738.00	1734.40	275.80	239.40	235.20	236.60		
8	79.70	88.50	84.10	91.80	95.10	680.80	2802.00	1644.00	274.40	239.40	235.20	236.60		
9	85.20	88.50	85.20	91.80	96.20	546.00	2854.00	1620.00	277.20	242.20	233.80	233.80		
10	87.40	87.40	86.30	91.80	94.00	502.00	2958.00	1617.00	274.40	239.40	242.20	236.60		
11	83.00	81.90	86.30	91.80	96.20	540.00	2994.00	1629.00	278.60	239.40	236.60	236.60		
12	84.10	80.80	85.20	92.90	96.20	610.00	2994.00	1668.00	278.60	240.80	240.80	236.60		
13	75.30	79.70	85.20	91.80	97.30	781.60	2986.00	1689.60	275.80	242.20	242.20	233.80		
14	78.60	83.00	87.40	94.00	101.70	784.00	2974.00	1696.00	277.20	242.20	240.80	236.60		
15	67.00	87.40	86.30	98.40	96.20	803.20	2942.00	1708.80	280.00	242.20	236.60	236.60		
16	70.00	85.20	83.00	97.30	85.20	829.60	2894.00	1662.00	278.60	242.20	236.60	236.60		
17	74.20	86.30	83.00	100.60	87.40	881.00	2850.00	1581.00	280.00	242.20	235.20	235.20		
18	69.00	87.40	85.20	97.30	72.00	1244.80	2826.00	1479.00	280.00	239.40	235.20	236.60		
19	68.00	86.30	85.20	96.20	70.00	1286.80	2830.00	1373.60	283.20	239.40	236.60	236.60		
20	73.10	87.40	83.00	96.20	71.00	1292.40	2826.00	1306.40	278.60	238.00	236.60	233.80		
21	78.60	86.30	83.00	94.00	70.00	1506.00	2746.00	1264.40	280.00	238.00	238.00	232.40		
22	90.70	86.30	83.00	86.30	70.00	1772.80	2625.40	1216.80	281.60	239.40	242.20	236.60		
23	92.90	88.50	85.20	87.40	71.00	2055.00	2469.60	606.00	280.00	239.40	242.20	235.20		
24	95.10	88.50	83.00	86.30	71.00	2282.00	2336.00	486.00	283.20	240.80	242.20	235.20		
25	96.20	89.60	84.10	86.30	76.40	2339.60	2228.00	383.60	283.20	240.80	242.20	235.20		
26	94.00	89.60	84.10	87.40	78.60	2390.00	2167.20	378.20	283.20	239.40	239.40	235.20		
27	91.80	85.20	86.30	86.30	92.90	2379.20	2058.40	349.40	281.60	240.80	235.20	236.60		
28	77.50	86.30	88.50	84.10	99.50	2386.40	2007.40	307.20	283.20	243.60	235.20	236.60		
29	86.30	85.20	85.20	86.30	111.60	2411.60	1983.60	256.20	283.20	243.60		233.80		
30	77.50	84.10	87.40	97.30	139.10	2462.00	2027.80	243.60	283.20	242.20		236.60		
31		77.50		98.40	177.20		2075.40		280.00	243.60		236.60		
Total	2448.50	2641.80	2536.20	2848.00	2981.60	37373.30	80585.40	39878.20	8624.40	7459.20	6657.00	7309.40	201343.00	CMSDAY
Mean	81.62	85.22	84.54	91.87	96.18	1245.78	2599.53	1329.27	278.21	240.62	237.75	235.79	551.62	CMS
Max	96.20	90.70	88.50	100.60	177.20	2462.00	2994.00	2072.00	283.20	243.60	242.20	239.40	2994.00	CMS
Min	67.00	66.00	76.40	84.10	70.00	209.70	1983.60	243.60	267.40	238.00	233.80	232.40	66.00	CMS
Runoff	211.55	228.25	219.13	246.07	257.61	3229.05	6962.58	3445.48	745.15	644.47	575.16	631.53	17396.04	MCM

Momentary Peak 2994.00 CMS. at 11.76 m. (MSL.) at 06.00 Hours , on Oct 11 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Chaiyo, Ang Thong (C.46)

Lat 14 - 42 - 59 N Long 100 - 26 - 22 E

Location : on right bank at Ban Chaiyo

	Ban Chaiyo	**Amphoe** Chaiyo	**Changwat** Ang Thong
Drainge Area	Flood Plain		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site	**Elevation**	+10.660 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2012 to date		
Rating Operation			
Period of Rating	2012 to date		
Rated by Flot	-		
Rated by Current Meter	2012 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

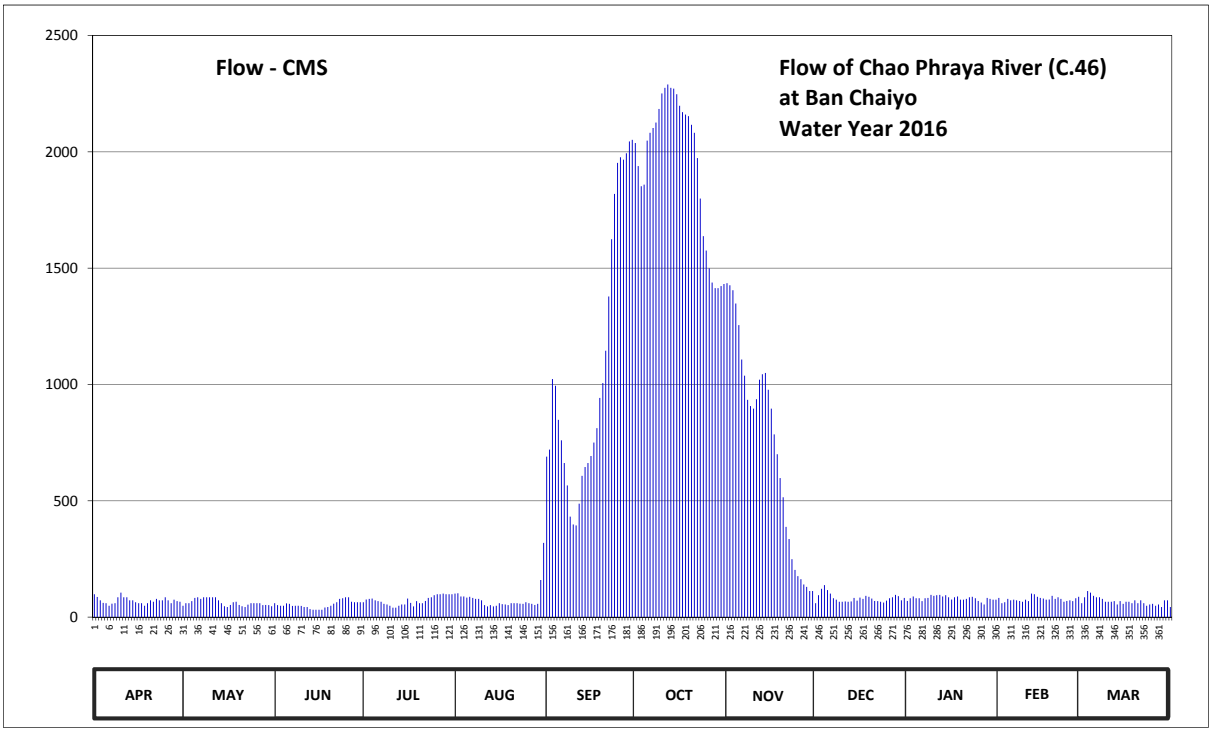
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.50	0.60	0.63	0.92	3.94	8.41	6.57	0.60	0.68	0.78	0.60	
2	0.81	0.60	0.52	0.73	0.93	4.06	8.12	6.54	0.87	0.77	0.60	0.80	
3	0.70	0.60	0.50	0.75	0.83	5.18	7.86	6.47	1.07	0.83	0.63	1.00	
4	0.61	0.67	0.50	0.76	0.83	5.08	7.88	6.28	1.18	0.77	0.75	0.95	
5	0.60	0.78	0.59	0.70	0.79	4.55	8.44	5.97	1.03	0.77	0.70	0.85	
6	0.50	0.80	0.57	0.67	0.82	4.22	8.54	5.47	0.92	0.67	0.72	0.80	
7	0.58	0.75	0.49	0.65	0.78	3.83	8.60	5.23	0.77	0.77	0.70	0.80	
8	0.60	0.80	0.50	0.57	0.75	3.42	8.67	4.87	0.72	0.78	0.68	0.75	
9	0.80	0.80	0.50	0.55	0.75	2.83	8.84	4.77	0.65	0.88	0.65	0.65	
10	0.95	0.80	0.49	0.50	0.70	2.67	9.03	4.73	0.65	0.85	0.72	0.65	
11	0.80	0.80	0.45	0.42	0.52	2.65	9.10	4.88	0.66	0.87	0.67	0.65	
12	0.80	0.80	0.45	0.42	0.47	3.08	9.14	5.17	0.65	0.88	0.92	0.67	
13	0.70	0.70	0.37	0.50	0.52	3.60	9.10	5.25	0.66	0.83	0.90	0.55	
14	0.70	0.60	0.35	0.55	0.47	3.76	9.09	5.27	0.78	0.87	0.82	0.67	
15	0.63	0.48	0.35	0.55	0.50	3.83	9.02	5.02	0.69	0.80	0.78	0.57	
16	0.60	0.45	0.35	0.76	0.60	3.95	8.88	4.73	0.79	0.73	0.76	0.65	
17	0.60	0.53	0.35	0.61	0.56	4.18	8.80	4.32	0.75	0.80	0.72	0.65	
18	0.50	0.63	0.43	0.47	0.55	4.42	8.77	3.98	0.85	0.83	0.73	0.60	
19	0.60	0.65	0.45	0.67	0.52	4.90	8.75	3.56	0.82	0.72	0.85	0.70	
20	0.70	0.53	0.50	0.60	0.60	5.12	8.64	3.20	0.76	0.72	0.75	0.60	
21	0.65	0.48	0.58	0.60	0.60	5.60	8.54	2.62	0.68	0.75	0.80	0.70	
22	0.75	0.45	0.63	0.68	0.60	6.38	8.22	2.35	0.67	0.80	0.75	0.60	
23	0.70	0.54	0.75	0.78	0.58	7.17	7.70	1.87	0.65	0.82	0.65	0.50	
24	0.70	0.60	0.77	0.80	0.57	7.76	7.21	1.60	0.62	0.77	0.68	0.55	
25	0.80	0.60	0.80	0.87	0.63	8.16	7.02	1.43	0.69	0.68	0.70	0.57	
26	0.70	0.60	0.80	0.90	0.60	8.23	6.78	1.35	0.77	0.62	0.67	0.50	
27	0.60	0.60	0.65	0.90	0.57	8.20	6.58	1.20	0.80	0.55	0.77	0.55	
28	0.72	0.52	0.63	0.92	0.53	8.28	6.50	1.13	0.88	0.78	0.82	0.45	
29	0.67	0.53	0.63	0.90	0.57	8.43	6.50	1.00	0.84	0.75		0.70	
30	0.65	0.52	0.63	0.90	1.33	8.45	6.53	1.00	0.70	0.72		0.70	
31		0.48		0.90	2.26		6.56		0.78	0.72		0.45	
Mean	0.69	0.62	0.54	0.68	0.72	5.20	8.12	3.93	0.77	0.77	0.74	0.66	
Max	0.95	0.80	0.80	0.92	2.26	8.45	9.14	6.57	1.18	0.88	0.92	1.00	9.14
Min	0.50	0.45	0.35	0.42	0.47	2.65	6.50	1.00	0.60	0.55	0.60	0.45	0.35

Annual Max Momentary Gage Height 9.15 m. (MSL.) , at 12.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.83 m. (MSL.)

Left Bank Elevation 10.66 m. (MSL.) ,

Right Bank Elevation 10.37 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.00	49.00	60.00	63.60	100.80	690.00	2037.40	1435.00	60.00	69.60	82.40	60.00	
2	86.30	60.00	51.20	75.90	102.20	720.00	1938.80	1426.00	94.10	81.10	60.00	85.00	
3	72.00	60.00	49.00	78.50	88.90	1023.20	1851.80	1405.00	121.80	88.90	63.60	112.00	
4	61.20	68.40	49.00	79.80	88.90	994.20	1858.40	1348.00	137.20	81.10	78.50	105.00	
5	60.00	82.40	58.90	72.00	83.70	847.50	2047.60	1255.00	116.20	81.10	72.00	91.50	
6	49.00	85.00	56.70	68.40	87.60	760.00	2081.60	1107.30	100.80	68.40	74.60	85.00	
7	57.80	78.50	47.90	66.00	82.40	662.50	2102.00	1037.70	81.10	81.10	72.00	85.00	
8	60.00	85.00	49.00	56.70	78.50	565.60	2125.80	933.90	74.60	82.40	69.60	78.50	
9	85.00	85.00	49.00	54.50	78.50	431.60	2184.00	906.90	66.00	95.40	66.00	66.00	
10	105.00	85.00	47.90	49.00	72.00	398.00	2250.50	896.10	66.00	91.50	74.60	66.00	
11	85.00	85.00	43.50	40.20	51.20	394.00	2275.00	936.60	67.20	94.10	68.40	66.00	
12	85.00	85.00	43.50	40.20	45.70	487.40	2289.00	1020.30	66.00	95.40	100.80	68.40	
13	72.00	72.00	34.00	49.00	51.20	607.00	2275.00	1043.50	67.20	88.90	98.00	54.50	
14	72.00	60.00	31.33	54.50	45.70	645.00	2271.50	1049.30	82.40	94.10	87.60	68.40	
15	63.60	46.80	31.33	54.50	49.00	662.50	2247.00	976.80	70.80	85.00	82.40	56.70	
16	60.00	43.50	31.33	79.80	60.00	692.50	2198.00	896.10	83.70	75.90	79.80	66.00	
17	60.00	52.30	31.33	61.20	55.60	750.00	2170.00	785.40	78.50	85.00	74.60	66.00	
18	49.00	63.60	41.30	45.70	54.50	812.40	2159.80	700.00	91.50	88.90	75.90	60.00	
19	60.00	66.00	43.50	68.40	51.20	942.00	2153.00	597.80	87.60	74.60	91.50	72.00	
20	72.00	52.30	49.00	60.00	60.00	1005.80	2115.60	515.00	79.80	74.60	78.50	60.00	
21	66.00	46.80	57.80	60.00	60.00	1145.00	2081.60	388.00	69.60	78.50	85.00	72.00	
22	78.50	43.50	63.60	69.60	60.00	1378.00	1972.80	335.50	68.40	85.00	78.50	60.00	
23	72.00	53.40	78.50	82.40	57.80	1624.10	1799.00	248.90	66.00	87.60	66.00	49.00	
24	72.00	60.00	81.10	85.00	56.70	1818.80	1637.30	203.00	62.40	81.10	69.60	54.50	
25	85.00	60.00	85.00	94.10	63.60	1952.40	1575.40	175.80	70.80	69.60	72.00	56.70	
26	72.00	60.00	85.00	98.00	60.00	1976.20	1498.80	163.00	81.10	62.40	68.40	49.00	
27	60.00	60.00	66.00	98.00	56.70	1966.00	1438.00	140.00	85.00	54.50	81.10	54.50	
28	74.60	51.20	63.60	100.80	52.30	1993.20	1414.00	130.20	95.40	82.40	87.60	43.50	
29	68.40	52.30	63.60	98.00	56.70	2044.20	1414.00	112.00	90.20	78.50		72.00	
30	66.00	51.20	63.60	98.00	159.80	2051.00	1423.00	112.00	72.00	74.60		72.00	
31		46.80		98.00	318.80		1432.00		82.40	74.60		43.50	
Total	2127.40	1950.00	1606.52	2199.80	2390.00	32040.10	60317.70	22280.10	2535.80	2505.90	2159.00	2098.70	134211.02 CMSDAY
Mean	70.91	62.90	53.55	70.96	77.10	1068.00	1945.73	742.67	81.80	80.84	77.11	67.70	367.70 CMS
Max	105.00	85.00	85.00	100.80	318.80	2051.00	2289.00	1435.00	137.20	95.40	100.80	112.00	2289.00 CMS
Min	49.00	43.50	31.33	40.20	45.70	394.00	1414.00	112.00	60.00	54.50	60.00	43.50	31.33 CMS
Runoff	183.81	168.48	138.80	190.06	206.50	2768.26	5211.45	1925.00	219.09	216.51	186.54	181.33	11595.83 MCM

Momentary Peak 2292.50 CMS. at 9.15 m. (MSL.) at 12.00 Hours , on Oct 12 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Pa Mok, Ang Thong (C.47)

Lat 14 - 30 - 54 N Long 100 - 27 - 59 E

Location : on right bank at Ban Pa Mok

Ban Pa Mok **Amphoe** Pa Mok **Changwat** Ang Thong

Drainge Area	Flood Plain
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site **Elevation** +10.850 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2012 to date
Rating Operation	
Period of Rating	2012 to date
Rated by Flot	-
Rated by Current Meter	2012 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

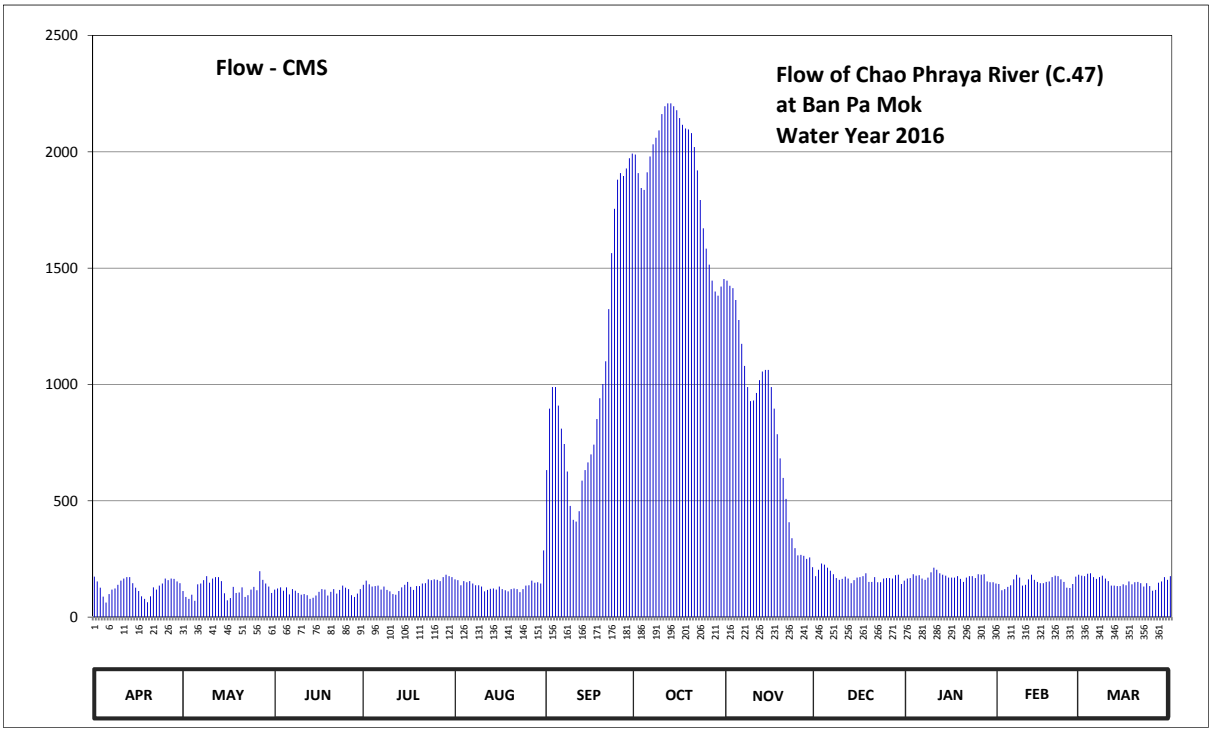
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	0.80	0.84	0.96	1.09	2.97	6.86	5.45	1.16	1.11	0.98	1.17	
2	1.04	0.64	0.87	1.06	1.07	3.85	6.66	5.39	1.29	1.12	0.82	1.16	
3	0.89	0.59	0.90	0.97	0.95	4.14	6.50	5.36	1.41	1.20	0.85	1.21	
4	0.65	0.70	0.81	0.92	1.05	4.14	6.48	5.22	1.39	1.17	0.91	1.22	
5	0.49	0.54	0.90	0.93	1.02	3.89	6.67	4.98	1.33	1.18	0.95	1.14	
6	0.72	0.97	0.71	0.94	1.05	3.58	6.84	4.69	1.27	1.11	1.09	1.10	
7	0.84	0.99	0.85	0.84	0.99	3.36	6.97	4.41	1.20	1.08	1.19	1.14	
8	0.87	1.07	0.81	0.92	0.95	2.95	7.04	4.14	1.12	1.13	1.13	1.17	
9	0.96	1.16	0.75	0.83	0.95	2.42	7.12	3.95	1.08	1.24	0.94	1.11	
10	1.06	1.01	0.70	0.79	0.92	2.20	7.29	3.96	1.10	1.33	0.96	1.05	
11	1.11	1.11	0.72	0.72	0.79	2.17	7.37	4.06	1.15	1.29	1.09	0.94	
12	1.14	1.14	0.69	0.70	0.83	2.34	7.40	4.23	1.11	1.22	1.19	0.94	
13	1.14	1.14	0.59	0.80	0.86	2.81	7.40	4.34	1.00	1.19	1.08	0.93	
14	1.00	1.05	0.62	0.90	0.87	2.97	7.37	4.36	1.07	1.17	1.03	0.93	
15	0.89	0.74	0.68	0.96	0.84	3.09	7.33	4.36	1.13	1.13	1.00	0.97	
16	0.80	0.55	0.78	1.03	0.92	3.21	7.25	4.14	1.14	1.13	1.00	0.95	
17	0.66	0.61	0.85	0.91	0.85	3.35	7.18	3.85	1.16	1.13	1.03	1.04	
18	0.59	0.91	0.84	0.83	0.82	3.71	7.14	3.50	1.22	1.16	1.04	0.97	
19	0.50	0.75	0.68	0.93	0.79	3.99	7.13	3.15	1.03	1.10	1.14	1.02	
20	0.66	0.76	0.78	0.93	0.85	4.18	7.09	2.85	1.03	1.03	1.17	1.03	
21	0.90	0.90	0.85	0.99	0.87	4.47	6.94	2.53	1.14	1.13	1.16	1.00	
22	0.84	0.64	0.73	1.00	0.85	5.11	6.69	2.16	1.02	1.16	1.09	0.92	
23	0.94	0.69	0.83	1.09	0.77	5.77	6.37	1.88	1.02	1.16	1.03	1.00	
24	0.99	0.84	0.94	1.07	0.85	6.27	6.05	1.70	1.11	1.12	0.89	0.93	
25	1.11	0.91	0.89	1.09	0.94	6.59	5.82	1.57	1.12	1.20	0.88	0.81	
26	1.07	0.82	0.85	1.08	0.95	6.66	5.64	1.58	1.12	1.19	0.98	0.83	
27	1.11	1.26	0.69	1.05	1.06	6.63	5.45	1.56	1.11	1.20	1.15	1.01	
28	1.10	1.08	0.64	1.14	1.01	6.71	5.32	1.50	1.18	1.04	1.19	1.04	
29	1.04	0.99	0.73	1.19	1.02	6.82	5.27	1.53	1.19	1.02		1.14	
30	1.00	0.92	0.85	1.16	0.99	6.87	5.38	1.34	0.98	1.02		1.08	
31		0.75		1.14	1.66		5.47		1.06	0.99		1.16	
Mean	0.91	0.87	0.78	0.96	0.95	4.24	6.63	3.46	1.14	1.14	1.03	1.04	
Max	1.15	1.26	0.94	1.19	1.66	6.87	7.40	5.45	1.41	1.33	1.19	1.22	7.40
Min	0.49	0.54	0.59	0.70	0.77	2.17	5.27	1.34	0.98	0.99	0.82	0.81	0.49

Annual Max Momentary Gage Height 7.41 m. (MSL.) , at 15.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -11.58 m. (MSL.)

Left Bank Elevation 10.03 m. (MSL.) ,

Right Bank Elevation 10.85 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	174.00	112.00	118.40	138.80	162.20	631.60	1988.00	1446.00	176.00	166.00	142.40	178.00	
2	153.20	86.40	123.20	156.80	158.60	896.00	1908.00	1424.40	203.80	168.00	115.20	176.00	
3	126.40	78.40	128.00	140.60	137.00	988.80	1844.00	1413.60	230.20	184.00	120.00	186.20	
4	88.00	96.00	113.60	131.60	155.00	988.80	1836.00	1363.20	225.80	178.00	129.80	188.40	
5	62.60	70.40	128.00	133.40	149.60	908.80	1912.00	1276.80	212.60	180.00	137.00	172.00	
6	99.20	140.60	97.60	135.20	155.00	810.00	1980.00	1174.60	199.40	166.00	162.20	164.00	
7	118.40	144.20	120.00	118.40	144.20	744.00	2032.00	1079.40	184.00	160.40	182.00	172.00	
8	123.20	158.60	113.60	131.60	137.00	626.00	2060.00	988.80	168.00	170.00	170.00	178.00	
9	138.80	176.00	104.00	116.80	137.00	477.60	2092.00	928.00	160.40	192.80	135.20	166.00	
10	156.80	147.80	96.00	110.40	131.60	418.00	2161.80	931.20	164.00	212.60	138.80	155.00	
11	166.00	166.00	99.20	99.20	110.40	410.20	2195.40	963.20	174.00	203.80	162.20	135.20	
12	172.00	172.00	94.40	96.00	116.80	455.20	2208.00	1018.20	166.00	188.40	182.00	135.20	
13	172.00	172.00	78.40	112.00	121.60	586.80	2208.00	1055.60	146.00	182.00	160.40	133.40	
14	146.00	155.00	83.20	128.00	123.20	631.60	2195.40	1062.40	158.60	178.00	151.40	133.40	
15	126.40	102.40	92.80	138.80	118.40	665.20	2178.60	1062.40	170.00	170.00	146.00	140.60	
16	112.00	72.00	108.80	151.40	131.60	699.00	2145.00	988.80	172.00	170.00	146.00	137.00	
17	89.60	81.60	120.00	129.80	120.00	741.00	2116.00	896.00	176.00	170.00	151.40	153.20	
18	78.40	129.80	118.40	116.80	115.20	851.20	2100.00	786.00	188.40	176.00	153.20	140.60	
19	64.00	104.00	92.80	133.40	110.40	940.80	2096.00	682.00	151.40	164.00	172.00	149.60	
20	89.60	105.60	108.80	133.40	120.00	1001.60	2080.00	598.00	151.40	151.40	178.00	151.40	
21	128.00	128.00	120.00	144.20	123.20	1099.80	2020.00	508.40	172.00	170.00	176.00	146.00	
22	118.40	86.40	100.80	146.00	120.00	1323.60	1920.00	407.60	149.60	176.00	162.20	131.60	
23	135.20	94.40	116.80	162.20	107.20	1564.60	1792.60	339.20	149.60	176.00	151.40	146.00	
24	144.20	118.40	135.20	158.60	120.00	1754.60	1671.00	296.00	166.00	168.00	126.40	133.40	
25	166.00	129.80	126.40	162.20	135.20	1880.00	1583.60	265.40	168.00	184.00	124.80	113.60	
26	158.60	115.20	120.00	160.40	137.00	1908.00	1515.20	267.60	168.00	182.00	142.40	116.80	
27	166.00	197.20	94.40	155.00	156.80	1896.00	1446.00	263.20	166.00	184.00	174.00	147.80	
28	164.00	160.40	86.40	172.00	147.80	1928.00	1399.20	250.00	180.00	153.20	182.00	153.20	
29	153.20	144.20	100.80	182.00	149.60	1972.00	1381.20	256.60	182.00	149.60		172.00	
30	146.00	131.60	120.00	176.00	144.20	1992.00	1420.80	214.80	142.40	149.60		160.40	
31		104.00		172.00	286.40		1453.20		156.80	144.20		176.00	
Total	3936.20	3880.40	3260.00	4343.00	4282.20	31790.80	58939.00	24207.40	5378.40	5368.00	4274.40	4742.00	154401.80 CMSDAY
Mean	131.21	125.17	108.67	140.10	138.14	1059.69	1901.26	806.91	173.50	173.16	152.66	152.97	423.02 CMS
Max	174.00	197.20	135.20	182.00	286.40	1992.00	2208.00	1446.00	230.20	212.60	182.00	188.40	2208.00 CMS
Min	62.60	70.40	78.40	96.00	107.20	410.20	1381.20	214.80	142.40	144.20	115.20	113.60	62.60 CMS
Runoff	340.09	335.27	281.66	375.24	369.98	2746.73	5092.33	2091.52	464.69	463.80	369.31	409.71	13340.32 MCM

Momentary Peak 2212.20 CMS. at 7.41 m. (MSL.) at 15.00 Hours , on Oct 12 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Huai Khun Kaeo at Ban Kud Jok, Chai Nat (C.51)

Lat 15 - 17 - 22 N Long 99 - 54 - 07 E

Location : on left bank at the bridge

Ban Kud Jok **Amphoe** Nong Mamong **Changwat** Chai Nat

Drainge Area	1,059 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the bridge **Elevation** +37.426 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

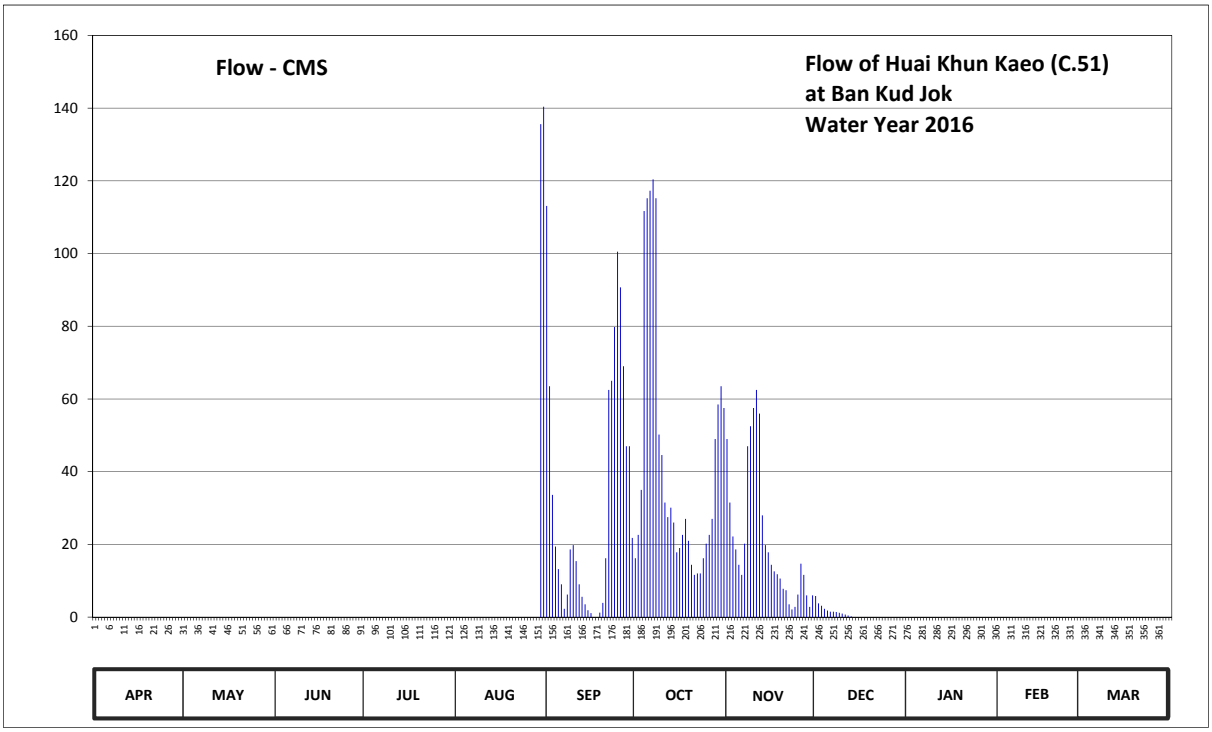
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.26	29.26	29.49	29.49	29.49	33.73	32.13	32.65	31.69	30.60	30.69	30.62	
2	29.26	29.26	29.49	29.49	29.49	32.95	32.29	32.45	31.58	30.61	30.65	30.62	
3	29.26	29.26	29.49	29.49	29.49	32.48	32.50	32.28	31.51	30.63	30.62	30.62	
4	29.26	29.26	29.49	29.49	29.49	32.21	33.71	32.19	31.43	30.65	30.62	30.62	
5	29.26	29.26	29.49	29.49	29.49	32.04	33.76	32.08	31.36	30.67	30.62	30.62	
6	29.26	29.26	29.49	29.49	29.49	31.85	33.79	31.98	31.30	30.69	30.62	30.62	
7	29.26	29.26	29.49	29.49	29.49	31.43	33.83	32.23	31.30	30.70	30.62	30.62	
8	29.26	29.26	29.49	29.49	29.49	31.71	33.76	32.60	31.28	30.72	30.62	30.62	
9	29.26	29.26	29.49	29.49	29.49	32.19	32.68	32.73	31.24	30.75	30.62	30.62	
10	29.26	29.26	29.49	29.49	29.49	32.22	32.58	32.83	31.19	30.78	30.62	30.62	
11	29.26	29.26	29.49	29.49	29.49	32.11	32.45	32.93	31.14	30.81	30.62	30.62	
12	29.26	29.26	29.49	29.49	29.49	31.85	32.39	32.80	31.09	30.84	30.62	30.62	
13	29.26	29.26	29.49	29.49	29.49	31.68	32.43	32.40	31.04	30.85	30.62	30.62	
14	29.26	29.26	29.49	29.49	29.49	31.55	32.36	32.22	30.99	30.86	30.62	30.62	
15	29.26	29.26	29.49	29.49	29.49	31.38	32.17	32.17	30.94	30.87	30.62	30.62	
16	29.26	29.26	29.49	29.49	29.49	31.22	32.20	32.08	30.91	30.87	30.62	30.62	
17	29.26	29.26	29.49	29.49	29.49	30.93	32.29	32.02	30.90	30.88	30.62	30.62	
18	29.26	29.26	29.49	29.49	29.49	30.90	32.38	31.99	30.88	30.89	30.62	30.62	
19	29.26	29.26	29.49	29.49	29.49	31.25	32.25	31.93	30.87	30.89	30.62	30.62	
20	29.26	29.26	29.49	29.49	29.49	31.59	32.08	31.79	30.87	30.90	30.62	30.62	
21	29.26	29.26	29.49	29.49	29.49	32.13	31.98	31.77	30.87	30.91	30.62	30.62	
22	29.26	29.26	29.49	29.49	29.49	32.93	32.00	31.55	30.85	30.91	30.62	30.62	
23	29.26	29.26	29.49	29.49	29.49	32.98	32.00	31.41	30.84	30.90	30.62	30.62	
24	29.26	29.26	29.49	29.49	29.49	33.23	32.13	31.48	30.82	30.89	30.62	30.62	
25	29.26	29.26	29.49	29.49	29.49	33.55	32.23	31.71	30.80	30.87	30.62	30.62	
26	29.26	29.26	29.49	29.49	29.49	33.41	32.29	32.09	30.78	30.83	30.62	30.62	
27	29.26	29.26	29.49	29.49	29.49	33.05	32.38	31.98	30.76	30.80	30.62	30.62	
28	29.26	29.26	29.49	29.49	29.49	32.60	32.65	31.70	30.72	30.78	30.62	30.62	
29	29.26	29.26	29.49	29.49	29.49	32.60	32.85	31.48	30.66	30.75		30.62	
30	29.26	29.26	29.49	29.49	34.02	32.27	32.95	31.70	30.62	30.74		30.62	
31		29.26		29.49	34.08		32.83		30.60	30.72		30.62	
Mean	29.26	29.26	29.49	29.49	29.78	32.20	32.59	32.11	31.03	30.79	30.62	30.62	
Max	29.26	29.26	29.49	29.49	34.08	33.73	33.83	32.93	31.69	30.91	30.69	30.62	34.08
Min	29.26	29.26	29.49	29.49	29.49	30.90	31.98	31.41	30.60	30.60	30.62	30.62	29.26

Annual Max Momentary Gage Height 34.25 m. (MSL.) , at 05.00 Hours , on Aug 31 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 29.49 m. (MSL.)

Left Bank Elevation 37.41 m. (MSL.) ,

Right Bank Elevation 37.35 m. (MSL.) , Drainage Are 1,059 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	113.10	16.20	49.00	5.80	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	63.50	22.60	31.50	3.80	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	33.60	35.00	22.20	3.10	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	19.40	111.70	18.60	2.30	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	13.20	115.20	14.40	1.80	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	9.00	117.30	11.60	1.50	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	2.30	120.40	20.20	1.50	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	6.20	115.20	47.00	1.40	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	18.60	50.20	52.50	1.20	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	19.80	44.60	57.50	0.95	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	15.40	31.50	62.50	0.70	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	9.00	27.50	56.00	0.45	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	5.60	30.10	28.00	0.20	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	3.50	26.00	19.80	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	1.90	17.80	17.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	1.10	19.00	14.40	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	22.60	12.60	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	27.00	11.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	1.25	21.00	10.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	3.90	14.40	7.80	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	16.20	11.60	7.40	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	62.50	12.00	3.50	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	65.00	12.00	2.10	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	79.80	16.20	2.80	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	100.50	20.20	6.20	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	90.70	22.60	14.70	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	69.00	27.00	11.60	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	47.00	49.00	6.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	47.00	58.50	2.80	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	135.60	21.80	63.50	6.00	0.00	0.00		0.00	
31		0.00		0.00	140.40		57.50		0.00	0.00		0.00	
Total	0.00	0.00	0.00	0.00	276.00	939.85	1335.40	628.90	24.70	0.00	0.00	0.00	3204.85 CMSDAY
Mean	0.00	0.00	0.00	0.00	8.90	31.33	43.08	20.96	0.80	0.00	0.00	0.00	8.78 CMS
Max	0.00	0.00	0.00	0.00	140.40	113.10	120.40	62.50	5.80	0.00	0.00	0.00	140.40 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	11.60	2.10	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	23.85	81.20	115.38	54.34	2.13	0.00	0.00	0.00	276.90 MCM

Momentary Peak 154.00 CMS. at 34.25 m. (MSL.) at 05.00 Hours , on Aug 31 , 2016

Runoff Yield 8.29 Liters/Second/Square KM. Momentary Peak Yield 145.400 Liters/Second/Square KM.

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Tha Nam Ooy, Nakhon Sawan (C.56)

Lat 15 - 25 - 13 N Long 100 - 08 - 08 E

Location : on left bank at Ban Tha Nam Ooy

Ban Tha Nam Ooy **Amphoe** Phayuha Khiti **Changwat** Nakhon Sawan

Drainge Area	Flood Plain
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+0.000 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the bridge **Elevation** +21.898 m. (M.S.L.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

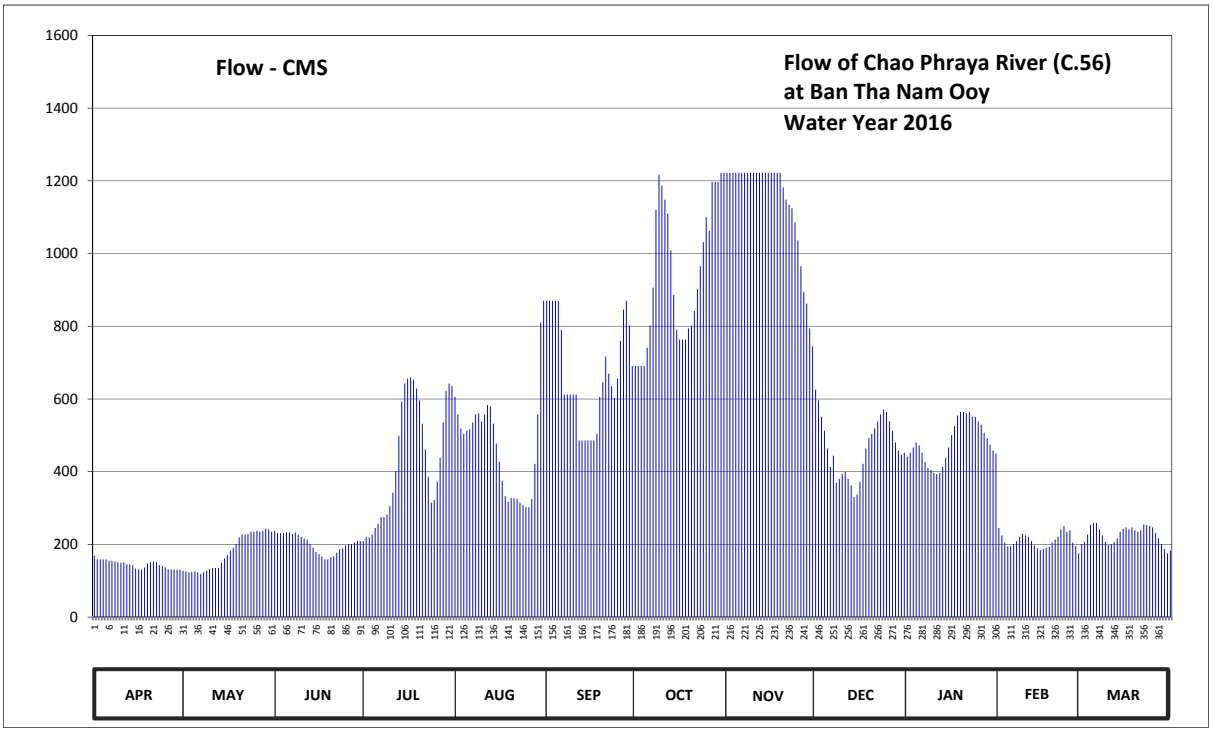
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.57	14.35	14.91	14.77	16.28	17.00	16.53	17.78	16.34	15.74	14.95	14.73	
2	14.52	14.34	14.88	14.83	16.13	17.00	16.53	17.78	16.25	15.78	14.85	14.76	
3	14.52	14.32	14.88	14.82	16.01	17.00	16.53	17.78	16.11	15.83	14.75	14.86	
4	14.52	14.33	14.88	14.86	15.96	17.00	16.53	17.78	15.99	15.88	14.70	14.99	
5	14.52	14.34	14.89	14.95	15.99	17.00	16.67	17.78	15.82	15.85	14.70	15.02	
6	14.50	14.32	14.89	15.01	16.00	16.80	16.83	17.78	15.64	15.78	14.73	15.02	
7	14.50	14.29	14.87	15.10	16.06	16.30	17.09	17.78	15.75	15.69	14.77	14.93	
8	14.49	14.32	14.89	15.10	16.13	16.30	17.57	17.78	15.48	15.63	14.83	14.85	
9	14.48	14.35	14.86	15.13	16.14	16.30	17.77	17.78	15.52	15.61	14.87	14.76	
10	14.47	14.38	14.83	15.22	16.07	16.30	17.71	17.78	15.57	15.58	14.85	14.72	
11	14.48	14.40	14.81	15.37	16.13	16.30	17.63	17.78	15.59	15.57	14.83	14.73	
12	14.45	14.40	14.79	15.60	16.21	15.90	17.55	17.78	15.52	15.58	14.77	14.76	
13	14.45	14.40	14.73	15.94	16.20	15.90	17.33	17.78	15.45	15.64	14.71	14.81	
14	14.44	14.47	14.68	16.24	16.05	15.90	17.04	17.78	15.32	15.73	14.67	14.90	
15	14.39	14.53	14.62	16.39	15.87	15.90	16.80	17.78	15.35	15.83	14.65	14.94	
16	14.37	14.58	14.59	16.43	15.69	15.90	16.73	17.78	15.49	15.95	14.66	14.96	
17	14.37	14.64	14.56	16.44	15.50	15.90	16.73	17.78	15.67	16.03	14.68	14.93	
18	14.41	14.68	14.52	16.42	15.33	15.96	16.73	17.78	15.82	16.12	14.69	14.96	
19	14.46	14.73	14.52	16.35	15.27	16.28	16.81	17.78	15.92	16.15	14.75	14.92	
20	14.48	14.82	14.55	16.25	15.31	16.40	16.83	17.70	15.96	16.15	14.79	14.90	
21	14.49	14.86	14.56	16.05	15.31	16.60	16.93	17.63	16.01	16.14	14.83	14.92	
22	14.48	14.86	14.61	15.81	15.30	16.47	17.08	17.60	16.07	16.15	14.93	15.00	
23	14.44	14.87	14.66	15.54	15.26	16.37	17.23	17.58	16.13	16.11	14.98	14.99	
24	14.43	14.90	14.67	15.26	15.23	16.27	17.38	17.50	16.17	16.11	14.90	14.98	
25	14.41	14.90	14.71	15.29	15.21	16.43	17.53	17.39	16.15	16.07	14.92	14.96	
26	14.38	14.91	14.73	15.49	15.21	16.72	17.45	17.23	16.07	16.04	14.75	14.88	
27	14.37	14.90	14.73	15.73	15.30	16.94	17.73	17.06	15.99	15.97	14.70	14.81	
28	14.37	14.91	14.75	16.06	15.67	17.00	17.73	16.98	15.88	15.92	14.60	14.73	
29	14.37	14.94	14.77	16.33	16.13	16.83	17.73	16.81	15.80	15.86		14.66	
30	14.37	14.93	14.77	16.39	16.85	16.53	17.78	16.68	15.76	15.80		14.60	
31		14.90		16.37	17.00		17.78		15.78	15.77		14.64	
Mean	14.45	14.61	14.74	15.66	15.83	16.45	17.17	17.60	15.82	15.87	14.78	14.86	
Max	14.57	14.94	14.91	16.44	17.00	17.00	17.78	17.78	16.34	16.15	14.98	15.02	17.78
Min	14.37	14.29	14.52	14.77	15.21	15.90	16.53	16.68	15.32	15.57	14.60	14.60	14.29

Annual Max Momentary Gage Height 17.78 m. (MSL.) , at 06.00 Hours , on Oct 30 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 7.74 m. (MSL.)

Left Bank Elevation 23.03 m. (MSL.) ,

Right Bank Elevation 23.55 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.00	127.50	237.00	209.00	605.60	870.00	690.80	1222.00	625.60	441.20	245.00	201.00	
2	159.00	126.00	231.00	221.00	557.60	870.00	690.80	1222.00	596.00	452.40	225.00	207.00	
3	159.00	123.00	231.00	219.00	519.20	870.00	690.80	1222.00	551.20	466.40	205.00	227.00	
4	159.00	124.50	231.00	227.00	504.00	870.00	690.80	1222.00	513.00	480.40	195.00	253.00	
5	159.00	126.00	233.00	245.00	513.00	870.00	741.20	1222.00	463.60	472.00	195.00	259.00	
6	155.00	123.00	233.00	257.00	516.00	790.00	802.00	1222.00	413.20	452.40	201.00	259.00	
7	155.00	118.50	229.00	275.00	535.20	612.00	906.00	1222.00	444.00	427.20	209.00	241.00	
8	153.00	123.00	233.00	275.00	557.60	612.00	1119.60	1222.00	370.00	410.40	221.00	225.00	
9	151.00	127.50	227.00	282.50	560.80	612.00	1217.00	1222.00	380.40	404.80	229.00	207.00	
10	149.00	132.00	221.00	305.00	538.40	612.00	1187.00	1222.00	393.90	396.60	225.00	199.00	
11	151.00	135.00	217.00	342.50	557.60	612.00	1148.40	1222.00	399.30	393.90	221.00	201.00	
12	145.00	135.00	213.00	402.00	583.20	486.00	1110.00	1222.00	380.40	396.60	209.00	207.00	
13	145.00	135.00	201.00	498.00	580.00	486.00	1009.20	1222.00	362.50	413.20	197.00	217.00	
14	143.00	149.00	191.00	592.80	532.00	486.00	886.00	1222.00	330.00	438.40	189.00	235.00	
15	133.50	161.00	179.00	642.60	477.60	486.00	790.00	1222.00	337.50	466.40	185.00	243.00	
16	130.50	171.00	173.00	656.20	427.20	486.00	763.40	1222.00	372.50	501.00	187.00	247.00	
17	130.50	183.00	167.00	659.60	375.00	486.00	763.40	1222.00	421.60	525.60	191.00	241.00	
18	137.00	191.00	159.00	652.80	332.50	504.00	763.40	1222.00	463.60	554.40	193.00	247.00	
19	147.00	201.00	159.00	629.00	317.50	605.60	794.00	1222.00	492.00	564.00	205.00	239.00	
20	151.00	219.00	165.00	596.00	327.50	646.00	802.00	1182.00	504.00	564.00	213.00	235.00	
21	153.00	227.00	167.00	532.00	327.50	716.00	842.00	1148.40	519.20	560.80	221.00	239.00	
22	151.00	227.00	177.00	460.80	325.00	669.80	902.00	1134.00	538.40	564.00	241.00	255.00	
23	143.00	229.00	187.00	385.80	315.00	635.80	965.20	1124.40	557.60	551.20	251.00	253.00	
24	141.00	235.00	189.00	315.00	307.50	602.40	1031.20	1086.00	570.40	551.20	235.00	251.00	
25	137.00	235.00	197.00	322.50	302.50	656.20	1100.40	1035.60	564.00	538.40	239.00	247.00	
26	132.00	237.00	201.00	372.50	302.50	759.60	1063.00	965.20	538.40	528.80	205.00	231.00	
27	130.50	235.00	201.00	438.40	325.00	846.00	1197.00	894.00	513.00	507.00	195.00	217.00	
28	130.50	237.00	205.00	535.20	421.60	870.00	1197.00	862.00	480.40	492.00	175.00	201.00	
29	130.50	243.00	209.00	622.20	557.60	802.00	1197.00	794.00	458.00	474.80		187.00	
30	130.50	241.00	209.00	642.60	810.00	690.80	1222.00	744.80	446.80	458.00		175.00	
31		235.00		635.80	870.00		1222.00		452.40	449.60		183.00	
Total	4360.50	5512.00	6072.00	13449.80	14781.70	20120.20	29504.60	34188.40	14452.90	14897.10	5902.00	7029.00	170270.20	CMSDAY
Mean	145.35	177.81	202.40	433.86	476.83	670.67	951.76	1139.61	466.22	480.55	210.79	226.74	466.49	CMS
Max	169.00	243.00	237.00	659.60	870.00	870.00	1222.00	1222.00	625.60	564.00	251.00	259.00	1222.00	CMS
Min	130.50	118.50	159.00	209.00	302.50	486.00	690.80	744.80	330.00	393.90	175.00	175.00	118.50	CMS
Runoff	376.75	476.24	524.62	1162.06	1277.14	1738.39	2549.20	2953.88	1248.73	1287.11	509.93	607.31	14711.35	MCM

Momentary Peak 1222.00 CMS. at 17.78 m. (MSL.) at 06.00 Hours , on Oct 30 , 2016

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

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Khlong Kratong at Ban Nong Bua, Chai Nat (C.58)

Lat 15 - 18 - 30 N Long 100 - 02 - 57 E

Location : on right bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Wat Sing **Changwat** Chai Nat

Drainge Area	Flood Plain
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the bridge **Elevation** +19.970 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

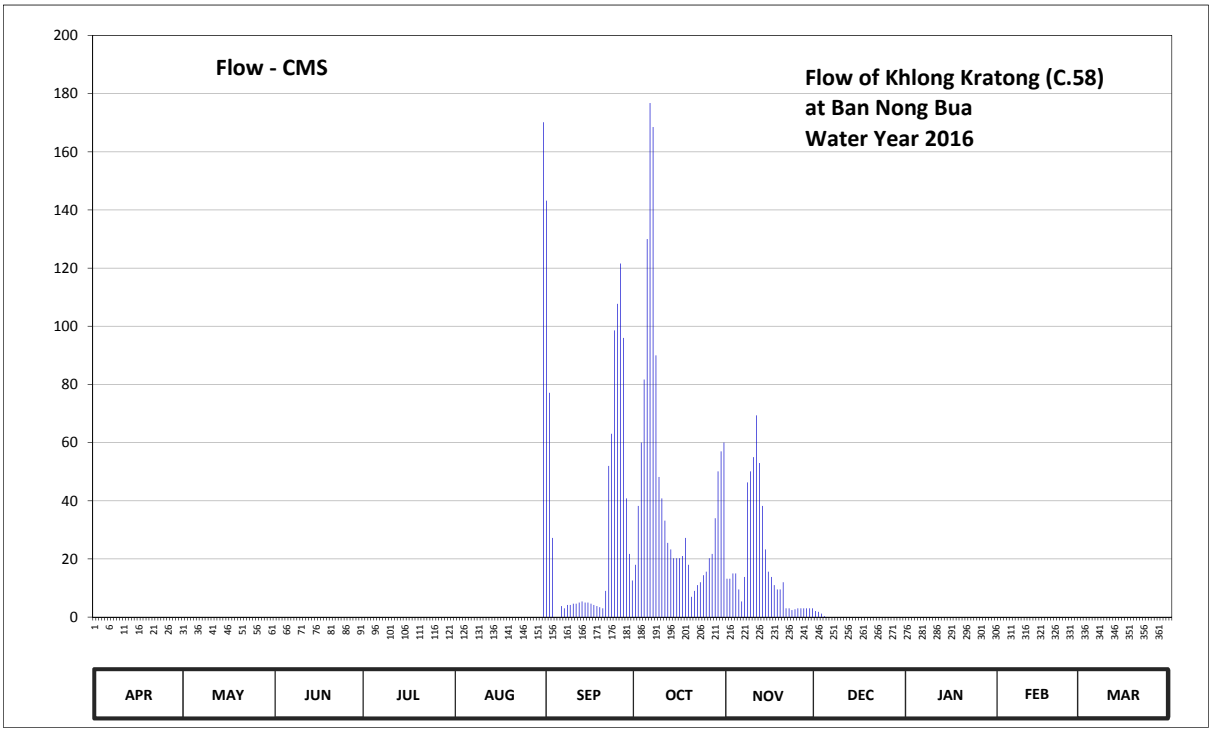
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.90	14.90	14.83	14.83	15.86	19.34	18.20	18.12	17.87	14.90	14.90	14.90	
2	14.90	14.90	14.83	14.83	15.91	18.84	18.45	18.12	17.86	14.90	14.90	14.90	
3	14.90	14.90	14.83	14.83	15.94	18.32	18.68	18.15	17.84	14.90	14.90	14.90	
4	14.90	14.90	14.83	14.83	15.97	17.77	18.88	18.15	17.81	14.90	14.90	14.90	
5	14.90	14.90	14.83	14.83	16.04	17.69	19.25	18.05	17.78	14.90	14.90	14.90	
6	14.90	14.90	14.83	14.83	16.17	17.92	19.55	17.96	17.76	14.90	14.90	14.90	
7	14.90	14.90	14.83	14.83	16.26	17.90	19.50	18.13	17.73	14.90	14.90	14.90	
8	14.90	14.90	14.83	14.83	16.39	17.93	18.95	18.54	17.69	14.90	14.90	14.90	
9	14.90	14.90	14.83	14.83	16.57	17.93	18.56	18.58	17.66	14.90	14.90	14.90	
10	14.90	14.90	14.83	14.83	16.71	17.94	18.48	18.63	17.65	14.90	14.90	14.90	
11	14.90	14.90	14.83	14.83	16.69	17.94	18.39	18.77	17.61	14.90	14.90	14.90	
12	14.90	14.90	14.83	15.11	16.66	17.95	18.30	18.61	17.58	14.90	14.90	14.90	
13	14.90	14.90	14.83	15.67	16.61	17.96	18.27	18.45	17.55	14.90	14.90	14.90	
14	14.90	14.90	14.83	15.76	16.56	17.95	18.23	18.27	17.53	14.90	14.90	14.90	
15	14.90	14.90	14.83	15.80	16.53	17.95	18.23	18.16	17.51	14.90	14.90	14.90	
16	14.90	14.90	14.83	15.83	16.46	17.94	18.23	18.13	17.48	14.90	14.90	14.90	
17	14.90	14.90	14.83	15.85	16.43	17.93	18.24	18.08	17.44	14.90	14.90	14.90	
18	14.90	14.90	14.83	15.82	16.37	17.92	18.32	18.05	17.39	14.90	14.90	14.90	
19	14.90	14.90	14.83	15.80	16.32	17.91	18.20	18.05	17.32	14.90	14.90	14.90	
20	14.90	14.90	14.83	15.79	16.27	17.90	18.00	18.10	17.22	14.90	14.90	14.90	
21	14.90	14.90	14.83	15.79	16.19	18.04	18.04	17.90	17.16	14.90	14.90	14.90	
22	14.90	14.90	14.83	15.79	16.13	18.60	18.08	17.90	17.14	14.90	14.90	14.90	
23	14.90	14.90	14.83	15.78	15.97	18.71	18.10	17.88	17.09	14.90	14.90	14.90	
24	14.90	14.90	14.83	15.77	15.92	19.02	18.14	17.89	17.03	14.90	14.90	14.90	
25	14.90	14.90	14.83	15.78	16.06	19.09	18.16	17.90	16.99	14.90	14.90	14.90	
26	14.90	14.90	14.83	15.78	16.11	19.19	18.23	17.90	16.94	14.90	14.90	14.90	
27	14.90	14.90	14.83	15.76	16.24	19.00	18.25	17.90	16.89	14.90	14.90	14.90	
28	14.90	14.90	14.83	15.75	16.37	18.48	18.40	17.90	16.86	14.90	14.90	14.90	
29	14.90	14.90	14.83	15.74	16.63	18.25	18.58	17.90	16.84	14.90		14.90	
30	14.90	14.90	14.83	15.74	17.69	18.11	18.65	17.90	16.83	14.90		14.90	
31		14.90		15.73	19.51		18.68		16.81	14.90		14.90	
Mean	14.90	14.90	14.83	15.42	16.44	18.25	18.46	18.14	17.38	14.90	14.90	14.90	
Max	14.90	14.90	14.83	15.85	19.51	19.34	19.55	18.77	17.87	14.90	14.90	14.90	19.55
Min	14.90	14.90	14.83	14.83	15.86	17.69	18.00	17.88	16.81	14.90	14.90	14.90	14.83

Annual Max Momentary Gage Height 19.55 m. (MSL.) , at 06.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 14.83 m. (MSL.)

Left Bank Elevation 20.09 m. (MSL.) ,

Right Bank Elevation 20.05 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	143.20	18.00	13.20	2.10	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	77.10	38.25	13.20	1.80	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	27.20	60.00	15.00	1.20	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	81.70	15.00	0.30	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	130.00	9.50	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	3.80	176.75	5.40	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	3.00	168.50	13.80	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	4.20	90.00	46.30	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	4.20	48.20	50.10	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	4.60	40.80	55.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	4.60	33.15	69.35	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	5.00	25.50	53.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	5.40	23.25	38.25	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	5.00	20.25	23.25	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	5.00	20.25	15.60	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	4.60	20.25	13.80	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	4.20	21.00	11.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	3.80	27.20	9.50	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	3.40	18.00	9.50	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	3.00	7.00	12.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	9.00	9.00	3.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	52.00	11.00	3.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	63.05	12.00	2.40	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	98.60	14.40	2.70	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	107.70	15.60	3.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	121.60	20.25	3.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	96.00	21.75	3.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	40.80	34.00	3.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	21.75	50.10	3.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.00	12.60	57.00	3.00	0.00	0.00		0.00		
31		0.00		0.00	170.15		60.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	170.15	934.40	1373.15	520.85	5.40	0.00	0.00	0.00	3003.95	CMSDAY
Mean	0.00	0.00	0.00	0.00	5.49	31.15	44.30	17.36	0.17	0.00	0.00	0.00	8.23	CMS
Max	0.00	0.00	0.00	0.00	170.15	143.20	176.75	69.35	2.10	0.00	0.00	0.00	176.75	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	7.00	2.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	14.70	80.73	118.64	45.00	0.47	0.00	0.00	0.00	259.54	MCM

Momentary Peak 176.75 CMS. at 19.55 m. (MSL.) at 06.00 Hours , on Oct 6 , 2016

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

WATER YEAR : 2016

LOP BURI RIVER BASIN

Lop Buri River at Ban Pho Kaoton , Sing Buri (L.2B)

Lat 14 - 45 - 37 N Long 100 - 36 - 15 E

Location : on right bank at Ban Pho Kaoton.

	Ban Pho Kaoton	**Amphoe** Mueang	**Changwat** Sing Buri
Drainge Area	3,307 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage buiding	**Elevation**	+5.210 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 4 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

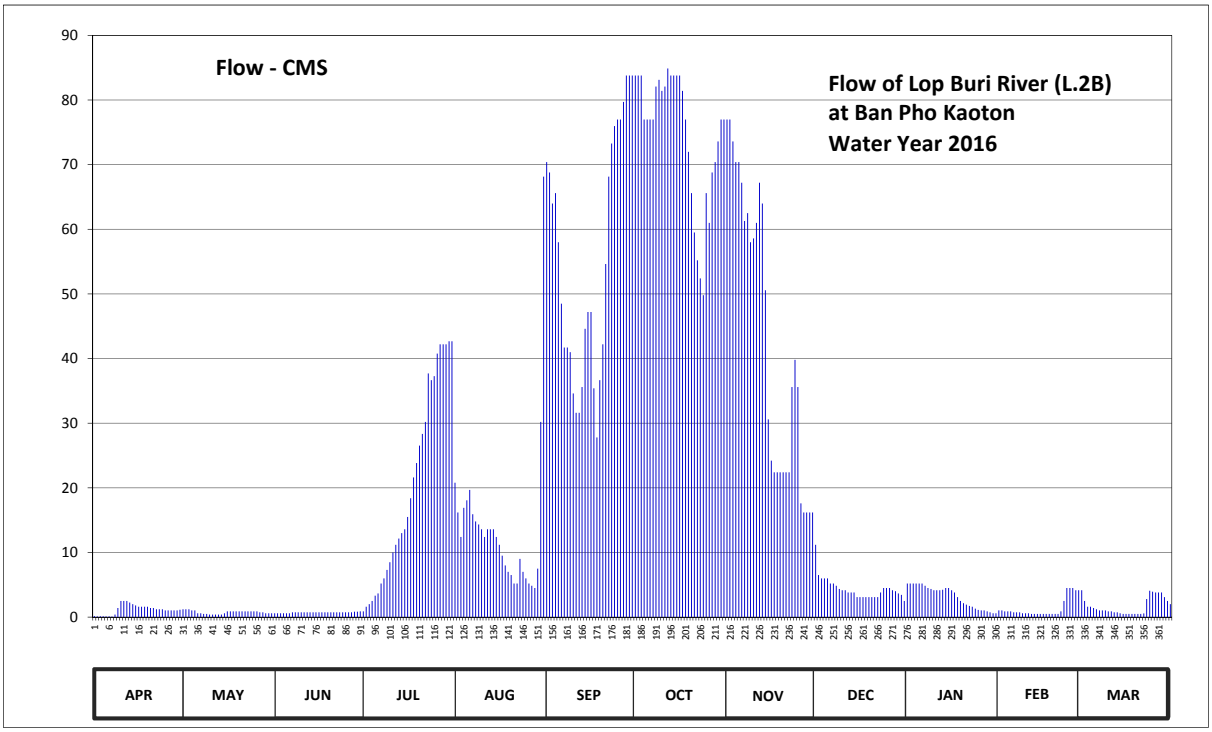
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	1.70	1.50	1.60	3.70	5.80	6.20	6.00	3.00	2.40	1.65	2.25	
2	1.26	1.70	1.50	1.80	3.40	5.75	6.20	6.00	2.55	2.40	1.65	2.00	
3	1.27	1.70	1.50	1.90	3.10	5.60	6.20	5.90	2.50	2.40	1.60	1.80	
4	1.27	1.65	1.50	2.00	3.45	5.65	6.00	5.80	2.50	2.40	1.60	1.80	
5	1.26	1.65	1.50	2.13	3.53	5.40	6.00	5.80	2.50	2.40	1.60	1.75	
6	1.26	1.50	1.50	2.18	3.63	5.05	6.00	5.70	2.40	2.40	1.55	1.70	
7	1.25	1.50	1.55	2.40	3.38	4.78	6.00	5.51	2.40	2.35	1.55	1.65	
8	1.40	1.45	1.55	2.50	3.30	4.78	6.15	5.55	2.35	2.30	1.55	1.65	
9	1.75	1.45	1.55	2.63	3.26	4.75	6.18	5.40	2.28	2.28	1.50	1.65	
10	2.00	1.40	1.55	2.75	3.20	4.45	6.13	5.42	2.25	2.25	1.50	1.60	
11	2.00	1.40	1.55	2.90	3.10	4.30	6.15	5.50	2.25	2.25	1.50	1.60	
12	2.00	1.40	1.55	3.00	3.20	4.30	6.23	5.70	2.20	2.25	1.45	1.55	
13	1.95	1.40	1.55	3.08	3.20	4.50	6.20	5.60	2.20	2.26	1.45	1.55	
14	1.90	1.40	1.55	3.15	3.20	4.90	6.20	5.13	2.20	2.30	1.45	1.50	
15	1.85	1.50	1.55	3.20	3.10	5.00	6.20	4.25	2.10	2.30	1.45	1.45	
16	1.80	1.60	1.55	3.35	3.00	5.00	6.20	3.90	2.10	2.25	1.45	1.45	
17	1.80	1.60	1.55	3.55	2.85	4.49	6.13	3.80	2.10	2.20	1.45	1.45	
18	1.80	1.60	1.55	3.75	2.70	4.10	6.00	3.80	2.10	2.10	1.45	1.45	
19	1.80	1.60	1.55	3.88	2.60	4.55	5.85	3.80	2.10	2.00	1.45	1.45	
20	1.75	1.60	1.55	4.03	2.55	4.80	5.65	3.80	2.10	1.93	1.45	1.45	
21	1.75	1.60	1.55	4.13	2.40	5.28	5.45	3.80	2.10	1.88	1.45	1.45	
22	1.70	1.60	1.55	4.23	2.40	5.73	5.30	3.80	2.10	1.83	1.60	1.48	
23	1.70	1.60	1.55	4.60	2.80	5.89	5.20	4.50	2.20	1.80	2.00	2.05	
24	1.70	1.60	1.55	4.55	2.60	5.97	5.10	4.70	2.30	1.73	2.30	2.24	
25	1.65	1.60	1.55	4.58	2.50	6.00	5.65	4.50	2.30	1.67	2.30	2.22	
26	1.65	1.60	1.55	4.74	2.40	6.00	5.50	3.50	2.30	1.65	2.30	2.20	
27	1.65	1.55	1.55	4.80	2.35	6.08	5.75	3.40	2.25	1.65	2.25	2.20	
28	1.65	1.55	1.58	4.80	2.30	6.20	5.80	3.40	2.23	1.60	2.25	2.20	
29	1.65	1.50	1.58	4.80	2.65	6.20	5.90	3.40	2.18	1.55		2.10	
30	1.68	1.50	1.60	4.82	4.23	6.20	6.00	3.40	2.15	1.50		2.00	
31		1.50		4.82	5.73		6.00		2.00	1.50		1.90	
Mean	1.65	1.55	1.54	3.44	3.09	5.25	5.92	4.69	2.27	2.06	1.67	1.77	
Max	2.00	1.70	1.60	4.82	5.73	6.20	6.23	6.00	3.00	2.40	2.30	2.25	6.23
Min	1.25	1.40	1.50	1.60	2.30	4.10	5.10	3.40	2.00	1.50	1.45	1.45	1.25

Annual Max Momentary Gage Height 6.25 m. (MSL.) , at 06.00 Hours , on Oct 12 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.67 m. (MSL.)

Left Bank Elevation 9.82 m. (MSL.) ,

Right Bank Elevation 9.81 m. (MSL.) , Drainage Are 3,307 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	1.20	0.60	0.90	20.80	70.40	83.80	77.00	11.20	5.20	1.05	4.15	
2	0.12	1.20	0.60	1.60	16.20	68.80	83.80	77.00	6.50	5.20	1.05	2.50	
3	0.14	1.20	0.60	2.00	12.40	64.00	83.80	73.60	6.00	5.20	0.90	1.60	
4	0.14	1.05	0.60	2.50	16.90	65.60	77.00	70.40	6.00	5.20	0.90	1.60	
5	0.12	1.05	0.60	3.31	18.08	58.00	77.00	70.40	6.00	5.20	0.90	1.40	
6	0.12	0.60	0.60	3.66	19.68	48.50	77.00	67.20	5.20	5.20	0.75	1.20	
7	0.10	0.60	0.75	5.20	15.92	41.72	77.00	61.30	5.20	4.85	0.75	1.05	
8	0.40	0.50	0.75	6.00	14.80	41.72	82.10	62.50	4.85	4.50	0.75	1.05	
9	1.40	0.50	0.75	7.30	14.32	41.00	83.12	58.00	4.36	4.36	0.60	1.05	
10	2.50	0.40	0.75	8.50	13.60	34.60	81.42	58.60	4.15	4.15	0.60	0.90	
11	2.50	0.40	0.75	10.00	12.40	31.60	82.10	61.00	4.15	4.15	0.60	0.90	
12	2.50	0.40	0.75	11.20	13.60	31.60	84.88	67.20	3.80	4.15	0.50	0.75	
13	2.25	0.40	0.75	12.16	13.60	35.60	83.80	64.00	3.80	4.22	0.50	0.75	
14	2.00	0.40	0.75	13.00	13.60	44.60	83.80	50.58	3.80	4.50	0.50	0.60	
15	1.80	0.60	0.75	13.60	12.40	47.20	83.80	30.60	3.10	4.50	0.50	0.50	
16	1.60	0.90	0.75	15.50	11.20	47.20	83.80	24.20	3.10	4.15	0.50	0.50	
17	1.60	0.90	0.75	18.40	9.50	35.40	81.42	22.40	3.10	3.80	0.50	0.50	
18	1.60	0.90	0.75	21.60	8.00	27.80	77.00	22.40	3.10	3.10	0.50	0.50	
19	1.60	0.90	0.75	23.84	7.00	36.65	72.00	22.40	3.10	2.50	0.50	0.50	
20	1.40	0.90	0.75	26.54	6.50	42.20	65.60	22.40	3.10	2.15	0.50	0.50	
21	1.40	0.90	0.75	28.34	5.20	54.64	59.50	22.40	3.10	1.92	0.50	0.50	
22	1.20	0.90	0.75	30.20	5.20	68.16	55.20	22.40	3.10	1.72	0.90	0.56	
23	1.20	0.90	0.75	37.70	9.00	73.28	52.40	35.60	3.80	1.60	2.50	2.80	
24	1.20	0.90	0.75	36.65	7.00	75.98	49.80	39.80	4.50	1.32	4.50	4.08	
25	1.05	0.90	0.75	37.28	6.00	77.00	65.60	35.60	4.50	1.11	4.50	3.94	
26	1.05	0.90	0.75	40.76	5.20	77.00	61.00	17.60	4.50	1.05	4.50	3.80	
27	1.05	0.75	0.75	42.20	4.85	79.72	68.80	16.20	4.15	1.05	4.15	3.80	
28	1.05	0.75	0.84	42.20	4.50	83.80	70.40	16.20	4.01	0.90	4.15	3.80	
29	1.05	0.60	0.84	42.20	7.50	83.80	73.60	16.20	3.66	0.75		3.10	
30	1.14	0.60	0.90	42.68	30.20	83.80	77.00	16.20	3.45	0.60		2.50	
31		0.60		42.68	68.16		77.00		2.50	0.60		2.00	
Total	35.44	23.70	21.93	629.70	423.31	1671.37	2314.54	1301.38	134.88	98.90	39.05	53.38	6747.58	CMSDAY
Mean	1.18	0.76	0.73	20.31	13.66	55.71	74.66	43.38	4.35	3.19	1.39	1.72	18.49	CMS
Max	2.50	1.20	0.90	42.68	68.16	83.80	84.88	77.00	11.20	5.20	4.50	4.15	84.88	CMS
Min	0.10	0.40	0.60	0.90	4.50	27.80	49.80	16.20	2.50	0.60	0.50	0.50	0.10	CMS
Runoff	3.06	2.05	1.89	54.41	36.57	144.41	199.98	112.44	11.65	8.54	3.37	4.61	582.99	MCM

Momentary Peak 85.60 CMS. at 6.25 m. (MSL.) at 06.00 Hours , on Oct 12 , 2016

Runoff Yield 5.59 Liters/Second/Square KM. Momentary Peak Yield 25.880 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Sakae Krang River at Ban Hat Tanong, Uthai Thani (Ct.2A)

Lat 15 - 24 - 39 N Long 100 - 03 - 29 E

Location : on left bank at Ban Hat Tanong.

	Ban Hat Tanong	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,641 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge		**Elevation** +20.130 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

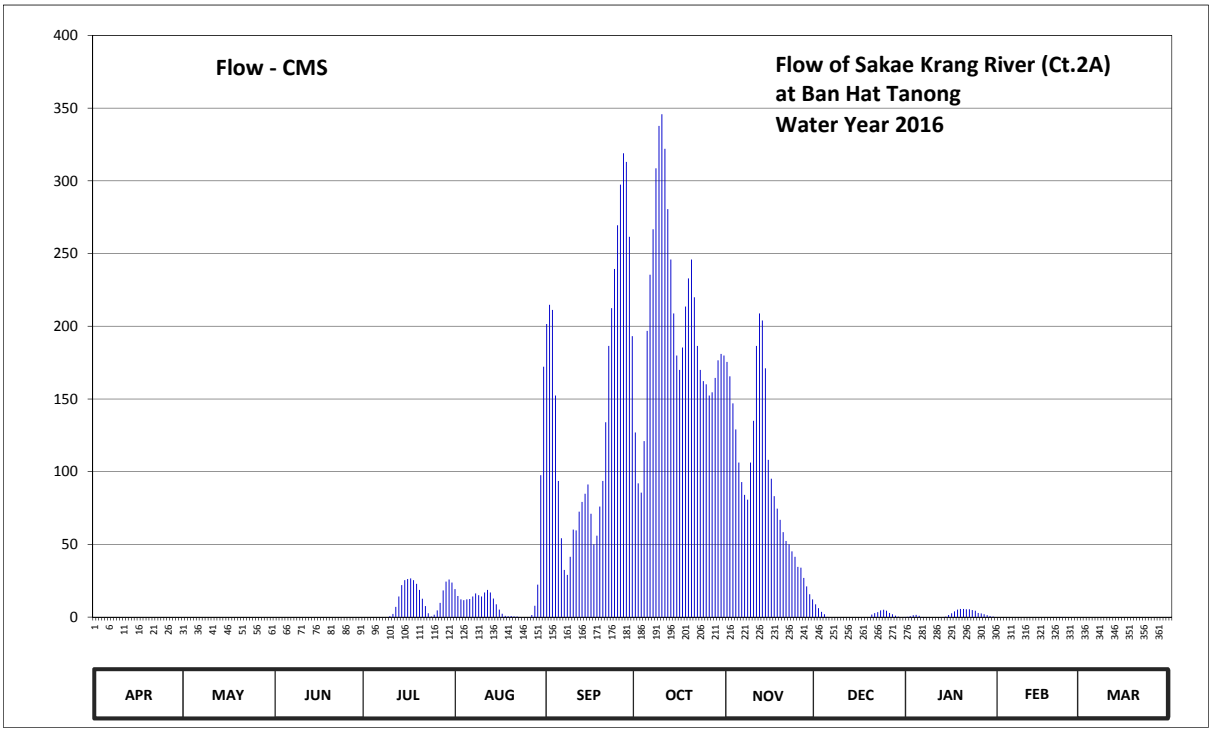
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.27	14.10	14.68	14.60	16.01	18.38	17.69	18.15	15.59	15.02	14.98	14.75	
2	14.23	14.17	14.66	14.58	15.85	18.49	17.30	18.06	15.46	15.07	14.88	14.80	
3	14.23	14.16	14.66	14.59	15.76	18.46	17.22	17.89	15.33	15.13	14.79	14.91	
4	14.23	14.18	14.66	14.65	15.73	17.94	17.63	17.71	15.20	15.15	14.76	14.99	
5	14.23	14.16	14.65	14.74	15.76	17.32	18.34	17.47	15.01	15.09	14.77	15.00	
6	14.21	14.14	14.64	14.80	15.77	16.77	18.65	17.31	14.84	15.01	14.80	15.00	
7	14.21	14.14	14.64	14.87	15.84	16.37	18.89	17.20	14.73	14.95	14.85	14.93	
8	14.21	14.17	14.64	14.88	15.91	16.30	19.19	17.16	14.73	14.90	14.90	14.85	
9	14.20	14.20	14.61	14.94	15.87	16.55	19.38	17.47	14.77	14.88	14.93	14.77	
10	14.19	14.22	14.59	15.06	15.84	16.87	19.43	17.77	14.78	14.85	14.92	14.76	
11	14.18	14.23	14.57	15.22	15.93	16.86	19.28	18.25	14.78	14.85	14.87	14.76	
12	14.17	14.24	14.53	15.50	15.99	17.05	18.99	18.44	14.72	14.88	14.81	14.80	
13	14.16	14.22	14.47	15.84	15.93	17.14	18.73	18.40	14.61	14.94	14.76	14.85	
14	14.14	14.34	14.42	16.10	15.79	17.21	18.44	18.11	14.57	15.03	14.73	14.94	
15	14.10	14.39	14.38	16.21	15.59	17.29	18.19	17.49	14.63	15.14	14.72	14.98	
16	14.09	14.43	14.34	16.23	15.41	17.03	18.10	17.34	14.76	15.26	14.73	14.98	
17	14.11	14.49	14.30	16.24	15.23	16.70	18.24	17.19	14.78	15.35	14.76	14.96	
18	14.14	14.53	14.28	16.21	15.09	16.80	18.48	17.08	14.78	15.41	14.78	14.97	
19	14.17	14.60	14.30	16.13	15.06	17.10	18.63	16.97	14.89	15.43	14.83	14.93	
20	14.20	14.66	14.32	15.99	15.08	17.32	18.73	16.84	15.18	15.43	14.88	14.92	
21	14.21	14.69	14.36	15.78	15.05	17.76	18.53	16.74	15.27	15.42	14.95	14.95	
22	14.20	14.70	14.40	15.53	15.04	18.25	18.25	16.70	15.32	15.42	15.01	14.99	
23	14.19	14.72	14.43	15.26	15.01	18.47	18.10	16.62	15.38	15.39	15.01	14.95	
24	14.16	14.73	14.45	15.04	14.98	18.68	18.03	16.55	15.40	15.37	15.00	15.00	
25	14.15	14.75	14.48	15.16	14.96	18.91	18.01	16.41	15.37	15.29	14.90	14.97	
26	14.14	14.74	14.50	15.38	14.98	19.11	17.94	16.40	15.29	15.25	14.81	14.86	
27	14.13	14.73	14.51	15.64	15.14	19.26	17.96	16.25	15.20	15.20	14.76	14.80	
28	14.11	14.76	14.53	15.98	15.54	19.22	18.05	16.07	15.10	15.13	14.73	14.72	
29	14.10	14.77	14.54	16.18	16.11	18.85	18.16	15.89	15.03	15.08		14.66	
30	14.08	14.76	14.56	16.22	17.37	18.31	18.20	15.76	15.00	15.04		14.62	
31		14.74		16.16	18.12		18.19		15.01	15.00		14.70	
Mean	14.17	14.45	14.50	15.47	15.67	17.69	18.35	17.19	15.02	15.14	14.84	14.87	
Max	14.27	14.77	14.68	16.24	18.12	19.26	19.43	18.44	15.59	15.43	15.01	15.00	19.43
Min	14.08	14.10	14.28	14.58	14.96	16.30	17.22	15.76	14.57	14.85	14.72	14.62	14.08

Annual Max Momentary Gage Height 19.45 m. (MSL.) , at 19.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 9.06 m. (MSL.)

Left Bank Elevation 21.36 m. (MSL.) ,

Right Bank Elevation 21.40 m. (MSL.) , Drainage Are 3,641 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	19.30	201.60	127.00	175.50	8.80	0.20	0.00	0.00	
2	0.00	0.00	0.00	0.00	14.50	214.80	92.00	165.60	6.20	0.70	0.00	0.00	
3	0.00	0.00	0.00	0.00	12.20	211.20	85.60	147.00	3.60	1.30	0.00	0.00	
4	0.00	0.00	0.00	0.00	11.60	152.40	121.00	129.00	2.00	1.50	0.00	0.00	
5	0.00	0.00	0.00	0.00	12.20	93.60	196.80	106.30	0.10	0.90	0.00	0.00	
6	0.00	0.00	0.00	0.00	12.40	54.20	235.50	92.80	0.00	0.10	0.00	0.00	
7	0.00	0.00	0.00	0.00	14.20	32.50	266.70	84.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	16.30	29.00	308.60	80.80	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	15.10	41.50	337.80	106.30	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.60	14.20	60.20	345.80	135.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	2.20	16.90	59.60	322.00	186.50	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	7.00	18.70	72.50	280.60	208.80	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	14.20	16.90	79.20	245.90	204.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	22.00	12.80	84.80	208.80	171.10	0.00	0.30	0.00	0.00	
15	0.00	0.00	0.00	25.40	8.80	91.20	179.90	108.10	0.00	1.40	0.00	0.00	
16	0.00	0.00	0.00	26.20	5.20	71.10	170.00	95.20	0.00	2.60	0.00	0.00	
17	0.00	0.00	0.00	26.60	2.30	50.00	185.40	83.20	0.00	4.00	0.00	0.00	
18	0.00	0.00	0.00	25.40	0.90	56.00	213.60	74.60	0.00	5.20	0.00	0.00	
19	0.00	0.00	0.00	22.90	0.60	76.00	232.90	66.90	0.00	5.60	0.00	0.00	
20	0.00	0.00	0.00	18.70	0.80	93.60	245.90	58.40	1.80	5.60	0.00	0.00	
21	0.00	0.00	0.00	12.60	0.50	134.00	219.90	52.40	2.70	5.40	0.00	0.00	
22	0.00	0.00	0.00	7.60	0.40	186.50	186.50	50.00	3.40	5.40	0.10	0.00	
23	0.00	0.00	0.00	2.60	0.10	212.40	170.00	45.20	4.60	4.80	0.10	0.00	
24	0.00	0.00	0.00	0.40	0.00	239.40	162.30	41.50	5.00	4.40	0.00	0.00	
25	0.00	0.00	0.00	1.60	0.00	269.40	160.10	34.50	4.40	2.90	0.00	0.00	
26	0.00	0.00	0.00	4.60	0.00	297.40	152.40	34.00	2.90	2.50	0.00	0.00	
27	0.00	0.00	0.00	9.80	1.40	319.00	154.60	27.00	2.00	2.00	0.00	0.00	
28	0.00	0.00	0.00	18.40	7.80	313.00	164.50	21.10	1.00	1.30	0.00	0.00	
29	0.00	0.00	0.00	24.40	22.30	261.50	176.60	15.70	0.30	0.80		0.00	
30	0.00	0.00	0.00	25.80	97.60	193.20	181.00	12.20	0.00	0.40		0.00	
31		0.00		23.80	172.20		179.90		0.10	0.00		0.00	
Total	0.00	0.00	0.00	322.80	528.20	4250.80	6309.60	2812.70	48.90	59.30	0.20	0.00	14332.50	CMSDAY
Mean	0.00	0.00	0.00	10.41	17.04	141.69	203.54	93.76	1.58	1.91	0.01	0.00	39.27	CMS
Max	0.00	0.00	0.00	26.60	172.20	319.00	345.80	208.80	8.80	5.60	0.10	0.00	345.80	CMS
Min	0.00	0.00	0.00	0.00	0.00	29.00	85.60	12.20	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	27.89	45.64	367.27	545.15	243.02	4.22	5.12	0.02	0.00	1238.33	MCM

Momentary Peak 349.00 CMS. at 19.45 m. (MSL.) at 19.00 Hours , on Oct 10 , 2016

Runoff Yield 10.79 Liters/Second/Square KM. Momentary Peak Yield 95.870 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

Lat 15 - 46 - 58 N Long 99 - 40 - 57 E

Location : on left bank at Ban San Chao Kai To.

	Ban San Chao Kai To	**Amphoe** Lat Yao	**Changwat** Nakhon Sawan
Drainge Area	1,386 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the bridge	**Elevation**	+72.250 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

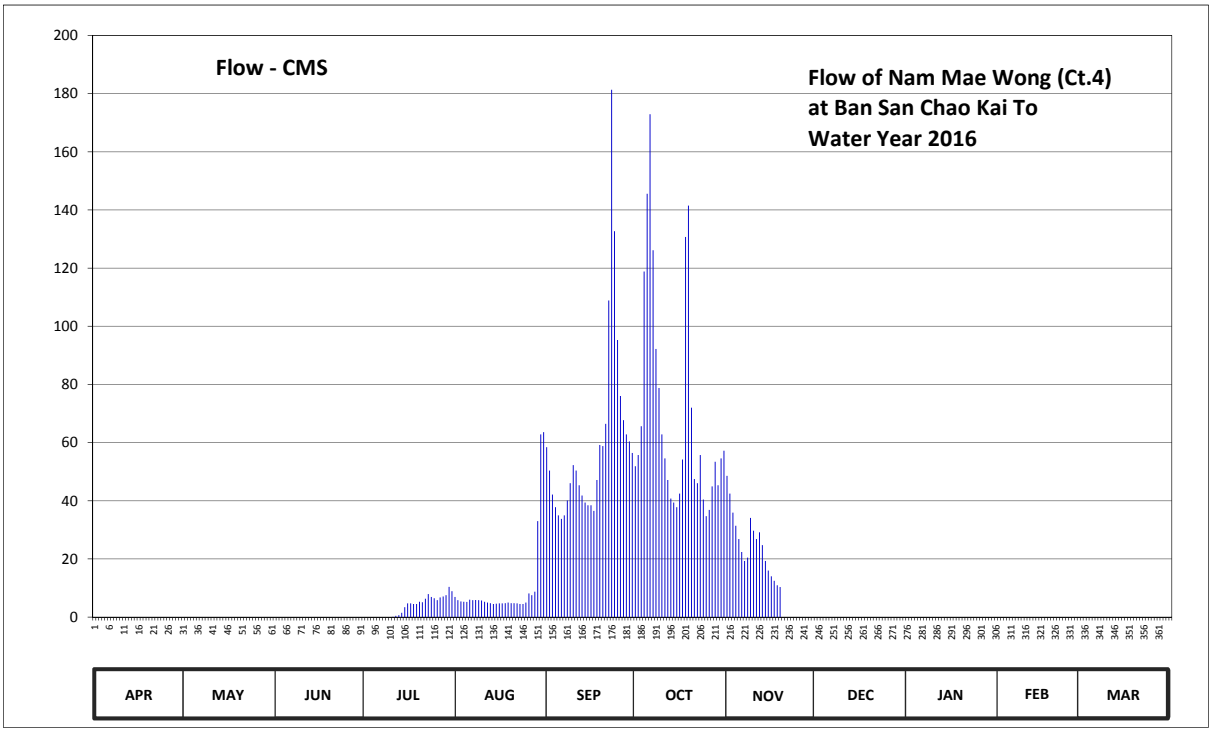
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.66	65.44	65.42	65.64	68.36	69.02	68.85	68.76	66.83	66.55	66.15	66.00	
2	65.66	65.43	65.42	65.64	68.28	68.81	68.95	68.59	66.78	66.55	66.11	66.00	
3	65.65	65.43	65.42	65.64	68.24	68.58	69.20	68.39	66.74	66.55	66.11	66.00	
4	65.64	65.43	65.55	65.68	68.23	68.45	70.26	68.24	66.72	66.55	66.09	66.00	
5	65.63	65.43	65.54	65.67	68.22	68.36	70.67	68.07	66.70	66.55	66.06	66.00	
6	65.62	65.43	65.53	66.19	68.30	68.32	71.07	67.89	66.68	66.55	66.06	66.00	
7	65.62	65.43	65.53	66.51	68.28	68.36	70.38	67.76	66.65	66.55	66.00	66.00	
8	65.61	65.42	65.53	66.83	68.29	68.52	69.78	67.81	66.63	66.55	66.00	66.00	
9	65.60	65.40	65.53	67.03	68.28	68.69	69.50	68.33	66.63	66.55	66.00	66.00	
10	65.60	65.39	65.52	67.16	68.27	68.86	69.13	68.18	66.61	66.55	66.00	66.00	
11	65.60	65.39	65.51	67.31	68.23	68.81	68.92	68.07	66.58	66.55	66.00	66.00	
12	65.58	65.41	65.51	67.47	68.20	68.67	68.72	68.16	66.56	66.55	66.00	66.00	
13	65.58	65.41	65.50	67.56	68.18	68.57	68.54	67.99	66.53	66.55	66.00	66.00	
14	65.58	65.40	65.50	67.76	68.15	68.50	68.50	67.76	66.51	66.55	66.00	66.00	
15	65.58	65.40	65.49	68.04	68.16	68.47	68.45	67.60	66.51	66.55	66.00	66.00	
16	65.56	65.39	65.48	68.17	68.17	68.47	68.59	67.49	66.50	66.47	66.00	66.00	
17	65.56	65.39	65.47	68.17	68.17	68.41	68.91	67.39	66.51	66.39	66.00	66.00	
18	65.55	65.38	65.48	68.15	68.18	68.72	70.45	67.28	66.53	66.35	66.00	66.00	
19	65.55	65.38	65.48	68.15	68.20	69.04	70.61	67.23	66.63	66.38	66.00	66.13	
20	65.55	65.38	65.47	68.23	68.18	69.03	69.35	67.22	66.58	66.24	66.00	66.03	
21	65.54	65.39	65.46	68.21	68.18	69.22	68.73	67.21	66.54	66.22	66.00	66.03	
22	65.53	65.39	65.51	68.32	68.17	70.09	68.69	67.21	66.61	66.18	66.00	66.03	
23	65.51	65.39	65.51	68.42	68.15	71.19	68.95	67.21	66.48	66.15	66.00	66.02	
24	65.47	65.38	65.73	68.36	68.15	70.48	68.53	67.21	66.45	66.13	66.00	66.01	
25	65.46	65.38	65.72	68.33	68.20	69.84	68.35	67.21	66.44	66.14	66.00	66.00	
26	65.46	65.38	65.69	68.28	68.43	69.44	68.42	67.21	66.38	66.07	66.00	66.00	
27	65.46	65.38	65.71	68.35	68.40	69.25	68.66	67.21	66.35	66.11	66.00	66.00	
28	65.45	65.38	65.69	68.37	68.46	69.13	68.89	67.21	66.33	66.13	66.00	66.00	
29	65.45	65.39	65.65	68.40	68.95	69.07	68.67	67.21	66.30	66.14		66.00	
30	65.45	65.42	65.65	68.53	69.13	68.97	68.92	67.21	66.30	66.14		66.00	
31		65.42		68.47	69.15		68.99		66.30	66.17		66.00	
Mean	65.56	65.40	65.54	67.52	68.32	68.98	69.18	67.68	66.54	66.38	66.02	66.01	
Max	65.66	65.44	65.73	68.53	69.15	71.19	71.07	68.76	66.83	66.55	66.15	66.13	71.19
Min	65.45	65.38	65.42	65.64	68.15	68.32	68.35	67.21	66.30	66.07	66.00	66.00	65.38

Annual Max Momentary Gage Height 71.30 m. (MSL.) , at 11.00 Hours , on Sep 23 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 65.29 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	6.93	58.40	51.90	48.56	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	5.80	50.38	55.70	42.46	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	5.40	42.12	65.60	35.90	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	5.30	37.80	118.80	31.40	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	5.20	35.00	145.56	26.82	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	6.00	33.80	172.90	22.36	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	5.80	35.00	126.16	19.32	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	5.90	40.08	92.20	20.44	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	5.80	46.04	78.80	34.10	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	5.70	52.28	62.80	29.68	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.11	5.30	50.38	54.56	26.82	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.41	5.00	45.32	47.12	29.16	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.68	4.80	41.78	40.76	24.76	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	1.50	4.50	39.40	39.40	19.32	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	3.40	4.60	38.44	37.80	16.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	4.70	4.70	38.44	42.46	14.04	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	4.70	4.70	36.52	54.18	12.46	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	4.50	4.80	47.12	130.70	10.96	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	4.50	5.00	59.20	141.48	10.36	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	5.30	4.80	58.80	72.00	0.02	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	5.10	4.80	66.44	47.48	0.01	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	6.31	4.70	108.84	46.04	0.01	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	7.94	4.50	181.30	55.70	0.01	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	6.93	4.50	132.68	40.42	0.01	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	6.46	5.00	95.28	34.70	0.01	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	5.80	8.13	76.04	36.84	0.01	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	6.77	7.55	67.70	44.96	0.01	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	7.08	8.72	62.80	53.42	0.01	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	7.55	33.00	60.40	45.32	0.01	0.00	0.00		0.00	
30	0.00	0.00	0.00	10.40	62.80	56.46	54.56	0.01	0.00	0.00		0.00	
31		0.00		8.91	63.60		57.22		0.00	0.00		0.00	
Total	0.00	0.00	0.00	109.05	313.33	1794.24	2147.54	475.04	0.00	0.00	0.00	0.00	4839.20	CMSDAY
Mean	0.00	0.00	0.00	3.52	10.11	59.81	69.28	15.83	0.00	0.00	0.00	0.00	13.26	CMS
Max	0.00	0.00	0.00	10.40	63.60	181.30	172.90	48.56	0.00	0.00	0.00	0.00	181.30	CMS
Min	0.00	0.00	0.00	0.00	4.50	33.80	34.70	0.01	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	9.42	27.07	155.02	185.55	41.04	0.00	0.00	0.00	0.00	418.11	MCM

Momentary Peak 189.00 CMS. at 71.30 m. (MSL.) at 11.00 Hours , on Sep 23 , 2016

Runoff Yield 9.57 Liters/Second/Square KM. Momentary Peak Yield 136.370 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

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

Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

Ban Pang Makha **Amphoe** Khanu Woralaksaburi **Changwat** Kamphaeng Phet

Drainge Area	977 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the station office **Elevation** +108.090 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1969 to date
Rated by Flot	-
Rated by Current Meter	1969 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir above gage site estimated by recession equation. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

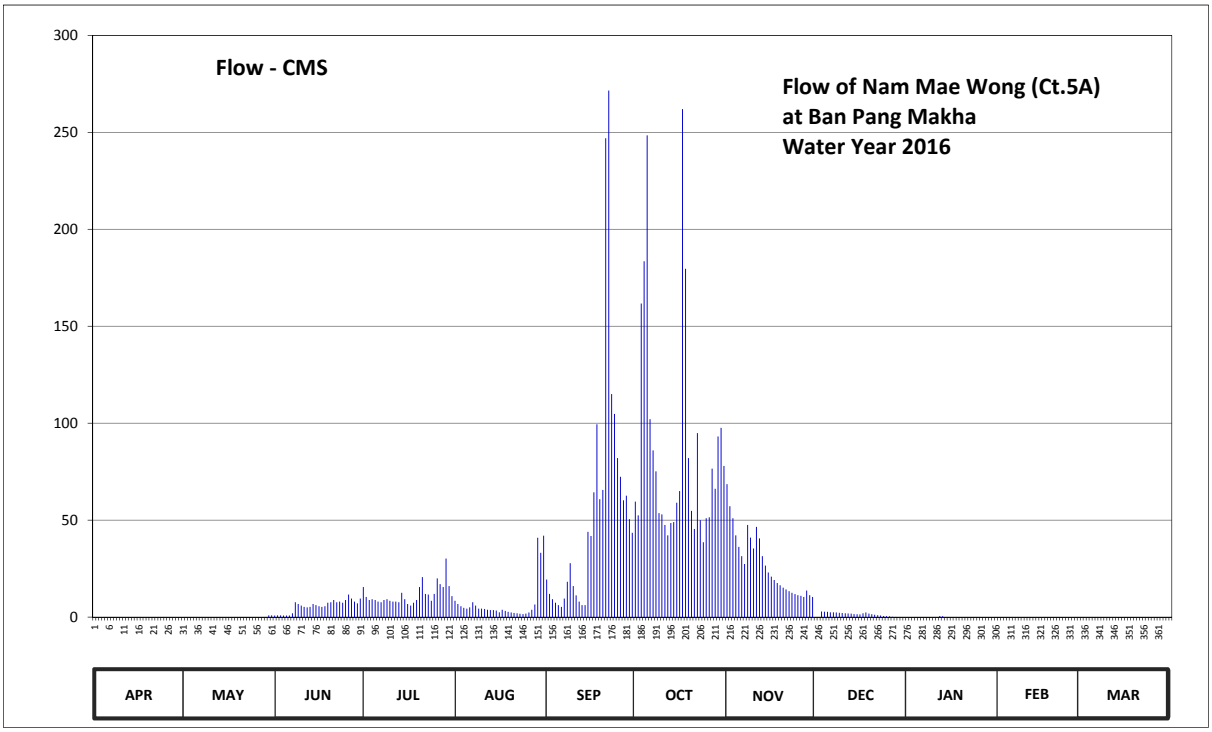
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	102.85	102.20	103.98	104.57	104.41	104.64	104.71	104.86	103.46	103.85	103.82	103.72	
2	102.85	102.20	103.99	104.46	104.36	104.50	104.59	104.67	103.48	103.85	103.81	103.72	
3	102.85	102.15	103.99	104.42	104.32	104.43	105.87	104.56	104.19	103.85	103.81	103.72	
4	102.85	102.15	103.98	104.43	104.29	104.38	106.05	104.38	104.18	103.85	103.80	103.72	
5	102.85	102.15	103.98	104.42	104.27	104.34	106.51	104.23	104.17	103.84	103.80	103.72	
6	102.85	102.15	103.98	104.40	104.30	104.31	105.29	104.11	104.15	103.83	103.79	103.72	
7	102.85	102.15	104.10	104.39	104.39	104.44	105.10	104.01	104.15	103.81	103.79	103.72	
8	102.91	102.15	104.39	104.42	104.33	104.62	104.96	104.49	104.14	103.79	103.78	103.72	
9	103.21	102.15	104.36	104.43	104.27	104.76	104.61	104.35	104.12	103.79	103.78	103.72	
10	103.65	102.15	104.33	104.41	104.27	104.58	104.60	104.21	104.11	103.79	103.77	103.72	
11	103.65	102.15	104.31	104.40	104.26	104.48	104.49	104.47	104.10	103.82	103.75	103.72	
12	103.67	102.15	104.30	104.40	104.24	104.40	104.38	104.34	104.09	103.96	103.69	103.72	
13	103.75	102.15	104.31	104.39	104.23	104.34	104.51	104.11	104.08	103.95	103.79	103.72	
14	103.75	102.15	104.36	104.51	104.23	104.34	104.52	103.99	104.06	103.90	103.76	103.72	
15	103.75	102.13	104.34	104.43	104.22	104.42	104.70	103.90	104.05	103.79	103.75	103.72	
16	103.75	102.15	104.32	104.36	104.15	104.37	104.80	103.83	104.04	103.62	103.74	103.72	
17	103.75	102.15	104.31	104.33	104.24	104.79	106.60	103.77	104.10	103.42	103.74	103.72	
18	103.75	102.15	104.32	104.38	104.21	105.26	106.02	103.72	104.14	103.39	103.74	103.72	
19	103.75	102.15	104.38	104.42	104.17	104.73	105.05	103.68	104.08	103.34	103.74	103.72	
20	103.75	102.15	104.39	104.57	104.14	104.81	104.63	103.64	104.05	103.32	103.74	103.72	
21	103.75	102.15	104.42	104.66	104.11	106.50	104.45	103.61	104.02	103.30	103.73	103.72	
22	103.75	102.15	104.39	104.50	104.10	106.66	105.21	103.58	104.00	103.29	103.72	103.72	
23	103.75	102.15	104.40	104.49	104.07	105.43	104.54	103.55	103.98	103.27	103.72	103.72	
24	103.75	102.29	104.38	104.41	104.06	105.32	104.29	103.53	103.96	103.86	103.72	103.72	
25	103.53	102.73	104.42	104.50	104.08	105.05	104.56	103.51	103.95	103.85	103.72	103.72	
26	103.12	102.97	104.49	104.65	104.14	104.92	104.57	103.50	103.94	103.85	103.72	103.72	
27	103.10	103.23	104.44	104.60	104.24	104.72	104.98	103.48	103.92	103.84	103.72	103.72	
28	103.02	103.51	104.40	104.57	104.35	104.76	104.82	103.59	103.91	103.84	103.72	103.72	
29	102.42	103.81	104.37	104.79	104.89	104.55	105.19	103.51	103.89	103.84		103.72	
30	102.21	103.99	104.44	104.58	104.82	104.41	105.24	103.48	103.88	103.83		103.72	
31		103.99		104.47	104.90		105.00		103.87	103.83		103.72	
Mean	103.31	102.45	104.29	104.48	104.29	104.78	104.99	103.96	104.01	103.72	103.76	103.72	
Max	103.75	103.99	104.49	104.79	104.90	106.66	106.60	104.86	104.19	103.96	103.82	103.72	106.66
Min	102.21	102.13	103.98	104.33	104.06	104.31	104.29	103.48	103.46	103.27	103.69	103.72	102.13

Annual Max Momentary Gage Height 107.63 m. (MSL.) , at 01.00 Hours , on Sep 22 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 102.36 m. (MSL.)

Left Bank Elevation 110.71 m. (MSL.) ,

Right Bank Elevation 110.72 m. (MSL.) , Drainage Are 977 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.80	15.50	8.40	19.40	59.60	68.60	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.90	10.40	6.80	12.00	52.50	57.20	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.90	8.80	5.60	9.20	161.70	51.00	2.90	0.00	0.00	0.00	
4	0.00	0.00	0.80	9.20	4.80	7.40	183.50	42.20	2.80	0.00	0.00	0.00	
5	0.00	0.00	0.80	8.80	4.40	6.20	248.50	36.20	2.70	0.00	0.00	0.00	
6	0.00	0.00	0.80	8.00	5.00	5.30	102.10	31.40	2.50	0.00	0.00	0.00	
7	0.00	0.00	2.00	7.70	7.70	9.60	86.00	27.40	2.50	0.00	0.00	0.00	
8	0.00	0.00	7.70	8.80	5.90	18.20	75.20	47.50	2.40	0.00	0.00	0.00	
9	0.00	0.00	6.80	9.20	4.40	27.80	53.60	41.00	2.20	0.00	0.00	0.00	
10	0.00	0.00	5.90	8.40	4.40	16.00	53.00	35.40	2.10	0.00	0.00	0.00	
11	0.00	0.00	5.30	8.00	4.20	11.20	47.50	46.50	2.00	0.00	0.00	0.00	
12	0.00	0.00	5.00	8.00	3.80	8.00	42.20	40.60	1.90	0.60	0.00	0.00	
13	0.00	0.00	5.30	7.70	3.60	6.20	48.50	31.40	1.80	0.50	0.00	0.00	
14	0.00	0.00	6.80	12.50	3.60	6.20	49.00	26.60	1.60	0.00	0.00	0.00	
15	0.00	0.00	6.20	9.20	3.40	44.00	59.00	23.00	1.50	0.00	0.00	0.00	
16	0.00	0.00	5.60	6.80	2.50	41.80	65.00	20.90	1.40	0.00	0.00	0.00	
17	0.00	0.00	5.30	5.90	3.80	64.40	262.00	19.10	2.00	0.00	0.00	0.00	
18	0.00	0.00	5.60	7.40	3.20	99.40	179.60	17.60	2.40	0.00	0.00	0.00	
19	0.00	0.00	7.40	8.80	2.70	60.80	82.00	16.40	1.80	0.00	0.00	0.00	
20	0.00	0.00	7.70	15.50	2.40	65.60	54.80	15.20	1.50	0.00	0.00	0.00	
21	0.00	0.00	8.80	20.60	2.10	247.00	45.50	14.30	1.20	0.00	0.00	0.00	
22	0.00	0.00	7.70	12.00	2.00	271.60	94.90	13.40	1.00	0.00	0.00	0.00	
23	0.00	0.00	8.00	11.60	1.70	115.00	50.00	12.50	0.80	0.00	0.00	0.00	
24	0.00	0.00	7.40	8.40	1.60	104.80	38.60	11.90	0.60	0.00	0.00	0.00	
25	0.00	0.00	8.80	12.00	1.80	82.00	51.00	11.30	0.50	0.00	0.00	0.00	
26	0.00	0.00	11.60	20.00	2.40	72.40	51.50	11.00	0.40	0.00	0.00	0.00	
27	0.00	0.00	9.60	17.00	3.80	60.20	76.60	10.40	0.20	0.00	0.00	0.00	
28	0.00	0.00	8.00	15.50	6.50	62.60	66.20	13.70	0.10	0.00	0.00	0.00	
29	0.00	0.00	7.10	30.20	40.90	50.50	93.20	11.30	0.00	0.00		0.00	
30	0.00	0.90	9.60	16.00	33.20	43.50	97.60	10.40	0.00	0.00		0.00	
31		0.90		10.80	42.00		78.00		0.00	0.00		0.00	
Total	0.00	1.80	174.20	358.70	228.60	1648.30	2708.40	815.40	42.80	1.10	0.00	0.00	5979.30	CMSDAY
Mean	0.00	0.06	5.81	11.57	7.37	54.94	87.37	27.18	1.38	0.04	0.00	0.00	16.38	CMS
Max	0.00	0.90	11.60	30.20	42.00	271.60	262.00	68.60	2.90	0.60	0.00	0.00	271.60	CMS
Min	0.00	0.00	0.80	5.90	1.60	5.30	38.60	10.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.16	15.05	30.99	19.75	142.41	234.01	70.45	3.70	0.10	0.00	0.00	516.61	MCM

Momentary Peak 433.40 CMS. at 107.63 m. (MSL.) at 01.00 Hours , on Sep 22 , 2016

Runoff Yield 16.77 Liters/Second/Square KM. Momentary Peak Yield 443.600 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

	Ban Mai Khlong Charoen	**Amphoe** Mae Poen	**Changwat** Nakhon Sawan
Drainge Area	453 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the sling pole.		**Elevation** +107.830 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1975 - 1978, 2008 to date		
Rating Operation			
Period of Rating	1975 - 1978, 2008 to date		
Rated by Flot	-		
Rated by Current Meter	1975 - 1978, 2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

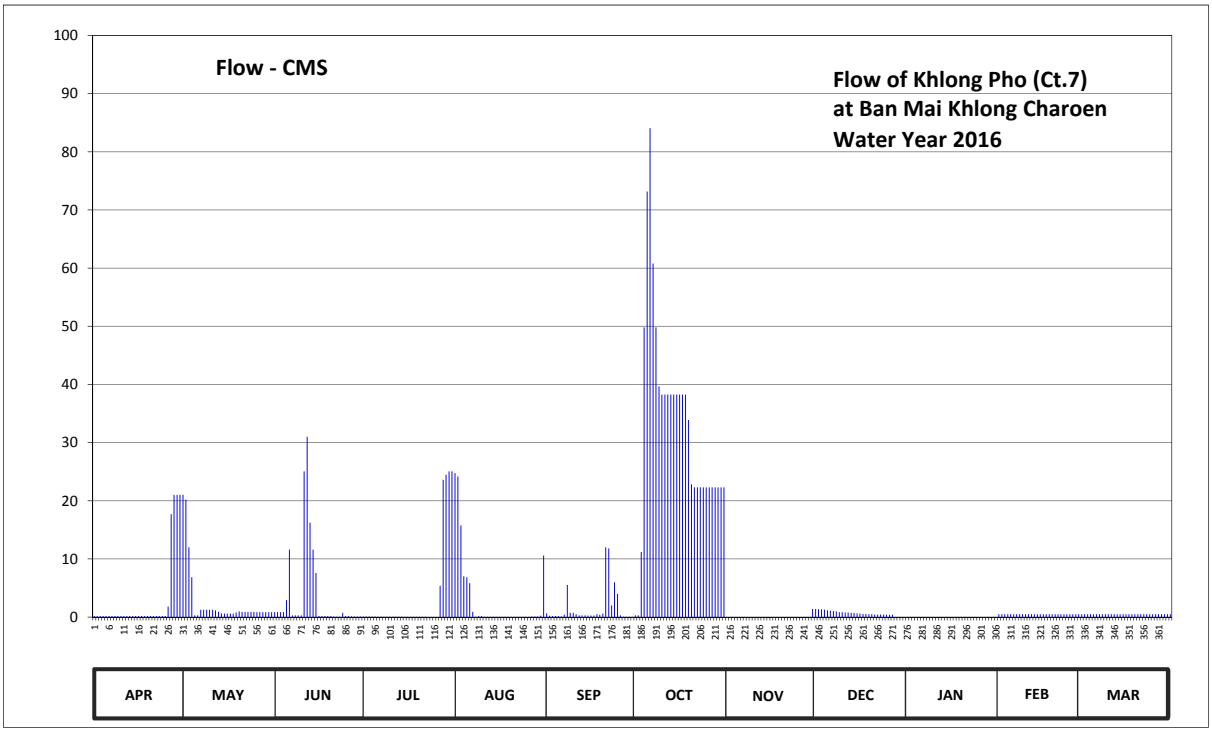
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	100.65	102.10	100.87	100.60	102.24	100.83	100.70	100.52	100.98	100.52	100.80	100.80	
2	100.65	102.07	100.87	100.60	102.22	100.67	100.70	100.52	100.97	100.52	100.80	100.80	
3	100.65	101.72	100.87	100.60	101.89	100.65	101.68	100.52	100.97	100.52	100.80	100.80	
4	100.65	101.45	100.87	100.60	101.46	100.65	102.98	100.52	100.96	100.52	100.80	100.80	
5	100.65	100.70	101.14	100.60	101.45	100.65	103.51	100.52	100.93	100.52	100.80	100.80	
6	100.65	100.70	101.70	100.58	101.38	100.60	103.74	100.52	100.92	100.52	100.80	100.80	
7	100.65	100.95	100.70	100.58	100.88	100.76	103.24	100.52	100.91	100.52	100.80	100.80	
8	100.65	100.95	100.70	100.58	100.54	101.36	102.98	100.52	100.90	100.52	100.80	100.80	
9	100.65	100.95	100.70	100.58	100.65	100.85	102.71	100.52	100.87	100.52	100.80	100.80	
10	100.65	100.95	100.70	100.58	100.65	100.85	102.67	100.52	100.87	100.52	100.80	100.80	
11	100.65	100.95	102.25	100.58	100.55	100.80	102.67	100.52	100.86	100.52	100.80	100.80	
12	100.65	100.93	102.45	100.58	100.55	100.70	102.67	100.52	100.86	100.52	100.80	100.80	
13	100.65	100.88	101.91	100.58	100.55	100.70	102.67	100.52	100.85	100.52	100.80	100.80	
14	100.65	100.83	101.70	100.57	100.55	100.70	102.67	100.52	100.84	100.52	100.80	100.80	
15	100.65	100.82	101.50	100.55	100.56	100.69	102.67	100.52	100.83	100.52	100.80	100.80	
16	100.65	100.82	100.65	100.55	100.55	100.68	102.67	100.52	100.82	100.52	100.80	100.80	
17	100.65	100.82	100.65	100.55	100.55	100.68	102.67	100.52	100.81	100.52	100.80	100.80	
18	100.65	100.82	100.65	100.55	100.55	100.80	102.67	100.52	100.81	100.52	100.80	100.80	
19	100.65	100.86	100.64	100.55	100.55	100.76	102.54	100.52	100.80	100.52	100.80	100.80	
20	100.65	100.90	100.64	100.55	100.55	100.82	102.17	100.52	100.80	100.52	100.80	100.80	
21	100.65	100.88	100.61	100.55	100.55	101.72	102.15	100.52	100.77	100.52	100.80	100.80	
22	100.65	100.88	100.58	100.55	100.55	101.71	102.15	100.52	100.77	100.52	100.80	100.80	
23	100.65	100.88	100.58	100.53	100.55	101.05	102.15	100.52	100.77	100.52	100.80	100.80	
24	100.65	100.88	100.85	100.53	100.55	101.39	102.15	100.52	100.77	100.52	100.80	100.80	
25	100.65	100.88	100.65	100.53	100.55	101.24	102.15	100.52	100.76	100.52	100.80	100.80	
26	101.03	100.87	100.65	100.53	100.55	100.70	102.15	100.52	100.76	100.52	100.80	100.80	
27	101.97	100.87	100.62	101.35	100.60	100.56	102.15	100.52	100.76	100.52	100.80	100.80	
28	102.10	100.87	100.60	102.20	100.60	100.55	102.15	100.52	100.52	100.52	100.80	100.80	
29	102.10	100.87	100.60	102.23	100.60	100.55	102.15	100.52	100.52	100.52		100.80	
30	102.10	100.87	100.60	102.25	100.67	100.55	102.15	100.98	100.52	100.52		100.80	
31		100.87		102.25	101.65		102.15		100.52	100.52		100.80	
Mean	100.85	100.99	100.95	100.81	100.85	100.84	102.41	100.54	100.81	100.52	100.80	100.80	
Max	102.10	102.10	102.45	102.25	102.24	101.72	103.74	100.98	100.98	100.52	100.80	100.80	103.74
Min	100.65	100.70	100.58	100.53	100.54	100.55	100.70	100.52	100.52	100.52	100.80	100.80	100.52

Annual Max Momentary Gage Height 103.90 m. (MSL.) , at 06.00 Hours , on Oct 6 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 100.95 m. (MSL.)

Left Bank Elevation 108.15 m. (MSL.) ,

Right Bank Elevation 107.83 m. (MSL.) , Drainage Are 453 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	21.00	0.85	0.10	24.76	0.65	0.30	0.02	1.40	0.02	0.50	0.50		
2	0.20	20.22	0.85	0.10	24.18	0.24	0.30	0.02	1.35	0.02	0.50	0.50		
3	0.20	12.00	0.85	0.10	15.76	0.20	11.20	0.02	1.35	0.02	0.50	0.50		
4	0.20	6.85	0.85	0.10	7.00	0.20	49.82	0.02	1.30	0.02	0.50	0.50		
5	0.20	0.30	2.90	0.10	6.85	0.20	73.17	0.02	1.15	0.02	0.50	0.50		
6	0.20	0.30	11.60	0.08	5.82	0.10	84.06	0.02	1.10	0.02	0.50	0.50		
7	0.20	1.25	0.30	0.08	0.90	0.42	60.80	0.02	1.05	0.02	0.50	0.50		
8	0.20	1.25	0.30	0.08	0.04	5.54	49.82	0.02	1.00	0.02	0.50	0.50		
9	0.20	1.25	0.30	0.08	0.20	0.75	39.67	0.02	0.85	0.02	0.50	0.50		
10	0.20	1.25	0.30	0.08	0.20	0.75	38.25	0.02	0.85	0.02	0.50	0.50		
11	0.20	1.25	25.05	0.08	0.05	0.50	38.25	0.02	0.80	0.02	0.50	0.50		
12	0.20	1.15	31.00	0.08	0.05	0.30	38.25	0.02	0.80	0.02	0.50	0.50		
13	0.20	0.90	16.24	0.08	0.05	0.30	38.25	0.02	0.75	0.02	0.50	0.50		
14	0.20	0.65	11.60	0.07	0.05	0.30	38.25	0.02	0.70	0.02	0.50	0.50		
15	0.20	0.60	7.60	0.05	0.06	0.28	38.25	0.02	0.65	0.02	0.50	0.50		
16	0.20	0.60	0.20	0.05	0.05	0.26	38.25	0.02	0.60	0.02	0.50	0.50		
17	0.20	0.60	0.20	0.05	0.05	0.26	38.25	0.02	0.55	0.02	0.50	0.50		
18	0.20	0.60	0.20	0.05	0.05	0.50	38.25	0.02	0.55	0.02	0.50	0.50		
19	0.20	0.80	0.18	0.05	0.05	0.42	33.88	0.02	0.50	0.02	0.50	0.50		
20	0.20	1.00	0.18	0.05	0.05	0.60	22.82	0.02	0.50	0.02	0.50	0.50		
21	0.20	0.90	0.12	0.05	0.05	12.00	22.30	0.02	0.44	0.02	0.50	0.50		
22	0.20	0.90	0.08	0.05	0.05	11.80	22.30	0.02	0.44	0.02	0.50	0.50		
23	0.20	0.90	0.08	0.03	0.05	2.00	22.30	0.02	0.44	0.02	0.50	0.50		
24	0.20	0.90	0.75	0.03	0.05	5.96	22.30	0.02	0.44	0.02	0.50	0.50		
25	0.20	0.90	0.20	0.03	0.05	3.98	22.30	0.02	0.42	0.02	0.50	0.50		
26	1.80	0.85	0.20	0.03	0.05	0.30	22.30	0.02	0.42	0.02	0.50	0.50		
27	17.68	0.85	0.14	5.40	0.10	0.06	22.30	0.02	0.42	0.02	0.50	0.50		
28	21.00	0.85	0.10	23.60	0.10	0.05	22.30	0.02	0.02	0.02	0.50	0.50		
29	21.00	0.85	0.10	24.47	0.10	0.05	22.30	0.02	0.02	0.02		0.50		
30	21.00	0.85	0.10	25.05	0.24	0.05	22.30	1.40	0.02	0.02		0.50		
31		0.85		25.05	10.60		22.30		0.02	0.02		0.50		
Total	87.48	83.42	113.42	105.30	97.66	49.02	1015.39	1.98	20.90	0.62	14.00	15.50	1604.69	CMSDAY
Mean	2.92	2.69	3.78	3.40	3.15	1.63	32.75	0.07	0.67	0.02	0.50	0.50	4.40	CMS
Max	21.00	21.00	31.00	25.05	24.76	12.00	84.06	1.40	1.40	0.02	0.50	0.50	84.06	CMS
Min	0.20	0.30	0.08	0.03	0.04	0.05	0.30	0.02	0.02	0.02	0.50	0.50	0.02	CMS
Runoff	7.56	7.21	9.80	9.10	8.44	4.24	87.73	0.17	1.81	0.05	1.21	1.34	138.65	MCM

Momentary Peak 92.10 CMS. at 103.90 m. (MSL.) at 06.00 Hours , on Oct 6 , 2016

Runoff Yield 9.70 Liters/Second/Square KM. Momentary Peak Yield 203.270 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Khok Mo, Uthai Thani (Ct.8)

Lat 15 - 29 - 50 N Long 99 - 56 - 28 E

Location : on left bank at Ban Khok Mo.

	Ban	Khok Mo	**Amphoe** Thap Than	**Changwat**	Uthai Thani
Drainge Area	3,207	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	Near the sling pole			**Elevation**	+34.285 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1975 - 1978, 2008 to date				
Rating Operation					
Period of Rating	1975 - 1978, 2008 to date				
Rated by Flot	-				
Rated by Current Meter	1975 - 1978, 2008 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

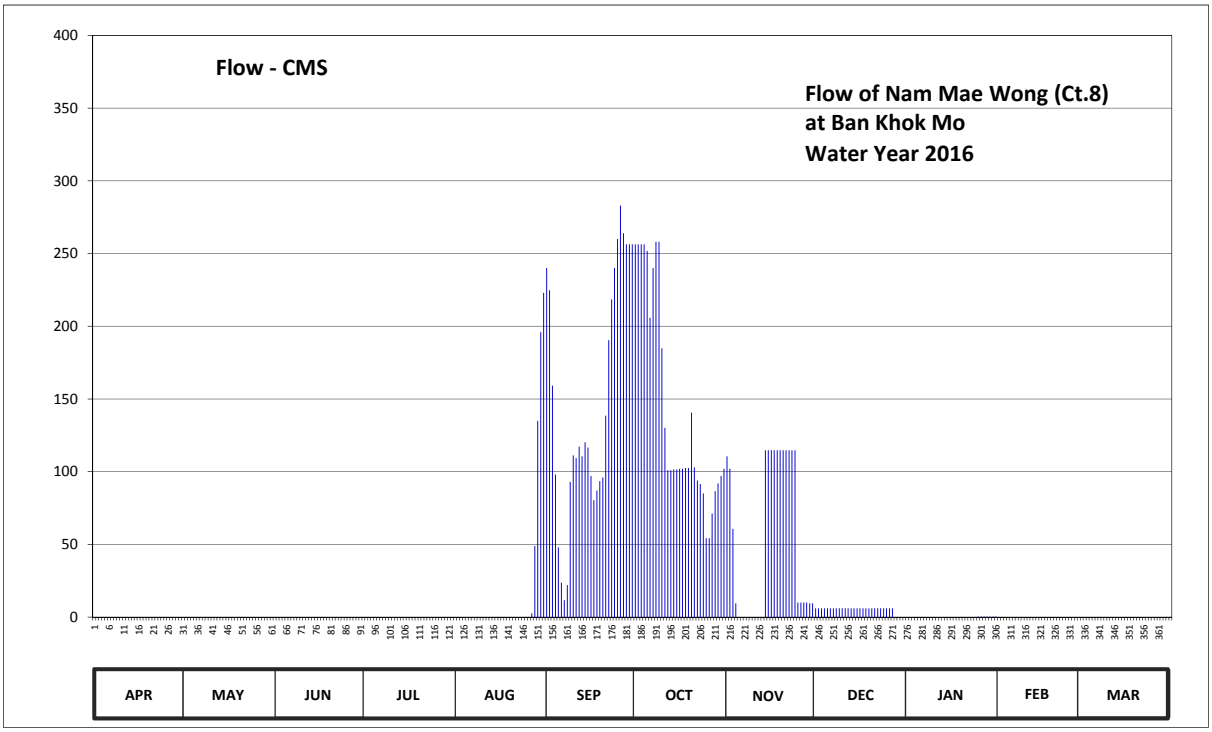
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.98	25.98	25.98	25.98	25.98	33.49	33.67	31.81	30.35	29.76	25.98	25.98	
2	25.98	25.98	25.98	25.98	26.12	33.32	33.67	31.66	30.35	29.76	25.98	25.98	
3	25.98	25.98	25.98	25.98	26.18	32.54	33.67	31.19	30.35	29.76	25.98	25.98	
4	25.98	25.98	25.98	25.98	26.24	31.58	33.67	30.48	30.35	29.76	25.98	25.98	
5	25.98	25.98	25.98	25.98	26.30	31.09	33.62	29.36	30.35	29.76	25.98	25.98	
6	25.98	25.98	25.98	25.98	26.34	30.81	33.11	27.98	30.35	29.76	25.98	25.98	
7	25.98	25.98	25.98	25.98	26.40	30.54	33.49	26.19	30.35	29.76	25.98	25.98	
8	25.98	25.98	25.98	25.98	26.45	30.78	33.69	26.02	30.35	29.76	25.98	25.98	
9	25.98	25.98	25.98	25.98	26.50	31.48	33.69	25.98	30.35	29.76	25.98	25.98	
10	25.98	25.98	25.98	25.98	26.55	31.82	32.86	25.98	30.35	29.76	25.98	25.98	
11	25.98	25.98	25.98	25.98	26.55	31.79	32.13	25.98	30.35	29.76	25.98	25.98	
12	25.98	25.98	25.98	25.98	26.56	31.92	31.64	27.07	30.35	29.76	25.98	25.98	
13	25.98	25.98	25.98	25.98	26.56	31.81	31.64	29.40	30.35	29.76	25.98	25.98	
14	25.98	25.98	25.98	25.98	26.57	31.97	31.65	31.88	30.35	29.76	25.98	25.98	
15	25.98	25.98	25.98	25.98	26.57	31.91	31.65	31.88	30.35	29.76	25.98	25.98	
16	25.98	25.98	25.98	25.98	26.58	31.56	31.66	31.88	30.35	29.76	25.98	25.98	
17	25.98	25.98	25.98	25.98	26.58	31.28	31.66	31.88	30.35	29.76	25.98	25.98	
18	25.98	25.98	25.98	25.98	26.48	31.35	31.67	31.88	30.35	29.76	25.98	25.98	
19	25.98	25.98	25.98	25.98	26.38	31.49	31.67	31.88	30.35	29.76	25.98	25.98	
20	25.98	25.98	25.98	25.98	26.28	31.54	32.28	31.88	30.35	29.76	25.98	25.98	
21	25.98	25.98	25.98	25.98	26.18	32.25	31.68	31.88	30.35	29.76	25.98	25.98	
22	25.98	25.98	25.98	25.98	26.08	32.93	31.50	31.88	30.35	29.76	25.98	25.98	
23	25.98	25.98	25.98	25.98	26.00	33.25	31.45	31.88	30.35	29.76	25.98	25.98	
24	25.98	25.98	25.98	25.98	25.98	33.49	31.30	31.88	30.35	29.76	25.98	25.98	
25	25.98	25.98	25.98	25.98	27.38	33.71	31.14	30.50	30.35	30.04	25.98	25.98	
26	25.98	25.98	25.98	25.98	28.78	33.94	31.14	30.50	30.35	30.04	25.98	25.98	
27	25.98	25.98	25.98	25.98	30.18	33.75	31.24	30.50	30.35	30.04	25.98	25.98	
28	25.98	25.98	25.98	25.98	31.10	33.67	31.34	30.50	29.76	30.04	25.98	25.98	
29	25.98	25.98	25.98	25.98	32.20	33.67	31.46	30.48	29.76	30.04		25.98	
30	25.98	25.98	25.98	25.98	33.00	33.67	31.56	30.48	29.76	30.04		25.98	
31		25.98		25.98	33.30		31.66		29.76	30.04		25.98	
Mean	25.98	25.98	25.98	25.98	27.37	32.28	32.20	30.09	30.27	29.82	25.98	25.98	
Max	25.98	25.98	25.98	25.98	33.30	33.94	33.69	31.88	30.35	30.04	25.98	25.98	33.94
Min	25.98	25.98	25.98	25.98	25.98	30.54	31.14	25.98	29.76	29.76	25.98	25.98	25.98

Annual Max Momentary Gage Height 33.95 m. (MSL.) , at 02.00 Hours , on Sep 26 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 25.98 m. (MSL.)

Left Bank Elevation 34.29 m. (MSL.) ,

Right Bank Elevation 34.29 m. (MSL.) , Drainage Are 3,207 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	240.10	256.30	110.60	6.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	224.80	256.30	102.00	6.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	159.20	256.30	60.70	6.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	98.00	256.30	9.40	6.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	48.00	251.80	0.00	6.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	23.70	205.90	0.00	6.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	11.60	240.10	0.00	6.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	22.00	258.10	0.00	6.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	93.00	258.10	0.00	6.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	111.20	184.80	0.00	6.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	109.40	130.10	0.00	6.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	117.20	101.00	0.00	6.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	110.60	101.00	0.00	6.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	120.20	101.50	114.80	6.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	116.60	101.50	114.80	6.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	97.00	102.00	114.80	6.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	80.40	102.00	114.80	6.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	87.00	102.50	114.80	6.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	93.50	102.50	114.80	6.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	96.00	140.60	114.80	6.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	138.50	103.00	114.80	6.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	190.40	94.00	114.80	6.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	218.50	91.50	114.80	6.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	240.10	85.00	114.80	6.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	260.00	54.20	10.00	6.00	0.40	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	283.00	54.20	10.00	6.00	0.40	0.00	0.00		
27	0.00	0.00	0.00	0.00	2.60	264.00	71.20	10.00	6.00	0.40	0.00	0.00		
28	0.00	0.00	0.00	0.00	49.00	256.30	86.60	10.00	0.00	0.40	0.00	0.00		
29	0.00	0.00	0.00	0.00	135.00	256.30	92.00	9.40	0.00	0.40		0.00		
30	0.00	0.00	0.00	0.00	196.00	256.30	97.00	9.40	0.00	0.40		0.00		
31		0.00		0.00	223.00		102.00		0.00	0.40		0.00		
Total	0.00	0.00	0.00	0.00	605.60	4422.90	4439.40	1604.30	162.00	2.80	0.00	0.00	11237.00	CMSDAY
Mean	0.00	0.00	0.00	0.00	19.54	147.43	143.21	53.48	5.23	0.09	0.00	0.00	30.79	CMS
Max	0.00	0.00	0.00	0.00	223.00	283.00	258.10	114.80	6.00	0.40	0.00	0.00	283.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	11.60	54.20	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	52.32	382.14	383.56	138.61	14.00	0.24	0.00	0.00	970.88	MCM

Momentary Peak 284.00 CMS. at 33.95 m. (MSL.) at 02.00 Hours , on Sep 26 , 2016

Runoff Yield 9.60 Liters/Second/Square KM. Momentary Peak Yield 88.560 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

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

Lat 15 - 31 - 35 N Long 99 - 28 - 10 E

Location : on left bank about 9 kilometers upstream from Ct.6.

	Ban Bung Ai Chiam	**Amphoe** Lan Sak	**Changwat** Uthai Thani
Drainge Area	528 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 100 meters from the gage observer's house	**Elevation**	+127.701 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1977 to date		
Rating Operation			
Period of Rating	1977 to date		
Rated by Flot	-		
Rated by Current Meter	1977 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Rabum Dam above gage site.		
	Stage-discharge relation defined by 13 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

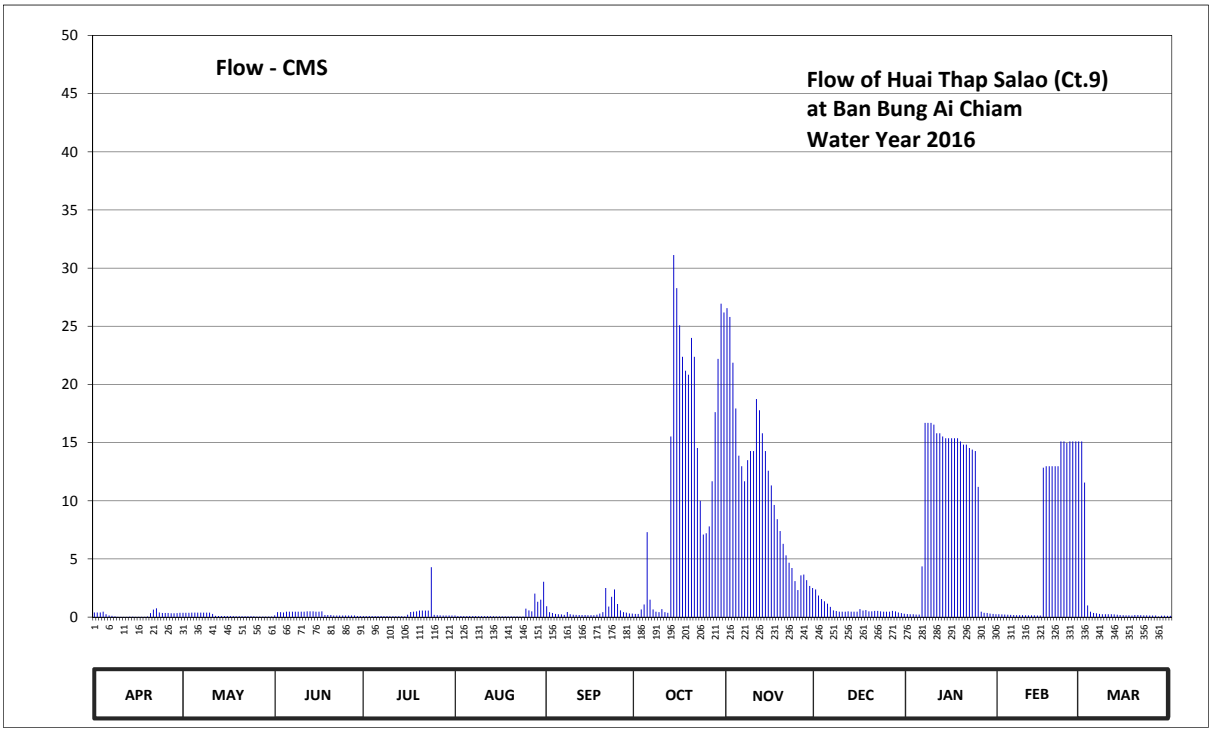
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.13	123.11	122.90	122.85	122.88	123.38	123.03	125.64	123.68	123.01	122.99	124.95	
2	123.13	123.11	123.15	122.85	122.85	123.15	123.03	125.60	123.59	122.99	122.98	124.68	
3	123.13	123.11	123.15	122.85	122.85	123.10	123.28	125.38	123.53	122.99	122.97	123.40	
4	123.17	123.12	123.13	122.85	122.85	123.03	123.42	125.14	123.49	122.97	122.95	123.18	
5	123.00	123.12	123.18	122.85	122.84	123.00	124.30	124.86	123.44	122.97	122.94	123.10	
6	122.89	123.12	123.18	122.85	122.84	122.98	123.52	124.79	123.36	123.98	122.93	123.08	
7	122.86	123.12	123.18	122.85	122.84	122.94	123.28	124.69	123.24	125.06	122.92	123.02	
8	122.82	123.12	123.18	122.84	122.84	123.16	123.18	124.83	123.21	125.06	122.91	123.00	
9	122.77	123.12	123.18	122.84	122.83	122.99	123.15	124.89	123.18	125.06	122.91	123.00	
10	122.75	123.12	123.18	122.83	122.83	122.95	123.29	124.89	123.17	125.05	122.90	123.00	
11	122.75	123.02	123.18	122.83	122.83	122.94	123.15	125.19	123.18	125.00	122.90	122.99	
12	122.75	122.86	123.19	122.83	122.83	122.93	123.11	125.13	123.19	125.00	122.90	122.98	
13	122.79	122.85	123.19	122.83	122.83	122.93	124.98	125.00	123.18	124.98	122.90	122.95	
14	122.79	122.85	123.19	122.83	122.83	122.93	125.88	124.89	123.18	124.97	122.89	122.93	
15	122.77	122.85	123.18	122.82	122.82	122.92	125.73	124.76	123.18	124.97	122.88	122.91	
16	122.75	122.85	123.18	122.95	122.82	122.92	125.56	124.66	123.29	124.97	124.78	122.90	
17	122.75	122.85	123.19	123.16	122.82	122.91	125.41	124.52	123.23	124.97	124.79	122.90	
18	122.75	122.85	122.93	123.17	122.82	122.96	125.34	124.41	123.25	124.97	124.79	122.89	
19	122.81	122.83	122.93	123.20	122.82	123.05	125.32	124.31	123.20	124.95	124.79	122.93	
20	123.09	122.83	122.93	123.23	122.82	123.15	125.50	124.20	123.19	124.93	124.79	122.93	
21	123.27	122.83	122.89	123.23	122.82	123.70	125.41	124.09	123.22	124.93	124.79	122.91	
22	123.32	122.83	122.89	123.23	122.82	123.37	124.91	124.02	123.22	124.91	124.95	122.90	
23	123.13	122.83	122.89	123.23	122.80	123.57	124.55	123.96	123.20	124.90	124.95	122.90	
24	123.10	122.83	122.89	123.97	122.80	123.68	124.28	123.80	123.18	124.89	124.94	122.89	
25	123.10	122.83	122.89	122.94	123.31	123.43	124.29	123.67	123.17	124.65	124.95	122.89	
26	123.10	122.81	122.89	122.92	123.24	123.24	124.35	123.87	123.17	123.18	124.95	122.89	
27	123.08	122.81	122.89	122.90	123.20	123.15	124.69	123.88	123.22	123.11	124.95	122.80	
28	123.08	122.80	122.89	122.89	123.62	123.12	125.12	123.81	123.19	123.10	124.95	122.87	
29	123.09	122.80	122.85	122.88	123.48	123.07	125.40	123.73	123.13	123.05		122.87	
30	123.11	122.80	122.85	122.88	123.52	123.05	125.66	123.70	123.09	123.02		122.86	
31		122.80		122.88	123.79		125.62		123.04	123.00		122.86	
Mean	122.97	122.93	123.04	122.98	122.97	123.12	124.44	124.54	123.25	124.24	123.83	123.08	
Max	123.32	123.12	123.19	123.97	123.79	123.70	125.88	125.64	123.68	125.06	124.95	124.95	125.88
Min	122.75	122.80	122.85	122.82	122.80	122.91	123.03	123.67	123.04	122.97	122.88	122.80	122.75

Annual Max Momentary Gage Height 125.88 m. (MSL.) , at 18.00 Hours , on Oct 13 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 120.88 m. (MSL.)

Left Bank Elevation 129.97 m. (MSL.) ,

Right Bank Elevation 130.02 m. (MSL.) , Drainage Are 528 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.37	0.15	0.10	0.13	0.94	0.28	26.56	2.38	0.26	0.24	15.10	
2	0.40	0.37	0.43	0.10	0.10	0.43	0.28	25.80	1.85	0.24	0.23	11.56	
3	0.40	0.37	0.43	0.10	0.10	0.35	0.66	21.86	1.55	0.24	0.22	1.00	
4	0.46	0.38	0.40	0.10	0.10	0.28	1.08	17.94	1.36	0.22	0.20	0.47	
5	0.25	0.38	0.47	0.10	0.09	0.25	7.30	13.88	1.16	0.22	0.19	0.35	
6	0.14	0.38	0.47	0.10	0.09	0.23	1.50	12.97	0.88	4.36	0.18	0.33	
7	0.11	0.38	0.47	0.10	0.09	0.19	0.66	11.68	0.58	16.70	0.17	0.27	
8	0.07	0.38	0.47	0.09	0.09	0.44	0.47	13.49	0.52	16.70	0.16	0.25	
9	0.03	0.38	0.47	0.09	0.08	0.24	0.43	14.27	0.47	16.70	0.16	0.25	
10	0.03	0.38	0.47	0.08	0.08	0.20	0.68	14.27	0.46	16.55	0.15	0.25	
11	0.03	0.27	0.47	0.08	0.08	0.19	0.43	18.74	0.47	15.80	0.15	0.24	
12	0.03	0.11	0.49	0.08	0.08	0.18	0.37	17.78	0.49	15.80	0.15	0.23	
13	0.04	0.10	0.49	0.08	0.08	0.18	15.52	15.80	0.47	15.52	0.15	0.20	
14	0.04	0.10	0.49	0.08	0.08	0.18	31.12	14.27	0.47	15.38	0.14	0.18	
15	0.03	0.10	0.47	0.07	0.07	0.17	28.27	12.58	0.47	15.38	0.13	0.16	
16	0.03	0.10	0.47	0.20	0.07	0.17	25.08	11.32	0.68	15.38	12.84	0.15	
17	0.03	0.10	0.49	0.44	0.07	0.16	22.38	9.64	0.56	15.38	12.97	0.15	
18	0.03	0.10	0.18	0.46	0.07	0.21	21.18	8.41	0.60	15.38	12.97	0.14	
19	0.06	0.08	0.18	0.50	0.07	0.30	20.84	7.40	0.50	15.10	12.97	0.18	
20	0.34	0.08	0.18	0.56	0.07	0.43	24.00	6.30	0.49	14.82	12.97	0.18	
21	0.64	0.08	0.14	0.56	0.07	2.50	22.38	5.31	0.54	14.82	12.97	0.16	
22	0.76	0.08	0.14	0.56	0.07	0.91	14.54	4.68	0.54	14.54	15.10	0.15	
23	0.40	0.08	0.14	0.56	0.05	1.75	10.00	4.22	0.50	14.40	15.10	0.15	
24	0.35	0.08	0.14	4.29	0.05	2.38	7.10	3.10	0.47	14.27	14.96	0.14	
25	0.35	0.08	0.14	0.19	0.73	1.12	7.20	2.32	0.46	11.20	15.10	0.14	
26	0.35	0.06	0.14	0.17	0.58	0.58	7.80	3.59	0.46	0.47	15.10	0.14	
27	0.33	0.06	0.14	0.15	0.50	0.43	11.68	3.66	0.54	0.37	15.10	0.05	
28	0.33	0.05	0.14	0.14	2.02	0.38	17.62	3.17	0.49	0.35	15.10	0.12	
29	0.34	0.05	0.10	0.13	1.32	0.32	22.20	2.68	0.40	0.30		0.12	
30	0.37	0.05	0.10	0.13	1.50	0.30	26.94	2.50	0.34	0.27		0.11	
31		0.05		0.13	3.04		26.18		0.29	0.25		0.11	
Total	7.17	5.63	9.46	10.52	11.62	16.39	376.17	330.19	21.44	297.37	185.87	33.03	1304.86 CMSDAY
Mean	0.24	0.18	0.32	0.34	0.37	0.55	12.13	11.01	0.69	9.59	6.64	1.07	3.57 CMS
Max	0.76	0.38	0.49	4.29	3.04	2.50	31.12	26.56	2.38	16.70	15.10	15.10	31.12 CMS
Min	0.03	0.05	0.10	0.07	0.05	0.16	0.28	2.32	0.29	0.22	0.13	0.05	0.03 CMS
Runoff	0.62	0.49	0.82	0.91	1.00	1.42	32.50	28.53	1.85	25.69	16.06	2.85	112.74 MCM

Momentary Peak 31.12 CMS. at 125.88 m. (MSL.) at 18.00 Hours , on Oct 13, 2016

Runoff Yield 6.76 Liters/Second/Square KM. Momentary Peak Yield 58.850 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on right bank at Ban Don Yai

	Ban Don Yai	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,454 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5.00 meters from the top staff gage.	**Elevation**	+24.379 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

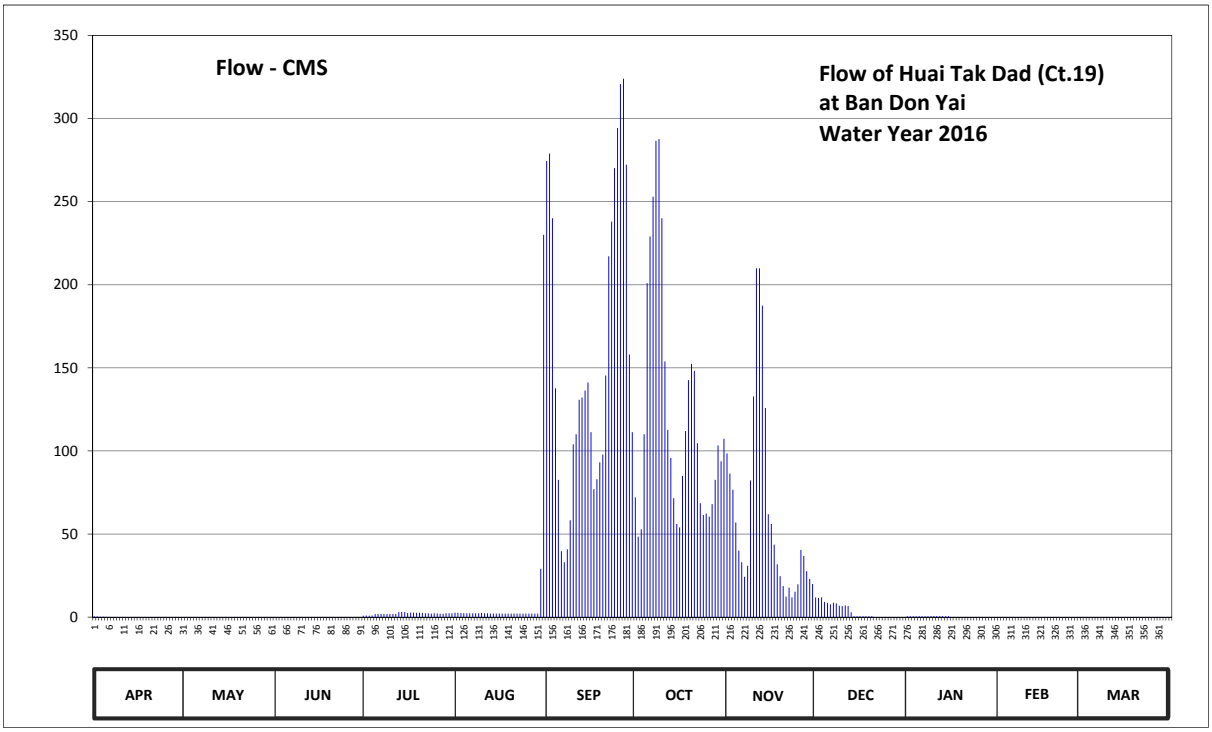
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.30	17.15	17.15	17.37	17.74	23.15	20.54	21.03	18.69	17.32	17.15	17.15	
2	17.28	17.15	17.15	17.39	17.72	23.19	20.01	20.85	18.67	17.32	17.15	17.15	
3	17.24	17.15	17.15	17.37	17.69	22.82	20.12	20.64	18.69	17.32	17.15	17.15	
4	17.22	17.15	17.15	17.39	17.68	21.61	21.20	20.22	18.51	17.32	17.15	17.15	
5	17.20	17.15	17.15	17.56	17.67	20.79	22.41	19.80	18.46	17.32	17.15	17.15	
6	17.18	17.15	17.15	17.58	17.67	19.79	22.71	19.60	18.37	17.32	17.15	17.15	
7	17.15	17.15	17.15	17.58	17.67	19.60	22.95	19.31	18.47	17.32	17.15	17.15	
8	17.15	17.15	17.15	17.58	17.66	19.82	23.26	19.53	18.43	17.32	17.15	17.15	
9	17.15	17.15	17.15	17.58	17.67	20.25	23.27	20.78	18.28	17.33	17.15	17.15	
10	17.15	17.15	17.15	17.58	17.70	21.11	22.82	21.54	18.26	17.33	17.15	17.15	
11	17.15	17.15	17.15	17.58	17.67	21.20	21.84	22.51	18.30	17.33	17.15	17.15	
12	17.15	17.15	17.15	17.58	17.66	21.51	21.24	22.51	18.26	17.33	17.15	17.15	
13	17.15	17.15	17.15	17.81	17.63	21.53	20.99	22.26	17.77	17.33	17.15	17.15	
14	17.15	17.15	17.15	17.81	17.63	21.59	20.53	21.44	17.31	17.32	17.15	17.15	
15	17.15	17.15	17.15	17.81	17.63	21.66	20.20	20.33	17.32	17.32	17.15	17.15	
16	17.15	17.15	17.15	17.69	17.63	21.22	20.15	20.20	17.32	17.15	17.15	17.15	
17	17.15	17.15	17.15	17.73	17.63	20.65	20.83	19.89	17.32	17.15	17.15	17.15	
18	17.15	17.15	17.15	17.73	17.63	20.80	21.23	19.56	17.32	17.15	17.15	17.15	
19	17.15	17.15	17.15	17.71	17.63	20.95	21.68	19.32	17.32	17.15	17.15	17.15	
20	17.15	17.15	17.15	17.72	17.63	21.02	21.82	19.06	17.32	17.15	17.15	17.15	
21	17.15	17.15	17.15	17.69	17.63	21.72	21.76	18.72	17.15	17.15	17.15	17.15	
22	17.15	17.15	17.15	17.67	17.63	22.59	21.12	19.01	17.15	17.15	17.15	17.15	
23	17.15	17.15	17.15	17.66	17.63	22.80	20.47	18.69	17.15	17.15	17.15	17.15	
24	17.15	17.15	17.15	17.63	17.63	23.11	20.32	18.89	17.15	17.15	17.15	17.15	
25	17.15	17.15	17.15	17.66	17.63	23.33	20.34	19.11	17.15	17.15	17.15	17.15	
26	17.15	17.15	17.15	17.64	17.63	23.57	20.30	19.81	17.15	17.15	17.15	17.15	
27	17.15	17.15	17.15	17.61	17.63	23.60	20.46	19.71	17.15	17.15	17.15	17.15	
28	17.15	17.15	17.15	17.60	17.63	23.13	20.79	19.42	17.15	17.15	17.15	17.15	
29	17.15	17.15	17.15	17.67	17.63	21.90	21.10	19.26	17.15	17.15		17.15	
30	17.15	17.15	17.15	17.67	19.47	21.22	20.96	19.12	17.15	17.15		17.15	
31		17.15		17.67	22.72		21.16		17.15	17.15		17.15	
Mean	17.17	17.15	17.15	17.62	17.87	21.71	21.24	20.07	17.71	17.23	17.15	17.15	
Max	17.30	17.15	17.15	17.81	22.72	23.60	23.27	22.51	18.69	17.33	17.15	17.15	23.60
Min	17.15	17.15	17.15	17.37	17.63	19.60	20.01	18.69	17.15	17.15	17.15	17.15	17.15

Annual Max Momentary Gage Height 23.70 m. (MSL.) , at 19.00 Hours , on Sep 26 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 17.15 m. (MSL.)

Left Bank Elevation 24.36 m. (MSL.) ,

Right Bank Elevation 24.35 m. (MSL.) , Drainage Are 3,454 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.10	0.10	0.85	2.70	274.50	72.00	98.52	11.85	0.60	0.10	0.10	
2	0.44	0.10	0.10	0.95	2.60	278.90	48.40	86.38	11.55	0.60	0.10	0.10	
3	0.32	0.10	0.10	0.85	2.45	240.00	52.80	76.60	11.85	0.60	0.10	0.10	
4	0.26	0.10	0.10	0.95	2.40	137.70	110.00	56.90	9.15	0.60	0.10	0.10	
5	0.20	0.10	0.10	1.80	2.35	82.60	200.90	40.00	8.60	0.60	0.10	0.10	
6	0.16	0.10	0.10	1.90	2.35	39.65	229.00	33.00	7.70	0.60	0.10	0.10	
7	0.10	0.10	0.10	1.90	2.35	33.00	253.00	24.30	8.70	0.60	0.10	0.10	
8	0.10	0.10	0.10	1.90	2.30	40.80	286.60	30.90	8.30	0.60	0.10	0.10	
9	0.10	0.10	0.10	1.90	2.35	58.25	287.70	82.20	6.80	0.65	0.10	0.10	
10	0.10	0.10	0.10	1.90	2.50	103.92	240.00	132.80	6.60	0.65	0.10	0.10	
11	0.10	0.10	0.10	1.90	2.35	110.00	153.80	209.90	7.00	0.65	0.10	0.10	
12	0.10	0.10	0.10	1.90	2.30	130.70	112.60	209.90	6.60	0.65	0.10	0.10	
13	0.10	0.10	0.10	3.05	2.15	132.10	95.83	187.40	2.85	0.65	0.10	0.10	
14	0.10	0.10	0.10	3.05	2.15	136.30	71.50	125.80	0.55	0.60	0.10	0.10	
15	0.10	0.10	0.10	3.05	2.15	141.20	56.00	61.85	0.60	0.60	0.10	0.10	
16	0.10	0.10	0.10	2.45	2.15	111.30	54.00	56.00	0.60	0.10	0.10	0.10	
17	0.10	0.10	0.10	2.65	2.15	77.00	85.03	43.60	0.60	0.10	0.10	0.10	
18	0.10	0.10	0.10	2.65	2.15	83.00	111.95	31.80	0.60	0.10	0.10	0.10	
19	0.10	0.10	0.10	2.55	2.15	93.13	142.60	24.60	0.60	0.10	0.10	0.10	
20	0.10	0.10	0.10	2.60	2.15	97.85	152.40	18.70	0.60	0.10	0.10	0.10	
21	0.10	0.10	0.10	2.45	2.15	145.40	148.20	12.30	0.10	0.10	0.10	0.10	
22	0.10	0.10	0.10	2.35	2.15	217.10	104.60	17.70	0.10	0.10	0.10	0.10	
23	0.10	0.10	0.10	2.30	2.15	238.00	68.50	11.85	0.10	0.10	0.10	0.10	
24	0.10	0.10	0.10	2.15	2.15	270.10	61.40	15.30	0.10	0.10	0.10	0.10	
25	0.10	0.10	0.10	2.30	2.15	294.30	62.30	19.70	0.10	0.10	0.10	0.10	
26	0.10	0.10	0.10	2.20	2.15	320.70	60.50	40.40	0.10	0.10	0.10	0.10	
27	0.10	0.10	0.10	2.05	2.15	324.00	68.00	36.85	0.10	0.10	0.10	0.10	
28	0.10	0.10	0.10	2.00	2.15	272.30	82.60	27.60	0.10	0.10	0.10	0.10	
29	0.10	0.10	0.10	2.35	2.15	158.00	103.25	23.00	0.10	0.10		0.10	
30	0.10	0.10	0.10	2.35	29.10	111.30	93.80	19.90	0.10	0.10		0.10	
31		0.10		2.35	230.00		107.30		0.10	0.10		0.10	
Total	4.28	3.10	3.00	65.60	324.65	4753.10	3776.56	1855.75	112.80	10.85	2.80	3.10	10915.59 CMSDAY
Mean	0.14	0.10	0.10	2.12	10.47	158.44	121.82	61.86	3.64	0.35	0.10	0.10	29.91 CMS
Max	0.50	0.10	0.10	3.05	230.00	324.00	287.70	209.90	11.85	0.65	0.10	0.10	324.00 CMS
Min	0.10	0.10	0.10	0.85	2.15	33.00	48.40	11.85	0.10	0.10	0.10	0.10	0.10 CMS
Runoff	0.37	0.27	0.26	5.67	28.05	410.67	326.29	160.34	9.75	0.94	0.24	0.27	943.11 MCM

Momentary Peak 335.00 CMS. at 23.70 m. (MSL.) at 19.00 Hours , on Sep 26 , 2016

Runoff Yield 8.66 Liters/Second/Square KM. Momentary Peak Yield 97.000 Liters/Second/Square KM.

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

Lat 15 - 26 - 43 N Long 99 - 35 - 24 E

Location : on right bank at Ban Saphan Leak

Ban Saphan Leak **Amphoe** Lan Sak **Changwat** Uthai Thani

Drainge Area	691 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the automatic gage buiding **Elevation** +101.800 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Flot	-
Rated by Current Meter	2007 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

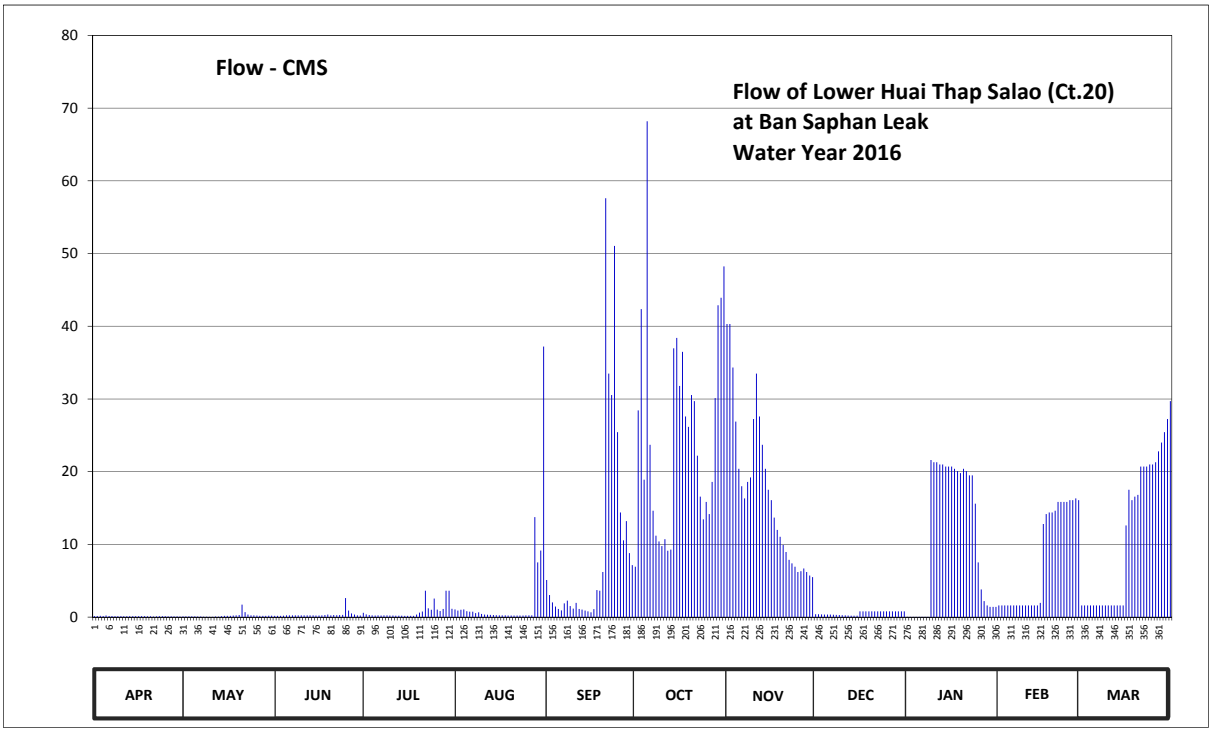
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.49	98.39	98.56	98.90	99.13	99.79	99.41	100.59	98.50	98.24	98.80	98.80	
2	98.50	98.42	98.55	98.78	99.05	99.54	100.32	100.59	98.50	98.24	98.80	98.80	
3	98.53	98.42	98.56	98.72	99.11	99.37	100.63	100.46	98.49	98.24	98.80	98.80	
4	98.52	98.40	98.58	98.66	99.13	99.26	100.03	100.28	98.48	98.24	98.80	98.80	
5	98.63	98.40	98.66	98.64	99.01	99.16	101.05	100.08	98.47	98.24	98.80	98.80	
6	98.50	98.38	98.68	98.65	98.97	99.06	100.19	100.00	98.47	98.24	98.80	98.80	
7	98.50	98.36	98.69	98.64	98.97	99.35	99.86	99.93	98.46	98.24	98.80	98.80	
8	98.48	98.34	98.67	98.65	98.87	99.41	99.70	100.02	98.45	98.24	98.80	98.80	
9	98.48	98.32	98.66	98.65	98.93	99.28	99.65	100.04	98.44	100.12	98.80	98.80	
10	98.47	98.30	98.67	98.63	98.82	99.18	99.61	100.29	98.43	100.11	98.80	98.80	
11	98.47	98.30	98.66	98.62	98.76	99.36	99.67	100.44	98.42	100.11	98.80	98.80	
12	98.47	98.35	98.68	98.59	98.75	99.16	99.57	100.30	98.41	100.10	98.80	98.80	
13	98.45	98.33	98.69	98.58	98.73	99.12	99.58	100.19	98.40	100.10	98.80	98.80	
14	98.44	98.45	98.65	98.57	98.72	99.05	100.52	100.08	98.40	100.09	98.80	98.80	
15	98.44	98.56	98.64	98.56	98.71	98.99	100.55	99.98	98.40	100.09	98.86	98.80	
16	98.45	98.53	98.64	98.56	98.70	98.93	100.40	99.92	98.60	100.09	99.78	99.77	
17	98.45	98.53	98.65	98.56	98.69	99.15	100.51	99.82	98.60	100.08	99.84	99.98	
18	98.43	98.62	98.72	98.56	98.65	99.09	100.30	99.74	98.60	100.07	99.85	99.92	
19	98.41	98.65	98.76	98.76	98.64	99.08	100.26	99.69	98.60	100.06	99.85	99.94	
20	98.39	98.72	98.68	98.91	98.64	99.35	100.37	99.62	98.60	100.08	99.86	99.95	
21	98.37	99.32	98.72	98.98	98.63	100.90	100.35	99.56	98.60	100.07	99.91	100.09	
22	98.42	98.94	98.71	99.63	98.63	100.44	100.14	99.49	98.60	100.05	99.91	100.09	
23	98.43	98.76	98.72	99.20	98.62	100.37	99.94	99.45	98.60	100.05	99.91	100.09	
24	98.44	98.69	98.74	99.11	98.63	100.79	99.81	99.41	98.60	99.90	99.91	100.10	
25	98.45	98.65	99.47	99.46	98.70	100.24	99.91	99.35	98.60	99.46	99.92	100.10	
26	98.42	98.61	99.05	99.12	98.68	99.85	99.84	99.36	98.60	99.10	99.92	100.11	
27	98.41	98.56	98.85	99.02	98.68	99.66	100.02	99.39	98.60	98.90	99.93	100.16	
28	98.40	98.55	98.76	99.16	100.29	99.80	100.36	99.35	98.60	98.80	99.92	100.20	
29	98.39	98.55	98.67	99.63	99.98	99.55	100.64	99.31	98.60	98.75		100.24	
30	98.38	98.57	98.64	99.63	100.08	99.43	100.66	99.29	98.60	98.75		100.29	
31		98.58		99.17	100.86		100.74		98.60	98.75		100.35	
Mean	98.45	98.53	98.71	98.88	98.99	99.52	100.15	99.87	98.53	99.34	99.31	99.46	
Max	98.63	99.32	99.47	99.63	100.86	100.90	101.05	100.59	98.60	100.12	99.93	100.35	101.05
Min	98.37	98.30	98.55	98.56	98.62	98.93	99.41	99.29	98.40	98.24	98.80	98.80	98.24

Annual Max Momentary Gage Height 101.57 m. (MSL.) , at 12.00 Hours , on Oct 5 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 98.32 m. (MSL.)

Left Bank Elevation 104.36 m. (MSL.) ,

Right Bank Elevation 104.34 m. (MSL.) , Drainage Are 691 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.10	0.18	0.60	1.06	5.10	6.92	40.32	0.40	0.04	1.60	1.60	
2	0.15	0.11	0.18	0.37	0.90	3.04	28.44	40.32	0.40	0.04	1.60	1.60	
3	0.17	0.11	0.18	0.28	1.02	2.02	42.36	34.32	0.38	0.04	1.60	1.60	
4	0.16	0.10	0.19	0.23	1.06	1.44	18.90	26.88	0.36	0.04	1.60	1.60	
5	0.22	0.10	0.23	0.22	0.82	1.12	68.20	20.40	0.34	0.04	1.60	1.60	
6	0.15	0.09	0.24	0.23	0.74	0.92	23.70	18.00	0.34	0.04	1.60	1.60	
7	0.15	0.08	0.25	0.22	0.74	1.90	14.64	16.32	0.32	0.04	1.60	1.60	
8	0.14	0.07	0.24	0.23	0.54	2.26	11.20	18.60	0.30	0.04	1.60	1.60	
9	0.14	0.06	0.23	0.23	0.66	1.52	10.40	19.20	0.28	21.60	1.60	1.60	
10	0.14	0.05	0.24	0.22	0.44	1.16	9.76	27.24	0.26	21.30	1.60	1.60	
11	0.14	0.05	0.23	0.21	0.34	1.96	10.72	33.48	0.24	21.30	1.60	1.60	
12	0.14	0.08	0.24	0.20	0.33	1.12	9.12	27.60	0.22	21.00	1.60	1.60	
13	0.13	0.07	0.25	0.19	0.30	1.04	9.28	23.70	0.20	21.00	1.60	1.60	
14	0.12	0.13	0.23	0.19	0.28	0.90	36.96	20.40	0.20	20.70	1.60	1.60	
15	0.12	0.18	0.22	0.18	0.27	0.78	38.40	17.52	0.20	20.70	1.96	1.60	
16	0.13	0.17	0.22	0.18	0.25	0.66	31.80	16.08	0.80	20.70	12.80	12.60	
17	0.13	0.17	0.23	0.18	0.25	1.10	36.48	13.68	0.80	20.40	14.16	17.52	
18	0.12	0.21	0.28	0.18	0.23	3.72	27.60	12.00	0.80	20.10	14.40	16.08	
19	0.11	0.23	0.34	0.34	0.22	3.64	26.16	11.04	0.80	19.80	14.40	16.56	
20	0.10	0.28	0.24	0.62	0.22	6.20	30.54	9.92	0.80	20.40	14.64	16.80	
21	0.09	1.72	0.28	0.76	0.22	57.60	29.70	8.96	0.80	20.10	15.84	20.70	
22	0.11	0.68	0.27	3.64	0.22	33.48	22.20	7.88	0.80	19.50	15.84	20.70	
23	0.12	0.34	0.28	1.20	0.21	30.54	16.56	7.40	0.80	19.50	15.84	20.70	
24	0.12	0.25	0.31	1.02	0.22	51.04	13.44	6.92	0.80	15.60	15.84	21.00	
25	0.13	0.23	2.62	2.56	0.25	25.44	15.84	6.20	0.80	7.52	16.08	21.00	
26	0.11	0.21	0.90	1.04	0.24	14.40	14.16	6.32	0.80	3.80	16.08	21.30	
27	0.11	0.18	0.50	0.84	0.24	10.56	18.60	6.68	0.80	2.20	16.32	22.80	
28	0.10	0.18	0.34	1.12	13.75	13.20	30.12	6.20	0.80	1.60	16.08	24.00	
29	0.10	0.18	0.24	3.64	7.52	8.80	42.88	5.72	0.80	1.40		25.44	
30	0.09	0.19	0.22	3.64	9.16	7.16	43.92	5.50	0.80	1.40		27.24	
31		0.19		1.14	37.20		48.24		0.80	1.40		29.70	
Total	3.89	6.79	10.60	25.90	79.90	293.82	787.24	514.80	17.24	343.34	222.68	358.14	2664.34 CMSDAY
Mean	0.13	0.22	0.35	0.84	2.58	9.79	25.39	17.16	0.56	11.08	7.95	11.55	7.30 CMS
Max	0.22	1.72	2.62	3.64	37.20	57.60	68.20	40.32	0.80	21.60	16.32	29.70	68.20 CMS
Min	0.09	0.05	0.18	0.18	0.21	0.66	6.92	5.50	0.20	0.04	1.60	1.60	0.04 CMS
Runoff	0.34	0.59	0.92	2.24	6.90	25.39	68.02	44.48	1.49	29.66	19.24	30.94	230.20 MCM

Momentary Peak 115.00 CMS. at 101.57 m. (MSL.) at 12.00 Hours , on Oct 5 , 2016

Runoff Yield 10.56 Liters/Second/Square KM. Momentary Peak Yield 166.390 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Tan Dieo , Phetchabun (S.3)

Lat 16 - 46 - 51 N Long 101 - 14 - 57 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

Ban Tan Dieo **Amphoe** Lom Sak **Changwat** Phetchabun

Drainge Area	1,037 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+136.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the staff gage. **Elevation** +142.630 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	1950 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

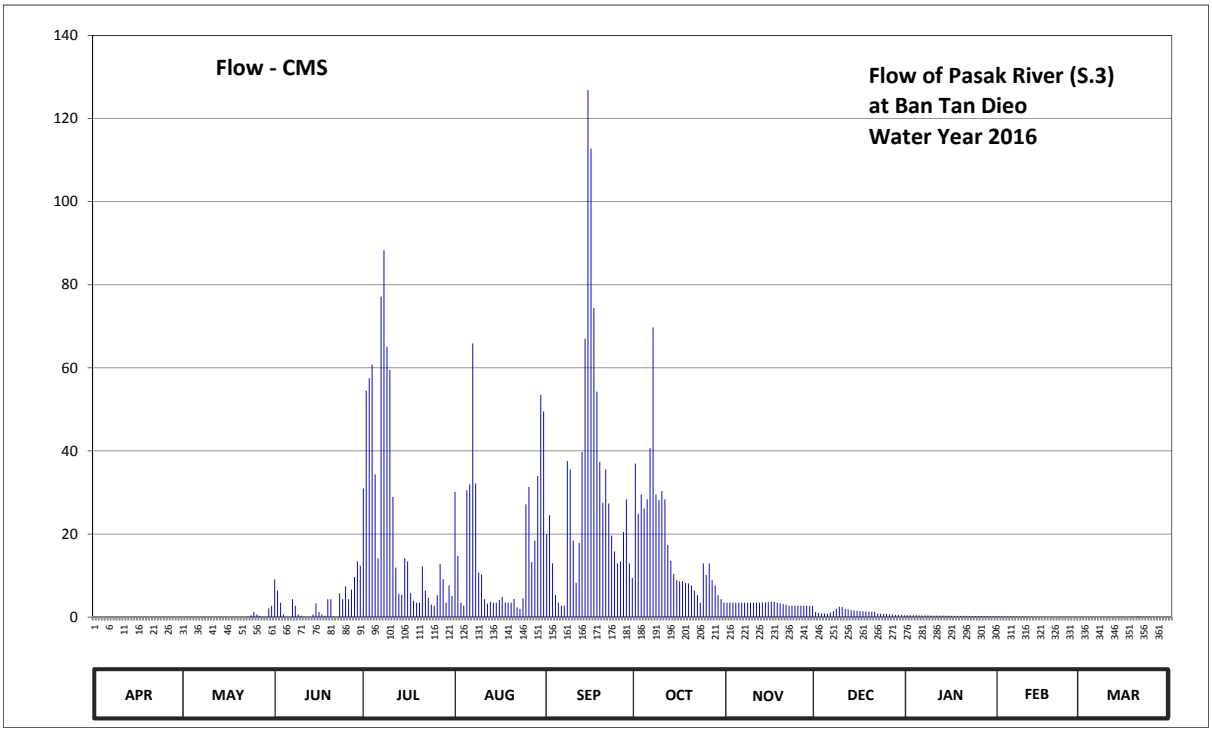
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.48	139.43	140.75	142.06	142.02	141.47	142.36	140.23	139.93	139.78	139.68	139.48	
2	139.48	139.43	140.53	143.11	141.15	141.73	141.75	140.23	139.90	139.78	139.67	139.48	
3	139.48	139.43	140.23	143.23	140.23	141.03	141.99	140.23	139.88	139.78	139.67	139.48	
4	139.48	139.43	139.83	143.36	140.13	140.43	141.82	140.23	139.88	139.78	139.67	139.48	
5	139.48	139.43	139.63	142.23	142.04	140.23	141.93	140.23	139.87	139.77	139.66	139.48	
6	139.48	139.43	139.53	141.11	142.11	140.13	142.53	140.23	139.91	139.77	139.66	139.47	
7	139.48	139.43	140.33	143.97	143.56	140.13	143.70	140.23	139.96	139.77	139.66	139.47	
8	139.48	139.43	140.13	144.34	142.12	142.39	141.99	140.23	140.03	139.77	139.65	139.47	
9	139.48	139.43	139.83	143.53	140.88	142.29	141.92	140.23	140.10	139.76	139.64	139.46	
10	139.48	139.43	139.73	143.31	140.84	141.38	142.03	140.23	140.09	139.76	139.63	139.46	
11	139.46	139.43	139.63	141.96	140.33	140.68	141.93	140.23	140.03	139.75	139.61	139.43	
12	139.46	139.43	139.53	140.96	140.20	141.35	141.32	140.23	140.01	139.75	139.61	139.43	
13	139.46	139.43	139.53	140.46	140.26	142.49	141.07	140.24	139.99	139.75	139.60	139.43	
14	139.46	139.43	139.83	140.43	140.23	143.60	140.85	140.24	139.98	139.74	139.60	139.43	
15	139.46	139.43	140.21	141.11	140.23	145.48	140.73	140.25	139.97	139.74	139.60	139.43	
16	139.46	139.43	139.93	141.06	140.31	145.08	140.71	140.26	139.96	139.73	139.58	139.43	
17	139.45	139.43	139.83	140.48	140.39	143.87	140.71	140.26	139.95	139.73	139.57	139.43	
18	139.45	139.43	139.73	140.29	140.23	143.10	140.68	140.23	139.95	139.73	139.55	139.45	
19	139.45	139.43	140.33	140.23	140.23	142.38	140.67	140.21	139.94	139.73	139.54	139.53	
20	139.45	139.43	140.33	140.23	140.23	141.89	140.63	140.18	139.94	139.73	139.54	139.68	
21	139.44	139.49	139.65	140.98	140.34	142.29	140.53	140.16	139.93	139.72	139.53	139.65	
22	139.44	139.58	139.53	140.53	140.08	141.88	140.43	140.13	139.88	139.72	139.53	139.63	
23	139.44	139.63	140.47	140.36	140.03	141.45	140.23	140.13	139.86	139.71	139.53	139.63	
24	139.44	139.78	140.33	140.17	140.35	141.22	141.03	140.13	139.85	139.71	139.52	139.63	
25	139.44	139.93	140.61	140.13	141.87	141.03	140.83	140.13	139.85	139.71	139.52	139.60	
26	139.43	139.83	140.33	140.43	142.08	141.06	141.03	140.13	139.83	139.70	139.50	139.60	
27	139.43	139.73	140.55	141.02	141.05	141.50	140.73	140.13	139.83	139.70	139.49	139.58	
28	139.43	139.63	140.79	140.75	141.38	141.93	140.63	140.13	139.81	139.69	139.48	139.58	
29	139.43	139.63	141.06	140.23	142.21	141.03	140.43	140.13	139.81	139.68		139.58	
30	139.43	140.05	140.99	140.63	143.07	140.77	140.33	140.13	139.81	139.68		139.56	
31		140.13		140.41	142.91		140.23		139.78	139.68		139.53	
Mean	139.46	139.55	140.12	141.39	141.07	141.84	141.22	140.20	139.92	139.74	139.59	139.52	
Max	139.48	140.13	141.06	144.34	143.56	145.48	143.70	140.26	140.10	139.78	139.68	139.68	145.48
Min	139.43	139.43	139.53	140.13	140.03	140.13	140.23	140.13	139.78	139.68	139.48	139.43	139.43

Annual Max Momentary Gage Height 145.49 m. (MSL.) , at 15.00 Hours , on Sep 15 , 2016

Zero Gage at Bottom Elevation 136.63 m. (MSL.) , River Bed 138.83 m. (MSL.)

Left Bank Elevation 146.37 m. (MSL.) ,

Right Bank Elevation 146.30 m. (MSL.) , Drainage Are 1,037 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	9.13	30.95	30.15	19.97	36.95	3.47	1.23	0.45	0.20	0.00	
2	0.00	0.00	6.38	54.50	14.75	24.52	24.87	3.47	1.00	0.45	0.17	0.00	
3	0.00	0.00	3.47	57.50	3.47	12.95	29.55	3.47	0.90	0.45	0.17	0.00	
4	0.00	0.00	0.65	60.75	2.73	5.30	26.15	3.47	0.90	0.45	0.17	0.00	
5	0.00	0.00	0.07	34.35	30.55	3.47	28.35	3.47	0.85	0.42	0.15	0.00	
6	0.00	0.00	0.00	14.15	31.95	2.73	40.68	3.47	1.08	0.42	0.15	0.00	
7	0.00	0.00	4.30	77.17	65.90	2.73	69.75	3.47	1.45	0.42	0.15	0.00	
8	0.00	0.00	2.73	88.30	32.15	37.55	29.55	3.47	1.98	0.42	0.12	0.00	
9	0.00	0.00	0.65	65.08	10.75	35.55	28.15	3.47	2.50	0.40	0.10	0.00	
10	0.00	0.00	0.32	59.50	10.25	18.40	30.35	3.47	2.43	0.40	0.07	0.00	
11	0.00	0.00	0.07	28.95	4.30	8.25	28.35	3.47	1.98	0.37	0.02	0.00	
12	0.00	0.00	0.00	11.90	3.25	17.87	17.35	3.47	1.83	0.37	0.02	0.00	
13	0.00	0.00	0.00	5.60	3.70	39.78	13.55	3.55	1.68	0.37	0.00	0.00	
14	0.00	0.00	0.65	5.30	3.47	67.00	10.38	3.55	1.60	0.35	0.00	0.00	
15	0.00	0.00	3.32	14.15	3.47	126.80	8.88	3.62	1.53	0.35	0.00	0.00	
16	0.00	0.00	1.23	13.40	4.10	112.80	8.63	3.70	1.45	0.32	0.00	0.00	
17	0.00	0.00	0.65	5.80	4.90	74.43	8.63	3.70	1.38	0.32	0.00	0.00	
18	0.00	0.00	0.32	3.92	3.47	54.25	8.25	3.47	1.38	0.32	0.00	0.00	
19	0.00	0.00	4.30	3.47	3.47	37.35	8.13	3.32	1.30	0.32	0.00	0.00	
20	0.00	0.00	4.30	3.47	3.47	27.55	7.63	3.10	1.30	0.32	0.00	0.20	
21	0.00	0.00	0.12	12.20	4.40	35.55	6.38	2.95	1.23	0.30	0.00	0.12	
22	0.00	0.00	0.00	6.38	2.35	27.35	5.30	2.73	0.90	0.30	0.00	0.07	
23	0.00	0.07	5.70	4.60	1.98	19.62	3.47	2.73	0.80	0.27	0.00	0.07	
24	0.00	0.45	4.30	3.02	4.50	15.80	12.95	2.73	0.75	0.27	0.00	0.07	
25	0.00	1.23	7.38	2.73	27.15	12.95	10.13	2.73	0.75	0.27	0.00	0.00	
26	0.00	0.65	4.30	5.30	31.35	13.40	12.95	2.73	0.65	0.25	0.00	0.00	
27	0.00	0.32	6.63	12.80	13.25	20.50	8.88	2.73	0.65	0.25	0.00	0.00	
28	0.00	0.07	9.63	9.13	18.40	28.35	7.63	2.73	0.55	0.22	0.00	0.00	
29	0.00	0.07	13.40	3.47	33.95	12.95	5.30	2.73	0.55	0.20		0.00	
30	0.00	2.13	12.35	7.63	53.50	9.38	4.30	2.73	0.55	0.20		0.00	
31		2.73		5.10	49.50		3.47		0.45	0.20		0.00	
Total	0.00	7.72	106.35	710.57	510.58	925.10	544.89	97.17	37.58	10.42	1.49	0.53	2952.40 CMSDAY
Mean	0.00	0.25	3.54	22.92	16.47	30.84	17.58	3.24	1.21	0.34	0.05	0.02	8.09 CMS
Max	0.00	2.73	13.40	88.30	65.90	126.80	69.75	3.70	2.50	0.45	0.20	0.20	126.80 CMS
Min	0.00	0.00	0.00	2.73	1.98	2.73	3.47	2.73	0.45	0.20	0.00	0.00	0.00 CMS
Runoff	0.00	0.67	9.19	61.39	44.11	79.93	47.08	8.40	3.25	0.90	0.13	0.05	255.09 MCM

Momentary Peak 127.15 CMS. at 145.49 m. (MSL.) at 15.00 Hours , on Sep 15 , 2016

Runoff Yield 7.80 Liters/Second/Square KM. Momentary Peak Yield 122.610 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Mueang , Phetchabun (S.4B)

Lat 16 - 25 - 16 N Long 101 - 10 - 08 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

Ban Nai Mueang **Amphoe** Mueang **Changwat** Phetchabun

Drainge Area	3,459 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+106.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank in front of town - hall Changwat Phetchabun. **Elevation** +116.106 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

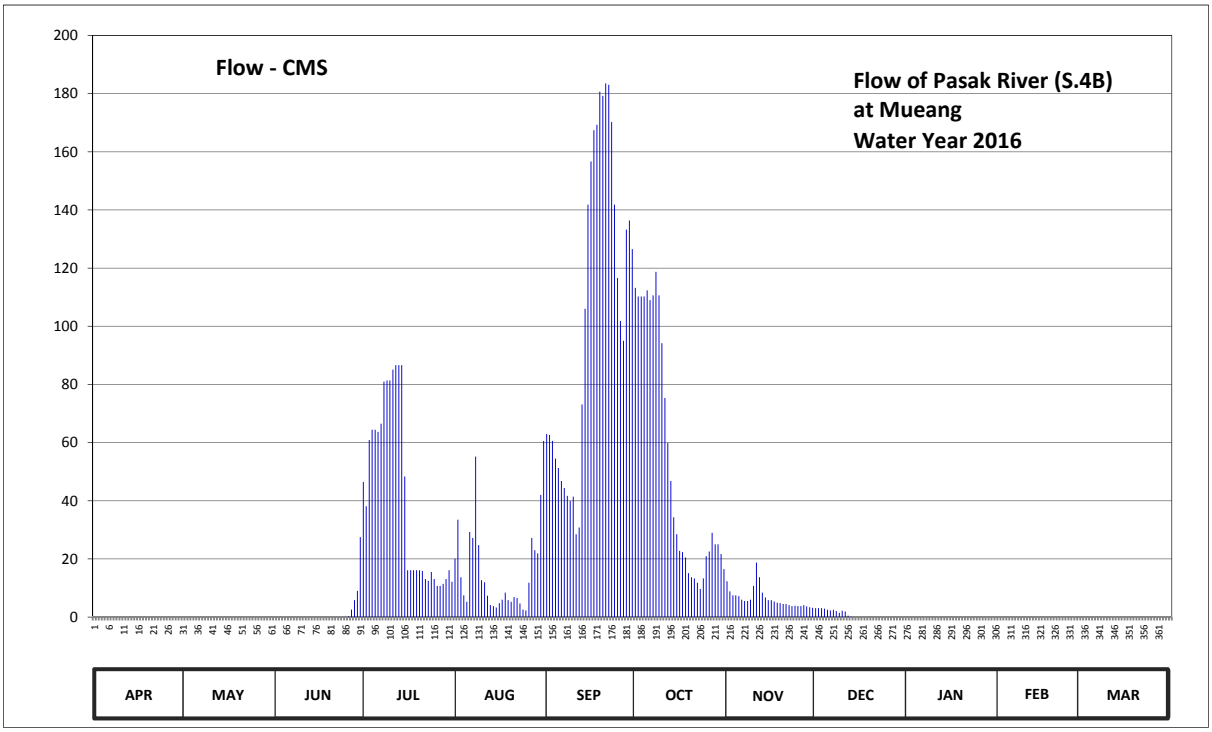
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.30	109.30	109.35	112.65	111.67	113.15	114.44	111.29	110.66	110.02	109.72	108.27	
2	109.30	109.30	109.35	112.37	112.21	113.14	114.37	111.09	110.66	110.02	109.69	108.27	
3	109.30	109.30	109.35	113.09	111.36	113.08	114.37	111.00	110.66	110.02	109.68	108.27	
4	109.30	109.30	109.35	113.19	111.00	112.90	114.37	111.00	110.64	110.02	109.67	108.27	
5	109.30	109.30	109.35	113.19	110.85	112.80	114.42	110.98	110.60	110.02	109.66	108.27	
6	109.30	109.30	109.35	113.17	112.05	112.66	114.34	110.90	110.58	110.02	109.65	108.27	
7	109.30	109.30	109.35	113.25	111.97	112.58	114.38	110.87	110.60	110.02	109.62	108.27	
8	109.30	109.30	109.35	113.64	112.92	112.49	114.57	110.87	110.56	110.02	109.59	108.27	
9	109.30	109.30	109.35	113.65	111.87	112.43	114.38	110.90	110.50	110.02	109.57	108.27	
10	109.30	109.30	109.34	113.65	111.31	112.48	113.98	111.20	110.57	110.02	109.54	108.27	
11	109.30	109.30	109.34	113.75	111.27	112.02	113.49	111.61	110.54	110.02	109.53	108.27	
12	109.30	109.30	109.35	113.79	110.99	112.11	113.06	111.36	110.40	110.02	109.51	108.27	
13	109.30	109.30	109.35	113.79	110.76	113.43	112.66	111.06	110.32	110.02	109.51	108.27	
14	109.30	109.30	109.36	113.79	110.73	114.27	112.24	110.95	110.26	110.02	109.50	108.27	
15	109.30	109.30	109.36	112.71	110.68	115.09	112.02	110.89	110.23	110.02	109.48	108.27	
16	109.30	109.30	109.36	111.48	110.82	115.42	111.79	110.89	110.19	109.85	109.44	108.27	
17	109.30	109.30	109.35	111.48	110.90	115.65	111.77	110.86	110.18	109.85	109.39	108.27	
18	109.30	109.30	109.38	111.48	111.06	115.69	111.69	110.83	110.17	109.85	109.24	108.27	
19	109.30	109.30	109.39	111.48	110.89	115.93	111.43	110.82	110.15	109.85	108.85	108.27	
20	109.30	109.30	109.40	111.48	110.85	115.90	111.36	110.80	110.16	109.85	108.41	108.28	
21	109.30	109.30	109.40	111.47	110.96	115.99	111.34	110.80	110.17	109.85	108.27	108.28	
22	109.30	109.30	109.40	111.33	110.94	115.98	111.26	110.76	110.23	109.85	108.27	108.28	
23	109.30	109.30	109.54	111.30	110.81	115.71	111.14	110.73	110.17	109.85	108.27	108.28	
24	109.30	109.30	109.57	111.45	110.61	115.09	111.34	110.74	110.16	109.85	108.27	108.28	
25	109.30	109.31	109.60	111.33	110.58	114.52	111.71	110.73	110.14	109.85	108.26	108.28	
26	109.30	109.31	110.35	111.20	111.26	114.17	111.78	110.73	110.11	109.85	108.26	108.27	
27	109.30	109.32	110.61	111.20	111.97	114.00	112.04	110.76	110.09	109.85	108.25	108.27	
28	109.30	109.32	110.89	111.24	111.80	114.90	111.88	110.72	110.07	109.85	108.25	108.28	
29	109.30	109.33	111.10	111.33	111.75	114.97	111.88	110.69	110.05	109.85		108.28	
30	109.30	109.34	111.98	111.48	112.50	114.75	111.74	110.67	110.04	109.85		108.27	
31		109.35		111.28	113.08		111.50		110.02	109.85		108.27	
Mean	109.30	109.31	109.65	112.31	111.37	114.11	112.67	110.92	110.32	109.93	109.12	108.27	
Max	109.30	109.35	111.98	113.79	113.08	115.99	114.57	111.61	110.66	110.02	109.72	108.28	115.99
Min	109.30	109.30	109.34	111.20	110.58	112.02	111.14	110.67	110.02	109.85	108.25	108.27	108.25

Annual Max Momentary Gage Height 116.06 m. (MSL.) , at 06.00 Hours , on Sep 19 , 2016

Zero Gage at Bottom Elevation 106.50 m. (MSL.) , River Bed 107.68 m. (MSL.)

Left Bank Elevation 117.76 m. (MSL.) ,

Right Bank Elevation 118.08 m. (MSL.) , Drainage Are 3,459 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	46.50	20.07	63.00	113.20	12.32	3.10	0.00	0.00	0.00	
2	0.00	0.00	0.00	38.10	33.52	62.65	110.23	8.85	3.10	0.00	0.00	0.00	
3	0.00	0.00	0.00	60.90	13.70	60.55	110.23	7.50	3.10	0.00	0.00	0.00	
4	0.00	0.00	0.00	64.40	7.50	54.50	110.23	7.50	2.90	0.00	0.00	0.00	
5	0.00	0.00	0.00	64.40	5.25	51.25	112.35	7.20	2.50	0.00	0.00	0.00	
6	0.00	0.00	0.00	63.70	29.25	46.80	108.95	6.00	2.30	0.00	0.00	0.00	
7	0.00	0.00	0.00	66.50	27.25	44.40	110.65	5.55	2.50	0.00	0.00	0.00	
8	0.00	0.00	0.00	81.00	55.15	41.70	118.73	5.55	2.10	0.00	0.00	0.00	
9	0.00	0.00	0.00	81.37	24.75	39.90	110.65	6.00	1.50	0.00	0.00	0.00	
10	0.00	0.00	0.00	81.37	12.70	41.40	94.20	10.75	2.20	0.00	0.00	0.00	
11	0.00	0.00	0.00	85.12	11.97	28.50	75.37	18.73	1.90	0.00	0.00	0.00	
12	0.00	0.00	0.00	86.62	7.35	30.78	59.85	13.70	0.50	0.00	0.00	0.00	
13	0.00	0.00	0.00	86.62	4.10	73.12	46.80	8.40	0.10	0.00	0.00	0.00	
14	0.00	0.00	0.00	86.62	3.80	105.98	34.35	6.75	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	48.33	3.30	141.80	28.50	5.85	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	16.10	4.80	156.65	22.77	5.85	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	16.10	6.00	167.38	22.32	5.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	16.10	8.40	169.27	20.52	4.95	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	16.10	5.85	180.68	15.10	4.80	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	16.10	5.25	179.25	13.70	4.50	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	15.90	6.90	183.52	13.30	4.50	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	13.10	6.60	183.05	11.80	4.10	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	12.50	4.65	170.22	9.70	3.80	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	15.50	2.60	141.80	13.30	3.90	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	13.10	2.30	116.60	20.97	3.80	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.25	10.75	11.80	101.80	22.55	3.80	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.60	10.75	27.25	95.00	29.00	4.10	0.00	0.00	0.00	0.00	
28	0.00	0.00	5.85	11.45	23.00	133.25	25.00	3.70	0.00	0.00	0.00	0.00	
29	0.00	0.00	9.00	13.10	21.87	136.40	25.00	3.40	0.00	0.00		0.00	
30	0.00	0.00	27.50	16.10	42.00	126.50	21.65	3.20	0.00	0.00		0.00	
31		0.00		12.15	60.55		16.50		0.00	0.00		0.00	
Total	0.00	0.00	45.20	1266.45	499.48	3127.70	1647.47	194.45	27.80	0.00	0.00	0.00	6808.55	CMSDAY
Mean	0.00	0.00	1.51	40.85	16.11	104.26	53.14	6.48	0.90	0.00	0.00	0.00	18.65	CMS
Max	0.00	0.00	27.50	86.62	60.55	183.52	118.73	18.73	3.10	0.00	0.00	0.00	183.52	CMS
Min	0.00	0.00	0.00	10.75	2.30	28.50	9.70	3.20	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	3.91	109.42	43.16	270.23	142.34	16.80	2.40	0.00	0.00	0.00	588.26	MCM

Momentary Peak 187.00 CMS. at 116.06 m. (MSL.) at 06.00 Hours , on Sep 19 , 2016

Runoff Yield 5.39 Liters/Second/Square KM. Momentary Peak Yield 54.060 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Panchamathirat Uthit Hospital , Phra Nakhon Si Ayutthaya (S.5)

Lat 14 - 21 - 32 N Long 100 - 35 - 02 E

Location : on right bank at the bridge.

Ban Panchamathirat **Amphoe** Phra Nakhon Si Ayutthaya **Changwat** Phra Nakhon Si Ayutthaya

Drainge Area	15,830 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +7.220 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

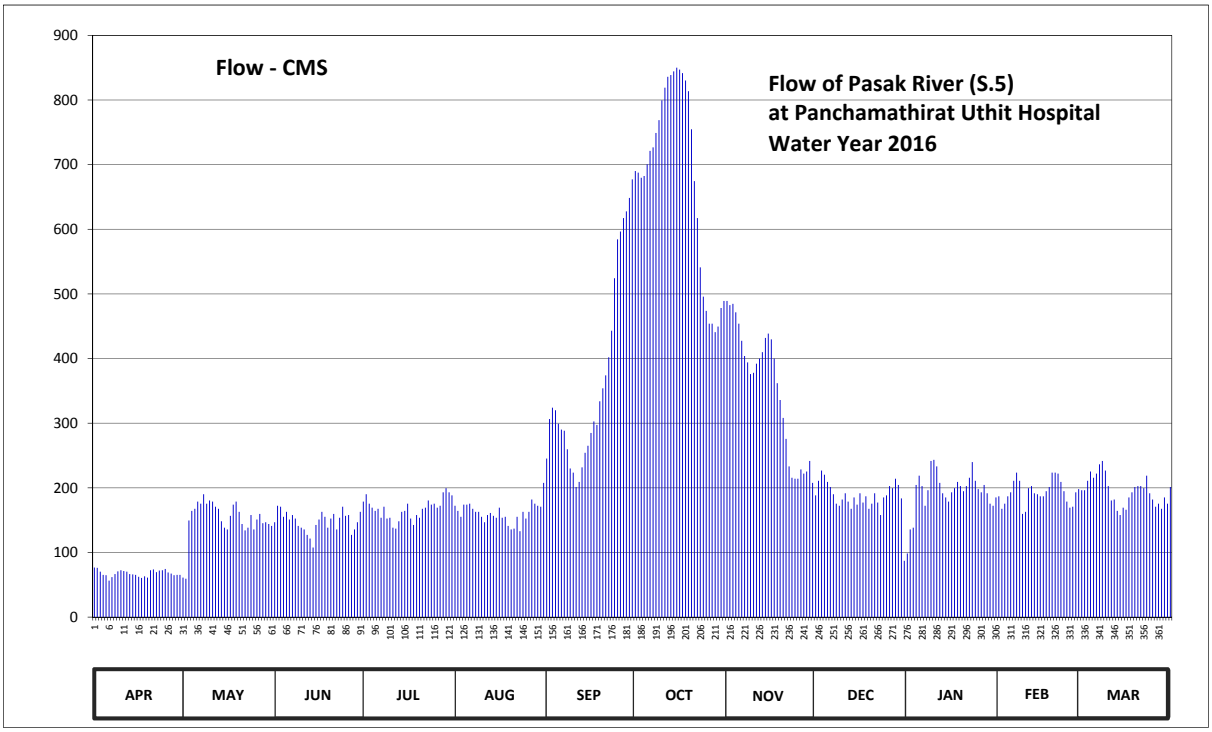
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	0.52	0.52	0.73	0.69	1.14	3.17	2.36	0.79	0.17	0.78	0.84	
2	0.77	0.49	0.69	0.80	0.64	1.48	3.16	2.33	0.93	0.44	0.66	0.84	
3	0.67	0.54	0.68	0.71	0.58	1.57	3.13	2.34	1.03	0.46	0.71	0.93	
4	0.59	0.64	0.58	0.67	0.70	1.55	3.14	2.28	0.99	0.89	0.78	1.02	
5	0.58	0.66	0.63	0.64	0.70	1.44	3.21	2.20	0.92	0.98	0.82	0.96	
6	0.43	0.73	0.55	0.66	0.71	1.39	3.29	2.08	0.87	0.88	0.93	1.00	
7	0.53	0.71	0.60	0.57	0.66	1.38	3.31	1.97	0.80	0.69	1.01	1.09	
8	0.61	0.80	0.56	0.68	0.63	1.22	3.39	1.92	0.71	0.84	0.93	1.12	
9	0.68	0.71	0.48	0.56	0.63	1.05	3.46	1.83	0.69	1.12	0.61	1.03	
10	0.71	0.74	0.46	0.57	0.58	1.01	3.57	1.84	0.75	1.13	0.63	0.88	
11	0.69	0.73	0.44	0.46	0.52	0.87	3.64	1.91	0.81	1.07	0.86	0.74	
12	0.67	0.68	0.38	0.45	0.60	0.92	3.70	1.95	0.73	0.91	0.88	0.75	
13	0.61	0.66	0.34	0.53	0.62	1.06	3.71	2.00	0.66	0.81	0.81	0.64	
14	0.60	0.53	0.24	0.63	0.59	1.19	3.73	2.10	0.77	0.77	0.80	0.60	
15	0.59	0.46	0.49	0.64	0.57	1.25	3.75	2.13	0.70	0.73	0.78	0.67	
16	0.54	0.44	0.55	0.71	0.67	1.36	3.74	2.09	0.81	0.82	0.78	0.65	
17	0.51	0.59	0.63	0.56	0.57	1.46	3.72	1.95	0.72	0.86	0.83	0.77	
18	0.55	0.70	0.58	0.49	0.58	1.43	3.68	1.76	0.78	0.92	0.87	0.82	
19	0.52	0.73	0.46	0.60	0.48	1.62	3.62	1.63	0.66	0.88	1.01	0.87	
20	0.71	0.63	0.56	0.57	0.44	1.72	3.41	1.49	0.71	0.83	1.01	0.88	
21	0.73	0.50	0.61	0.66	0.45	1.82	3.11	1.31	0.81	0.88	1.00	0.88	
22	0.66	0.43	0.44	0.67	0.58	1.96	2.89	1.07	0.72	0.96	0.92	0.86	
23	0.70	0.46	0.57	0.74	0.42	2.15	2.58	0.96	0.60	1.11	0.83	0.98	
24	0.71	0.60	0.68	0.70	0.63	2.51	2.39	0.95	0.77	0.93	0.73	0.81	
25	0.74	0.44	0.59	0.71	0.56	2.76	2.29	0.95	0.79	0.85	0.67	0.75	
26	0.65	0.55	0.60	0.67	0.63	2.81	2.20	1.04	0.88	0.82	0.68	0.68	
27	0.62	0.61	0.38	0.69	0.75	2.89	2.20	1.00	0.86	0.89	0.82	0.71	
28	0.58	0.51	0.44	0.82	0.71	2.93	2.14	1.02	0.95	0.81	0.85	0.66	
29	0.59	0.52	0.52	0.86	0.69	3.01	2.18	1.12	0.89	0.71		0.77	
30	0.59	0.50	0.63	0.82	0.68	3.12	2.31	0.91	0.76	0.69		0.71	
31		0.48		0.79	0.91		2.36		0.07	0.77		0.87	
Mean	0.63	0.59	0.53	0.66	0.62	1.74	3.10	1.68	0.77	0.83	0.82	0.83	
Max	0.78	0.80	0.69	0.86	0.91	3.12	3.75	2.36	1.03	1.13	1.01	1.12	3.75
Min	0.43	0.43	0.24	0.45	0.42	0.87	2.14	0.91	0.07	0.17	0.61	0.60	0.07

Annual Max Momentary Gage Height 3.79 m. (MSL.) , at 24.00 Hours , on Oct 14 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -9.00 m. (MSL.)

Left Bank Elevation 5.67 m. (MSL.) ,

Right Bank Elevation 7.22 m. (MSL.) , Drainage Are 15,830 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	76.80	61.20	146.80	178.80	172.40	245.20	690.20	489.20	188.40	98.40	186.80	196.40	
2	76.20	59.50	172.40	190.00	164.40	306.40	687.60	482.60	210.80	135.60	167.60	196.40	
3	70.20	149.60	170.80	175.60	155.20	324.00	679.80	484.80	226.80	138.40	175.60	210.80	
4	65.40	164.40	155.20	169.20	174.00	320.00	682.40	471.60	220.40	204.40	186.80	225.20	
5	64.80	167.60	162.80	164.40	174.00	299.20	700.60	454.00	209.20	218.80	193.20	215.60	
6	56.50	178.80	151.00	167.60	175.60	290.20	721.40	427.60	201.20	202.80	210.80	222.00	
7	61.80	175.60	158.00	153.80	167.60	288.40	726.80	404.00	190.00	172.40	223.60	236.40	
8	66.60	190.00	152.40	170.80	162.80	259.60	749.20	394.00	175.60	196.40	210.80	241.60	
9	70.80	175.60	141.20	152.40	162.80	230.00	768.80	376.00	172.40	241.60	159.60	226.80	
10	72.60	180.40	138.40	153.80	155.20	223.60	799.60	378.00	182.00	243.40	162.80	202.80	
11	71.40	178.80	135.60	138.40	146.80	201.20	819.20	392.00	191.60	233.20	199.60	180.40	
12	70.20	170.80	127.20	137.00	158.00	209.20	836.00	400.00	178.80	207.60	202.80	182.00	
13	66.60	167.60	121.60	148.20	161.20	231.60	838.80	410.00	167.60	191.60	191.60	164.40	
14	66.00	148.20	107.60	162.80	156.60	254.20	844.40	432.00	185.20	185.20	190.00	158.00	
15	65.40	138.40	142.60	164.40	153.80	265.00	850.00	438.60	174.00	178.80	186.80	169.20	
16	62.40	135.60	151.00	175.60	169.20	284.80	847.20	429.80	191.60	193.20	186.80	166.00	
17	60.60	156.60	162.80	152.40	153.80	302.80	841.60	400.00	177.20	199.60	194.80	185.20	
18	63.00	174.00	155.20	142.60	155.20	297.40	830.40	362.00	186.80	209.20	201.20	193.20	
19	61.20	178.80	138.40	158.00	141.20	334.00	813.60	336.00	167.60	202.80	223.60	201.20	
20	72.60	162.80	152.40	153.80	135.60	354.00	754.80	308.20	175.60	194.80	223.60	202.80	
21	73.80	144.00	159.60	167.60	137.00	374.00	674.60	275.80	191.60	202.80	222.00	202.80	
22	69.60	134.20	135.60	169.20	155.20	402.00	617.40	233.20	177.20	215.60	209.20	199.60	
23	72.00	138.40	153.80	180.40	132.80	443.00	541.20	215.60	158.00	239.80	194.80	218.80	
24	72.60	158.00	170.80	174.00	162.80	524.40	495.80	214.00	185.20	210.80	178.80	191.60	
25	74.40	135.60	156.60	175.60	152.40	584.40	473.80	214.00	188.40	198.00	169.20	182.00	
26	69.00	151.00	158.00	169.20	162.80	596.60	454.00	228.40	202.80	193.20	170.80	170.80	
27	67.20	159.60	127.20	172.40	182.00	617.40	454.00	222.00	199.60	204.40	193.20	175.60	
28	64.80	145.40	135.60	193.20	175.60	627.80	440.80	225.20	214.00	191.60	198.00	167.60	
29	65.40	146.80	146.80	199.60	172.40	648.60	449.60	241.60	204.40	175.60		185.20	
30	65.40	144.00	162.80	193.20	170.80	677.20	478.20	207.60	183.60	172.40		175.60	
31		141.20		188.40	207.60		489.20		87.00	185.20		201.20	
Total	2035.30	4712.50	4450.20	5192.40	5006.80	11016.20	21051.00	10547.80	5764.60	6037.60	5414.40	6047.20	87276.00 CMSDAY
Mean	67.84	152.02	148.34	167.50	161.51	367.21	679.06	351.59	185.95	194.76	193.37	195.07	239.11 CMS
Max	76.80	190.00	172.40	199.60	207.60	677.20	850.00	489.20	226.80	243.40	223.60	241.60	850.00 CMS
Min	56.50	59.50	107.60	137.00	132.80	201.20	440.80	207.60	87.00	98.40	159.60	158.00	56.50 CMS
Runoff	175.85	407.16	384.50	448.62	432.59	951.80	1818.81	911.33	498.06	521.65	467.80	522.48	7540.65 MCM

Momentary Peak 861.20 CMS. at 3.79 m. (MSL.) at 24.00 Hours , on Oct 14 , 2016

Runoff Yield 15.10 Liters/Second/Square KM. Momentary Peak Yield 54.400 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

Location : on right bank at Ban Tharahad.

	Ban Tharahad		**Amphoe** Wang Muang	**Changwat** Saraburi	
Drainge Area	580 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the bridge.			**Elevation**	+52.984. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2003 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Flot	-				
Rated by Current Meter	2003 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

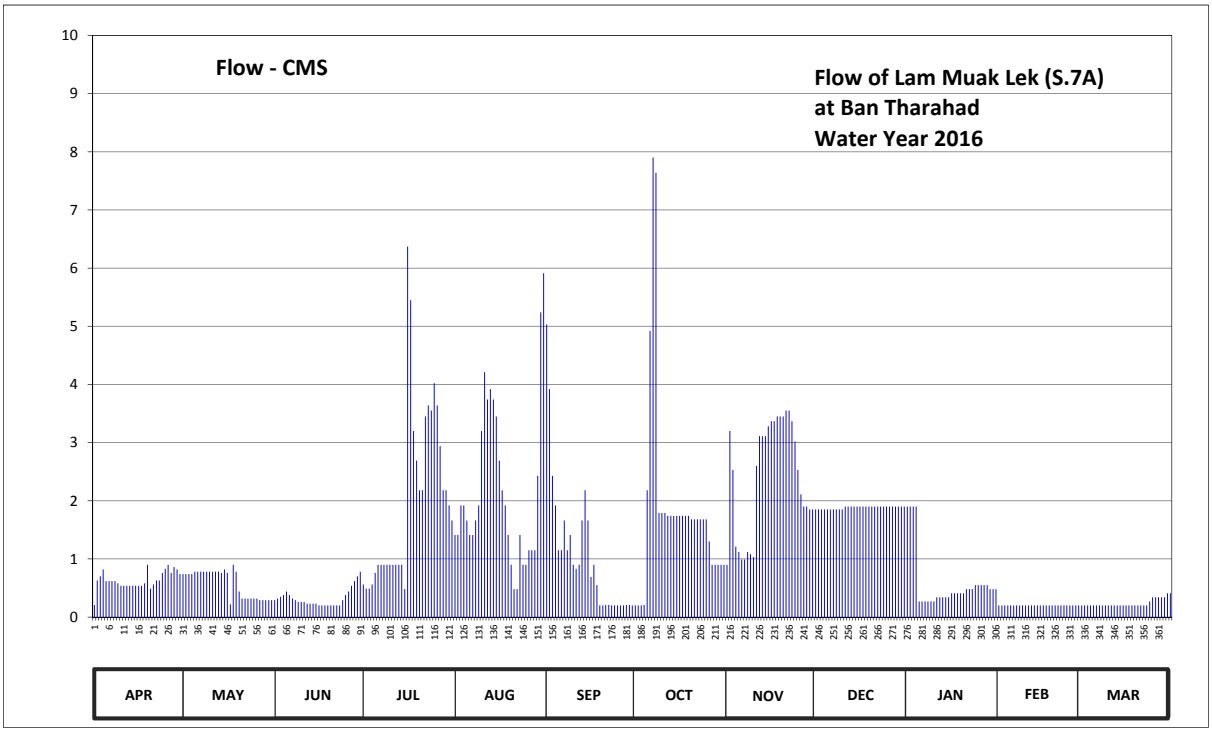
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.07	41.86	41.73	41.95	42.22	42.46	42.08	41.90	42.09	42.10	42.10	42.08	
2	41.94	41.86	41.74	41.96	42.22	42.35	42.08	42.27	42.09	42.10	42.10	42.08	
3	41.93	41.86	41.75	41.96	42.24	42.26	42.08	42.19	42.09	42.10	42.10	42.08	
4	41.88	41.86	41.76	41.95	42.24	42.24	42.07	41.97	42.09	42.10	42.10	42.08	
5	41.83	41.87	41.78	41.92	42.23	42.21	42.14	41.95	42.09	42.11	42.10	42.08	
6	41.83	41.87	41.76	41.90	42.22	42.21	42.45	41.92	42.09	42.11	42.10	42.08	
7	41.83	41.87	41.74	41.90	42.22	42.23	42.70	41.92	42.09	42.11	42.10	42.08	
8	41.83	41.87	41.73	41.90	42.23	42.21	42.68	41.95	42.09	42.11	42.10	42.09	
9	41.82	41.87	41.72	41.90	42.24	42.22	42.08	41.94	42.09	42.11	42.10	42.09	
10	41.81	41.87	41.72	41.90	42.29	42.20	42.08	41.93	42.09	42.11	42.10	42.09	
11	41.81	41.87	41.72	41.90	42.38	42.19	42.08	42.20	42.10	42.12	42.09	42.10	
12	41.81	41.87	41.71	41.90	42.33	42.20	42.07	42.26	42.10	42.12	42.09	42.10	
13	41.81	41.87	41.71	41.90	42.35	42.23	42.07	42.26	42.10	42.12	42.09	42.10	
14	41.81	41.92	41.71	41.90	42.33	42.25	42.07	42.26	42.10	42.12	42.09	42.10	
15	41.81	41.88	41.71	42.14	42.30	42.23	42.07	42.28	42.10	42.12	42.09	42.10	
16	41.81	41.92	41.70	42.58	42.27	42.17	42.07	42.29	42.10	42.13	42.09	42.10	
17	41.81	42.02	41.70	42.50	42.25	42.20	42.07	42.29	42.10	42.13	42.09	42.10	
18	41.82	41.90	41.70	42.29	42.24	42.15	42.07	42.30	42.10	42.13	42.09	42.10	
19	41.90	41.87	41.70	42.27	42.22	42.10	42.07	42.30	42.10	42.13	42.09	42.10	
20	41.96	41.78	41.70	42.25	42.20	42.08	42.06	42.30	42.10	42.13	42.09	42.10	
21	41.95	41.74	41.70	42.25	42.14	42.07	42.06	42.31	42.10	42.14	42.08	42.10	
22	41.94	41.74	41.70	42.30	42.14	42.07	42.06	42.31	42.10	42.14	42.08	42.10	
23	41.94	41.74	41.70	42.32	42.22	42.08	42.06	42.29	42.10	42.14	42.08	42.10	
24	41.92	41.74	41.73	42.31	42.20	42.08	42.06	42.25	42.10	42.15	42.08	42.11	
25	41.91	41.74	41.76	42.36	42.20	42.08	42.06	42.19	42.10	42.15	42.08	42.12	
26	41.90	41.74	41.78	42.32	42.21	42.09	41.99	42.13	42.10	42.15	42.08	42.12	
27	41.92	41.73	41.81	42.28	42.21	42.09	41.90	42.10	42.10	42.15	42.08	42.12	
28	41.89	41.73	41.83	42.25	42.21	42.06	41.90	42.10	42.10	42.15	42.08	42.12	
29	41.88	41.73	41.85	42.25	42.26	42.07	41.90	42.09	42.10	42.14		42.12	
30	41.86	41.73	41.87	42.24	42.48	42.08	41.90	42.09	42.10	42.14		42.13	
31		41.73		42.23	42.54		41.90		42.10	42.14		42.13	
Mean	41.87	41.83	41.74	42.13	42.26	42.17	42.09	42.15	42.10	42.13	42.09	42.10	
Max	42.07	42.02	41.87	42.58	42.54	42.46	42.70	42.31	42.10	42.15	42.10	42.13	42.70
Min	41.81	41.73	41.70	41.90	42.14	42.06	41.90	41.90	42.09	42.10	42.08	42.08	41.70

Annual Max Momentary Gage Height 43.06 m. (MSL.) , at 12.00 Hours , on Jul 16 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 41.22 m. (MSL.)

Left Bank Elevation 52.79 m. (MSL.) ,

Right Bank Elevation 52.94 m. (MSL.) , Drainage Are 580 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.74	0.29	0.56	1.41	5.03	0.20	0.90	1.85	1.90	0.20	0.20	
2	0.63	0.74	0.32	0.49	1.41	3.92	0.20	3.20	1.85	1.90	0.20	0.20	
3	0.70	0.74	0.35	0.49	1.92	2.43	0.20	2.53	1.85	1.90	0.20	0.20	
4	0.82	0.74	0.38	0.56	1.92	1.92	0.21	1.21	1.85	1.90	0.20	0.20	
5	0.62	0.78	0.44	0.76	1.66	1.15	2.18	1.12	1.85	0.27	0.20	0.20	
6	0.62	0.78	0.38	0.90	1.41	1.15	4.92	0.99	1.85	0.27	0.20	0.20	
7	0.62	0.78	0.32	0.90	1.41	1.66	7.90	0.99	1.85	0.27	0.20	0.20	
8	0.62	0.78	0.29	0.90	1.66	1.15	7.64	1.12	1.85	0.27	0.20	0.20	
9	0.58	0.78	0.26	0.90	1.92	1.41	1.79	1.08	1.85	0.27	0.20	0.20	
10	0.54	0.78	0.26	0.90	3.20	0.90	1.79	1.03	1.85	0.27	0.20	0.20	
11	0.54	0.78	0.26	0.90	4.21	0.83	1.79	2.60	1.90	0.34	0.20	0.20	
12	0.54	0.78	0.23	0.90	3.74	0.90	1.74	3.11	1.90	0.34	0.20	0.20	
13	0.54	0.78	0.23	0.90	3.92	1.66	1.74	3.11	1.90	0.34	0.20	0.20	
14	0.54	0.76	0.23	0.90	3.74	2.18	1.74	3.11	1.90	0.34	0.20	0.20	
15	0.54	0.82	0.23	0.48	3.45	1.66	1.74	3.28	1.90	0.34	0.20	0.20	
16	0.54	0.76	0.20	6.37	2.69	0.69	1.74	3.37	1.90	0.41	0.20	0.20	
17	0.54	0.22	0.20	5.45	2.18	0.90	1.74	3.37	1.90	0.41	0.20	0.20	
18	0.58	0.90	0.20	3.20	1.92	0.55	1.74	3.45	1.90	0.41	0.20	0.20	
19	0.90	0.78	0.20	2.69	1.41	0.20	1.74	3.45	1.90	0.41	0.20	0.20	
20	0.49	0.44	0.20	2.18	0.90	0.20	1.68	3.45	1.90	0.41	0.20	0.20	
21	0.56	0.32	0.20	2.18	0.48	0.21	1.68	3.55	1.90	0.48	0.20	0.20	
22	0.63	0.32	0.20	3.45	0.48	0.21	1.68	3.55	1.90	0.48	0.20	0.20	
23	0.63	0.32	0.20	3.64	1.41	0.20	1.68	3.37	1.90	0.48	0.20	0.20	
24	0.76	0.32	0.29	3.55	0.90	0.20	1.68	3.02	1.90	0.55	0.20	0.27	
25	0.83	0.32	0.38	4.02	0.90	0.20	1.68	2.53	1.90	0.55	0.20	0.34	
26	0.90	0.32	0.44	3.64	1.15	0.20	1.30	2.11	1.90	0.55	0.20	0.34	
27	0.76	0.29	0.54	2.94	1.15	0.20	0.90	1.90	1.90	0.55	0.20	0.34	
28	0.86	0.29	0.62	2.18	1.15	0.21	0.90	1.90	1.90	0.55	0.20	0.34	
29	0.82	0.29	0.70	2.18	2.43	0.21	0.90	1.85	1.90	0.48		0.34	
30	0.74	0.29	0.78	1.92	5.24	0.20	0.90	1.85	1.90	0.48		0.41	
31		0.29		1.66	5.91		0.90		1.90	0.48		0.41	
Total	19.20	18.03	9.82	62.69	67.28	32.53	58.62	72.10	58.40	18.60	5.60	7.39	430.26	CMSDAY
Mean	0.64	0.58	0.33	2.02	2.17	1.08	1.89	2.40	1.88	0.60	0.20	0.24	1.18	CMS
Max	0.90	0.90	0.78	6.37	5.91	5.03	7.90	3.55	1.90	1.90	0.20	0.41	7.90	CMS
Min	0.21	0.22	0.20	0.48	0.48	0.20	0.20	0.90	1.85	0.27	0.20	0.20	0.20	CMS
Runoff	1.66	1.56	0.85	5.42	5.81	2.81	5.06	6.23	5.05	1.61	0.48	0.64	37.17	MCM

Momentary Peak 12.40 CMS. at 43.06 m. (MSL.) at 12.00 Hours , on Jul 16 , 2016

Runoff Yield 2.03 Liters/Second/Square KM. Momentary Peak Yield 21.370 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

Ban Pa **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	14,233 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank under tamarind tree along the measuring line. **Elevation** +23.099 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1973 to date
Rated by Flot	-
Rated by Current Meter	1973 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

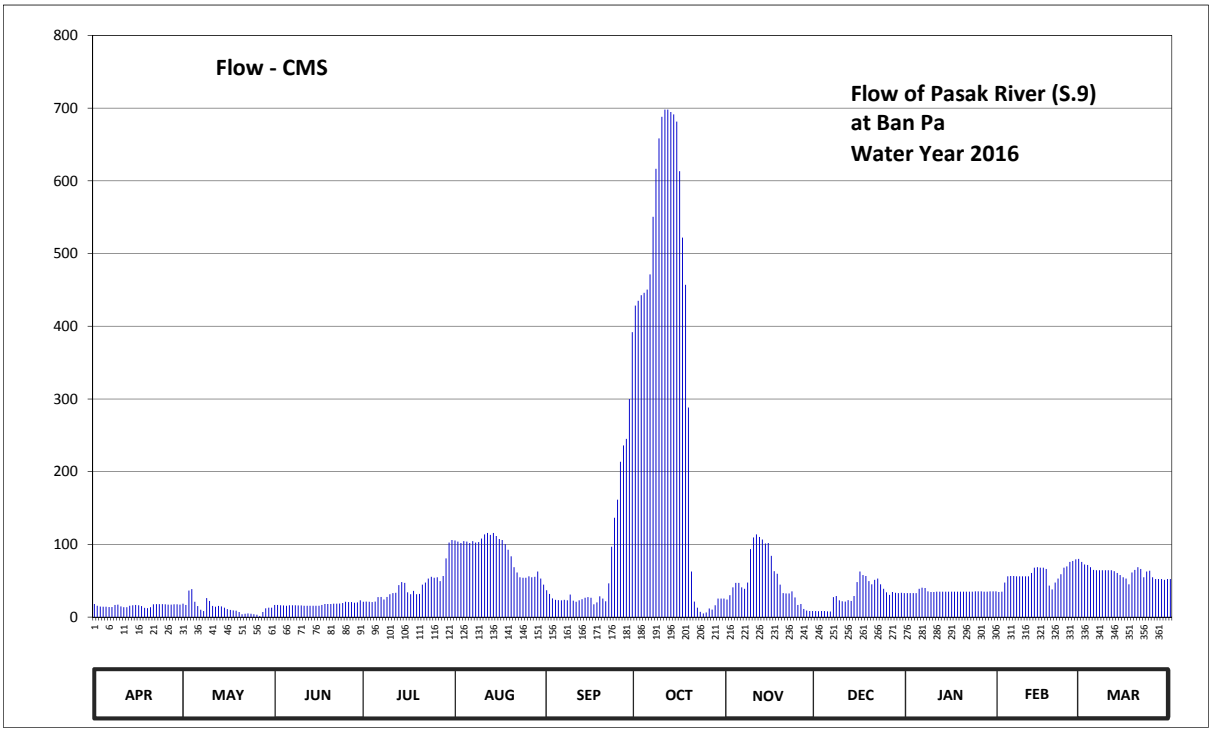
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.77	8.78	8.72	8.85	10.29	9.22	13.85	8.93	8.42	9.14	9.17	9.87	
2	8.69	8.72	8.72	8.86	10.27	9.12	13.91	9.08	8.41	9.14	9.18	9.82	
3	8.65	9.21	8.71	8.85	10.24	8.97	13.98	9.30	8.42	9.14	9.41	9.81	
4	8.64	9.25	8.70	8.84	10.28	8.92	14.01	9.40	8.42	9.14	9.55	9.76	
5	8.64	8.85	8.69	8.86	10.27	8.91	14.05	9.40	8.40	9.26	9.56	9.70	
6	8.63	8.67	8.71	9.01	10.24	8.90	14.24	9.30	8.38	9.29	9.56	9.69	
7	8.63	8.50	8.71	9.02	10.28	8.92	14.96	9.26	9.01	9.28	9.55	9.69	
8	8.72	8.42	8.71	8.93	10.25	8.90	15.56	9.41	9.05	9.19	9.55	9.69	
9	8.74	8.98	8.70	9.02	10.26	9.10	15.94	10.12	8.90	9.17	9.55	9.69	
10	8.66	8.88	8.70	9.11	10.33	8.89	16.21	10.35	8.87	9.17	9.55	9.69	
11	8.62	8.68	8.69	9.14	10.41	8.85	16.30	10.41	8.86	9.18	9.55	9.69	
12	8.62	8.64	8.69	9.15	10.44	8.90	16.30	10.36	8.91	9.18	9.63	9.67	
13	8.69	8.68	8.69	9.35	10.40	8.94	16.27	10.31	8.88	9.18	9.75	9.63	
14	8.71	8.66	8.69	9.42	10.44	8.99	16.24	10.23	9.05	9.18	9.76	9.58	
15	8.72	8.60	8.69	9.40	10.38	9.01	16.15	10.24	9.42	9.18	9.75	9.53	
16	8.71	8.53	8.69	9.16	10.32	8.99	15.53	9.99	9.66	9.18	9.75	9.50	
17	8.67	8.49	8.72	9.11	10.30	8.75	14.70	9.67	9.58	9.18	9.72	9.37	
18	8.59	8.46	8.77	9.20	10.22	8.83	14.11	9.61	9.56	9.18	9.34	9.64	
19	8.58	8.44	8.77	9.11	10.11	9.04	12.47	9.36	9.44	9.18	9.24	9.70	
20	8.62	8.35	8.77	9.12	9.98	8.96	9.66	9.14	9.37	9.18	9.41	9.76	
21	8.75	8.20	8.78	9.36	9.76	8.87	8.86	9.13	9.47	9.18	9.50	9.72	
22	8.76	8.23	8.78	9.41	9.64	9.39	8.60	9.13	9.50	9.18	9.60	9.53	
23	8.76	8.25	8.79	9.50	9.53	10.17	8.36	9.19	9.37	9.18	9.75	9.66	
24	8.76	8.23	8.81	9.54	9.52	10.72	8.25	9.00	9.26	9.19	9.78	9.68	
25	8.75	8.20	8.85	9.52	9.52	11.03	8.32	8.72	9.16	9.19	9.87	9.53	
26	8.74	8.16	8.84	9.53	9.55	11.64	8.56	8.77	9.09	9.19	9.89	9.49	
27	8.74	8.08	8.84	9.44	9.53	11.89	8.51	8.54	9.17	9.18	9.92	9.49	
28	8.75	8.35	8.82	9.56	9.54	11.99	8.71	8.45	9.15	9.18	9.93	9.49	
29	8.75	8.57	8.83	9.94	9.66	12.59	8.96	8.42	9.14	9.19		9.47	
30	8.74	8.60	8.90	10.25	9.50	13.51	8.96	8.42	9.15	9.19		9.49	
31		8.60		10.30	9.36		8.96		9.14	9.19		9.49	
Mean	8.69	8.56	8.75	9.29	10.03	9.70	12.56	9.39	9.05	9.19	9.60	9.63	
Max	8.77	9.25	8.90	10.30	10.44	13.51	16.30	10.41	9.66	9.29	9.93	9.87	16.30
Min	8.58	8.08	8.69	8.84	9.36	8.75	8.25	8.42	8.38	9.14	9.17	9.37	8.08

Annual Max Momentary Gage Height 16.32 m. (MSL.) , at 18.00 Hours , on Oct 11 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 5.53 m. (MSL.)

Left Bank Elevation 23.10 m. (MSL.) ,

Right Bank Elevation 22.57 m. (MSL.) , Drainage Are 14,233 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.10	18.40	16.60	21.00	105.30	37.00	428.50	24.20	8.40	33.00	34.50	75.90	
2	15.70	16.60	16.60	21.40	103.90	32.00	435.10	30.20	8.20	33.00	35.00	72.40	
3	14.50	36.50	16.30	21.00	101.80	25.80	442.80	41.00	8.40	33.00	47.60	71.70	
4	14.20	38.50	16.00	20.60	104.60	23.80	446.10	47.00	8.40	33.00	56.00	68.60	
5	14.20	21.00	15.70	21.40	103.90	23.40	450.50	47.00	8.00	39.00	56.60	65.00	
6	13.90	15.10	16.30	27.40	101.80	23.00	471.40	41.00	7.60	40.50	56.60	64.40	
7	13.90	10.00	16.30	27.80	104.60	23.80	550.60	39.00	27.40	40.00	56.00	64.40	
8	16.60	8.40	16.30	24.20	102.50	23.00	616.60	47.60	29.00	35.50	56.00	64.40	
9	17.20	26.20	16.00	27.80	103.20	31.00	658.40	93.40	23.00	34.50	56.00	64.40	
10	14.80	22.20	16.00	31.50	108.10	22.60	688.10	109.50	21.80	34.50	56.00	64.40	
11	13.60	15.40	15.70	33.00	113.70	21.00	698.00	113.70	21.40	35.00	56.00	64.40	
12	13.60	14.20	15.70	33.50	115.80	23.00	698.00	110.20	23.40	35.00	60.80	63.20	
13	15.70	15.40	15.70	44.00	113.00	24.60	694.70	106.70	22.20	35.00	68.00	60.80	
14	16.30	14.80	15.70	48.20	115.80	26.60	691.40	101.10	29.00	35.00	68.60	57.80	
15	16.60	13.00	15.70	47.00	111.60	27.40	681.50	101.80	48.20	35.00	68.00	54.80	
16	16.30	10.90	15.70	34.00	107.40	26.60	613.30	84.30	62.60	35.00	68.00	53.00	
17	15.10	9.80	16.60	31.50	106.00	17.50	522.00	63.20	57.80	35.00	66.20	45.20	
18	12.70	9.20	18.10	36.00	100.40	20.20	457.10	59.60	56.60	35.00	43.40	61.40	
19	12.40	8.80	18.10	31.50	92.70	28.60	288.30	44.60	49.40	35.00	38.00	65.00	
20	13.60	7.00	18.10	32.00	83.60	25.40	62.60	33.00	45.20	35.00	47.60	68.60	
21	17.50	4.00	18.40	44.60	68.60	21.80	21.40	32.50	51.20	35.00	53.00	66.20	
22	17.80	4.60	18.40	47.60	61.40	46.40	13.00	32.50	53.00	35.00	59.00	54.80	
23	17.80	5.00	18.70	53.00	54.80	96.90	7.20	35.50	45.20	35.00	68.00	62.60	
24	17.80	4.60	19.40	55.40	54.20	136.60	5.00	27.00	39.00	35.50	69.80	63.80	
25	17.50	4.00	21.00	54.20	54.20	161.40	6.40	16.60	34.00	35.50	75.90	54.80	
26	17.20	3.20	20.60	54.80	56.00	213.60	11.80	18.10	30.60	35.50	77.30	52.40	
27	17.20	1.60	20.60	49.40	54.80	236.10	10.30	11.20	34.50	35.00	79.40	52.40	
28	17.50	7.00	19.80	56.60	55.40	245.10	16.30	9.00	33.50	35.00	80.10	52.40	
29	17.50	12.10	20.20	80.80	62.60	300.00	25.40	8.40	33.00	35.50		51.20	
30	17.20	13.00	23.00	102.50	53.00	392.00	25.40	8.40	33.50	35.50		52.40	
31		13.00		106.00	44.60		25.40		33.00	35.50		52.40	
Total	474.00	403.50	527.30	1319.70	2719.30	2356.20	10762.60	1537.30	986.50	1094.00	1657.40	1885.20	25723.00 CMSDAY
Mean	15.80	13.02	17.58	42.57	87.72	78.54	347.18	51.24	31.82	35.29	59.19	60.81	70.47 CMS
Max	18.10	38.50	23.00	106.00	115.80	392.00	698.00	113.70	62.60	40.50	80.10	75.90	698.00 CMS
Min	12.40	1.60	15.70	20.60	44.60	17.50	5.00	8.40	7.60	33.00	34.50	45.20	1.60 CMS
Runoff	40.95	34.86	45.56	114.02	234.95	203.58	929.89	132.82	85.23	94.52	143.20	162.88	2222.47 MCM

Momentary Peak 700.20 CMS. at 16.32 m. (MSL.) at 18.00 Hours , on Oct 11 , 2016

Runoff Yield 4.92 Liters/Second/Square KM. Momentary Peak Yield 48.880 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

Location : on right bank at the bridge.

Ban Tha Ruak **Amphoe** Chai Badan **Changwat** Lop Buri

Drainge Area	1,263 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +63.824 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

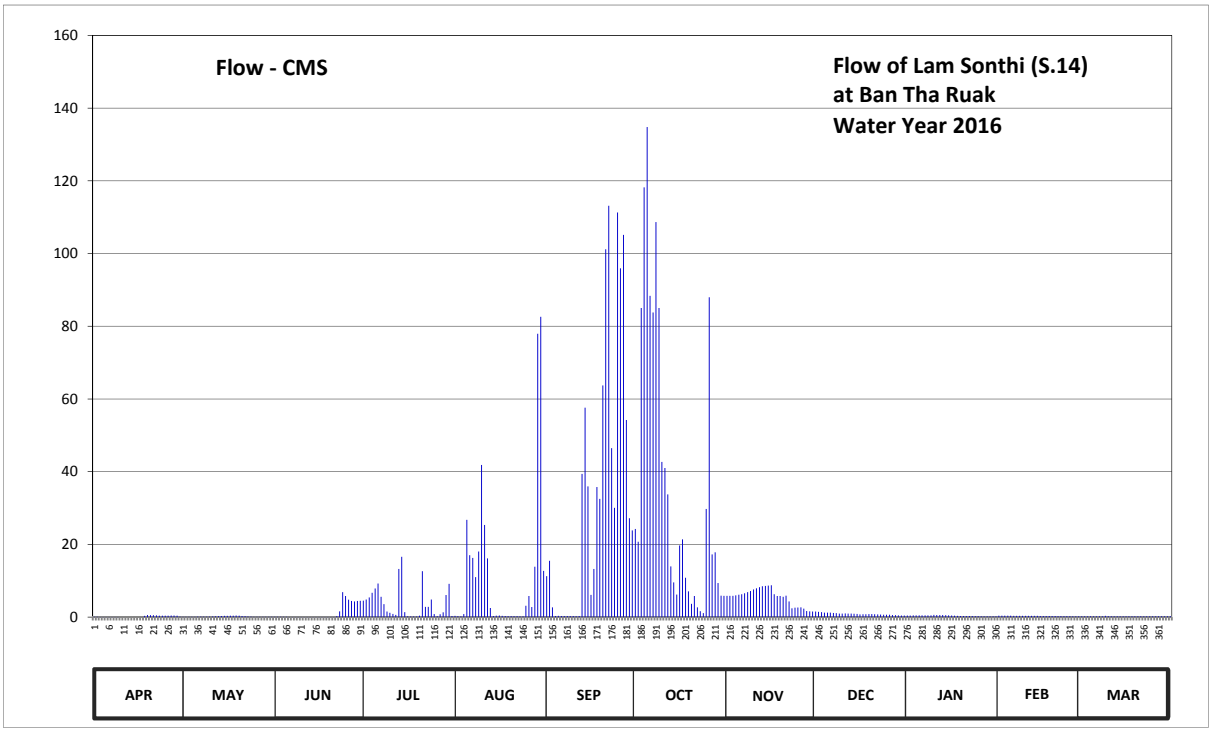
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.89	53.87	53.87	55.76	54.14	56.83	58.01	56.07	54.81	54.23	54.20	54.01	
2	53.87	53.87	53.87	55.83	54.04	57.29	57.74	56.07	54.78	54.25	54.19	54.01	
3	53.85	53.88	53.87	55.98	54.02	55.23	60.51	56.07	54.72	54.27	54.19	54.01	
4	53.84	53.89	53.87	56.23	54.46	54.11	61.27	56.10	54.67	54.29	54.18	54.01	
5	53.84	53.90	53.87	56.41	58.19	54.13	61.62	56.13	54.66	54.27	54.18	54.01	
6	53.84	53.91	53.86	56.59	57.43	54.12	60.59	56.16	54.66	54.30	54.17	54.01	
7	53.84	53.92	53.86	56.02	57.36	54.12	60.48	56.21	54.63	54.29	54.17	54.02	
8	53.84	53.93	53.86	55.52	56.80	54.11	61.06	56.26	54.59	54.28	54.16	54.02	
9	53.85	53.94	53.85	54.81	57.52	54.11	60.51	56.31	54.54	54.29	54.16	54.15	
10	53.81	53.95	53.85	54.64	59.05	54.09	59.09	56.37	54.54	54.36	54.15	54.07	
11	53.81	53.98	53.85	54.49	58.09	54.06	59.01	56.42	54.56	54.34	54.14	54.02	
12	53.80	54.01	53.85	54.35	57.35	54.11	58.63	56.46	54.53	54.34	54.14	54.02	
13	53.78	54.05	53.85	57.05	55.17	58.93	57.13	56.50	54.53	54.34	54.13	54.02	
14	53.75	54.09	53.85	57.39	54.10	59.70	56.63	56.51	54.52	54.32	54.13	54.02	
15	53.74	54.13	53.84	54.73	54.20	58.75	56.14	56.52	54.48	54.30	54.12	54.02	
16	53.74	54.16	53.84	54.00	54.24	56.12	57.66	56.53	54.42	54.25	54.11	54.02	
17	53.76	54.18	53.84	53.99	54.15	57.05	57.79	56.16	54.44	54.19	54.12	54.02	
18	54.16	54.21	53.84	53.99	54.11	58.74	56.78	56.06	54.45	54.13	54.11	54.02	
19	54.33	54.24	53.84	53.98	54.08	58.56	56.30	56.06	54.47	54.11	54.10	54.02	
20	54.32	54.20	53.84	54.19	54.05	59.91	55.54	56.02	54.47	54.11	54.09	54.02	
21	54.31	54.12	53.84	56.98	54.05	60.89	56.06	56.08	54.44	54.10	54.08	54.02	
22	54.26	54.05	54.04	55.27	54.05	61.16	55.22	55.70	54.43	54.09	54.07	54.02	
23	54.21	53.99	54.84	55.27	54.01	59.26	54.87	55.14	54.40	54.09	54.06	54.02	
24	54.21	53.92	56.26	55.83	54.00	58.41	54.60	55.20	54.38	54.07	54.05	54.02	
25	54.21	53.87	56.06	54.46	55.38	61.12	58.39	55.21	54.37	54.04	54.04	54.02	
26	54.21	53.87	55.82	54.07	56.06	60.77	60.58	55.23	54.37	54.03	54.03	54.02	
27	54.24	53.87	55.73	54.45	55.26	60.98	57.45	55.11	54.34	54.03	54.02	54.01	
28	54.22	53.87	55.70	54.70	57.12	59.57	57.50	54.88	54.32	54.03	54.01	54.01	
29	54.21	53.87	55.74	56.11	60.33	58.22	56.61	54.84	54.27	54.03		54.01	
30	53.94	53.87	55.75	56.58	60.45	57.98	56.08	54.82	54.23	54.03		54.01	
31		53.87		54.10	56.99		56.07		54.24	54.03		54.01	
Mean	53.99	53.98	54.36	55.28	55.81	57.41	57.93	55.91	54.49	54.19	54.12	54.02	
Max	54.33	54.24	56.26	57.39	60.45	61.16	61.62	56.53	54.81	54.36	54.20	54.15	61.62
Min	53.74	53.87	53.84	53.98	54.00	54.06	54.60	54.82	54.23	54.03	54.01	54.01	53.74

Annual Max Momentary Gage Height 61.71 m. (MSL.) , at 14.00 Hours , on Oct 5 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 53.24 m. (MSL.)

Left Bank Elevation 63.82 m. (MSL.) ,

Right Bank Elevation 63.84 m. (MSL.) , Drainage Are 1,263 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	0.07	0.07	4.54	0.34	11.27	24.24	5.85	1.52	0.43	0.40	0.21		
2	0.07	0.07	0.07	4.82	0.24	15.50	20.72	5.85	1.46	0.45	0.39	0.21		
3	0.05	0.08	0.07	5.42	0.22	2.69	85.02	5.85	1.34	0.47	0.39	0.21		
4	0.04	0.09	0.07	6.68	0.82	0.31	118.22	6.00	1.24	0.49	0.38	0.21		
5	0.04	0.10	0.07	7.87	26.76	0.33	134.80	6.15	1.22	0.47	0.38	0.21		
6	0.04	0.11	0.06	9.22	17.03	0.32	88.38	6.30	1.22	0.50	0.37	0.21		
7	0.04	0.12	0.06	5.60	16.26	0.32	83.80	6.56	1.16	0.49	0.37	0.22		
8	0.04	0.13	0.06	3.58	11.00	0.31	108.64	6.86	1.08	0.48	0.36	0.22		
9	0.05	0.14	0.05	1.52	18.04	0.31	85.02	7.17	0.98	0.49	0.36	0.35		
10	0.01	0.15	0.05	1.18	41.85	0.29	42.69	7.59	0.98	0.62	0.35	0.27		
11	0.01	0.18	0.05	0.88	25.36	0.26	41.01	7.94	1.02	0.58	0.34	0.22		
12	0.00	0.21	0.05	0.60	16.15	0.31	33.74	8.22	0.96	0.58	0.34	0.22		
13	0.00	0.25	0.05	13.25	2.51	39.40	13.97	8.50	0.96	0.58	0.33	0.22		
14	0.00	0.29	0.05	16.59	0.30	57.60	9.54	8.58	0.94	0.54	0.33	0.22		
15	0.00	0.33	0.04	1.36	0.40	35.95	6.20	8.66	0.86	0.50	0.32	0.22		
16	0.00	0.36	0.04	0.20	0.44	6.10	19.72	8.74	0.74	0.45	0.31	0.22		
17	0.00	0.38	0.04	0.19	0.35	13.25	21.37	6.30	0.78	0.39	0.32	0.22		
18	0.36	0.41	0.04	0.19	0.31	35.76	10.82	5.80	0.80	0.33	0.31	0.22		
19	0.56	0.44	0.04	0.18	0.28	32.52	7.10	5.80	0.84	0.31	0.30	0.22		
20	0.54	0.40	0.04	0.39	0.25	63.72	3.66	5.60	0.84	0.31	0.29	0.22		
21	0.52	0.32	0.04	12.62	0.25	101.16	5.80	5.90	0.78	0.30	0.28	0.22		
22	0.46	0.25	0.24	2.81	0.25	113.16	2.66	4.30	0.76	0.29	0.27	0.22		
23	0.41	0.19	1.58	2.81	0.21	46.48	1.64	2.42	0.70	0.29	0.26	0.22		
24	0.41	0.12	6.86	4.82	0.20	30.06	1.10	2.60	0.66	0.27	0.25	0.22		
25	0.41	0.07	5.80	0.82	3.14	111.32	29.75	2.63	0.64	0.24	0.24	0.22		
26	0.41	0.07	4.78	0.27	5.80	95.94	87.96	2.69	0.64	0.23	0.23	0.22		
27	0.44	0.07	4.42	0.80	2.78	105.12	17.25	2.33	0.58	0.23	0.22	0.21		
28	0.42	0.07	4.30	1.30	13.88	54.22	17.80	1.66	0.54	0.23	0.21	0.21		
29	0.41	0.07	4.46	6.05	77.94	27.20	9.38	1.58	0.47	0.23		0.21		
30	0.14	0.07	4.50	9.14	82.60	23.84	5.90	1.54	0.43	0.23		0.21		
31		0.07		0.30	12.71		5.85		0.44	0.23		0.21		
Total	5.97	5.68	38.05	126.00	378.67	1025.02	1143.75	165.97	27.58	12.23	8.90	6.89	2944.71	CMSDAY
Mean	0.20	0.18	1.27	4.06	12.22	34.17	36.90	5.53	0.89	0.39	0.32	0.22	8.07	CMS
Max	0.56	0.44	6.86	16.59	82.60	113.16	134.80	8.74	1.52	0.62	0.40	0.35	134.80	CMS
Min	0.00	0.07	0.04	0.18	0.20	0.26	1.10	1.54	0.43	0.23	0.21	0.21	0.00	CMS
Runoff	0.52	0.49	3.29	10.89	32.72	88.56	98.82	14.34	2.38	1.06	0.77	0.60	254.42	MCM

Momentary Peak 139.30 CMS. at 61.71 m. (MSL.) at 14.00 Hours , on Oct 5 , 2016

Runoff Yield 6.39 Liters/Second/Square KM. Momentary Peak Yield 110.280 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

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

Lat 14 - 33 - 22 N Long 100 - 43 - 38 E

Location : on right bank at Ban Tha Rua

	Ban Tha Rua	**Amphoe** Tha Rua	**Changwat** Phra Nakhon Si Ayutthaya
Drainge Area	15,425 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage buiding	**Elevation**	+7.860 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1998 , 2009 to date		
Rated by Flot	-		
Rated by Current Meter	1998, 2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Pasak Cholasit Dam.		
	Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

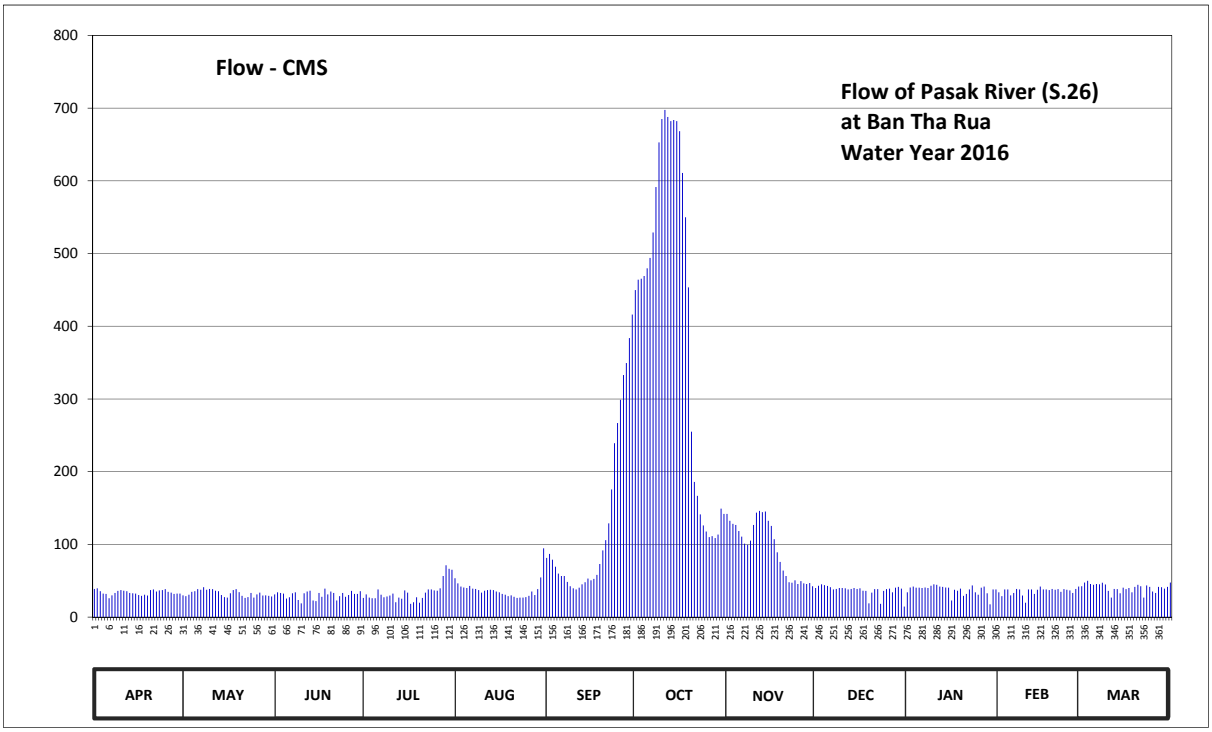
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	0.45	0.48	0.36	1.01	1.49	5.39	2.35	0.70	0.55	0.55	0.76	
2	0.69	0.42	0.55	0.48	0.86	1.57	5.50	2.22	0.78	0.72	0.42	0.89	
3	0.59	0.47	0.53	0.37	0.75	1.45	5.51	2.16	0.83	0.75	0.65	0.94	
4	0.51	0.57	0.51	0.35	0.72	1.29	5.54	2.14	0.80	0.71	0.65	0.84	
5	0.50	0.59	0.34	0.35	0.70	1.13	5.62	2.02	0.77	0.71	0.45	0.81	
6	0.35	0.66	0.38	0.65	0.77	1.07	5.73	1.91	0.73	0.70	0.53	0.84	
7	0.45	0.64	0.52	0.47	0.68	1.07	6.00	1.77	0.65	0.72	0.67	0.83	
8	0.53	0.73	0.55	0.38	0.67	0.91	6.48	1.75	0.67	0.70	0.65	0.88	
9	0.60	0.64	0.29	0.41	0.63	0.76	6.92	1.83	0.70	0.78	0.44	0.82	
10	0.63	0.67	0.16	0.44	0.54	0.69	7.15	2.14	0.70	0.83	0.19	0.60	
11	0.61	0.66	0.52	0.51	0.61	0.65	7.24	2.37	0.69	0.81	0.65	0.37	
12	0.59	0.61	0.58	0.21	0.63	0.71	7.17	2.40	0.65	0.75	0.65	0.67	
13	0.53	0.59	0.61	0.37	0.64	0.83	7.13	2.38	0.67	0.74	0.50	0.66	
14	0.52	0.46	0.27	0.33	0.63	0.90	7.14	2.39	0.70	0.72	0.64	0.52	
15	0.51	0.39	0.25	0.62	0.58	1.00	7.13	2.22	0.67	0.71	0.75	0.71	
16	0.46	0.37	0.53	0.54	0.55	0.95	7.03	2.12	0.69	0.27	0.65	0.66	
17	0.43	0.52	0.40	0.14	0.50	0.99	6.62	1.86	0.61	0.64	0.65	0.70	
18	0.47	0.63	0.68	0.21	0.47	1.10	6.16	1.60	0.60	0.61	0.63	0.55	
19	0.44	0.66	0.48	0.38	0.42	1.35	5.42	1.40	0.16	0.68	0.67	0.74	
20	0.63	0.56	0.58	0.19	0.45	1.64	3.65	1.20	0.54	0.43	0.64	0.81	
21	0.65	0.43	0.53	0.36	0.40	1.84	2.90	1.07	0.66	0.50	0.66	0.76	
22	0.58	0.36	0.27	0.54	0.36	2.17	2.66	0.90	0.66	0.65	0.57	0.37	
23	0.62	0.39	0.42	0.65	0.37	2.77	2.34	0.88	0.14	0.79	0.66	0.79	
24	0.63	0.53	0.53	0.65	0.37	3.49	2.13	0.95	0.60	0.55	0.64	0.74	
25	0.66	0.37	0.40	0.62	0.39	3.77	2.01	0.84	0.66	0.47	0.62	0.58	
26	0.57	0.48	0.46	0.61	0.43	4.08	1.90	0.93	0.68	0.71	0.53	0.53	
27	0.54	0.54	0.60	0.69	0.58	4.39	1.92	0.86	0.55	0.75	0.67	0.74	
28	0.50	0.44	0.50	1.07	0.46	4.54	1.88	0.84	0.71	0.52	0.75	0.73	
29	0.51	0.45	0.50	1.32	0.66	4.84	1.95	0.87	0.74	0.12		0.68	
30	0.51	0.43	0.59	1.24	1.03	5.11	2.44	0.76	0.68	0.65		0.74	
31		0.41		1.22	1.68		2.35		0.02	0.65		0.89	
Mean	0.55	0.52	0.47	0.54	0.63	1.95	4.81	1.64	0.63	0.64	0.60	0.71	
Max	0.69	0.73	0.68	1.32	1.68	5.11	7.24	2.40	0.83	0.83	0.75	0.94	7.24
Min	0.35	0.36	0.16	0.14	0.36	0.65	1.88	0.76	0.02	0.12	0.19	0.37	0.02

Annual Max Momentary Gage Height 7.33 m. (MSL.) , at 14.00 Hours , on Oct 11 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -4.71 m. (MSL.)

Left Bank Elevation 10.13 m. (MSL.) ,

Right Bank Elevation 9.64 m. (MSL.) , Drainage Are 15,425 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.80	30.00	31.20	26.40	53.50	81.40	449.80	142.00	40.00	34.00	34.00	42.40	
2	39.60	28.80	34.00	31.20	46.40	86.90	464.00	132.40	43.20	40.80	28.80	47.60	
3	35.60	30.80	33.20	26.80	42.00	79.00	465.30	128.20	45.20	42.00	38.00	50.00	
4	32.40	34.80	32.40	26.00	40.80	69.40	469.20	126.80	44.00	40.40	38.00	45.60	
5	32.00	35.60	25.60	26.00	40.00	59.80	479.60	118.40	42.80	40.40	30.00	44.40	
6	26.00	38.40	27.20	38.00	42.80	56.50	493.90	110.70	41.20	40.00	33.20	45.60	
7	30.00	37.60	32.80	30.80	39.20	56.50	529.00	100.90	38.00	40.80	38.80	45.20	
8	33.20	41.20	34.00	27.20	38.80	48.50	591.40	99.50	38.80	40.00	38.00	47.20	
9	36.00	37.60	23.60	28.40	37.20	42.40	652.80	105.10	40.00	43.20	29.60	44.80	
10	37.20	38.80	18.80	29.60	33.60	39.60	685.00	126.80	40.00	45.20	19.70	36.00	
11	36.40	38.40	32.80	32.40	36.40	38.00	697.60	143.60	39.60	44.40	38.00	26.80	
12	35.60	36.40	35.20	20.40	37.20	40.40	687.80	146.00	38.00	42.00	38.00	38.80	
13	33.20	35.60	36.40	26.80	37.60	45.20	682.20	144.40	38.80	41.60	32.00	38.40	
14	32.80	30.40	22.80	25.20	37.20	48.00	683.60	145.20	40.00	40.80	37.60	32.80	
15	32.40	27.60	22.00	36.80	35.20	53.00	682.20	132.40	38.80	40.40	42.00	40.40	
16	30.40	26.80	33.20	33.60	34.00	50.50	668.20	125.40	39.60	22.80	38.00	38.40	
17	29.20	32.80	28.00	18.20	32.00	52.50	610.80	107.20	36.40	37.60	38.00	40.00	
18	30.80	37.20	39.20	20.40	30.80	58.00	549.80	89.00	36.00	36.40	37.20	34.00	
19	29.60	38.40	31.20	27.20	28.80	73.00	453.60	76.00	18.80	39.20	38.80	41.60	
20	37.20	34.40	35.20	19.70	30.00	91.80	255.00	64.00	33.60	29.20	37.60	44.40	
21	38.00	29.20	33.20	26.40	28.00	105.80	186.00	56.50	38.40	32.00	38.40	42.40	
22	35.20	26.40	22.80	33.60	26.40	128.90	166.80	48.00	38.40	38.00	34.80	26.80	
23	36.80	27.60	28.80	38.00	26.80	175.60	141.20	47.20	18.20	43.60	38.40	43.60	
24	37.20	33.20	33.20	38.00	26.80	239.10	126.10	50.50	36.00	34.00	37.60	41.60	
25	38.40	26.80	28.00	36.80	27.60	267.00	117.70	45.60	38.40	30.80	36.80	35.20	
26	34.80	31.20	30.40	36.40	29.20	298.80	110.00	49.50	39.20	40.40	33.20	33.20	
27	33.60	33.60	36.00	39.60	35.20	332.90	111.40	46.40	34.00	42.00	38.80	41.60	
28	32.00	29.60	32.00	56.50	30.40	349.40	108.60	45.60	40.40	32.80	42.00	41.20	
29	32.40	30.00	32.00	71.20	38.40	383.80	113.50	46.80	41.60	17.60		39.20	
30	32.40	29.20	35.60	66.40	54.50	416.20	149.20	42.40	39.20	38.00		41.60	
31		28.40		65.20	94.60		142.00		14.60	38.00		47.60	
Total	1019.20	1016.80	920.80	1059.20	1171.40	3867.90	12723.30	2842.50	1151.20	1168.40	1005.30	1258.40	29204.40	CMSDAY
Mean	33.97	32.80	30.69	34.17	37.79	128.93	410.43	94.75	37.14	37.69	35.90	40.59	80.01	CMS
Max	39.60	41.20	39.20	71.20	94.60	416.20	697.60	146.00	45.20	45.20	42.00	50.00	697.60	CMS
Min	26.00	26.40	18.80	18.20	26.40	38.00	108.60	42.40	14.60	17.60	19.70	26.80	14.60	CMS
Runoff	88.06	87.85	79.56	91.51	101.21	334.19	1099.29	245.59	99.46	100.95	86.86	108.73	2523.26	MCM

Momentary Peak 710.20 CMS. at 7.33 m. (MSL.) at 14.00 Hours , on Oct 11 , 2016

Runoff Yield 5.19 Liters/Second/Square KM. Momentary Peak Yield 46.040 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Nong Bua , Lop Buri (S.28)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Phatthana Nikhom **Changwat** Lop Buri

Drainge Area	8,778 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the automatic gage buiding **Elevation** +32.571 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Flot	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 27.060 m.(MSL.), records are channel flow only.
General Description	Records good. Flow effected by Pasak Cholasit Dam.
	Stage-discharge relation defined by 41 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

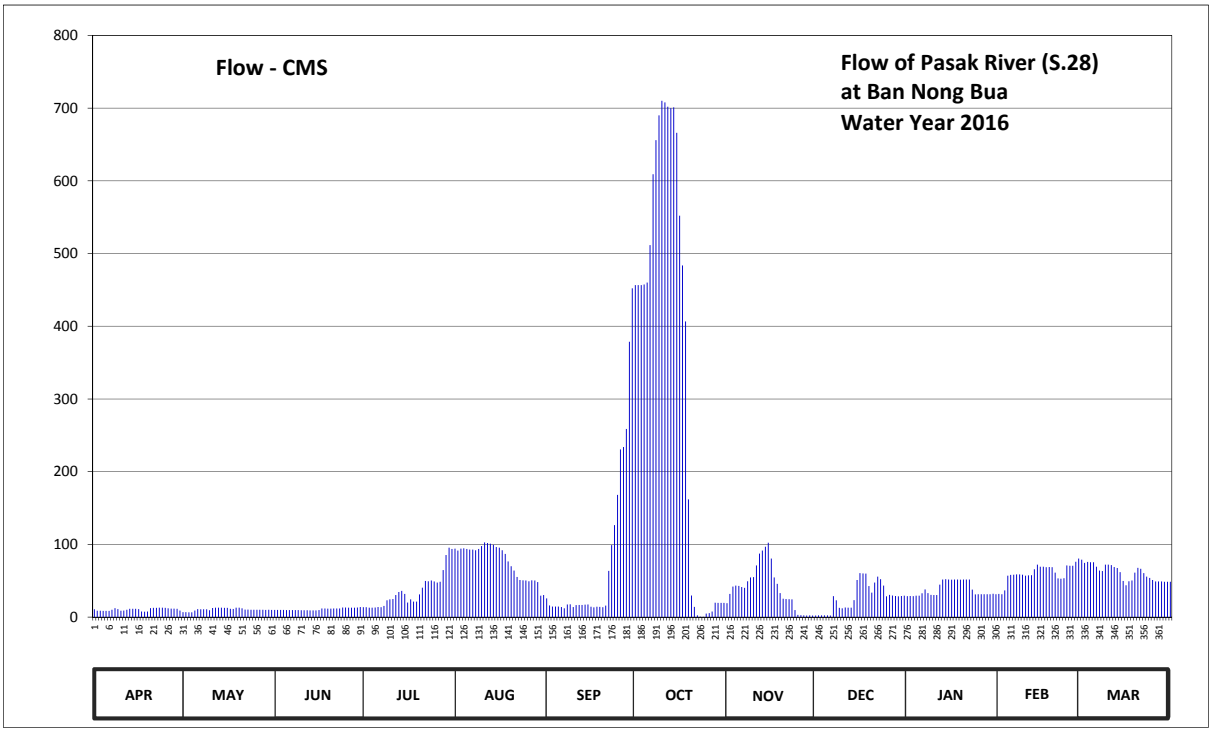
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.14	16.94	17.09	17.28	19.67	17.76	25.24	17.54	16.62	17.86	17.96	19.30	
2	17.04	16.94	17.09	17.28	19.61	17.40	25.24	17.96	16.64	17.87	17.95	19.19	
3	17.04	16.93	17.09	17.25	19.67	17.32	25.24	18.27	16.65	17.86	18.12	19.22	
4	17.03	16.93	17.09	17.25	19.68	17.32	25.25	18.31	16.65	17.88	18.70	19.21	
5	17.03	17.05	17.08	17.26	19.66	17.33	25.28	18.30	16.63	17.88	18.73	19.21	
6	17.03	17.15	17.08	17.29	19.64	17.29	25.85	18.25	16.61	17.99	18.74	19.05	
7	17.11	17.14	17.08	17.28	19.64	17.20	26.87	18.22	17.86	18.16	18.75	18.90	
8	17.22	17.14	17.08	17.37	19.62	17.47	27.34	18.48	17.67	18.00	18.75	18.88	
9	17.15	17.14	17.08	17.67	19.66	17.48	27.68	18.63	17.24	17.92	18.74	19.13	
10	17.04	17.07	17.07	17.71	19.75	17.29	27.88	18.64	17.20	17.91	18.70	19.13	
11	17.05	17.23	17.07	17.73	19.86	17.42	27.86	19.10	17.26	17.91	18.71	19.11	
12	17.10	17.25	17.07	17.91	19.84	17.43	27.80	19.51	17.25	18.35	18.72	19.04	
13	17.17	17.25	17.06	18.05	19.82	17.44	27.78	19.61	17.25	18.55	18.95	19.00	
14	17.17	17.25	17.06	18.10	19.79	17.46	27.79	19.73	17.68	18.56	19.13	18.84	
15	17.17	17.24	17.06	17.96	19.72	17.47	27.44	19.85	18.53	18.55	19.05	18.49	
16	17.15	17.24	17.08	17.57	19.70	17.31	26.30	19.34	18.80	18.54	19.05	18.32	
17	16.98	17.17	17.19	17.71	19.62	17.27	25.54	18.63	18.79	18.55	19.03	18.48	
18	16.97	17.16	17.19	17.61	19.50	17.31	24.67	18.38	18.78	18.55	19.04	18.51	
19	16.98	17.25	17.18	17.61	19.24	17.30	21.09	18.00	18.29	18.54	19.03	18.82	
20	17.21	17.25	17.18	17.94	19.07	17.28	17.89	17.74	18.02	18.55	18.82	19.01	
21	17.24	17.20	17.19	18.23	18.90	17.39	17.30	17.73	18.43	18.55	18.59	18.97	
22	17.24	17.12	17.19	18.49	18.65	18.89	16.64	17.72	18.66	18.55	18.58	18.80	
23	17.25	17.12	17.19	18.48	18.53	19.78	16.46	17.71	18.56	18.15	18.60	18.66	
24	17.25	17.11	17.26	18.51	18.52	20.39	16.45	17.08	18.31	17.94	19.10	18.61	
25	17.24	17.11	17.26	18.47	18.51	21.20	16.84	16.71	17.85	17.95	19.09	18.53	
26	17.20	17.11	17.25	18.43	18.48	22.28	16.87	16.67	17.92	17.95	19.09	18.47	
27	17.18	17.10	17.25	18.46	18.52	22.33	16.98	16.64	17.89	17.95	19.23	18.47	
28	17.18	17.10	17.25	18.92	18.51	22.71	17.56	16.62	17.87	17.95	19.34	18.47	
29	17.17	17.09	17.26	19.46	18.45	24.32	17.55	16.63	17.85	17.95		18.46	
30	17.05	17.10	17.29	19.70	17.88	25.19	17.55	16.62	17.87	17.97		18.46	
31		17.09		19.66	17.91		17.55		17.88	17.95		18.46	
Mean	17.13	17.13	17.15	18.02	19.21	18.73	22.70	18.09	17.73	18.16	18.80	18.81	
Max	17.25	17.25	17.29	19.70	19.86	25.19	27.88	19.85	18.80	18.56	19.34	19.30	27.88
Min	16.97	16.93	17.06	17.25	17.88	17.20	16.45	16.62	16.61	17.86	17.95	18.32	16.45

Annual Max Momentary Gage Height 27.90 m. (MSL.) , at 17.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 15.70 m. (MSL.)

Left Bank Elevation 27.05 m. (MSL.) ,

Right Bank Elevation 29.63 m. (MSL.) , Drainage Are 8,778 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.80	6.80	9.80	13.60	94.15	25.80	456.60	19.20	2.20	28.80	31.80	79.00	
2	8.80	6.80	9.80	13.60	91.45	16.00	456.60	31.80	2.40	29.10	31.50	74.60	
3	8.80	6.60	9.80	13.00	94.15	14.40	456.60	41.95	2.50	28.80	36.70	75.80	
4	8.60	6.60	9.80	13.00	94.60	14.40	457.50	43.35	2.50	29.40	57.00	75.40	
5	8.60	9.00	9.60	13.20	93.70	14.60	460.20	43.00	2.30	29.40	58.05	75.40	
6	8.60	11.00	9.60	13.80	92.80	13.80	511.50	41.25	2.10	32.70	58.40	69.25	
7	10.20	10.80	9.60	13.60	92.80	12.00	609.00	40.20	28.80	38.10	58.75	64.00	
8	12.40	10.80	9.60	15.40	91.90	17.40	656.00	49.30	23.10	33.00	58.75	63.30	
9	11.00	10.80	9.60	23.10	93.70	17.60	690.00	54.55	12.80	30.60	58.40	72.20	
10	8.80	9.40	9.40	24.30	97.75	13.80	710.00	54.90	12.00	30.30	57.00	72.20	
11	9.00	12.60	9.40	24.90	102.70	16.40	708.00	71.00	13.20	30.30	57.35	71.40	
12	10.00	13.00	9.40	30.30	101.80	16.60	702.00	87.40	13.00	44.75	57.70	68.90	
13	11.40	13.00	9.20	34.50	100.90	16.80	700.00	91.45	13.00	51.75	65.75	67.50	
14	11.40	13.00	9.20	36.00	99.55	17.20	701.00	96.85	23.40	52.10	72.20	61.90	
15	11.40	12.80	9.20	31.80	96.40	17.40	666.00	102.25	51.05	51.75	69.25	49.65	
16	11.00	12.80	9.60	20.10	95.50	14.20	552.00	80.60	60.50	51.40	69.25	43.70	
17	7.60	11.40	11.80	24.30	91.90	13.40	483.60	54.55	60.15	51.75	68.55	49.30	
18	7.40	11.20	11.80	21.30	87.00	14.20	406.60	45.80	59.80	51.75	68.90	50.35	
19	7.60	13.00	11.60	21.30	76.60	14.00	161.95	33.00	42.65	51.40	68.55	61.20	
20	12.20	13.00	11.60	31.20	69.95	13.60	29.70	25.20	33.60	51.75	61.20	67.85	
21	12.80	12.00	11.80	40.55	64.00	15.80	14.00	24.90	47.55	51.75	53.15	66.45	
22	12.80	10.40	11.80	49.65	55.25	63.65	2.40	24.60	55.60	51.75	52.80	60.50	
23	13.00	10.40	11.80	49.30	51.05	99.10	0.60	24.30	52.10	37.75	53.50	55.60	
24	13.00	10.20	13.20	50.35	50.70	126.55	0.50	9.60	43.35	31.20	71.00	53.85	
25	12.80	10.20	13.20	48.95	50.35	168.00	4.80	3.10	28.50	31.50	70.65	51.05	
26	12.00	10.20	13.00	47.55	49.30	230.70	5.40	2.70	30.60	31.50	70.65	48.95	
27	11.60	10.00	13.00	48.60	50.70	233.95	7.60	2.40	29.70	31.50	76.20	48.95	
28	11.60	10.00	13.00	64.70	50.35	258.70	19.80	2.20	29.10	31.50	80.60	48.95	
29	11.40	9.80	13.20	85.40	48.25	378.60	19.50	2.30	28.50	31.50		48.60	
30	9.00	10.00	13.80	95.50	29.40	452.10	19.50	2.20	29.10	32.10		48.60	
31		9.80		93.70	30.30		19.50		29.40	31.50		48.60	
Total	315.60	327.40	327.20	1106.55	2388.95	2340.75	10688.45	1205.90	864.55	1192.45	1693.60	1893.00	24344.40 CMSDAY
Mean	10.52	10.56	10.91	35.70	77.06	78.03	344.79	40.20	27.89	38.47	60.49	61.06	66.70 CMS
Max	13.00	13.00	13.80	95.50	102.70	452.10	710.00	102.25	60.50	52.10	80.60	79.00	710.00 CMS
Min	7.40	6.60	9.20	13.00	29.40	12.00	0.50	2.20	2.10	28.80	31.50	43.70	0.50 CMS
Runoff	27.27	28.29	28.27	95.61	206.41	202.24	923.48	104.19	74.70	103.03	146.33	163.56	2103.36 MCM

Momentary Peak 712.00 CMS. at 27.90 m. (MSL.) at 17.00 Hours , on Oct 10 , 2016

Runoff Yield 7.60 Liters/Second/Square KM. Momentary Peak Yield 81.110 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Mueang , Saraburi (S.32)

Lat 14 - 31 - 28 N Long 100 - 59 - 48 E

Location : on right bank at Mueang.

	Ban -	**Amphoe** Mueang	**Changwat** Saraburi
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the Staff gage.	**Elevation**	+12.827 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1990 to date		
Rating Operation			
Period of Rating	2012 to date		
Rated by Flot	-		
Rated by Current Meter	2012 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

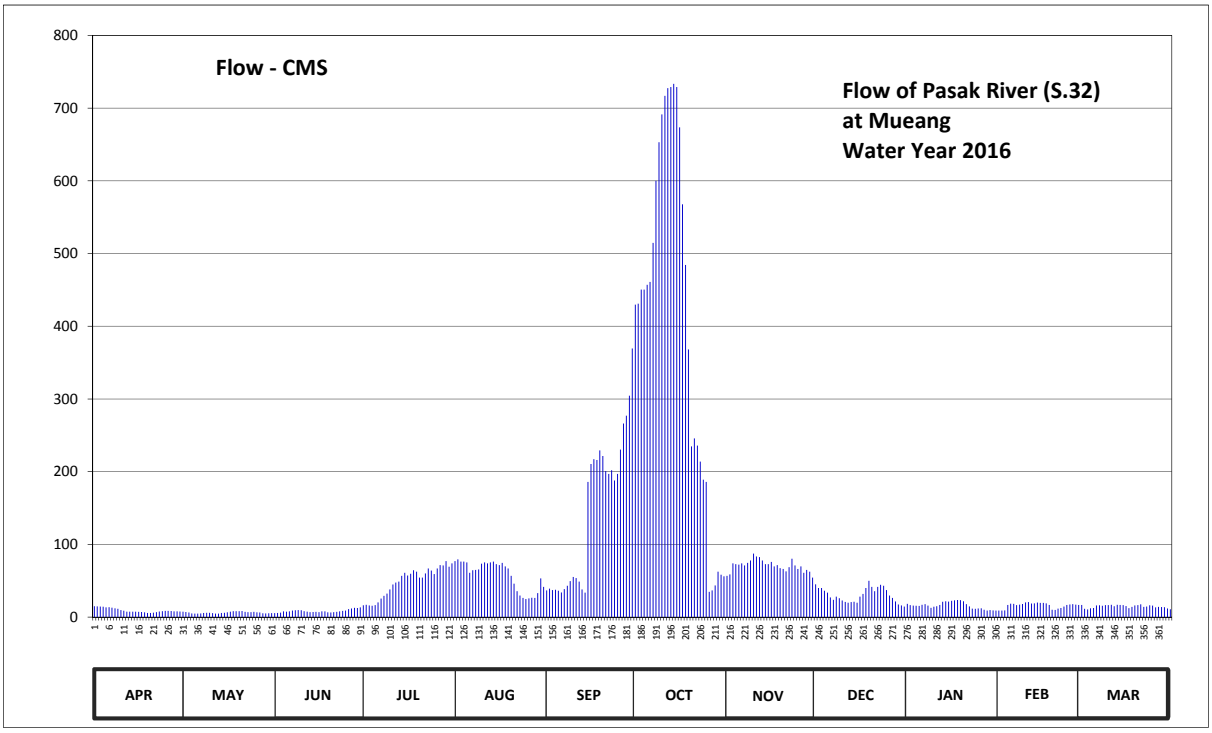
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.15	5.65	5.45	6.21	8.00	7.12	9.09	7.62	7.33	6.31	5.80	6.24	
2	6.14	5.60	5.47	6.25	8.03	7.18	9.10	7.67	7.20	6.22	5.80	5.97	
3	6.12	5.53	5.51	6.20	7.99	7.13	9.25	7.95	7.20	6.19	5.83	5.93	
4	6.11	5.41	5.69	6.18	7.99	7.14	9.25	7.93	7.11	6.18	6.24	6.00	
5	6.07	5.39	5.65	6.22	7.97	7.11	9.30	7.92	7.02	6.17	6.32	6.03	
6	6.08	5.39	5.68	6.41	7.72	7.03	9.33	7.95	6.75	6.25	6.31	6.20	
7	6.05	5.41	5.80	6.68	7.79	7.16	9.74	7.90	6.59	6.29	6.22	6.21	
8	6.00	5.47	5.84	6.86	7.80	7.28	10.35	7.96	6.81	6.19	6.26	6.18	
9	5.97	5.50	5.86	6.98	7.81	7.44	10.73	8.01	6.70	6.04	6.30	6.22	
10	5.87	5.50	5.85	7.15	7.94	7.58	10.99	8.13	6.54	6.11	6.41	6.22	
11	5.77	5.44	5.71	7.32	7.97	7.54	11.16	8.08	6.44	6.15	6.43	6.25	
12	5.65	5.38	5.65	7.39	7.95	7.42	11.23	8.07	6.39	6.23	6.33	6.15	
13	5.65	5.39	5.58	7.42	7.97	7.15	11.24	8.01	6.43	6.45	6.34	6.25	
14	5.65	5.46	5.60	7.62	7.99	7.02	11.27	7.93	6.46	6.49	6.40	6.24	
15	5.65	5.49	5.62	7.72	7.93	7.02	11.24	7.93	6.39	6.47	6.38	6.22	
16	5.63	5.56	5.59	7.63	7.91	7.26	10.87	7.98	6.81	6.52	6.38	6.16	
17	5.61	5.65	5.68	7.69	7.96	7.32	10.12	7.88	6.96	6.55	6.34	6.02	
18	5.55	5.72	5.68	7.79	7.88	7.31	9.51	7.91	7.20	6.58	6.24	6.10	
19	5.48	5.72	5.55	7.75	7.83	7.43	8.61	7.84	7.45	6.56	5.90	6.20	
20	5.46	5.71	5.53	7.56	7.62	7.36	7.48	7.82	7.24	6.49	5.89	6.22	
21	5.52	5.73	5.59	7.56	7.35	7.17	7.58	7.76	7.09	6.29	5.98	6.28	
22	5.59	5.63	5.62	7.70	7.09	7.13	7.49	7.86	7.24	6.14	6.03	6.10	
23	5.67	5.58	5.70	7.83	6.89	7.18	7.29	8.04	7.31	5.98	6.13	6.12	
24	5.72	5.58	5.75	7.78	6.72	7.04	7.05	7.90	7.28	5.97	6.23	6.21	
25	5.75	5.62	5.80	7.68	6.64	7.13	7.02	7.82	7.13	5.99	6.27	6.19	
26	5.75	5.55	5.95	7.83	6.69	7.44	7.06	7.88	6.89	6.00	6.29	6.07	
27	5.73	5.53	5.99	7.91	6.73	7.76	7.12	7.72	6.72	5.90	6.26	6.10	
28	5.70	5.42	6.04	7.90	6.72	7.85	7.29	7.80	6.48	5.79	6.24	6.09	
29	5.68	5.40	6.03	8.00	7.00	8.08	7.75	7.75	6.27	5.86		6.08	
30	5.66	5.42	6.07	7.87	7.53	8.62	7.66	7.56	6.20	5.82		5.99	
31		5.45		7.95	7.24		7.60		6.13	5.80		5.94	
Mean	5.78	5.53	5.72	7.32	7.57	7.35	9.06	7.89	6.83	6.19	6.20	6.13	
Max	6.15	5.73	6.07	8.00	8.03	8.62	11.27	8.13	7.45	6.58	6.43	6.28	11.27
Min	5.46	5.38	5.45	6.18	6.64	7.02	7.02	7.56	6.13	5.79	5.80	5.93	5.38

Annual Max Momentary Gage Height 11.28 m. (MSL.) , at 09.00 Hours , on Oct 14 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.51 m. (MSL.)

Left Bank Elevation 17.09 m. (MSL.) ,

Right Bank Elevation 17.11 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.00	7.50	5.50	16.20	77.00	36.80	429.70	56.80	45.20	18.20	9.00	16.80	
2	14.80	7.00	5.70	17.00	79.40	39.20	431.00	58.80	40.00	16.40	9.00	11.40	
3	14.40	6.30	6.10	16.00	76.40	37.20	450.50	74.00	40.00	15.80	9.30	10.60	
4	14.20	5.10	7.90	15.60	76.40	37.60	450.50	72.80	36.40	15.60	16.80	12.00	
5	13.40	4.90	7.50	16.40	75.20	36.40	457.00	72.20	33.60	15.40	18.40	12.60	
6	13.60	4.90	7.80	20.20	61.00	33.90	460.90	74.00	27.00	17.00	18.20	16.00	
7	13.00	5.10	9.00	25.60	64.50	38.40	514.60	71.00	23.80	17.80	16.40	16.20	
8	12.00	5.70	9.40	29.20	65.00	43.20	600.00	74.60	28.20	15.80	17.20	15.60	
9	11.40	6.00	9.60	32.40	65.60	49.60	653.20	77.80	26.00	12.80	18.00	16.40	
10	9.70	6.00	9.50	38.00	73.40	55.20	691.50	87.40	22.80	14.20	20.20	16.40	
11	8.70	5.40	8.10	44.80	75.20	53.60	717.00	83.40	20.80	15.00	20.60	17.00	
12	7.50	4.80	7.50	47.60	74.00	48.80	727.50	82.60	19.80	16.60	18.60	15.00	
13	7.50	4.90	6.80	48.80	75.20	38.00	729.00	77.80	20.60	21.00	18.80	17.00	
14	7.50	5.60	7.00	56.80	76.40	33.60	733.50	72.80	21.20	21.80	20.00	16.80	
15	7.50	5.90	7.20	61.00	72.80	186.00	729.00	72.80	19.80	21.40	19.60	16.40	
16	7.30	6.60	6.90	57.20	71.60	210.60	673.50	75.80	28.20	22.40	19.60	15.20	
17	7.10	7.50	7.80	59.60	74.60	217.20	567.80	69.80	31.80	23.00	18.80	12.40	
18	6.50	8.20	7.80	64.50	69.80	216.10	484.30	71.60	40.00	23.60	16.80	14.00	
19	5.80	8.20	6.50	62.50	66.80	229.30	368.20	67.40	50.00	23.20	10.00	16.00	
20	5.60	8.10	6.30	54.40	56.80	221.60	234.80	66.20	41.60	21.80	9.90	16.40	
21	6.20	8.30	6.90	54.40	46.00	201.00	245.80	63.00	35.70	17.80	11.60	17.60	
22	6.90	7.30	7.20	60.00	35.70	197.00	235.90	68.60	41.60	14.80	12.60	14.00	
23	7.70	6.80	8.00	66.80	29.80	202.00	213.90	80.20	44.40	11.60	14.60	14.40	
24	8.20	6.80	8.50	64.00	26.40	188.00	189.00	71.00	43.20	11.40	16.60	16.20	
25	8.50	7.20	9.00	59.20	24.80	197.00	186.00	66.20	37.20	11.80	17.40	15.80	
26	8.50	6.50	11.00	66.80	25.80	230.40	34.80	69.80	29.80	12.00	17.80	13.40	
27	8.30	6.30	11.80	71.60	26.60	266.20	36.80	61.00	26.40	10.00	17.20	14.00	
28	8.00	5.20	12.80	71.00	26.40	277.00	43.60	65.00	21.60	8.90	16.80	13.80	
29	7.80	5.00	12.60	77.00	33.00	304.60	62.50	62.50	17.40	9.60		13.60	
30	7.60	5.20	13.40	69.20	53.20	369.40	58.40	54.40	16.00	9.20		11.80	
31		5.50		74.00	41.60		56.00		14.60	9.00		10.80	
Total	280.20	193.80	251.10	1517.80	1796.40	4294.90	12466.20	2121.30	944.70	494.90	449.80	455.60	25266.70	CMSDAY
Mean	9.34	6.25	8.37	48.96	57.95	143.16	402.14	70.71	30.47	15.96	16.06	14.70	69.22	CMS
Max	15.00	8.30	13.40	77.00	79.40	369.40	733.50	87.40	50.00	23.60	20.60	17.60	733.50	CMS
Min	5.60	4.80	5.50	15.60	24.80	33.60	34.80	54.40	14.60	8.90	9.00	10.60	4.80	CMS
Runoff	24.21	16.74	21.70	131.14	155.21	371.08	1077.08	183.28	81.62	42.76	38.86	39.36	2183.04	MCM

Momentary Peak 735.00 CMS. at 11.28 m. (MSL.) at 09.00 Hours , on Oct 14 , 2016

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

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

Ban Tha Hai Yong **Amphoe** Lom Kao **Changwat** Phetchabun

Drainge Area	521 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+190.090 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +198.009 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

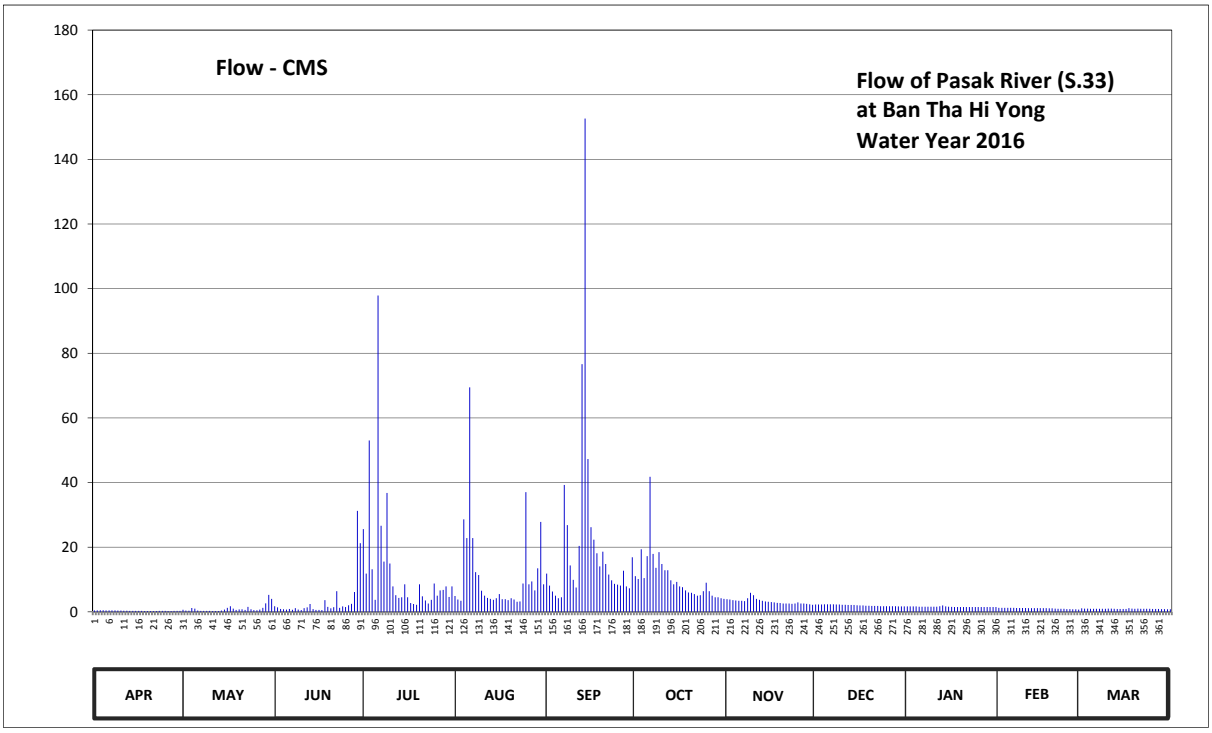
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.68	190.73	190.93	192.63	191.29	191.82	191.77	191.19	191.00	190.92	190.84	190.81	
2	190.67	190.66	190.87	191.82	191.18	191.55	191.71	191.18	191.00	190.92	190.84	190.80	
3	190.70	190.64	190.78	193.80	191.14	191.40	192.29	191.16	191.00	190.92	190.84	190.80	
4	190.69	190.83	190.76	191.91	192.78	191.30	191.73	191.15	191.01	190.92	190.84	190.79	
5	190.68	190.80	190.74	191.17	192.49	191.22	192.17	191.14	191.01	190.91	190.84	190.79	
6	190.68	190.65	190.78	195.26	194.39	191.25	193.35	191.14	191.01	190.91	190.84	190.79	
7	190.67	190.61	190.73	192.68	192.49	193.25	192.21	191.13	191.01	190.91	190.83	190.79	
8	190.67	190.61	190.82	192.07	191.85	192.69	191.94	191.22	191.00	190.91	190.83	190.79	
9	190.66	190.61	190.74	193.15	191.79	191.99	192.24	191.37	191.00	190.91	190.83	190.79	
10	190.65	190.61	190.71	192.03	191.42	191.69	192.02	191.31	190.99	190.91	190.83	190.80	
11	190.64	190.60	190.82	191.53	191.30	191.50	191.89	191.20	190.99	190.91	190.82	190.80	
12	190.63	190.60	190.87	191.31	191.23	192.35	191.89	191.17	190.98	190.93	190.82	190.79	
13	190.62	190.60	191.02	191.23	191.20	194.63	191.68	191.14	190.98	190.96	190.82	190.78	
14	190.62	190.65	190.77	191.25	191.17	196.71	191.58	191.12	190.98	190.92	190.82	190.78	
15	190.62	190.74	190.72	191.58	191.22	193.57	191.64	191.11	190.97	190.91	190.82	190.78	
16	190.62	190.84	190.72	191.25	191.34	192.66	191.53	191.10	190.96	190.90	190.82	190.78	
17	190.61	190.93	190.71	191.06	191.19	192.46	191.51	191.09	190.96	190.89	190.82	190.82	
18	190.60	190.80	191.16	191.02	191.19	192.22	191.43	191.07	190.95	190.89	190.81	190.80	
19	190.59	190.72	190.90	190.99	191.16	191.97	191.38	191.06	190.95	190.89	190.81	190.79	
20	190.59	190.75	190.81	191.58	191.22	192.25	191.37	191.04	190.94	190.89	190.80	190.80	
21	190.59	190.76	190.88	191.28	191.18	192.02	191.34	191.04	190.94	190.89	190.79	190.79	
22	190.60	190.72	191.41	191.15	191.11	191.80	191.30	191.04	190.94	190.89	190.79	190.79	
23	190.62	190.90	190.84	191.04	191.12	191.68	191.31	191.03	190.93	190.89	190.79	190.79	
24	190.61	190.76	190.92	191.17	191.60	191.59	191.41	191.04	190.93	190.89	190.77	190.79	
25	190.61	190.71	190.89	191.60	193.16	191.57	191.62	191.09	190.93	190.89	190.77	190.78	
26	190.60	190.70	190.97	191.30	191.58	191.55	191.41	191.04	190.93	190.89	190.76	190.78	
27	190.60	190.74	191.03	191.43	191.65	191.88	191.30	191.04	190.93	190.89	190.76	190.78	
28	190.61	190.84	191.39	191.44	191.43	191.53	191.25	191.03	190.93	190.89	190.74	190.77	
29	190.61	191.05	192.91	191.53	191.93	191.48	191.25	191.01	190.92	190.89		190.77	
30	190.61	191.32	192.40	191.26	192.74	192.15	191.22	190.99	190.92	190.89		190.76	
31		191.20		191.53	191.58		191.20		190.92	190.89		190.76	
Mean	190.63	190.76	191.00	191.74	191.68	192.19	191.68	191.11	190.96	190.90	190.81	190.79	
Max	190.70	191.32	192.91	195.26	194.39	196.71	193.35	191.37	191.01	190.96	190.84	190.82	196.71
Min	190.59	190.60	190.71	190.99	191.11	191.22	191.20	190.99	190.92	190.89	190.74	190.76	190.59

Annual Max Momentary Gage Height 197.18 m. (MSL.) , at 12.00 Hours , on Sep 14 , 2016

Zero Gage at Bottom Elevation 190.09 m. (MSL.) , River Bed 190.36 m. (MSL.)

Left Bank Elevation 198.95 m. (MSL.) ,

Right Bank Elevation 198.93 m. (MSL.) , Drainage Are 521 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.45	0.65	1.73	25.60	4.90	11.80	11.05	3.90	2.25	1.65	1.20	1.05		
2	0.43	0.40	1.35	11.80	3.80	8.13	10.15	3.80	2.25	1.65	1.20	1.00		
3	0.50	0.35	0.90	53.00	3.40	6.25	19.32	3.60	2.25	1.65	1.20	1.00		
4	0.48	1.15	0.80	13.15	28.60	5.00	10.45	3.50	2.32	1.65	1.20	0.95		
5	0.45	1.00	0.70	3.70	22.82	4.20	17.22	3.40	2.32	1.58	1.20	0.95		
6	0.45	0.38	0.90	97.85	69.45	4.50	41.75	3.40	2.32	1.58	1.20	0.95		
7	0.43	0.28	0.65	26.60	22.82	39.25	17.92	3.30	2.32	1.58	1.15	0.95		
8	0.43	0.28	1.10	15.55	12.25	26.80	13.60	4.20	2.25	1.58	1.15	0.95		
9	0.40	0.28	0.70	36.75	11.35	14.35	18.45	5.87	2.25	1.58	1.15	0.95		
10	0.38	0.28	0.55	14.95	6.50	9.88	14.80	5.12	2.18	1.58	1.15	1.00		
11	0.35	0.25	1.10	7.88	5.00	7.50	12.85	4.00	2.18	1.58	1.10	1.00		
12	0.33	0.25	1.35	5.12	4.30	20.37	12.85	3.70	2.10	1.73	1.10	0.95		
13	0.30	0.25	2.40	4.30	4.00	76.65	9.75	3.40	2.10	1.95	1.10	0.90		
14	0.30	0.38	0.85	4.50	3.70	152.65	8.50	3.20	2.10	1.65	1.10	0.90		
15	0.30	0.70	0.60	8.50	4.20	47.25	9.25	3.10	2.03	1.58	1.10	0.90		
16	0.30	1.20	0.60	4.50	5.50	26.20	7.88	3.00	1.95	1.50	1.10	0.90		
17	0.28	1.73	0.55	2.70	3.90	22.30	7.63	2.92	1.95	1.45	1.10	1.10		
18	0.25	1.00	3.60	2.40	3.90	18.10	6.62	2.77	1.88	1.45	1.05	1.00		
19	0.23	0.60	1.50	2.18	3.60	14.05	6.00	2.70	1.88	1.45	1.05	0.95		
20	0.23	0.75	1.05	8.50	4.20	18.62	5.87	2.55	1.80	1.45	1.00	1.00		
21	0.23	0.80	1.40	4.80	3.80	14.80	5.50	2.55	1.80	1.45	0.95	0.95		
22	0.25	0.60	6.37	3.50	3.10	11.50	5.00	2.55	1.80	1.45	0.95	0.95		
23	0.30	1.50	1.20	2.55	3.20	9.75	5.12	2.47	1.73	1.45	0.95	0.95		
24	0.28	0.80	1.65	3.70	8.75	8.63	6.37	2.55	1.73	1.45	0.85	0.95		
25	0.28	0.55	1.45	8.75	37.00	8.38	9.00	2.92	1.73	1.45	0.85	0.90		
26	0.25	0.50	2.03	5.00	8.50	8.13	6.37	2.55	1.73	1.45	0.80	0.90		
27	0.25	0.70	2.47	6.62	9.38	12.70	5.00	2.55	1.73	1.45	0.80	0.90		
28	0.28	1.20	6.12	6.75	6.62	7.88	4.50	2.47	1.73	1.45	0.70	0.85		
29	0.28	2.62	31.23	7.88	13.45	7.25	4.50	2.32	1.65	1.45		0.85		
30	0.28	5.25	21.25	4.60	27.80	16.87	4.20	2.18	1.65	1.45		0.80		
31		4.00		7.88	8.50		4.00		1.65	1.45		0.80		
Total	9.95	30.68	98.15	411.56	358.29	639.74	321.47	96.54	61.61	47.82	29.45	29.15	2134.41	CMSDAY
Mean	0.33	0.99	3.27	13.28	11.56	21.32	10.37	3.22	1.99	1.54	1.05	0.94	5.85	CMS
Max	0.50	5.25	31.23	97.85	69.45	152.65	41.75	5.87	2.32	1.95	1.20	1.10	152.65	CMS
Min	0.23	0.25	0.55	2.18	3.10	4.20	4.00	2.18	1.65	1.45	0.70	0.80	0.23	CMS
Runoff	0.86	2.65	8.48	35.56	30.96	55.27	27.78	8.34	5.32	4.13	2.54	2.52	184.41	MCM

Momentary Peak 172.15 CMS. at 197.18 m. (MSL.) at 12.00 Hours , on Sep 14 , 2016

Runoff Yield 11.22 Liters/Second/Square KM. Momentary Peak Yield 330.420 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Non Thong , Phetchabun (S.36)

Lat 16 - 43 - 42 N Long 101 - 14 - 32 E

Location : on right bank at Ban Non Thong.

Ban Non Thong **Amphoe** Lom Sak **Changwat** Phetchabun

Drainge Area	1,775 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+130.950 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +143.140 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

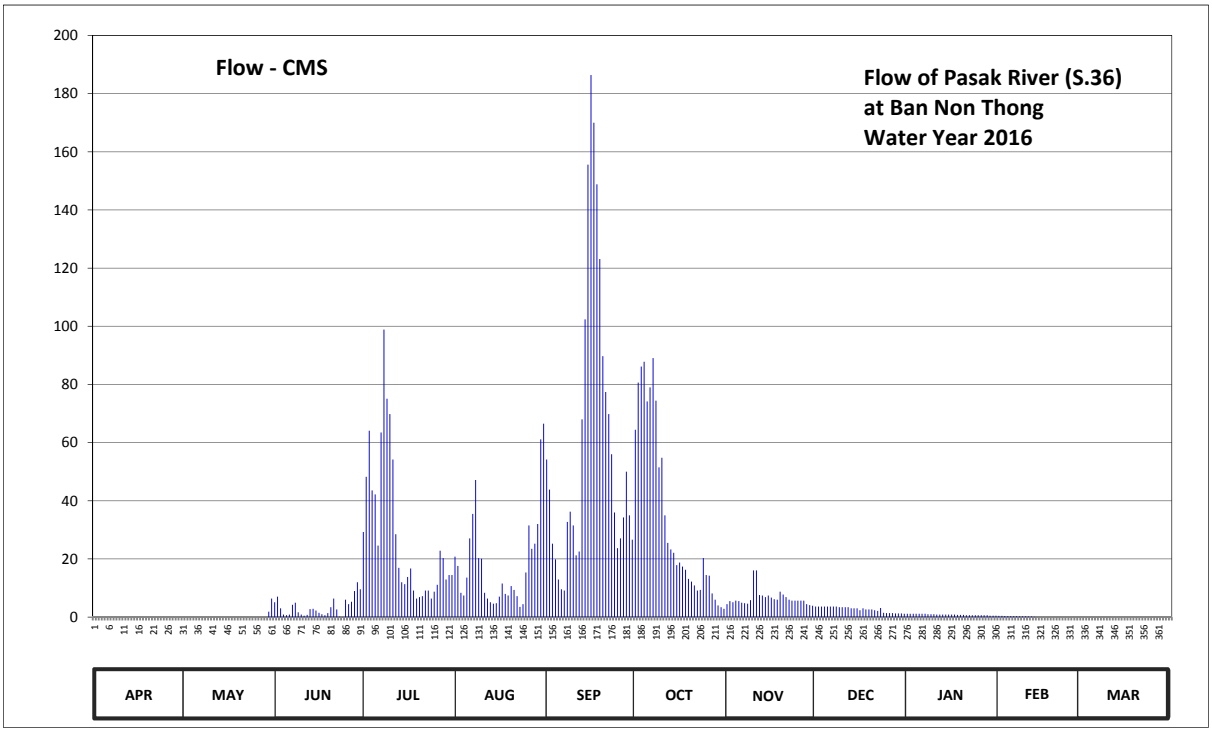
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.95	133.45	135.25	136.36	135.99	137.29	137.63	135.21	135.15	134.95	134.89	134.65	
2	133.95	133.45	135.36	137.09	135.85	136.93	138.15	135.27	135.15	134.95	134.89	134.65	
3	133.95	133.45	135.10	137.62	135.43	136.19	138.32	135.25	135.15	134.95	134.88	134.65	
4	133.95	133.45	134.93	136.92	135.38	135.95	138.37	135.28	135.15	134.95	134.87	134.65	
5	133.95	133.45	134.91	136.87	135.67	135.64	137.95	135.27	135.15	134.95	134.87	134.65	
6	133.95	133.45	134.93	136.16	136.27	135.49	138.10	135.24	135.15	134.95	134.86	134.60	
7	133.95	133.45	135.20	137.60	136.61	135.47	138.41	135.23	135.15	134.95	134.86	134.60	
8	133.95	133.45	135.24	138.71	137.05	136.50	137.96	135.22	135.15	134.94	134.85	134.60	
9	133.95	133.45	134.99	137.98	135.97	136.64	137.20	135.29	135.13	134.94	134.85	134.60	
10	133.95	133.45	134.93	137.81	135.96	136.45	137.31	135.78	135.13	134.94	134.85	134.58	
11	133.93	133.45	134.90	137.29	135.43	136.01	136.59	135.78	135.13	134.93	134.84	134.55	
12	133.93	133.45	134.92	136.33	135.32	136.07	136.20	135.39	135.13	134.93	134.84	134.52	
13	133.93	133.45	135.08	135.82	135.25	137.75	136.10	135.38	135.10	134.93	134.82	134.50	
14	133.93	133.45	135.09	135.60	135.22	138.81	136.05	135.35	135.10	134.93	134.80	134.47	
15	133.93	133.45	135.04	135.57	135.23	140.24	135.86	135.38	135.10	134.93	134.79	134.46	
16	133.92	133.45	134.98	135.68	135.36	141.01	135.90	135.34	135.05	134.93	134.77	134.42	
17	133.92	133.45	134.94	135.81	135.58	140.60	135.84	135.31	135.10	134.93	134.75	134.40	
18	133.92	133.45	134.91	135.47	135.41	140.07	135.79	135.30	135.07	134.92	134.73	134.35	
19	133.92	133.45	134.97	135.32	135.38	139.39	135.65	135.45	135.07	134.92	134.72	134.28	
20	133.92	133.45	135.13	135.35	135.54	138.43	135.61	135.40	135.07	134.92	134.71	134.25	
21	133.90	133.45	135.32	135.37	135.48	138.05	135.55	135.35	135.05	134.91	134.70	134.20	
22	133.90	133.45	135.07	135.47	135.37	137.81	135.47	135.30	135.03	134.91	134.70	134.10	
23	133.90	133.45	134.83	135.47	135.14	137.35	135.48	135.28	135.11	134.91	134.69	133.95	
24	133.90	133.45	134.81	135.32	135.21	136.63	135.97	135.28	134.98	134.91	134.68	133.95	
25	133.90	133.45	135.30	135.45	135.75	136.12	135.71	135.28	134.97	134.91	134.68	133.95	
26	133.90	133.45	135.21	135.56	136.45	136.27	135.70	135.28	134.97	134.91	134.67	133.95	
27	133.90	134.10	135.26	136.08	136.11	136.56	135.42	135.28	134.97	134.91	134.66	133.95	
28	133.89	134.35	135.46	135.97	136.19	137.15	135.30	135.21	134.96	134.91	134.65	133.95	
29	133.89	134.71	135.60	135.64	136.47	136.59	135.18	135.19	134.96	134.90		133.95	
30	133.89	135.01	135.49	135.71	137.52	136.25	135.13	135.17	134.96	134.90		133.95	
31		135.32		135.71	137.70		135.09		134.95	134.90		133.95	
Mean	133.92	133.65	135.11	136.23	135.85	137.32	136.42	135.32	135.07	134.93	134.78	134.33	
Max	133.95	135.32	135.60	138.71	137.70	141.01	138.41	135.78	135.15	134.95	134.89	134.65	141.01
Min	133.89	133.45	134.81	135.32	135.14	135.47	135.09	135.17	134.95	134.90	134.65	133.95	133.45

Annual Max Momentary Gage Height 141.07 m. (MSL.) , at 09.00 Hours , on Sep 16 , 2016

Zero Gage at Bottom Elevation 130.95 m. (MSL.) , River Bed 132.246 m. (MSL.)

Left Bank Elevation 143.34 m. (MSL.) ,

Right Bank Elevation 143.28 m. (MSL.) , Drainage Are 1,775 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	5.13	29.25	20.77	54.20	64.40	4.43	3.63	1.13	0.45	0.00		
2	0.00	0.00	7.05	48.22	17.62	43.82	80.63	5.48	3.63	1.13	0.45	0.00		
3	0.00	0.00	3.00	64.10	8.35	25.27	86.15	5.13	3.63	1.13	0.40	0.00		
4	0.00	0.00	0.88	43.55	7.40	19.87	87.78	5.65	3.63	1.13	0.35	0.00		
5	0.00	0.00	0.63	42.17	13.57	12.90	74.13	5.48	3.63	1.13	0.35	0.00		
6	0.00	0.00	0.88	24.60	27.07	9.55	79.00	4.95	3.63	1.13	0.30	0.00		
7	0.00	0.00	4.25	63.50	35.50	9.15	89.08	4.78	3.63	1.13	0.30	0.00		
8	0.00	0.00	4.95	98.85	47.12	32.75	74.45	4.60	3.63	1.00	0.25	0.00		
9	0.00	0.00	1.63	75.10	20.32	36.25	51.50	5.83	3.38	1.00	0.25	0.00		
10	0.00	0.00	0.88	69.80	20.10	31.50	54.80	16.05	3.38	1.00	0.25	0.00		
11	0.00	0.00	0.50	54.20	8.35	21.22	35.00	16.05	3.38	0.88	0.20	0.00		
12	0.00	0.00	0.75	28.50	6.35	22.57	25.50	7.58	3.38	0.88	0.20	0.00		
13	0.00	0.00	2.75	16.95	5.13	68.00	23.25	7.40	3.00	0.88	0.10	0.00		
14	0.00	0.00	2.88	12.00	4.60	102.35	22.12	6.88	3.00	0.88	0.00	0.00		
15	0.00	0.00	2.25	11.32	4.78	155.60	17.85	7.40	3.00	0.88	0.00	0.00		
16	0.00	0.00	1.50	13.80	7.05	186.40	18.75	6.70	2.38	0.88	0.00	0.00		
17	0.00	0.00	1.00	16.72	11.55	170.00	17.40	6.18	3.00	0.88	0.00	0.00		
18	0.00	0.00	0.63	9.15	7.95	148.80	16.27	6.00	2.63	0.75	0.00	0.00		
19	0.00	0.00	1.38	6.35	7.40	123.13	13.12	8.75	2.63	0.75	0.00	0.00		
20	0.00	0.00	3.38	6.88	10.65	89.73	12.22	7.75	2.63	0.75	0.00	0.00		
21	0.00	0.00	6.35	7.23	9.35	77.38	10.87	6.88	2.38	0.63	0.00	0.00		
22	0.00	0.00	2.63	9.15	7.23	69.80	9.15	6.00	2.13	0.63	0.00	0.00		
23	0.00	0.00	0.15	9.15	3.50	56.00	9.35	5.65	3.13	0.63	0.00	0.00		
24	0.00	0.00	0.05	6.35	4.43	36.00	20.32	5.65	1.50	0.63	0.00	0.00		
25	0.00	0.00	6.00	8.75	15.37	23.70	14.47	5.65	1.38	0.63	0.00	0.00		
26	0.00	0.00	4.43	11.10	31.50	27.07	14.25	5.65	1.38	0.63	0.00	0.00		
27	0.00	0.00	5.30	22.80	23.47	34.25	8.15	5.65	1.38	0.63	0.00	0.00		
28	0.00	0.00	8.95	20.32	25.27	50.00	6.00	4.43	1.25	0.63	0.00	0.00		
29	0.00	0.00	12.00	12.90	32.00	35.00	4.00	4.13	1.25	0.50		0.00		
30	0.00	1.88	9.55	14.47	61.10	26.62	3.38	3.88	1.25	0.50		0.00		
31		6.35		14.47	66.50		2.88		1.13	0.50		0.00		
Total	0.00	8.23	101.71	871.70	571.35	1798.88	1046.22	196.64	82.99	25.86	3.85	0.00	4707.43	CMSDAY
Mean	0.00	0.27	3.39	28.12	18.43	59.96	33.75	6.55	2.68	0.83	0.14	0.00	12.90	CMS
Max	0.00	6.35	12.00	98.85	66.50	186.40	89.08	16.05	3.63	1.13	0.45	0.00	186.40	CMS
Min	0.00	0.00	0.05	6.35	3.50	9.15	2.88	3.88	1.13	0.50	0.00	0.00	0.00	CMS
Runoff	0.00	0.71	8.79	75.31	49.36	155.42	90.39	16.99	7.17	2.23	0.33	0.00	406.72	MCM

Momentary Peak 188.80 CMS. at 141.07 m. (MSL.) at 09.00 Hours , on Sep 16 , 2016

Runoff Yield 7.27 Liters/Second/Square KM. Momentary Peak Yield 106.370 Liters/Second/Square KM.

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Bo Rang , Phetchabun (S.42)

Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

Location : on left bank at the bridge.

Ban Bo Rang **Amphoe** Wichian Buri **Changwat** Phetchabun

Drainge Area	7,233 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+51.796 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +63.900 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Flot	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

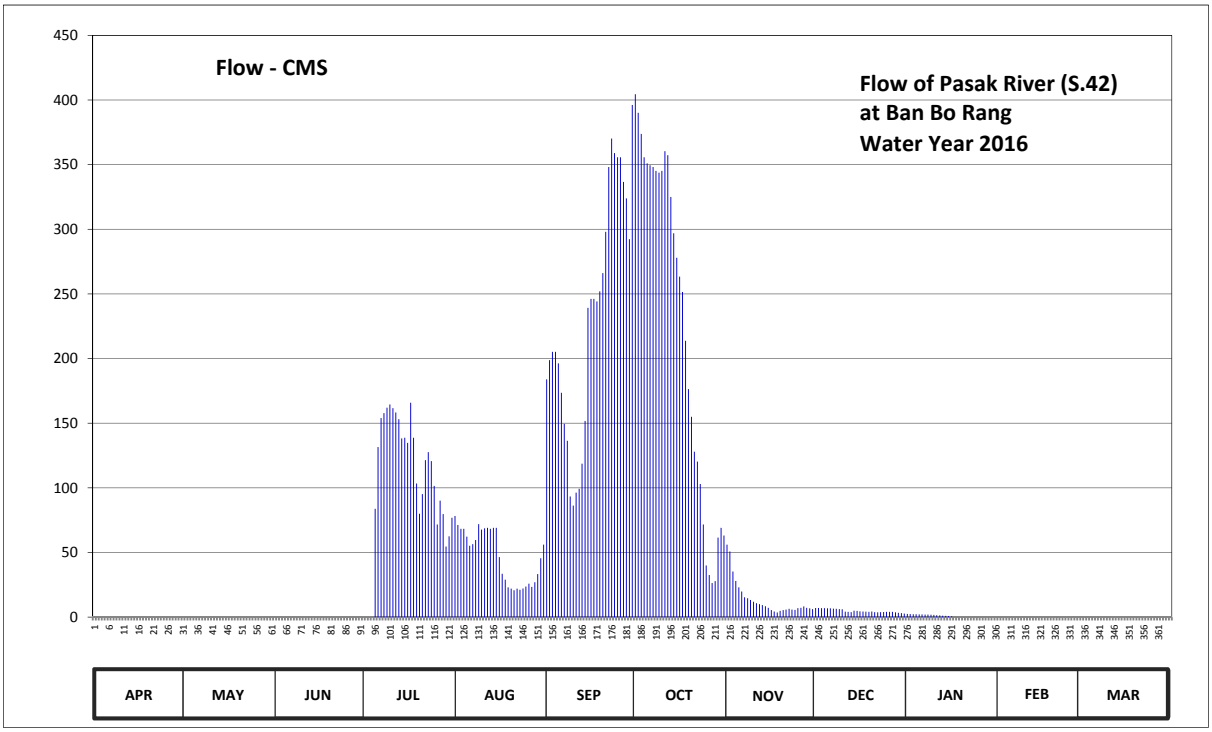
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.73	52.50	52.53	53.16	58.05	60.63	63.39	57.37	55.17	54.84	54.26	54.04	
2	52.76	52.50	52.51	53.17	57.84	60.93	63.32	57.19	55.17	54.83	54.25	54.04	
3	52.75	52.50	52.50	53.16	57.75	61.06	63.23	56.61	55.16	54.82	54.24	54.03	
4	52.82	52.50	52.50	53.22	57.75	61.06	63.12	56.30	55.16	54.82	54.23	54.03	
5	52.89	52.50	52.48	58.21	57.56	60.88	63.09	56.05	55.15	54.81	54.22	54.03	
6	52.91	52.50	52.47	59.49	57.34	60.41	63.08	55.89	55.15	54.81	54.22	54.03	
7	52.91	52.50	52.47	60.00	57.38	59.90	63.07	55.67	55.14	54.80	54.22	54.02	
8	52.93	52.50	52.46	60.08	57.48	59.61	63.05	55.63	55.13	54.80	54.20	54.02	
9	52.84	52.50	52.45	60.17	57.86	58.48	63.04	55.56	55.11	54.79	54.18	54.01	
10	52.79	52.52	52.44	60.22	57.73	58.28	63.05	55.49	55.10	54.77	54.17	54.01	
11	52.82	52.52	52.44	60.16	57.76	58.56	63.15	55.42	54.98	54.75	54.16	54.00	
12	52.72	52.52	52.43	60.09	57.77	58.64	63.13	55.37	54.97	54.73	54.15	54.00	
13	52.72	52.52	52.42	59.98	57.75	59.16	62.90	55.32	54.95	54.71	54.15	53.99	
14	52.66	52.52	52.42	59.65	57.77	59.95	62.63	55.26	55.03	54.69	54.14	53.99	
15	52.61	52.52	52.41	59.66	57.77	61.74	62.40	55.18	55.02	54.67	54.14	53.98	
16	52.59	52.54	52.41	59.57	57.04	61.88	62.19	55.06	55.00	54.63	54.14	53.98	
17	52.59	52.54	52.41	60.25	56.54	61.88	61.98	54.99	54.99	54.45	54.12	53.98	
18	52.59	52.54	52.42	59.66	56.34	61.84	61.23	54.93	54.98	54.45	54.11	53.97	
19	52.58	52.53	52.43	58.75	56.05	61.99	60.47	55.02	54.97	54.45	54.10	53.97	
20	52.58	52.53	52.45	58.10	56.00	62.23	60.02	55.06	54.99	54.45	54.08	53.97	
21	52.58	52.55	52.46	58.53	55.94	62.64	59.40	55.09	54.95	54.44	54.08	53.96	
22	52.58	52.60	52.50	59.23	56.00	63.07	59.20	55.13	54.94	54.44	54.07	53.96	
23	52.56	52.63	52.53	59.39	55.96	63.21	58.74	55.09	54.95	54.44	54.07	53.96	
24	52.56	52.62	52.58	59.21	56.01	63.14	57.85	55.07	54.96	54.44	54.07	53.95	
25	52.55	52.64	52.79	58.70	56.08	63.12	56.80	55.16	54.97	54.44	54.06	53.95	
26	52.54	52.60	52.88	57.85	56.19	63.12	56.50	55.18	54.97	54.44	54.06	53.95	
27	52.52	52.59	52.90	58.39	56.07	62.99	56.22	55.25	54.97	54.44	54.05	53.95	
28	52.52	52.58	52.93	58.09	56.25	62.89	56.29	55.18	54.94	54.44	54.05	53.95	
29	52.51	52.57	53.10	57.32	56.53	62.58	57.54	55.15	54.91	54.44		53.94	
30	52.50	52.56	53.13	57.57	57.01	63.35	57.77	55.11	54.89	54.44		53.94	
31		52.55		58.01	57.37		57.59		54.86	54.44		53.94	
Mean	52.67	52.54	52.56	58.36	57.00	61.31	60.82	55.49	55.02	54.61	54.14	53.99	
Max	52.93	52.64	53.13	60.25	58.05	63.35	63.39	57.37	55.17	54.84	54.26	54.04	63.39
Min	52.50	52.50	52.41	53.16	55.94	58.28	56.22	54.93	54.86	54.44	54.05	53.94	52.41

Annual Max Momentary Gage Height 63.40 m. (MSL.) , at 18.00 Hours , on Sep 30 , 2016

Zero Gage at Bottom Elevation 51.80 m. (MSL.) , River Bed 52.78 m. (MSL.)

Left Bank Elevation 64.19 m. (MSL.) ,

Right Bank Elevation 64.17 m. (MSL.) , Drainage Are 7,233 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	78.25	183.92	404.45	56.10	7.05	2.50	0.00	0.00		
2	0.00	0.00	0.00	0.00	71.30	198.75	390.10	50.70	7.05	2.38	0.00	0.00		
3	0.00	0.00	0.00	0.00	68.37	205.25	373.75	35.25	6.90	2.25	0.00	0.00		
4	0.00	0.00	0.00	0.00	68.37	205.25	355.70	28.00	6.90	2.25	0.00	0.00		
5	0.00	0.00	0.00	83.85	62.20	196.25	351.05	23.00	6.75	2.13	0.00	0.00		
6	0.00	0.00	0.00	131.60	55.20	173.47	349.60	19.80	6.75	2.13	0.00	0.00		
7	0.00	0.00	0.00	154.00	56.40	149.50	348.15	15.40	6.60	2.00	0.00	0.00		
8	0.00	0.00	0.00	157.80	59.60	136.45	345.25	14.60	6.45	2.00	0.00	0.00		
9	0.00	0.00	0.00	162.07	71.95	93.30	343.80	13.20	6.15	1.90	0.00	0.00		
10	0.00	0.00	0.00	164.45	67.72	86.30	345.25	11.85	6.00	1.70	0.00	0.00		
11	0.00	0.00	0.00	161.60	68.70	96.25	360.50	10.80	4.25	1.50	0.00	0.00		
12	0.00	0.00	0.00	158.27	69.02	99.25	357.30	10.05	4.13	1.30	0.00	0.00		
13	0.00	0.00	0.00	153.10	68.37	118.75	325.00	9.30	3.88	1.10	0.00	0.00		
14	0.00	0.00	0.00	138.25	69.02	151.75	297.00	8.40	4.95	0.95	0.00	0.00		
15	0.00	0.00	0.00	138.70	69.02	239.25	278.00	7.20	4.80	0.85	0.00	0.00		
16	0.00	0.00	0.00	134.80	46.35	246.25	263.40	5.40	4.50	0.65	0.00	0.00		
17	0.00	0.00	0.00	165.87	33.50	246.25	251.45	4.38	4.38	0.00	0.00	0.00		
18	0.00	0.00	0.00	138.70	28.90	244.25	213.75	3.63	4.25	0.00	0.00	0.00		
19	0.00	0.00	0.00	103.38	23.00	251.97	176.32	4.80	4.13	0.00	0.00	0.00		
20	0.00	0.00	0.00	80.00	22.00	266.10	154.95	5.40	4.38	0.00	0.00	0.00		
21	0.00	0.00	0.00	95.13	20.80	298.00	128.00	5.85	3.88	0.00	0.00	0.00		
22	0.00	0.00	0.00	121.38	22.00	348.15	120.25	6.45	3.75	0.00	0.00	0.00		
23	0.00	0.00	0.00	127.60	21.20	370.25	103.00	5.85	3.88	0.00	0.00	0.00		
24	0.00	0.00	0.00	120.63	22.20	358.90	71.62	5.55	4.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	101.50	23.60	355.70	40.00	6.90	4.13	0.00	0.00	0.00		
26	0.00	0.00	0.00	71.62	25.80	355.70	32.50	7.20	4.13	0.00	0.00	0.00		
27	0.00	0.00	0.00	90.15	23.40	336.70	26.40	8.25	4.13	0.00	0.00	0.00		
28	0.00	0.00	0.00	79.65	27.00	323.90	27.80	7.20	3.75	0.00	0.00	0.00		
29	0.00	0.00	0.00	54.60	33.25	292.30	61.55	6.75	3.38	0.00		0.00		
30	0.00	0.00	0.00	62.52	45.53	396.25	69.02	6.15	3.13	0.00		0.00		
31		0.00		76.85	56.10		63.17		2.75	0.00		0.00		
Total	0.00	0.00	0.00	3228.07	1478.12	7024.36	7028.08	403.41	151.16	27.59	0.00	0.00	19340.79	CMSDAY
Mean	0.00	0.00	0.00	104.13	47.68	234.15	226.71	13.45	4.88	0.89	0.00	0.00	52.99	CMS
Max	0.00	0.00	0.00	165.87	78.25	396.25	404.45	56.10	7.05	2.50	0.00	0.00	404.45	CMS
Min	0.00	0.00	0.00	0.00	20.80	86.30	26.40	3.63	2.75	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	278.91	127.71	606.90	607.23	34.85	13.06	2.38	0.00	0.00	1671.04	MCM

Momentary Peak 406.50 CMS. at 63.40 m. (MSL.) at 18.00 Hours , on Sep 30 , 2016

Runoff Yield 7.33 Liters/Second/Square KM. Momentary Peak Yield 56.200 Liters/Second/Square KM.

WATER YEAR : 2016

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

Drainge Area	- sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the Staff gage. **Elevation** +51.908 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2011 to date
Rating Operation	
Period of Rating	2011 to date
Rated by Flot	-
Rated by Current Meter	2011 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

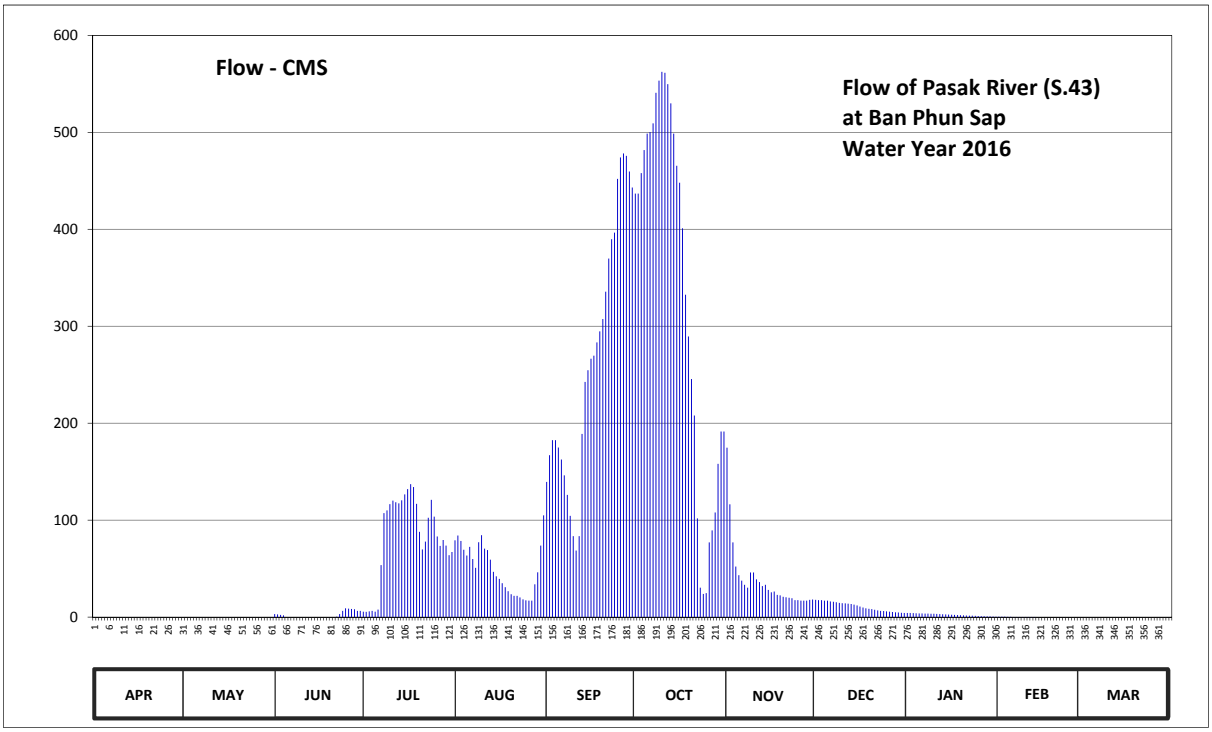
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			37.63	37.21	41.55	43.11	48.01	44.18	43.67	43.06	42.26	40.99	
2			37.55	37.94	41.69	43.71	48.01	44.11	43.66	43.04	42.24	40.95	
3			37.46	37.99	41.53	44.02	48.27	44.05	43.66	43.01	42.24	40.90	
4			37.37	38.05	41.25	44.02	48.55	44.01	43.65	42.99	42.19	40.85	
5			36.86	37.96	41.05	43.87	48.75	43.98	43.65	42.97	42.14	40.81	
6			36.86	38.17	41.35	43.62	48.77	43.94	43.63	42.95	42.07	40.77	
7			36.86	40.72	40.93	43.26	48.87	43.91	43.62	42.93	42.03	40.72	
8			36.86	42.32	40.63	42.79	49.22	43.88	43.61	42.91	42.04	40.70	
9			36.86	42.39	41.49	42.25	49.36	44.00	43.59	42.90	41.98	40.64	
10			36.86	42.55	41.70	41.67	49.46	44.00	43.58	42.88	41.95	40.58	
11			36.86	42.64	41.29	41.22	49.45	43.95	43.57	42.86	41.90	40.53	
12			36.86	42.60	41.24	41.67	49.32	43.93	43.56	42.83	41.89	40.47	
13			36.86	42.57	40.91	44.15	49.10	43.90	43.55	42.80	41.80	40.70	
14			36.86	42.65	40.47	45.11	48.75	43.91	43.53	42.76	41.70	40.40	
15			36.86	42.80	40.28	45.31	48.36	43.85	43.50	42.73	41.70	40.20	
16			36.86	42.94	40.18	45.51	48.15	43.82	43.46	42.69	41.67	40.12	
17			36.86	43.06	40.00	45.56	47.56	43.83	43.43	42.67	41.63	40.16	
18			36.86	42.99	39.79	45.79	46.60	43.78	43.40	42.63	41.60	40.20	
19			36.86	42.56	39.59	45.98	45.89	43.77	43.38	42.60	41.55	40.19	
20			36.86	41.80	39.43	46.19	45.16	43.74	43.36	42.57	41.50	40.18	
21			36.94	41.26	39.35	46.65	44.50	43.73	43.33	42.54	41.46	40.08	
22			37.11	41.51	39.35	47.14	44.09	43.72	43.30	42.51	41.41	40.00	
23			37.61	42.20	39.25	47.41	43.88	43.71	43.26	42.48	41.38	39.93	
24			38.04	42.66	39.12	47.50	43.80	43.66	43.25	42.46	41.28	39.88	
25			38.31	42.23	39.05	48.20	43.81	43.66	43.23	42.43	41.24	39.87	
26			38.27	41.66	39.03	48.46	44.05	43.65	43.21	42.40	41.18	39.78	
27			38.24	41.38	39.03	48.51	44.07	43.65	43.18	42.38	41.10	39.70	
28			38.20	41.56	39.94	48.48	44.10	43.65	43.15	42.36	41.05	39.68	
29			38.05	41.39	40.45	48.29	44.16	43.67	43.12	42.34		39.65	
30			38.04	41.06	41.39	48.09	44.20	43.68	43.10	42.31		39.60	
31				41.17	42.26		44.20		43.07	42.28		39.56	
Mean			37.29	41.29	40.47	45.25	46.79	43.84	43.43	42.69	41.72	40.28	
Max			38.31	43.06	42.26	48.51	49.46	44.18	43.67	43.06	42.26	40.99	49.46
Min			36.86	37.21	39.03	41.22	43.80	43.65	43.07	42.28	41.05	39.56	36.86

Annual Max Momentary Gage Height 49.49 m. (MSL.) , at 17.00 Hours , on Oct 10 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 37.00 m. (MSL.)

Left Bank Elevation 51.91 m. (MSL.) ,

Right Bank Elevation 51.95 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1			3.15	5.60	79.25	139.45	436.80	174.80	17.80	4.30	0.48	0.00		
2			2.75	5.40	84.15	167.00	436.80	116.35	17.40	4.20	0.42	0.00		
3			2.30	5.90	78.55	182.50	457.95	77.00	17.40	4.05	0.42	0.00		
4			1.85	6.50	69.50	182.50	481.75	52.20	17.00	3.95	0.29	0.00		
5			0.00	5.60	63.50	175.00	498.75	43.20	17.00	3.85	0.27	0.00		
6			0.00	7.70	72.50	162.50	500.45	37.60	16.20	3.75	0.23	0.00		
7			0.00	53.60	59.90	146.20	509.30	33.40	15.80	3.65	0.21	0.00		
8			0.00	107.30	50.90	126.10	540.80	30.40	15.40	3.55	0.22	0.00		
9			0.00	110.10	77.15	104.50	553.40	46.00	14.70	3.50	0.19	0.00		
10			0.00	116.50	84.50	83.45	562.40	46.00	14.40	3.40	0.18	0.00		
11			0.00	120.10	70.70	68.60	561.50	39.00	14.10	3.30	0.15	0.00		
12			0.00	118.50	69.20	83.45	549.80	36.20	13.80	3.15	0.15	0.00		
13			0.00	117.30	59.30	189.00	530.00	32.00	13.50	3.00	0.10	0.00		
14			0.00	120.50	46.75	242.60	498.75	33.40	12.90	2.80	0.07	0.00		
15			0.00	126.50	42.00	254.60	465.60	28.00	12.00	2.65	0.07	0.00		
16			0.00	132.10	39.50	266.60	448.00	25.60	10.80	2.45	0.07	0.00		
17			0.00	137.20	35.00	269.60	401.00	26.40	9.90	2.35	0.06	0.00		
18			0.00	134.10	30.80	283.40	332.50	23.00	9.00	2.15	0.06	0.00		
19			0.00	116.90	26.80	294.80	289.40	22.50	8.60	2.00	0.05	0.00		
20			0.00	88.00	23.60	307.40	245.60	21.00	8.20	1.85	0.05	0.00		
21			0.00	69.80	22.00	335.75	208.00	20.50	7.60	1.70	0.05	0.00		
22			0.55	77.85	22.00	369.80	101.80	20.00	7.00	1.55	0.04	0.00		
23			3.05	102.50	20.25	389.75	30.40	19.50	6.40	1.40	0.04	0.00		
24			6.40	120.90	18.30	396.50	24.00	17.40	6.25	1.30	0.03	0.00		
25			9.10	103.70	17.25	452.00	24.80	17.40	5.95	1.15	0.02	0.00		
26			8.70	83.10	16.95	474.10	77.00	17.00	5.65	1.00	0.02	0.00		
27			8.40	73.40	16.95	478.35	89.40	17.00	5.30	0.92	0.01	0.00		
28			8.00	79.60	33.80	475.80	108.00	17.00	5.00	0.84	0.00	0.00		
29			6.50	73.70	46.25	459.65	158.10	17.80	4.70	0.76		0.00		
30			6.40	63.80	73.70	443.20	191.50	18.20	4.50	0.64		0.00		
31				67.10	104.90		191.50		4.35	0.54		0.00		
Total			67.15	2550.85	1555.90	8004.15	10505.05	1125.85	338.60	75.70	3.95	0.00	24227.20	CMSDAY
Mean			2.24	82.29	50.19	266.81	338.87	37.53	10.92	2.44	0.14	0.00	79.69	CMS
Max			9.10	137.20	104.90	478.35	562.40	174.80	17.80	4.30	0.48	0.00	562.40	CMS
Min			0.00	5.40	16.95	68.60	24.00	17.00	4.35	0.54	0.00	0.00	0.00	CMS
Runoff			5.80	220.39	134.43	691.56	907.64	97.27	29.26	6.54	0.34	0.00	2093.23	MCM

Momentary Peak 565.10 CMS. at 49.49 m. (MSL.) at 17.00 Hours , on Oct 10 , 2016

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

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Sao Hai , Saraburi (S.44)

Lat 14 - 32 - 48 N Long 100 - 53 - 25 E

Location : on right bank at Ban Sao Hai.

Ban Sao Hai **Amphoe** Sao Hai **Changwat** Saraburi

Drainge Area	- sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +16.762 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2014 to date
Rating Operation	
Period of Rating	2014 to date
Rated by Flot	-
Rated by Current Meter	2014 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

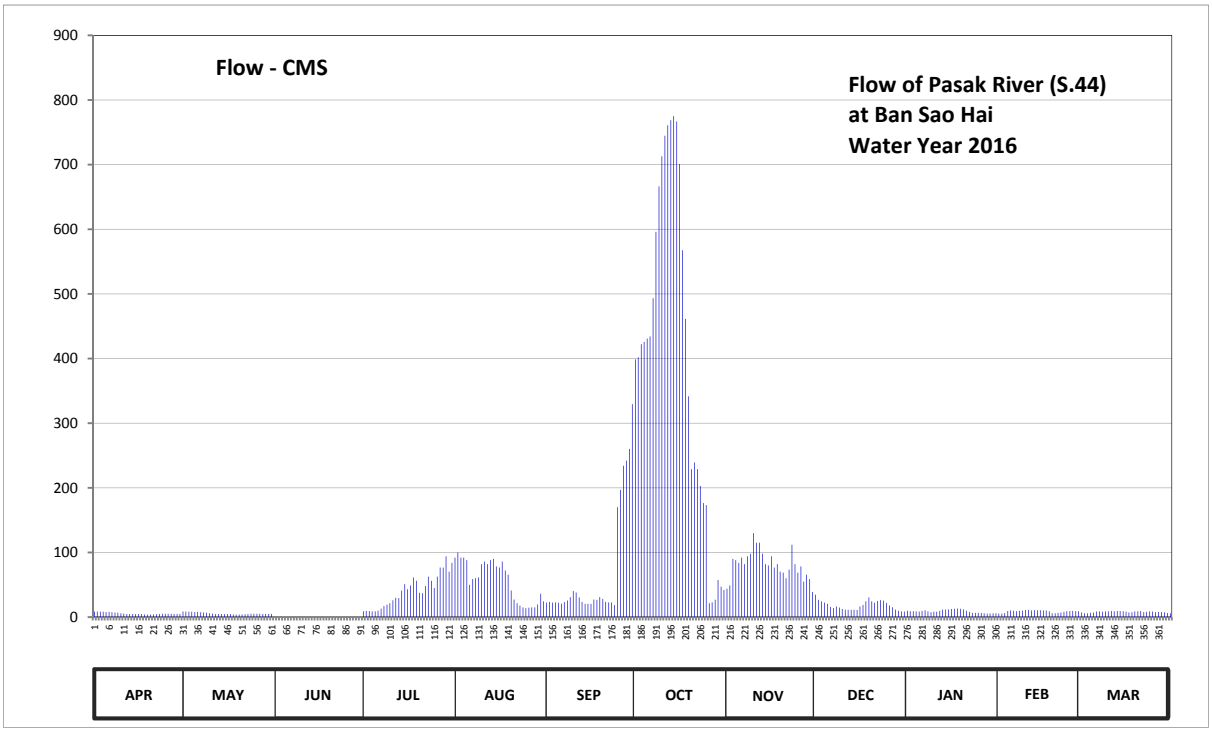
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.07	6.07		6.12	7.86	7.02	8.58	7.53	7.41	6.19	5.70	5.92	
2	6.06	6.06		6.17	7.90	7.08	8.60	7.58	7.22	6.11	5.68	5.80	
3	6.04	6.04		6.13	7.86	7.03	8.72	7.85	7.13	6.12	5.82	5.78	
4	6.04	6.04		6.09	7.86	7.04	8.74	7.84	7.02	6.09	6.13	5.86	
5	5.99	5.99		6.09	7.84	7.01	8.77	7.82	6.93	6.07	6.24	5.91	
6	6.01	6.01		6.19	7.59	6.94	8.79	7.86	6.65	6.16	6.19	6.06	
7	5.97	5.97		6.47	7.66	7.06	9.13	7.81	6.54	6.26	6.11	6.08	
8	5.91	5.91		6.74	7.67	7.19	9.68	7.87	6.70	6.10	6.16	6.05	
9	5.88	5.88		6.86	7.68	7.34	10.05	7.89	6.59	5.96	6.22	6.10	
10	5.78	5.78		6.97	7.81	7.49	10.29	8.00	6.44	6.03	6.30	6.10	
11	5.68	5.68		7.20	7.83	7.46	10.45	7.95	6.35	6.05	6.32	6.14	
12	5.56	5.56		7.32	7.81	7.33	10.53	7.95	6.30	6.16	6.23	6.09	
13	5.56	5.56		7.31	7.84	7.07	10.57	7.89	6.34	6.35	6.29	6.13	
14	5.56	5.56		7.50	7.85	6.93	10.60	7.81	6.34	6.39	6.27	6.13	
15	5.56	5.56		7.60	7.79	6.93	10.56	7.80	6.31	6.38	6.26	6.11	
16	5.55	5.55		7.52	7.78	6.93	10.23	7.87	6.68	6.44	6.25	6.05	
17	5.52	5.52		7.58	7.83	7.24	9.53	7.78	6.84	6.46	6.22	5.92	
18	5.46	5.46		7.68	7.75	7.22	8.95	7.81	7.12	6.49	6.10	5.97	
19	5.39	5.39		7.64	7.71	7.34	8.21	7.74	7.33	6.45	5.78	6.08	
20	5.37	5.37		7.45	7.50	7.27	7.40	7.73	7.12	6.38	5.77	6.09	
21	5.43	5.43		7.44	7.24	7.08	7.48	7.67	7.01	6.19	5.83	6.15	
22	5.50	5.50		7.57	6.98	7.04	7.40	7.76	7.15	6.01	5.91	5.97	
23	5.58	5.58		7.69	6.78	7.03	7.19	7.94	7.21	5.86	6.01	6.01	
24	5.63	5.63		7.64	6.60	6.83	6.96	7.81	7.18	5.86	6.12	6.09	
25	5.66	5.66		7.54	6.52	6.90	6.93	7.73	7.00	5.87	6.15	6.07	
26	5.66	5.66		7.69	6.57	7.14	6.98	7.79	6.80	5.85	6.17	5.97	
27	5.64	5.64		7.78	6.61	7.44	7.04	7.63	6.63	5.78	6.14	5.98	
28	5.61	5.61		7.78	6.61	7.50	7.23	7.71	6.37	5.71	6.12	5.97	
29	5.59	5.59		7.87	6.88	7.64	7.65	7.66	6.18	5.75		5.95	
30	5.58	5.59		7.74	7.43	8.13	7.56	7.47	6.09	5.76		5.84	
31		5.58		7.82	7.13		7.51		6.07	5.76		5.76	
Mean	5.69	5.69		7.20	7.44	7.19	8.66	7.78	6.74	6.10	6.09	6.00	
Max	6.07	6.07		7.87	7.90	8.13	10.60	8.00	7.41	6.49	6.32	6.15	10.60
Min	5.37	5.37		6.09	6.52	6.83	6.93	7.47	6.07	5.71	5.68	5.76	5.37

Annual Max Momentary Gage Height 10.62 m. (MSL.) , at 23.00 Hours , on Oct 13 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.30 m. (MSL)

Left Bank Elevation 16.50 m. (MSL.) ,

Right Bank Elevation 16.54 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.70	8.70		9.20	92.00	22.40	398.80	44.00	34.70	9.90	5.50	7.20	
2	8.60	8.60		9.70	100.00	23.60	402.00	49.00	26.60	9.10	5.40	6.00	
3	8.40	8.40		9.30	92.00	22.60	422.40	90.00	24.60	9.20	6.20	5.90	
4	8.40	8.40		8.90	92.00	22.80	425.80	88.00	22.40	8.90	9.30	6.60	
5	7.90	7.90		8.90	88.00	22.20	430.90	84.00	20.60	8.70	10.40	7.10	
6	8.10	8.10		9.90	50.00	20.80	434.30	92.00	15.75	9.60	9.90	8.60	
7	7.70	7.70		13.05	58.80	23.20	493.40	82.00	14.10	10.60	9.10	8.80	
8	7.10	7.10		17.10	60.10	25.80	596.20	94.00	16.50	9.00	9.60	8.50	
9	6.80	6.80		19.20	61.40	31.00	666.50	98.00	14.85	7.60	10.20	9.00	
10	5.90	5.90		21.40	82.00	40.30	713.00	130.00	12.60	8.30	11.00	9.00	
11	5.40	5.40		26.00	86.00	38.20	745.00	115.00	11.50	8.50	11.20	9.40	
12	4.80	4.80		30.00	82.00	30.50	761.00	115.00	11.00	9.60	10.30	8.90	
13	4.80	4.80		29.50	88.00	23.40	769.00	98.00	11.40	11.50	10.90	9.30	
14	4.80	4.80		41.00	90.00	20.60	775.00	82.00	11.40	11.90	10.70	9.30	
15	4.80	4.80		51.00	78.40	20.60	767.00	80.00	11.10	11.80	10.60	9.10	
16	4.75	4.75		43.00	76.80	20.60	701.00	94.00	16.20	12.60	10.50	8.50	
17	4.60	4.60		49.00	86.00	27.20	567.70	76.80	18.80	12.90	10.20	7.20	
18	4.30	4.30		61.40	72.00	26.60	461.50	82.00	24.40	13.35	9.00	7.70	
19	3.95	3.95		56.20	65.60	31.00	341.50	70.40	30.50	12.75	5.90	8.80	
20	3.85	3.85		37.50	41.00	28.10	229.00	68.80	24.40	11.80	5.85	8.90	
21	4.15	4.15		36.80	27.20	23.60	239.40	60.10	22.20	9.90	6.30	9.50	
22	4.50	4.50		48.00	21.60	22.80	229.00	73.60	25.00	8.10	7.10	7.70	
23	4.90	4.90		62.70	17.70	22.60	202.80	112.00	26.30	6.60	8.10	8.10	
24	5.15	5.15		56.20	15.00	18.60	176.60	82.00	25.60	6.60	9.20	8.90	
25	5.30	5.30		45.00	13.80	170.00	173.30	68.80	22.00	6.70	9.50	8.70	
26	5.30	5.30		62.70	14.55	196.80	21.60	78.40	18.00	6.50	9.70	7.70	
27	5.20	5.20		76.80	15.15	234.20	22.80	54.90	15.45	5.90	9.40	7.80	
28	5.05	5.05		76.80	15.15	242.00	26.90	65.60	11.70	5.55	9.20	7.70	
29	4.95	4.95		94.00	19.60	260.20	57.50	58.80	9.80	5.75		7.50	
30	4.90	4.95		70.40	36.10	329.50	47.00	38.90	8.90	5.80		6.40	
31		4.90		84.00	24.60		42.00		8.70	5.80		5.80	
Total	173.05	178.00		1264.65	1762.55	2041.80	12339.90	2426.10	567.05	280.80	250.25	249.60	21533.75	CMSDAY
Mean	5.77	5.74		40.80	56.86	68.06	398.06	80.87	18.29	9.06	8.94	8.05	64.28	CMS
Max	8.70	8.70		94.00	100.00	329.50	775.00	130.00	34.70	13.35	11.20	9.50	775.00	CMS
Min	3.85	3.85		8.90	13.80	18.60	21.60	38.90	8.70	5.55	5.40	5.80	3.85	CMS
Runoff	14.95	15.38		109.27	152.28	176.41	1066.17	209.62	48.99	24.26	21.62	21.57	1860.52	MCM

Momentary Peak 779.00 CMS. at 10.62 m. (MSL.) at 23.00 Hours , on Oct 13 , 2016

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

WATER YEAR : 2016

PASAK RIVER BASIN

Huai Leng at Ban Wang Tian , Phetchabun (S.45)

Lat - - N Long - - E

Location : on left bank at the bridge.

Ban Wang Tian **Amphoe** Wichian Buri **Changwat** Phetchabun

Drainge Area	- sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+95.875 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +103.031 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2016 to date
Rating Operation	
Period of Rating	2016 to date
Rated by Flot	-
Rated by Current Meter	2016 to date
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

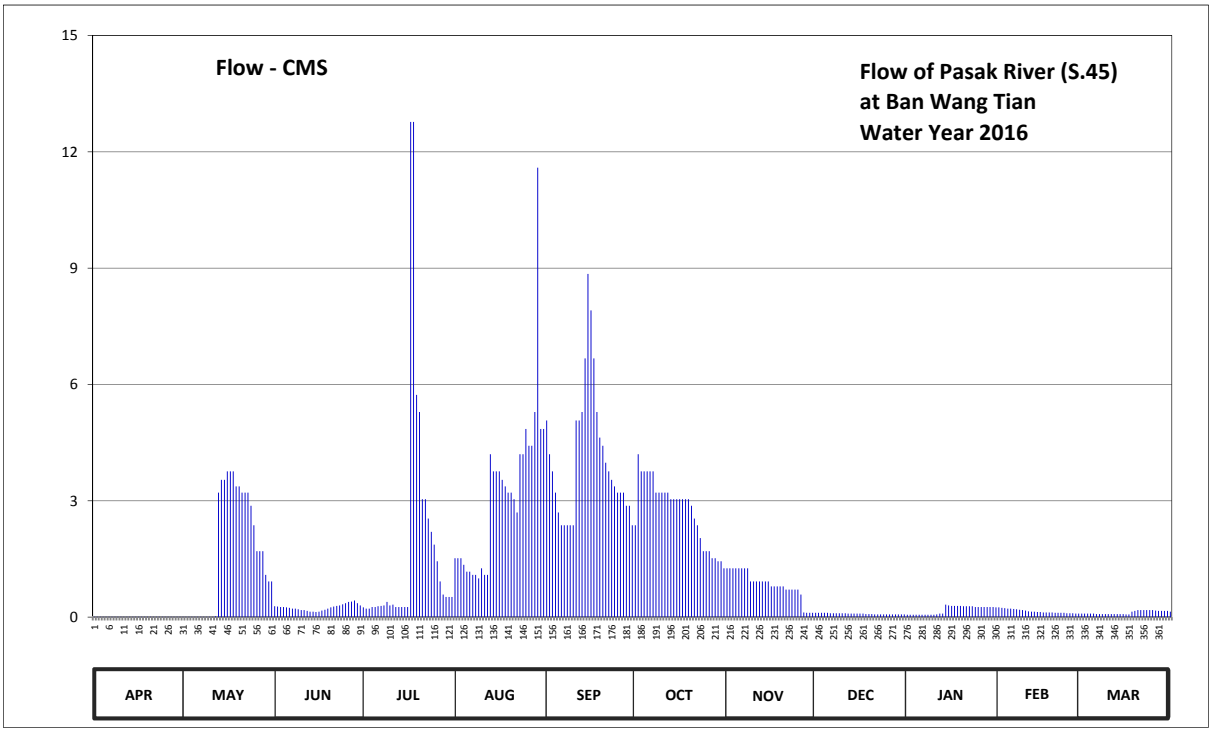
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	96.71	96.68	97.30	97.26	97.26	97.47	97.33	97.23	97.08	96.97	97.26	97.03	
2	96.71	96.68	97.29	97.23	97.26	97.43	97.43	97.23	97.08	96.97	97.25	97.03	
3	96.71	96.68	97.28	97.23	97.26	97.41	97.41	97.23	97.08	96.97	97.24	97.03	
4	96.71	96.68	97.27	97.28	97.24	97.38	97.41	97.23	97.08	96.97	97.23	97.03	
5	96.71	96.68	97.26	97.28	97.22	97.35	97.41	97.23	97.08	96.97	97.22	97.03	
6	96.71	96.68	97.25	97.30	97.22	97.33	97.41	97.23	97.06	96.96	97.21	97.02	
7	96.71	96.68	97.23	97.31	97.21	97.33	97.41	97.23	97.06	96.96	97.20	97.02	
8	96.71	96.68	97.22	97.32	97.21	97.33	97.38	97.23	97.06	96.96	97.19	97.02	
9	96.71	96.68	97.20	97.39	97.20	97.33	97.38	97.18	97.05	96.96	97.18	97.02	
10	96.71	96.68	97.18	97.32	97.23	97.33	97.38	97.18	97.05	96.96	97.16	97.01	
11	96.71	96.68	97.17	97.33	97.21	97.47	97.38	97.18	97.05	96.98	97.14	97.01	
12	96.71	96.73	97.15	97.28	97.21	97.47	97.38	97.18	97.03	97.03	97.13	97.01	
13	96.71	97.38	97.13	97.28	97.43	97.48	97.37	97.18	97.03	97.03	97.12	97.01	
14	96.71	97.40	97.12	97.28	97.41	97.53	97.37	97.18	97.03	97.33	97.11	97.01	
15	96.71	97.40	97.11	97.28	97.41	97.60	97.37	97.18	97.03	97.32	97.11	97.01	
16	96.71	97.41	97.12	97.28	97.41	97.57	97.37	97.15	97.03	97.31	97.10	97.00	
17	96.71	97.41	97.16	97.70	97.40	97.53	97.37	97.15	97.03	97.31	97.10	97.00	
18	96.71	97.41	97.19	97.70	97.39	97.48	97.37	97.15	97.01	97.31	97.09	97.13	
19	96.71	97.39	97.23	97.50	97.38	97.45	97.37	97.15	97.01	97.31	97.09	97.15	
20	96.71	97.39	97.26	97.48	97.38	97.44	97.36	97.15	97.01	97.30	97.08	97.18	
21	96.71	97.38	97.29	97.37	97.37	97.42	97.34	97.13	97.00	97.30	97.08	97.18	
22	96.71	97.38	97.31	97.37	97.35	97.41	97.33	97.13	97.00	97.30	97.07	97.18	
23	96.71	97.38	97.32	97.34	97.43	97.40	97.31	97.13	97.00	97.30	97.07	97.18	
24	96.71	97.36	97.34	97.32	97.43	97.39	97.28	97.13	97.00	97.28	97.06	97.18	
25	96.71	97.33	97.37	97.30	97.46	97.38	97.28	97.13	96.99	97.28	97.06	97.17	
26	96.71	97.28	97.39	97.25	97.44	97.38	97.28	97.10	96.99	97.28	97.05	97.16	
27	96.71	97.28	97.40	97.18	97.44	97.38	97.26	97.09	96.99	97.28	97.04	97.15	
28	96.71	97.28	97.42	97.10	97.48	97.36	97.26	97.08	96.98	97.28	97.03	97.15	
29	96.71	97.21	97.37	97.08	97.67	97.36	97.25	97.08	96.98	97.28		97.15	
30	96.71	97.18	97.32	97.08	97.46	97.33	97.25	97.08	96.98	97.27		97.15	
31		97.18		97.08	97.46		97.23		96.98	97.26		97.13	
Mean	96.71	97.09	97.26	97.31	97.35	97.42	97.35	97.16	97.03	97.16	97.13	97.08	
Max	96.71	97.41	97.42	97.70	97.67	97.60	97.43	97.23	97.08	97.33	97.26	97.18	97.70
Min	96.71	96.68	97.11	97.08	97.20	97.33	97.23	97.08	96.98	96.96	97.03	97.00	96.68

Annual Max Momentary Gage Height 97.70 m. (MSL.) , at 06.00 Hours , on Jul 17 , 2016

Zero Gage at Bottom Elevation 95.87 m. (MSL.) , River Bed m. (MSL.)

Left Bank Elevation 102.18 m. (MSL.) ,

Right Bank Elevation 102.16 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	0.01	0.28	0.25	1.52	5.07	2.37	1.26	0.11	0.06	0.25	0.09		
2	0.01	0.01	0.27	0.22	1.52	4.20	4.20	1.26	0.11	0.06	0.24	0.09		
3	0.01	0.01	0.26	0.22	1.52	3.76	3.76	1.26	0.11	0.06	0.23	0.09		
4	0.01	0.01	0.26	0.26	1.35	3.21	3.76	1.26	0.11	0.06	0.22	0.09		
5	0.01	0.01	0.25	0.26	1.17	2.70	3.76	1.26	0.11	0.06	0.22	0.09		
6	0.01	0.01	0.24	0.28	1.17	2.37	3.76	1.26	0.10	0.06	0.21	0.08		
7	0.01	0.01	0.22	0.29	1.09	2.37	3.76	1.26	0.10	0.06	0.20	0.08		
8	0.01	0.01	0.22	0.30	1.09	2.37	3.21	1.26	0.10	0.06	0.19	0.08		
9	0.01	0.01	0.20	0.39	1.00	2.37	3.21	0.92	0.10	0.06	0.18	0.08		
10	0.01	0.01	0.18	0.30	1.26	2.37	3.21	0.92	0.10	0.06	0.17	0.08		
11	0.01	0.01	0.18	0.32	1.09	5.07	3.21	0.92	0.10	0.07	0.15	0.08		
12	0.01	0.02	0.16	0.26	1.09	5.07	3.21	0.92	0.09	0.09	0.14	0.08		
13	0.01	3.21	0.14	0.26	4.20	5.29	3.04	0.92	0.09	0.09	0.14	0.08		
14	0.01	3.54	0.14	0.26	3.76	6.67	3.04	0.92	0.09	0.32	0.13	0.08		
15	0.01	3.54	0.13	0.26	3.76	8.85	3.04	0.92	0.09	0.30	0.13	0.08		
16	0.01	3.76	0.14	0.26	3.76	7.91	3.04	0.79	0.09	0.29	0.12	0.07		
17	0.01	3.76	0.17	12.77	3.54	6.67	3.04	0.79	0.09	0.29	0.12	0.07		
18	0.01	3.76	0.19	12.77	3.37	5.29	3.04	0.79	0.08	0.29	0.12	0.14		
19	0.01	3.37	0.22	5.73	3.21	4.63	3.04	0.79	0.08	0.29	0.12	0.16		
20	0.01	3.37	0.25	5.29	3.21	4.42	2.87	0.79	0.08	0.28	0.11	0.18		
21	0.01	3.21	0.27	3.04	3.04	3.98	2.54	0.71	0.07	0.28	0.11	0.18		
22	0.01	3.21	0.29	3.04	2.70	3.76	2.37	0.71	0.07	0.28	0.11	0.18		
23	0.01	3.21	0.30	2.54	4.20	3.54	2.04	0.71	0.07	0.28	0.11	0.18		
24	0.01	2.87	0.33	2.20	4.20	3.37	1.70	0.71	0.07	0.26	0.10	0.18		
25	0.01	2.37	0.36	1.87	4.85	3.21	1.70	0.71	0.07	0.26	0.10	0.18		
26	0.01	1.70	0.39	1.44	4.42	3.21	1.70	0.58	0.07	0.26	0.10	0.17		
27	0.01	1.70	0.40	0.92	4.42	3.21	1.52	0.12	0.07	0.26	0.09	0.16		
28	0.01	1.70	0.43	0.58	5.29	2.87	1.52	0.11	0.07	0.26	0.09	0.16		
29	0.01	1.09	0.36	0.52	11.59	2.87	1.44	0.11	0.07	0.26		0.16		
30	0.01	0.92	0.30	0.52	4.85	2.37	1.44	0.11	0.07	0.26		0.16		
31		0.92		0.52	4.85		1.26		0.07	0.25		0.14		
Total	0.30	51.34	7.53	58.14	98.09	123.05	84.80	25.05	2.70	5.82	4.20	3.72	464.74	CMSDAY
Mean	0.01	1.66	0.25	1.88	3.16	4.10	2.74	0.83	0.09	0.19	0.15	0.12	1.27	CMS
Max	0.01	3.76	0.43	12.77	11.59	8.85	4.20	1.26	0.11	0.32	0.25	0.18	12.77	CMS
Min	0.01	0.01	0.13	0.22	1.00	2.37	1.26	0.11	0.07	0.06	0.09	0.07	0.01	CMS
Runoff	0.03	4.44	0.65	5.02	8.47	10.63	7.33	2.16	0.23	0.50	0.36	0.32	40.15	MCM

Momentary Peak 12.77 CMS. at 97.70 m. (MSL.) at 06.00 Hours , on Jul 17 , 2016

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

WATER YEAR : 2016

THA CHIN BASIN

Upper Huai Kra Sieo at Ban Pha Thang, Uthai Thani (T.11)

Lat 15 - 06 - 13 N Long 99 - 32 - 16 E

Location : on left bank at Ban Pha Thang

Ban Pha Thang **Amphoe** Ban Rai **Changwat** Uthai Thani

Drainge Area	355 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the bridge **Elevation** +134.608 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

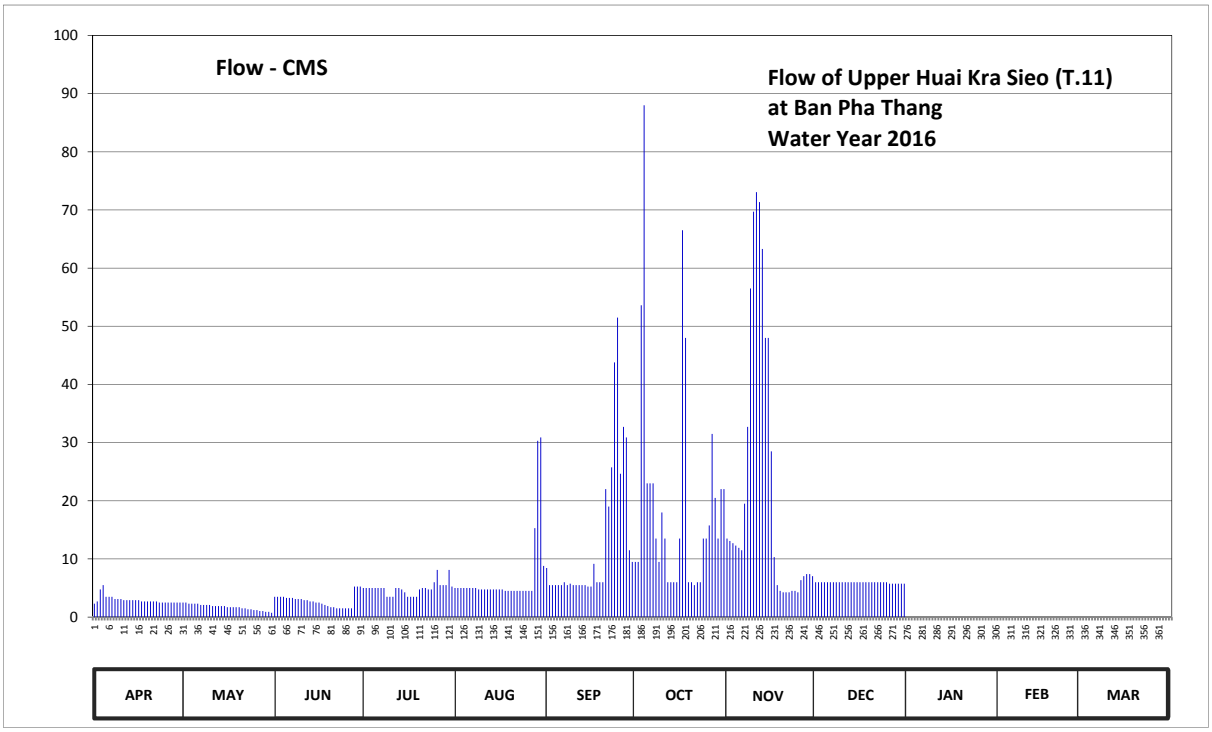
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.04	129.05	129.10	129.16	129.16	129.27	129.30	129.40	129.20	127.95	128.18	128.18	
2	129.06	129.05	129.10	129.16	129.16	129.18	129.30	129.39	129.20	127.95	128.18	128.18	
3	129.15	129.04	129.10	129.16	129.16	129.18	130.08	129.38	129.20	127.95	128.18	128.18	
4	129.18	129.04	129.10	129.16	129.16	129.18	130.50	129.37	129.20	127.95	128.18	128.18	
5	129.10	129.04	129.09	129.16	129.16	129.18	129.60	129.36	129.20	127.95	128.17	128.17	
6	129.10	129.04	129.09	129.16	129.16	129.18	129.60	129.35	129.20	127.95	128.17	128.17	
7	129.10	129.03	129.09	129.16	129.16	129.20	129.60	129.53	129.20	127.95	128.17	128.17	
8	129.08	129.03	129.08	129.16	129.16	129.18	129.40	129.77	129.20	127.95	128.17	128.17	
9	129.08	129.03	129.08	129.10	129.15	129.19	129.30	130.12	129.20	127.95	128.17	128.17	
10	129.08	129.03	129.08	129.10	129.15	129.18	129.50	130.29	129.20	127.95	128.17	128.17	
11	129.07	129.02	129.07	129.10	129.15	129.18	129.40	130.33	129.20	127.95	128.16	128.16	
12	129.07	129.02	129.07	129.16	129.15	129.18	129.20	130.31	129.20	127.95	128.16	128.16	
13	129.07	129.02	129.06	129.16	129.15	129.18	129.20	130.21	129.20	127.95	128.16	128.16	
14	129.07	129.02	129.06	129.15	129.15	129.18	129.20	130.00	129.20	127.95	128.16	128.16	
15	129.07	129.02	129.05	129.13	129.15	129.17	129.20	130.00	129.20	127.95	128.16	128.16	
16	129.07	129.01	129.05	129.10	129.15	129.17	129.40	129.70	129.20	127.95	128.16	128.16	
17	129.06	129.01	129.04	129.10	129.15	129.29	130.25	129.32	129.20	127.95	128.16	128.16	
18	129.06	129.01	129.03	129.10	129.14	129.20	130.00	129.18	129.20	127.95	128.16	128.16	
19	129.06	129.01	129.02	129.10	129.14	129.20	129.20	129.14	129.20	127.95	128.16	128.16	
20	129.06	129.01	129.01	129.15	129.14	129.20	129.20	129.13	129.20	127.95	128.15	128.15	
21	129.06	129.00	129.01	129.16	129.14	129.58	129.18	129.13	129.20	127.95	128.15	128.15	
22	129.06	129.00	129.00	129.16	129.14	129.52	129.20	129.13	129.20	128.35	128.15	128.15	
23	129.05	128.99	129.00	129.15	129.14	129.65	129.20	129.14	129.20	128.35	128.15	128.15	
24	129.05	128.99	129.00	129.15	129.14	129.94	129.40	129.14	129.20	128.35	128.15	128.15	
25	129.05	128.98	129.00	129.20	129.14	130.05	129.40	129.13	129.20	128.34	128.15	128.15	
26	129.05	128.98	129.00	129.26	129.14	129.63	129.45	129.21	129.19	128.34	128.15	128.15	
27	129.05	128.97	129.00	129.18	129.14	129.77	129.75	129.23	129.19	128.34	128.15	128.15	
28	129.05	128.97	129.17	129.18	129.44	129.74	129.55	129.24	129.19	128.33	128.15	128.15	
29	129.05	128.96	129.17	129.18	129.73	129.35	129.40	129.24	129.19	128.33		128.15	
30	129.05	128.96	129.17	129.26	129.74	129.30	129.58	129.23	129.19	128.33		128.15	
31		128.95		129.17	129.28		129.58		129.19	128.33		128.15	
Mean	129.07	129.01	129.06	129.15	129.20	129.35	129.49	129.50	129.20	128.08	128.16	128.16	
Max	129.18	129.05	129.17	129.26	129.74	130.05	130.50	130.33	129.20	128.35	128.18	128.18	130.50
Min	129.04	128.95	129.00	129.10	129.14	129.17	129.18	129.13	129.19	127.95	128.15	128.15	127.95

Annual Max Momentary Gage Height 130.50 m. (MSL.) , at 06.00 Hours , on Oct 4 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 128.06 M (MSL)

Left Bank Elevation 134.56 m. (MSL.) ,

Right Bank Elevation 134.55 m. (MSL.) , Drainage Are 355 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.30	2.50	3.50	5.00	5.00	8.45	9.50	13.50	6.00	0.00	0.00	0.00		
2	2.70	2.50	3.50	5.00	5.00	5.50	9.50	13.10	6.00	0.00	0.00	0.00		
3	4.75	2.30	3.50	5.00	5.00	5.50	53.60	12.70	6.00	0.00	0.00	0.00		
4	5.50	2.30	3.50	5.00	5.00	5.50	88.00	12.30	6.00	0.00	0.00	0.00		
5	3.50	2.30	3.30	5.00	5.00	5.50	23.00	11.90	6.00	0.00	0.00	0.00		
6	3.50	2.30	3.30	5.00	5.00	5.50	23.00	11.50	6.00	0.00	0.00	0.00		
7	3.50	2.10	3.30	5.00	5.00	6.00	23.00	19.50	6.00	0.00	0.00	0.00		
8	3.10	2.10	3.10	5.00	5.00	5.50	13.50	32.70	6.00	0.00	0.00	0.00		
9	3.10	2.10	3.10	3.50	4.75	5.75	9.50	56.50	6.00	0.00	0.00	0.00		
10	3.10	2.10	3.10	3.50	4.75	5.50	18.00	69.70	6.00	0.00	0.00	0.00		
11	2.90	1.90	2.90	3.50	4.75	5.50	13.50	73.05	6.00	0.00	0.00	0.00		
12	2.90	1.90	2.90	5.00	4.75	5.50	6.00	71.35	6.00	0.00	0.00	0.00		
13	2.90	1.90	2.70	5.00	4.75	5.50	6.00	63.30	6.00	0.00	0.00	0.00		
14	2.90	1.90	2.70	4.75	4.75	5.50	6.00	48.00	6.00	0.00	0.00	0.00		
15	2.90	1.90	2.50	4.25	4.75	5.25	6.00	48.00	6.00	0.00	0.00	0.00		
16	2.90	1.70	2.50	3.50	4.75	5.25	13.50	28.50	6.00	0.00	0.00	0.00		
17	2.70	1.70	2.30	3.50	4.75	9.15	66.50	10.30	6.00	0.00	0.00	0.00		
18	2.70	1.70	2.10	3.50	4.50	6.00	48.00	5.50	6.00	0.00	0.00	0.00		
19	2.70	1.70	1.90	3.50	4.50	6.00	6.00	4.50	6.00	0.00	0.00	0.00		
20	2.70	1.70	1.70	4.75	4.50	6.00	6.00	4.25	6.00	0.00	0.00	0.00		
21	2.70	1.50	1.70	5.00	4.50	22.00	5.50	4.25	6.00	0.00	0.00	0.00		
22	2.70	1.50	1.50	5.00	4.50	19.00	6.00	4.25	6.00	0.00	0.00	0.00		
23	2.50	1.35	1.50	4.75	4.50	25.75	6.00	4.50	6.00	0.00	0.00	0.00		
24	2.50	1.35	1.50	4.75	4.50	43.80	13.50	4.50	6.00	0.00	0.00	0.00		
25	2.50	1.20	1.50	6.00	4.50	51.50	13.50	4.25	6.00	0.00	0.00	0.00		
26	2.50	1.20	1.50	8.10	4.50	24.65	15.75	6.35	5.75	0.00	0.00	0.00		
27	2.50	1.05	1.50	5.50	4.50	32.70	31.50	7.05	5.75	0.00	0.00	0.00		
28	2.50	1.05	5.25	5.50	15.30	30.90	20.50	7.40	5.75	0.00	0.00	0.00		
29	2.50	0.90	5.25	5.50	30.30	11.50	13.50	7.40	5.75	0.00		0.00		
30	2.50	0.90	5.25	8.10	30.90	9.50	22.00	7.05	5.75	0.00		0.00		
31		0.75		5.25	8.80		22.00		5.75	0.00		0.00		
Total	88.65	53.35	83.85	151.70	213.05	389.65	617.85	667.15	184.50	0.00	0.00	0.00	2449.75	CMSDAY
Mean	2.96	1.72	2.80	4.89	6.87	12.99	19.93	22.24	5.95	0.00	0.00	0.00	6.71	CMS
Max	5.50	2.50	5.25	8.10	30.90	51.50	88.00	73.05	6.00	0.00	0.00	0.00	88.00	CMS
Min	2.30	0.75	1.50	3.50	4.50	5.25	5.50	4.25	5.75	0.00	0.00	0.00	0.00	CMS
Runoff	7.66	4.61	7.24	13.11	18.41	33.67	53.38	57.64	15.94	0.00	0.00	0.00	211.66	MCM

Momentary Peak 88.00 CMS. at 130.50 m. (MSL.) at 06.00 Hours , on Oct 4 , 2016

Runoff Yield 18.91 Liters/Second/Square KM. Momentary Peak Yield 247.920 Liters/Second/Square KM.

WATER YEAR : 2016

THA CHIN BASIN

Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

	Ban	Thap Man	**Amphoe**	Dan Chang	**Changwat** Suphan Buri
Drainge Area	686	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the bridge				**Elevation** +103.545 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2006 to date				
Rating Operation					
Period of Rating	2006 to date				
Rated by Flot	-				
Rated by Current Meter	2006 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

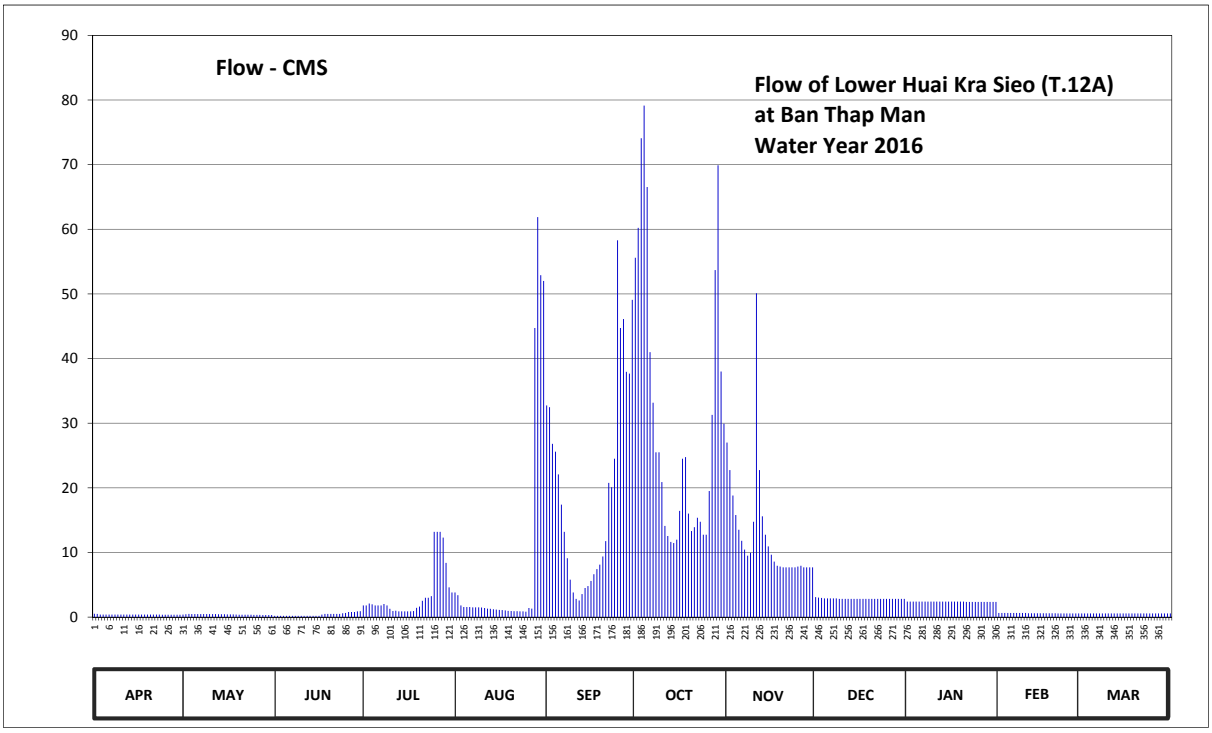
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.66	97.60	97.50	98.10	98.40	99.99	100.40	99.48	98.10	98.00	97.61	97.61	
2	97.65	97.62	97.50	98.10	98.35	99.98	100.52	99.31	98.09	98.00	97.61	97.61	
3	97.60	97.65	97.50	98.15	98.10	99.75	100.85	99.14	98.08	98.00	97.61	97.61	
4	97.60	97.64	97.50	98.13	98.04	99.70	100.97	99.00	98.07	98.00	97.61	97.61	
5	97.60	97.64	97.50	98.10	98.04	99.54	100.67	98.89	98.07	98.00	97.61	97.61	
6	97.60	97.64	97.50	98.10	98.04	99.32	99.98	98.80	98.07	98.00	97.61	97.61	
7	97.60	97.64	97.50	98.10	98.03	99.10	99.71	98.72	98.07	98.00	97.61	97.61	
8	97.60	97.64	97.50	98.14	98.03	98.85	99.42	98.66	98.07	98.00	97.61	97.61	
9	97.60	97.63	97.50	98.10	98.03	98.60	99.42	98.69	98.06	98.00	97.61	97.61	
10	97.60	97.63	97.50	97.97	98.02	98.40	99.23	98.95	98.06	98.00	97.61	97.61	
11	97.60	97.63	97.50	97.87	98.00	98.27	98.92	100.25	98.06	98.00	97.60	97.60	
12	97.60	97.63	97.50	97.90	97.98	98.23	98.84	99.31	98.06	98.00	97.60	97.60	
13	97.60	97.62	97.50	97.85	97.97	98.37	98.79	98.99	98.06	98.00	97.60	97.60	
14	97.60	97.62	97.50	97.85	97.95	98.47	98.78	98.85	98.06	98.00	97.60	97.60	
15	97.60	97.62	97.50	97.84	97.94	98.50	98.81	98.75	98.06	98.00	97.60	97.60	
16	97.60	97.61	97.50	97.84	97.93	98.58	99.03	98.67	98.06	98.00	97.60	97.60	
17	97.60	97.61	97.53	97.84	97.92	98.67	99.38	98.60	98.06	98.00	97.60	97.60	
18	97.60	97.61	97.63	97.87	97.91	98.73	99.39	98.55	98.06	98.00	97.60	97.60	
19	97.60	97.60	97.63	98.01	97.88	98.78	99.01	98.54	98.06	98.00	97.60	97.60	
20	97.60	97.59	97.65	98.06	97.87	98.87	98.88	98.53	98.06	98.00	97.60	97.60	
21	97.60	97.59	97.65	98.22	97.86	99.02	98.91	98.53	98.06	97.99	97.59	97.59	
22	97.60	97.58	97.65	98.30	97.86	99.48	98.98	98.53	98.06	97.99	97.59	97.59	
23	97.60	97.58	97.64	98.30	97.85	99.45	98.95	98.53	98.06	97.99	97.59	97.59	
24	97.59	97.58	97.70	98.33	97.85	99.65	98.85	98.53	98.06	97.99	97.59	97.59	
25	97.59	97.57	97.72	99.10	97.82	100.91	98.85	98.54	98.06	97.99	97.59	97.59	
26	97.59	97.57	97.81	99.13	98.00	100.44	99.17	98.55	98.06	97.99	97.59	97.59	
27	97.58	97.57	97.81	99.10	97.98	100.49	99.64	98.53	98.06	97.99	97.59	97.59	
28	97.58	97.56	97.81	99.05	100.44	100.19	100.35	98.53	98.06	97.99	97.59	97.59	
29	97.58	97.56	97.84	98.80	101.03	100.18	100.75	98.53	98.06	97.99		97.59	
30	97.58	97.56	97.87	98.48	100.73	100.22	99.88	98.53	98.06	97.99		97.59	
31		97.56		98.40	100.70		99.59		98.06	97.99		97.59	
Mean	97.60	97.60	97.60	98.23	98.34	99.29	99.51	98.80	98.06	98.00	97.60	97.60	
Max	97.66	97.65	97.87	99.13	101.03	100.91	100.97	100.25	98.10	98.00	97.61	97.61	101.03
Min	97.58	97.56	97.50	97.84	97.82	98.23	98.78	98.53	98.06	97.99	97.59	97.59	97.50

Annual Max Momentary Gage Height 101.19 m. (MSL.) , at 12.00 Hours , on Aug 29 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 97.30 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.40	0.20	1.80	3.80	32.74	55.60	27.00	3.10	2.40	0.63	0.57	
2	0.50	0.44	0.20	1.80	3.40	32.48	60.24	22.75	3.03	2.40	0.63	0.57	
3	0.40	0.50	0.20	2.10	1.80	26.80	74.10	18.82	2.96	2.40	0.63	0.57	
4	0.40	0.48	0.20	1.98	1.56	25.60	79.14	15.80	2.89	2.40	0.63	0.57	
5	0.40	0.48	0.20	1.80	1.56	22.08	66.54	13.51	2.89	2.40	0.63	0.57	
6	0.40	0.48	0.20	1.80	1.56	17.40	41.00	11.80	2.89	2.40	0.63	0.57	
7	0.40	0.48	0.20	1.80	1.52	13.20	33.17	10.44	2.89	2.40	0.63	0.57	
8	0.40	0.48	0.20	2.04	1.52	9.10	25.50	9.50	2.89	2.40	0.63	0.57	
9	0.40	0.46	0.20	1.80	1.52	5.80	25.50	9.95	2.82	2.40	0.63	0.57	
10	0.40	0.46	0.20	1.28	1.48	3.80	20.89	14.75	2.82	2.40	0.63	0.57	
11	0.40	0.46	0.20	0.94	1.40	2.82	14.12	50.10	2.82	2.40	0.60	0.57	
12	0.40	0.46	0.20	1.00	1.32	2.58	12.56	22.75	2.82	2.40	0.60	0.57	
13	0.40	0.44	0.20	0.90	1.28	3.56	11.63	15.59	2.82	2.40	0.60	0.57	
14	0.40	0.44	0.20	0.90	1.20	4.50	11.46	12.75	2.82	2.40	0.60	0.57	
15	0.40	0.44	0.20	0.88	1.16	4.80	11.99	10.95	2.82	2.40	0.60	0.57	
16	0.40	0.42	0.20	0.88	1.12	5.60	16.43	9.65	2.82	2.40	0.60	0.57	
17	0.40	0.42	0.40	0.88	1.08	6.64	24.50	8.60	2.82	2.40	0.60	0.57	
18	0.40	0.42	0.50	0.94	1.04	7.42	24.75	7.95	2.82	2.40	0.60	0.57	
19	0.40	0.40	0.50	1.44	0.96	8.12	16.01	7.82	2.82	2.40	0.60	0.57	
20	0.40	0.38	0.50	1.64	0.94	9.38	13.32	7.69	2.82	2.40	0.60	0.57	
21	0.40	0.38	0.50	2.52	0.92	11.76	13.91	7.69	2.82	2.35	0.57	0.57	
22	0.40	0.36	0.50	3.00	0.92	20.76	15.38	7.69	2.82	2.35	0.57	0.57	
23	0.40	0.36	0.50	3.00	0.90	20.10	14.75	7.69	2.82	2.35	0.57	0.57	
24	0.38	0.36	0.60	3.24	0.90	24.50	12.75	7.69	2.82	2.35	0.57	0.57	
25	0.38	0.34	0.64	13.20	0.84	58.30	12.75	7.82	2.82	2.35	0.57	0.57	
26	0.38	0.34	0.80	13.20	1.40	44.72	19.51	7.95	2.82	2.35	0.57	0.57	
27	0.36	0.34	0.80	13.20	1.32	46.12	31.28	7.69	2.82	2.35	0.57	0.57	
28	0.36	0.32	0.80	12.30	44.72	37.94	53.70	7.69	2.82	2.35	0.57	0.57	
29	0.36	0.32	0.88	8.40	61.90	37.68	69.90	7.69	2.82	2.35		0.57	
30	0.36	0.32	0.92	4.60	52.90	49.08	38.00	7.69	2.82	2.35		0.57	
31		0.32		3.80	52.00		29.93		2.82	2.35		0.57	
Total	12.00	12.70	12.04	109.06	249.94	595.38	950.31	385.46	88.40	73.85	16.86	17.67	2523.67 CMSDAY
Mean	0.40	0.41	0.40	3.52	8.06	19.85	30.66	12.85	2.85	2.38	0.60	0.57	6.91 CMS
Max	0.52	0.50	0.92	13.20	61.90	58.30	79.14	50.10	3.10	2.40	0.63	0.57	79.14 CMS
Min	0.36	0.32	0.20	0.88	0.84	2.58	11.46	7.69	2.82	2.35	0.57	0.57	0.20 CMS
Runoff	1.04	1.10	1.04	9.42	21.59	51.44	82.11	33.30	7.64	6.38	1.46	1.53	218.05 MCM

Momentary Peak 79.56 CMS. at 101.19 m. (MSL.) at 12.00 Hours , on Aug 29 , 2016

Runoff Yield 10.07 Liters/Second/Square KM. Momentary Peak Yield 115.890 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Lum Sum , Kanchanaburi (K.10)

Lat 14 - 05 - 38 N Long 99 - 10 - 40 E

Location : on left bank about 100 meters upstream from Ban Lum Sum railway station

Ban Lum Sum **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	6,991 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+30.400 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +52.057 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 to date
Rated by Flot	-
Rated by Current Meter	1965 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam.
	Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

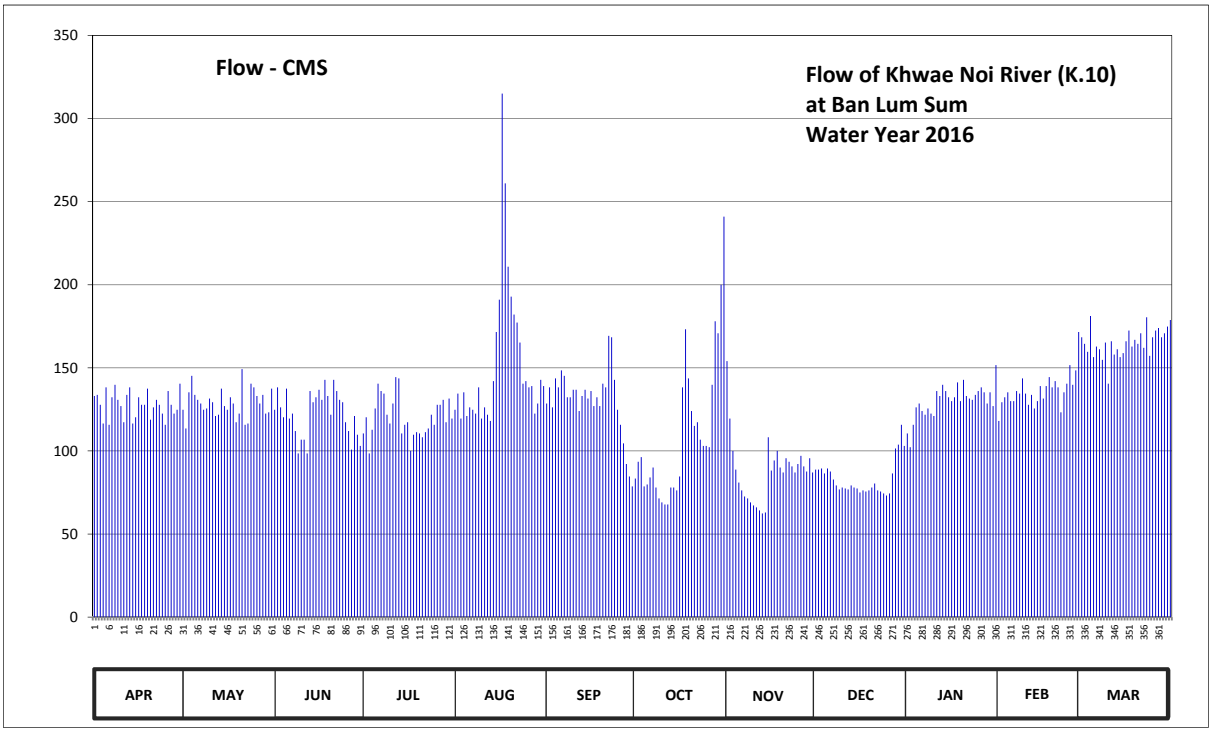
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.58	32.47	32.47	32.28	32.47	32.52	31.89	32.85	31.98	32.28	32.38	33.03	
2	32.59	32.32	32.65	32.41	32.60	32.65	32.05	32.40	31.98	32.17	32.53	32.98	
3	32.51	32.61	32.49	32.12	32.40	32.49	32.09	32.14	31.99	32.35	32.57	32.92	
4	32.36	32.74	32.41	32.31	32.61	32.72	31.81	31.98	31.94	32.49	32.61	33.19	
5	32.65	32.59	32.64	32.48	32.42	32.65	31.83	31.85	31.99	32.52	32.54	32.88	
6	32.35	32.55	32.40	32.68	32.49	32.78	31.90	31.77	31.96	32.46	32.54	32.96	
7	32.57	32.52	32.44	32.62	32.47	32.74	32.00	31.71	31.88	32.43	32.62	32.94	
8	32.67	32.47	32.30	32.60	32.44	32.57	31.80	31.69	31.82	32.48	32.60	32.86	
9	32.55	32.48	32.12	32.43	32.65	32.57	31.69	31.65	31.78	32.44	32.72	32.99	
10	32.50	32.56	32.23	32.36	32.40	32.63	31.65	31.62	31.80	32.42	32.60	32.68	
11	32.37	32.53	32.23	32.52	32.49	32.63	31.63	31.60	31.79	32.62	32.51	33.00	
12	32.59	32.42	32.12	32.73	32.43	32.46	31.63	31.57	31.78	32.58	32.59	32.90	
13	32.65	32.43	32.62	32.72	32.38	32.58	31.80	31.54	31.82	32.67	32.48	32.94	
14	32.36	32.64	32.53	32.28	32.70	32.63	31.80	31.55	31.80	32.62	32.54	32.88	
15	32.41	32.50	32.57	32.35	33.07	32.56	31.77	32.25	31.79	32.57	32.66	32.91	
16	32.57	32.47	32.63	32.37	33.30	32.62	31.91	31.97	31.75	32.54	32.56	33.00	
17	32.51	32.57	32.55	32.14	34.57	32.50	32.65	32.06	31.77	32.57	32.66	33.08	
18	32.51	32.52	32.71	32.27	34.03	32.57	33.09	32.14	31.76	32.69	32.73	32.96	
19	32.64	32.37	32.58	32.29	33.52	32.50	32.72	32.00	31.77	32.54	32.65	33.01	
20	32.39	32.44	32.43	32.28	33.32	32.68	32.46	31.95	31.80	32.71	32.70	32.98	
21	32.49	32.79	32.71	32.25	33.20	32.65	32.34	32.08	31.84	32.58	32.65	33.06	
22	32.55	32.35	32.62	32.29	33.14	33.04	32.37	32.05	31.77	32.56	32.45	32.95	
23	32.51	32.36	32.55	32.32	32.99	33.03	32.23	32.01	31.76	32.55	32.61	33.18	
24	32.44	32.68	32.53	32.43	32.68	32.71	32.18	31.95	31.74	32.59	32.68	32.89	
25	32.35	32.65	32.37	32.35	32.70	32.47	32.18	32.03	31.72	32.62	32.82	33.03	
26	32.62	32.58	32.30	32.51	32.65	32.35	32.17	32.10	31.74	32.65	32.67	33.08	
27	32.51	32.52	32.15	32.51	32.66	32.20	32.67	32.01	31.94	32.61	32.78	33.10	
28	32.44	32.59	32.42	32.55	32.44	32.03	33.15	31.96	32.16	32.52	33.07	33.03	
29	32.47	32.44	32.27	32.37	32.52	31.91	33.06	32.08	32.19	32.61		33.06	
30	32.68	32.45	32.18	32.56	32.71	31.81	33.40	31.95	32.35	32.50		33.11	
31		32.64		32.40	32.66		33.83		32.18	32.82		33.16	
Mean	32.51	32.52	32.44	32.41	32.81	32.54	32.25	31.95	31.88	32.54	32.63	32.99	
Max	32.68	32.79	32.71	32.73	34.57	33.04	33.83	32.85	32.35	32.82	33.07	33.19	34.57
Min	32.35	32.32	32.12	32.12	32.38	31.81	31.63	31.54	31.72	32.17	32.38	32.68	31.54

Annual Max Momentary Gage Height 34.87 m. (MSL.) , at 22.00 Hours , on Aug 17 , 2016

Zero Gage at Bottom Elevation 30.40 m. (MSL.) , River Bed 29.90 m. (MSL.)

Left Bank Elevation 49.76 m. (MSL.) ,

Right Bank Elevation 46.71 m. (MSL.) , Drainage Are 6,991 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.00	124.75	124.75	110.50	124.75	128.50	83.40	154.00	88.80	110.50	118.00	168.40	
2	133.75	113.50	138.25	120.25	134.50	138.25	93.50	119.50	88.80	102.25	129.25	164.40	
3	127.75	135.25	126.25	98.50	119.50	126.25	96.30	100.00	89.40	115.75	132.25	159.60	
4	116.50	145.20	120.25	112.75	135.25	143.60	78.60	88.80	86.40	126.25	135.25	181.20	
5	138.25	133.75	137.50	125.50	121.00	138.25	79.80	81.00	89.40	128.50	130.00	156.40	
6	115.75	130.75	119.50	140.50	126.25	148.40	84.00	76.20	87.60	124.00	130.00	162.80	
7	132.25	128.50	122.50	136.00	124.75	145.20	90.00	72.60	82.80	121.75	136.00	161.20	
8	139.75	124.75	112.00	134.50	122.50	132.25	78.00	71.40	79.20	125.50	134.50	154.80	
9	130.75	125.50	98.50	121.75	138.25	132.25	71.40	69.00	76.80	122.50	143.60	165.20	
10	127.00	131.50	106.75	116.50	119.50	136.75	69.00	67.20	78.00	121.00	134.50	140.50	
11	117.25	129.25	106.75	128.50	126.25	136.75	67.80	66.00	77.40	136.00	127.75	166.00	
12	133.75	121.00	98.50	144.40	121.75	124.00	67.80	64.20	76.80	133.00	133.75	158.00	
13	138.25	121.75	136.00	143.60	118.00	133.00	78.00	62.40	79.20	139.75	125.50	161.20	
14	116.50	137.50	129.25	110.50	142.00	136.75	78.00	63.00	78.00	136.00	130.00	156.40	
15	120.25	127.00	132.25	115.75	171.60	131.50	76.20	108.25	77.40	132.25	139.00	158.80	
16	132.25	124.75	136.75	117.25	191.00	136.00	84.60	88.20	75.00	130.00	131.50	166.00	
17	127.75	132.25	130.75	100.00	315.00	127.00	138.25	94.20	76.20	132.25	139.00	172.40	
18	127.75	128.50	142.80	109.75	261.00	132.25	173.20	100.00	75.60	141.25	144.40	162.80	
19	137.50	117.25	133.00	111.25	210.80	127.00	143.60	90.00	76.20	130.00	138.25	166.80	
20	118.75	122.50	121.75	110.50	192.80	140.50	124.00	87.00	78.00	142.80	142.00	164.40	
21	126.25	149.20	142.80	108.25	182.00	138.25	115.00	95.60	80.40	133.00	138.25	170.80	
22	130.75	115.75	136.00	111.25	177.20	169.20	117.25	93.50	76.20	131.50	123.25	162.00	
23	127.75	116.50	130.75	113.50	165.20	168.40	106.75	90.70	75.60	130.75	135.25	180.40	
24	122.50	140.50	129.25	121.75	140.50	142.80	103.00	87.00	74.40	133.75	140.50	157.20	
25	115.75	138.25	117.25	115.75	142.00	124.75	103.00	92.10	73.20	136.00	151.60	168.40	
26	136.00	133.00	112.00	127.75	138.25	115.75	102.25	97.00	74.40	138.25	139.75	172.40	
27	127.75	128.50	100.75	127.75	139.00	104.50	139.75	90.70	86.40	135.25	148.40	174.00	
28	122.50	133.75	121.00	130.75	122.50	92.10	178.00	87.60	101.50	128.50	171.60	168.40	
29	124.75	122.50	109.75	117.25	128.50	84.60	170.80	95.60	103.75	135.25		170.80	
30	140.50	123.25	103.00	131.50	142.80	78.60	200.00	87.00	115.75	127.00		174.80	
31		137.50		119.50	139.00		241.00		103.00	151.60		178.80	
Total	3839.25	3993.90	3676.60	3733.25	4733.40	3913.40	3432.25	2639.75	2581.60	4032.15	3823.10	5125.30	45523.95 CMSDAY
Mean	127.97	128.84	122.55	120.43	152.69	130.45	110.72	87.99	83.28	130.07	136.54	165.33	124.72 CMS
Max	140.50	149.20	142.80	144.40	315.00	169.20	241.00	154.00	115.75	151.60	171.60	181.20	315.00 CMS
Min	115.75	113.50	98.50	98.50	118.00	78.60	67.80	62.40	73.20	102.25	118.00	140.50	62.40 CMS
Runoff	331.71	345.07	317.66	322.55	408.97	338.12	296.55	228.07	223.05	348.38	330.32	442.83	3933.27 MCM

Momentary Peak 345.00 CMS. at 34.87 m. (MSL.) at 22.00 Hours , on Aug 17 , 2016

Runoff Yield 17.84 Liters/Second/Square KM. Momentary Peak Yield 49.350 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Mae Klong River at Ban Wang Khanai , Kanchanaburi (K.11A)

Lat 13 - 56 - 55 N Long 99 - 38 - 42 E

Location : on left bank at Ban Wang Khanai.

	Ban Wang Khanai	**Amphoe** Tha Muang	**Changwat** Kanchanaburi
Drainge Area	26,449 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.810 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +24.879 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 - 1999 , 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1993 - 1999 , 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

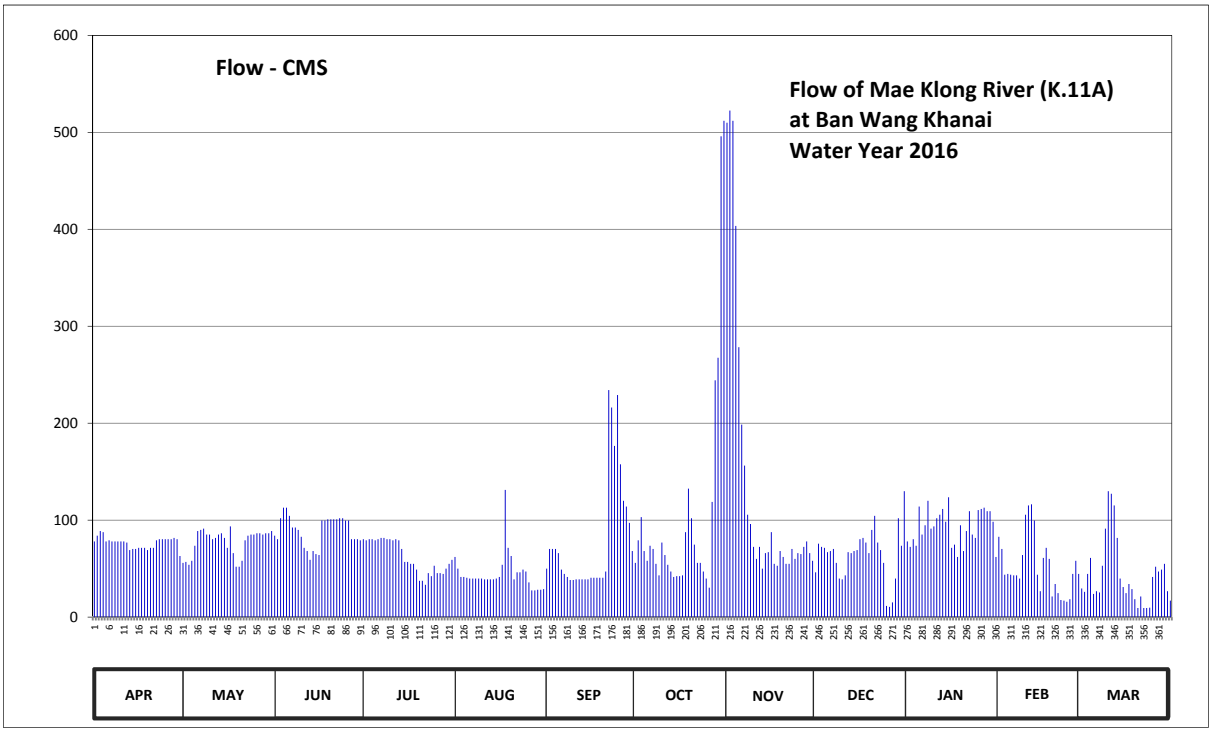
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.40	11.19	11.45	11.42	11.25	11.13	11.19	13.99	11.09	11.40	11.44	10.88	
2	11.45	11.20	11.42	11.41	11.13	11.33	11.41	14.05	11.38	11.35	11.33	10.83	
3	11.49	11.17	11.60	11.42	11.03	11.33	11.61	14.00	11.35	11.42	11.06	11.07	
4	11.48	11.21	11.69	11.42	11.03	11.33	11.31	13.45	11.34	11.36	11.07	11.24	
5	11.40	11.36	11.69	11.41	11.02	11.29	11.21	12.78	11.30	11.70	11.06	10.80	
6	11.41	11.49	11.62	11.42	11.01	11.12	11.36	12.31	11.31	11.46	11.05	10.84	
7	11.40	11.50	11.52	11.43	11.01	11.07	11.33	12.03	11.33	11.54	11.05	10.82	
8	11.40	11.51	11.52	11.43	11.01	11.03	11.18	11.63	11.19	11.75	11.01	11.16	
9	11.40	11.46	11.50	11.42	11.01	10.99	11.05	11.55	11.01	11.51	11.27	11.51	
10	11.40	11.46	11.44	11.42	11.01	10.99	11.39	11.35	11.00	11.53	11.63	11.83	
11	11.40	11.42	11.34	11.41	11.00	11.00	11.27	11.23	11.05	11.60	11.71	11.81	
12	11.39	11.43	11.31	11.42	11.00	11.00	11.17	11.35	11.30	11.63	11.72	11.71	
13	11.32	11.46	11.22	11.41	11.00	11.00	11.10	11.13	11.29	11.68	11.58	11.43	
14	11.33	11.47	11.31	11.33	11.00	11.00	11.03	11.29	11.31	11.57	11.06	11.01	
15	11.33	11.43	11.28	11.20	11.01	11.00	11.04	11.30	11.32	11.78	10.84	10.90	
16	11.34	11.34	11.27	11.20	11.03	11.02	11.04	11.48	11.42	11.34	11.24	10.81	
17	11.34	11.53	11.58	11.18	11.17	11.02	11.05	11.18	11.43	11.37	11.34	10.94	
18	11.34	11.29	11.58	11.18	11.84	11.02	11.48	11.16	11.39	11.25	11.23	10.87	
19	11.32	11.15	11.59	11.12	11.34	11.02	11.85	11.31	11.29	11.54	10.76	10.72	
20	11.34	11.15	11.59	10.98	11.26	11.02	11.60	11.25	11.50	11.31	10.94	10.56	
21	11.34	11.21	11.59	10.98	11.00	11.10	11.37	11.18	11.62	11.49	10.81	10.76	
22	11.41	11.41	11.59	10.93	11.09	12.53	11.19	11.18	11.39	11.66	10.71	10.56	
23	11.42	11.45	11.60	11.08	11.09	12.42	11.19	11.33	11.32	11.46	10.70	10.56	
24	11.42	11.46	11.60	11.04	11.12	12.17	11.10	11.23	11.19	11.43	10.68	10.57	
25	11.42	11.46	11.58	11.16	11.10	12.50	11.01	11.29	10.61	11.67	10.72	11.03	
26	11.42	11.47	11.58	11.08	10.96	12.04	10.89	11.28	10.59	11.68	11.07	11.15	
27	11.42	11.47	11.42	11.08	10.85	11.75	11.74	11.35	10.67	11.69	11.21	11.10	
28	11.43	11.46	11.42	11.07	10.85	11.70	12.59	11.40	11.01	11.66	11.07	11.12	
29	11.42	11.47	11.42	11.13	10.86	11.56	12.72	11.29	11.60	11.66		11.18	
30	11.26	11.47	11.41	11.18	10.86	11.31	13.92	11.21	11.36	11.57		10.84	
31		11.49		11.22	10.87		14.00		11.83	11.25		10.70	
Mean	11.39	11.39	11.49	11.24	11.06	11.36	11.53	11.75	11.25	11.53	11.12	11.01	
Max	11.49	11.53	11.69	11.43	11.84	12.53	14.00	14.05	11.83	11.78	11.72	11.83	14.05
Min	11.26	11.15	11.22	10.93	10.85	10.99	10.89	11.13	10.59	11.25	10.68	10.56	10.56

Annual Max Momentary Gage Height 14.36 m. (MSL.) , at 18.00 Hours , on Oct 30 , 2016

Zero Gage at Bottom Elevation 9.81 m. (MSL.) , River Bed 8.74 m. (MSL.)

Left Bank Elevation 22.46 m. (MSL.) ,

Right Bank Elevation 22.03 m. (MSL.) , Drainage Are 26,449 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	78.00	56.00	84.00	80.40	62.00	50.00	56.00	510.00	46.20	78.00	82.80	29.60	
2	84.00	57.00	80.40	79.20	50.00	70.30	79.20	522.50	75.80	72.50	70.30	26.10	
3	88.80	54.00	102.00	80.40	41.40	70.30	103.20	512.00	72.50	80.40	43.80	44.60	
4	87.60	58.00	112.80	80.40	41.40	70.30	68.10	403.50	71.40	73.60	44.60	61.00	
5	78.00	73.60	112.80	79.20	40.60	66.00	58.00	278.40	67.00	114.00	43.80	24.00	
6	79.20	88.80	104.40	80.40	39.80	49.00	73.60	198.60	68.10	85.20	43.00	26.80	
7	78.00	90.00	92.40	81.60	39.80	44.60	70.30	156.20	70.30	94.80	43.00	25.40	
8	78.00	91.20	92.40	81.60	39.80	41.40	55.00	105.60	56.00	120.00	39.80	53.00	
9	78.00	85.20	90.00	80.40	39.80	38.20	43.00	96.00	39.80	91.20	64.00	91.20	
10	78.00	85.20	82.80	80.40	39.80	38.20	76.90	72.50	39.00	93.60	105.60	129.90	
11	78.00	80.40	71.40	79.20	39.00	39.00	64.00	60.00	43.00	102.00	115.20	127.30	
12	76.90	81.60	68.10	80.40	39.00	39.00	54.00	72.50	67.00	105.60	116.40	115.20	
13	69.20	85.20	59.00	79.20	39.00	39.00	47.00	50.00	66.00	111.60	99.60	81.60	
14	70.30	86.40	68.10	70.30	39.00	39.00	41.40	66.00	68.10	98.40	43.80	39.80	
15	70.30	81.60	65.00	57.00	39.80	39.00	42.20	67.00	69.20	123.60	26.80	31.00	
16	71.40	71.40	64.00	57.00	41.40	40.60	42.20	87.60	80.40	71.40	61.00	24.70	
17	71.40	93.60	99.60	55.00	54.00	40.60	43.00	55.00	81.60	74.70	71.40	34.20	
18	71.40	66.00	99.60	55.00	131.20	40.60	87.60	53.00	76.90	62.00	60.00	28.90	
19	69.20	52.00	100.80	49.00	71.40	40.60	132.50	68.10	66.00	94.80	21.20	18.40	
20	71.40	52.00	100.80	37.40	63.00	40.60	102.00	62.00	90.00	68.10	34.20	9.40	
21	71.40	58.00	100.80	37.40	39.00	47.00	74.70	55.00	104.40	88.80	24.70	21.20	
22	79.20	79.20	100.80	33.40	46.20	234.10	56.00	55.00	76.90	109.20	17.70	9.40	
23	80.40	84.00	102.00	45.40	46.20	216.20	56.00	70.30	69.20	85.20	17.00	9.40	
24	80.40	85.20	102.00	42.20	49.00	176.50	47.00	60.00	56.00	81.60	15.80	9.80	
25	80.40	85.20	99.60	53.00	47.00	229.00	39.80	66.00	11.60	110.40	18.40	41.40	
26	80.40	86.40	99.60	45.40	35.80	157.60	30.30	65.00	10.60	111.60	44.60	52.00	
27	80.40	86.40	80.40	45.40	27.50	120.00	118.80	72.50	15.20	112.80	58.00	47.00	
28	81.60	85.20	80.40	44.60	27.50	114.00	244.30	78.00	39.80	109.20	44.60	49.00	
29	80.40	86.40	80.40	50.00	28.20	97.20	267.60	66.00	102.00	109.20		55.00	
30	63.00	86.40	79.20	55.00	28.20	68.10	496.00	58.00	73.60	98.40		26.80	
31		88.80		59.00	28.90		512.00		129.90	62.00		17.00	
Total	2304.70	2400.40	2675.60	1934.30	1394.70	2396.00	3281.70	4142.30	2003.50	2893.90	1471.10	1360.10	28258.30	CMSDAY
Mean	76.82	77.43	89.19	62.40	44.99	79.87	105.86	138.08	64.63	93.35	52.54	43.87	77.42	CMS
Max	88.80	93.60	112.80	81.60	131.20	234.10	512.00	522.50	129.90	123.60	116.40	129.90	522.50	CMS
Min	63.00	52.00	59.00	33.40	27.50	38.20	30.30	50.00	10.60	62.00	15.80	9.40	9.40	CMS
Runoff	199.13	207.39	231.17	167.12	120.50	207.01	283.54	357.89	173.10	250.03	127.10	117.51	2441.52	MCM

Momentary Peak 589.20 CMS. at 14.36 m. (MSL.) at 18.00 Hours , on Oct 30, 2016

Runoff Yield 2.93 Liters/Second/Square KM. Momentary Peak Yield 22.280 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

Ban Thung Na Nang Rok **Amphoe** Mueang **Changwat** Kanchanaburi

Drainge Area	2,375 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+40.437 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 6 meters from the top staff gage. **Elevation** +49.887 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 - 1968 , 1995 to date
Rated by Flot	-
Rated by Current Meter	1965 - 1968 , 1995 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

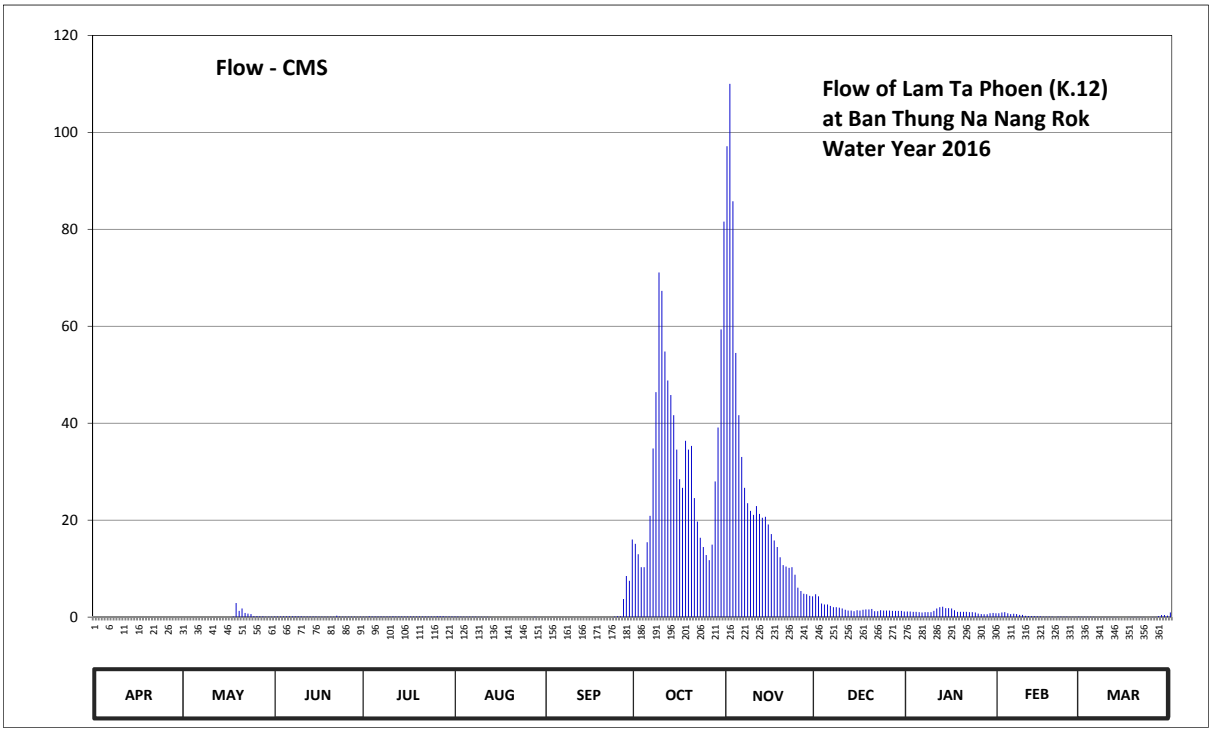
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.44	40.44	40.73	40.71	40.72	40.59	42.06	44.89	41.32	40.95	40.90	40.67	
2	40.44	40.44	40.73	40.71	40.72	40.57	41.93	45.23	41.28	40.95	40.92	40.67	
3	40.44	40.44	40.73	40.74	40.71	40.57	41.75	44.58	41.14	40.94	40.93	40.66	
4	40.44	40.44	40.74	40.73	40.69	40.56	41.75	43.66	41.12	40.94	40.90	40.66	
5	40.44	40.44	40.74	40.73	40.69	40.56	42.08	43.23	41.12	40.93	40.87	40.66	
6	40.44	40.44	40.74	40.73	40.69	40.56	42.36	42.91	41.09	40.92	40.88	40.64	
7	40.44	40.44	40.74	40.73	40.69	40.56	42.98	42.64	41.06	40.93	40.87	40.64	
8	40.44	40.44	40.74	40.73	40.69	40.56	43.39	42.49	41.06	40.93	40.84	40.64	
9	40.44	40.44	40.74	40.73	40.67	40.56	44.16	42.41	41.05	40.93	40.84	40.63	
10	40.44	40.44	40.74	40.73	40.67	40.56	44.05	42.37	41.03	40.97	40.80	40.63	
11	40.44	40.44	40.73	40.74	40.67	40.55	43.67	42.46	41.00	41.03	40.78	40.63	
12	40.44	40.44	40.73	40.73	40.67	40.55	43.47	42.38	40.98	41.06	40.76	40.63	
13	40.44	40.44	40.73	40.73	40.63	40.55	43.37	42.34	40.98	41.07	40.75	40.63	
14	40.44	40.44	40.73	40.73	40.52	40.55	43.23	42.35	40.96	41.04	40.74	40.61	
15	40.44	40.44	40.73	40.73	40.44	40.55	42.97	42.27	40.99	41.04	40.74	40.61	
16	40.44	40.44	40.71	40.73	40.44	40.55	42.72	42.17	40.98	41.03	40.69	40.61	
17	40.44	40.44	40.71	40.73	40.44	40.55	42.64	42.10	41.00	40.99	40.69	40.62	
18	40.44	40.72	40.70	40.73	40.44	40.59	43.04	42.02	41.01	40.94	40.69	40.62	
19	40.44	41.15	40.70	40.73	40.44	40.58	42.97	41.89	41.01	40.94	40.69	40.62	
20	40.44	40.97	40.70	40.73	40.44	40.58	43.00	41.78	41.02	40.94	40.64	40.62	
21	40.44	41.03	40.70	40.73	40.44	40.58	42.54	41.76	40.96	40.94	40.70	40.62	
22	40.44	40.91	40.81	40.72	40.44	40.58	42.30	41.74	40.96	40.93	40.69	40.62	
23	40.44	40.89	40.73	40.72	40.44	40.59	42.13	41.75	40.99	40.93	40.69	40.60	
24	40.44	40.87	40.71	40.72	40.44	40.69	42.02	41.64	40.98	40.92	40.69	40.60	
25	40.44	40.75	40.69	40.73	40.44	40.76	41.92	41.44	40.98	40.89	40.68	40.64	
26	40.44	40.75	40.69	40.77	40.44	40.77	41.85	41.38	40.98	40.87	40.68	40.64	
27	40.44	40.74	40.69	40.76	40.46	41.23	42.05	41.33	40.97	40.86	40.68	40.77	
28	40.44	40.74	40.69	40.76	40.66	41.62	42.70	41.32	40.97	40.86	40.69	40.83	
29	40.44	40.71	40.67	40.73	40.59	41.55	43.14	41.29	40.97	40.90		40.83	
30	40.44	40.71	40.71	40.73	40.60	42.11	43.81	41.28	40.97	40.91		40.81	
31		40.71		40.72	40.59		44.46		40.95	40.90		40.92	
Mean	40.44	40.62	40.72	40.73	40.57	40.72	42.79	42.37	41.03	40.95	40.77	40.66	
Max	40.44	41.15	40.81	40.77	40.72	42.11	44.46	45.23	41.32	41.07	40.93	40.92	45.23
Min	40.44	40.44	40.67	40.71	40.44	40.55	41.75	41.28	40.95	40.86	40.64	40.60	40.44

Annual Max Momentary Gage Height 45.28 m. (MSL.) , at 14.00 Hours , on Nov 2 , 2016

Zero Gage at Bottom Elevation 40.44 m. (MSL.) , River Bed 39.51 m. (MSL.)

Left Bank Elevation 49.43 m. (MSL.) ,

Right Bank Elevation 46.56 m. (MSL.) , Drainage Are 2,375 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.14	0.11	0.13	0.00	15.12	97.13	4.72	1.15	0.80	0.07		
2	0.00	0.00	0.14	0.11	0.13	0.00	12.98	110.00	4.28	1.15	0.94	0.07		
3	0.00	0.00	0.14	0.16	0.11	0.00	10.30	85.80	2.80	1.08	1.01	0.06		
4	0.00	0.00	0.16	0.14	0.09	0.00	10.30	54.50	2.60	1.08	0.80	0.06		
5	0.00	0.00	0.16	0.14	0.09	0.00	15.46	41.67	2.60	1.01	0.63	0.06		
6	0.00	0.00	0.16	0.14	0.09	0.00	20.90	33.05	2.31	0.94	0.69	0.04		
7	0.00	0.00	0.16	0.14	0.09	0.00	34.80	26.68	2.04	1.01	0.63	0.04		
8	0.00	0.00	0.16	0.14	0.09	0.00	46.40	23.50	2.04	1.01	0.47	0.04		
9	0.00	0.00	0.16	0.14	0.07	0.00	71.10	21.90	1.95	1.01	0.47	0.03		
10	0.00	0.00	0.16	0.14	0.07	0.00	67.30	21.10	1.77	1.29	0.25	0.03		
11	0.00	0.00	0.14	0.16	0.07	0.00	54.80	22.90	1.50	1.77	0.22	0.03		
12	0.00	0.00	0.14	0.14	0.07	0.00	48.80	21.30	1.36	2.04	0.19	0.03		
13	0.00	0.00	0.14	0.14	0.03	0.00	45.80	20.50	1.36	2.13	0.18	0.03		
14	0.00	0.00	0.14	0.14	0.00	0.00	41.67	20.70	1.22	1.86	0.16	0.01		
15	0.00	0.00	0.14	0.14	0.00	0.00	34.55	19.10	1.43	1.86	0.16	0.01		
16	0.00	0.00	0.11	0.14	0.00	0.00	28.46	17.13	1.36	1.77	0.09	0.01		
17	0.00	0.00	0.11	0.14	0.00	0.00	26.68	15.80	1.50	1.43	0.09	0.02		
18	0.00	0.13	0.10	0.14	0.00	0.00	36.38	14.44	1.59	1.08	0.09	0.02		
19	0.00	2.90	0.10	0.14	0.00	0.00	34.55	12.35	1.59	1.08	0.09	0.02		
20	0.00	1.29	0.10	0.14	0.00	0.00	35.30	10.72	1.68	1.08	0.04	0.02		
21	0.00	1.77	0.10	0.14	0.00	0.00	24.54	10.44	1.22	1.08	0.10	0.02		
22	0.00	0.87	0.31	0.13	0.00	0.00	19.70	10.16	1.22	1.01	0.09	0.02		
23	0.00	0.74	0.14	0.13	0.00	0.00	16.37	10.30	1.43	1.01	0.09	0.00		
24	0.00	0.63	0.11	0.13	0.00	0.09	14.44	8.76	1.36	0.94	0.09	0.00		
25	0.00	0.18	0.09	0.14	0.00	0.19	12.82	6.08	1.36	0.74	0.08	0.04		
26	0.00	0.18	0.09	0.21	0.00	0.21	11.75	5.38	1.36	0.63	0.08	0.04		
27	0.00	0.16	0.09	0.19	0.00	3.73	14.95	4.83	1.29	0.58	0.08	0.21		
28	0.00	0.16	0.09	0.19	0.06	8.48	28.00	4.72	1.29	0.58	0.09	0.42		
29	0.00	0.11	0.07	0.14	0.00	7.50	39.12	4.39	1.29	0.80		0.42		
30	0.00	0.11	0.11	0.14	0.00	15.99	59.33	4.28	1.29	0.87		0.31		
31		0.11		0.13	0.00		81.60		1.15	0.80		0.94		
Total	0.00	9.34	3.96	4.45	1.19	36.19	1014.27	759.61	55.96	35.87	8.70	3.12	1932.66	CMSDAY
Mean	0.00	0.30	0.13	0.14	0.04	1.21	32.72	25.32	1.81	1.16	0.31	0.10	5.29	CMS
Max	0.00	2.90	0.31	0.21	0.13	15.99	81.60	110.00	4.72	2.13	1.01	0.94	110.00	CMS
Min	0.00	0.00	0.07	0.11	0.00	0.00	10.30	4.28	1.15	0.58	0.04	0.00	0.00	CMS
Runoff	0.00	0.81	0.34	0.38	0.10	3.13	87.63	65.63	4.83	3.10	0.75	0.27	166.98	MCM

Momentary Peak 112.00 CMS. at 45.28 m. (MSL.) at 14.00 Hours , on Nov 2, 2016

Runoff Yield 2.23 Liters/Second/Square KM. Momentary Peak Yield 47.160 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	Ban Bo	**Amphoe** Suan Phung	**Changwat** Ratchaburi
Drainge Area	1,344 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+97.460 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Along the measuring line.		**Elevation** +109.256 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 - 1988 , 1993 to date		
Rated by Flot	-		
Rated by Current Meter	1966 - 1988 , 1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

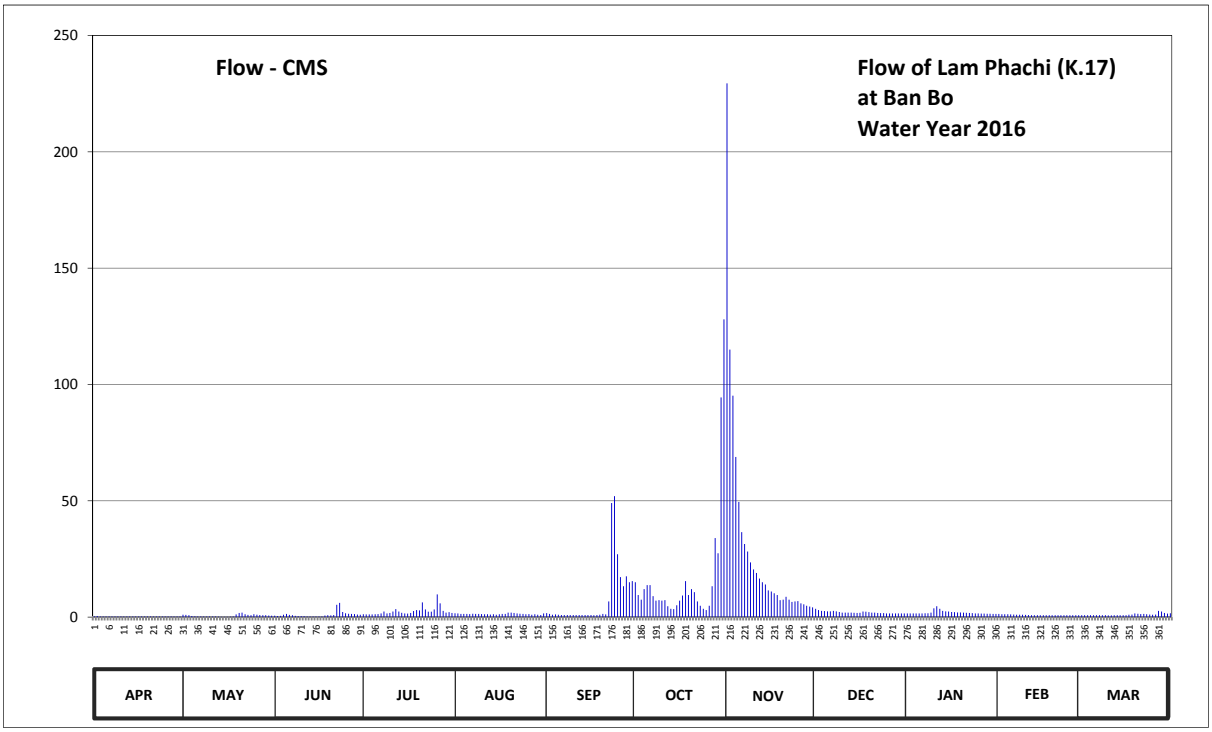
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.57	97.70	97.62	97.74	97.83	97.84	98.56	101.22	98.04	97.82	97.77	97.66	
2	97.60	97.69	97.59	97.73	97.81	97.77	98.34	100.31	98.00	97.82	97.75	97.66	
3	97.55	97.67	97.61	97.73	97.78	97.71	98.25	100.09	97.97	97.82	97.75	97.66	
4	97.55	97.60	97.70	97.73	97.78	97.73	98.44	99.74	97.96	97.82	97.75	97.66	
5	97.55	97.57	97.77	97.75	97.78	97.70	98.51	99.43	97.95	97.82	97.73	97.66	
6	97.55	97.56	97.69	97.76	97.76	97.68	98.51	99.17	97.95	97.82	97.72	97.66	
7	97.55	97.56	97.67	97.82	97.79	97.68	98.32	99.06	97.97	97.83	97.71	97.66	
8	97.55	97.55	97.61	97.94	97.77	97.68	98.23	98.98	97.95	97.83	97.71	97.66	
9	97.55	97.55	97.58	97.82	97.77	97.68	98.24	98.85	97.92	97.88	97.71	97.66	
10	97.55	97.55	97.58	97.85	97.76	97.68	98.23	98.75	97.89	98.05	97.69	97.65	
11	97.55	97.55	97.58	97.94	97.75	97.68	98.24	98.70	97.89	98.11	97.68	97.65	
12	97.55	97.55	97.56	98.03	97.75	97.68	98.11	98.62	97.88	98.04	97.67	97.66	
13	97.55	97.54	97.55	97.94	97.72	97.68	98.04	98.56	97.88	97.97	97.67	97.66	
14	97.55	97.53	97.55	97.87	97.75	97.68	98.03	98.52	97.87	97.95	97.66	97.66	
15	97.55	97.53	97.55	97.82	97.71	97.68	98.13	98.42	97.85	97.94	97.66	97.66	
16	97.55	97.53	97.56	97.80	97.75	97.68	98.23	98.40	97.87	97.92	97.66	97.66	
17	97.55	97.54	97.56	97.86	97.77	97.67	98.33	98.37	97.94	97.91	97.66	97.71	
18	97.55	97.56	97.63	97.96	97.78	97.68	98.58	98.34	97.93	97.90	97.66	97.72	
19	97.55	97.73	97.67	98.00	97.88	97.70	98.34	98.24	97.91	97.90	97.66	97.82	
20	97.55	97.86	97.65	97.99	97.88	97.78	98.44	98.25	97.89	97.88	97.66	97.79	
21	97.55	97.88	97.68	98.19	97.85	97.73	98.39	98.31	97.88	97.87	97.66	97.76	
22	97.55	97.74	98.14	98.02	97.82	98.21	98.21	98.25	97.86	97.86	97.66	97.77	
23	97.55	97.69	98.18	97.93	97.79	99.42	98.12	98.20	97.84	97.84	97.66	97.74	
24	97.55	97.66	97.92	97.93	97.77	99.48	98.04	98.21	97.84	97.82	97.66	97.72	
25	97.55	97.74	97.83	98.02	97.74	98.95	98.00	98.22	97.82	97.81	97.66	97.71	
26	97.55	97.71	97.79	98.35	97.76	98.64	98.12	98.17	97.82	97.80	97.66	97.72	
27	97.55	97.68	97.78	98.17	97.71	98.49	98.49	98.15	97.81	97.80	97.66	97.97	
28	97.55	97.67	97.76	97.97	97.74	98.65	99.12	98.12	97.82	97.79	97.66	97.94	
29	97.55	97.66	97.72	97.89	97.70	98.56	98.96	98.10	97.82	97.79		97.86	
30	97.55	97.63	97.71	97.91	97.68	98.58	100.08	98.08	97.82	97.78		97.80	
31		97.62		97.86	97.82		100.44		97.82	97.78		97.83	
Mean	97.55	97.63	97.69	97.91	97.77	98.03	98.45	98.73	97.89	97.87	97.69	97.72	
Max	97.60	97.88	98.18	98.35	97.88	99.48	100.44	101.22	98.04	98.11	97.77	97.97	101.22
Min	97.55	97.53	97.55	97.73	97.68	97.67	98.00	98.08	97.81	97.78	97.66	97.65	97.53

Annual Max Momentary Gage Height 101.49 m. (MSL.) , at 05.00 Hours , on Nov 1, 2016

Zero Gage at Bottom Elevation 97.46 m. (MSL.) , River Bed 96.68 m. (MSL.)

Left Bank Elevation 107.93 m. (MSL.) ,

Right Bank Elevation 103.17 m. (MSL.) , Drainage Are 1,344 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	1.00	0.60	1.20	1.65	1.70	15.00	229.40	3.60	1.60	1.35	0.80		
2	0.50	0.95	0.45	1.15	1.55	1.35	9.50	115.00	3.00	1.60	1.25	0.80		
3	0.25	0.85	0.55	1.15	1.40	1.05	7.50	95.20	2.70	1.60	1.25	0.80		
4	0.25	0.50	1.00	1.15	1.40	1.15	12.00	68.80	2.60	1.60	1.25	0.80		
5	0.25	0.35	1.35	1.25	1.40	1.00	13.75	49.50	2.50	1.60	1.15	0.80		
6	0.25	0.30	0.95	1.30	1.30	0.90	13.75	36.50	2.50	1.60	1.10	0.80		
7	0.25	0.30	0.85	1.60	1.45	0.90	9.00	31.40	2.70	1.65	1.05	0.80		
8	0.25	0.25	0.55	2.40	1.35	0.90	7.10	28.20	2.50	1.65	1.05	0.80		
9	0.25	0.25	0.40	1.60	1.35	0.90	7.30	23.50	2.20	1.90	1.05	0.80		
10	0.25	0.25	0.40	1.75	1.30	0.90	7.10	20.50	1.95	3.75	0.95	0.75		
11	0.25	0.25	0.40	2.40	1.25	0.90	7.30	19.00	1.95	4.70	0.90	0.75		
12	0.25	0.25	0.30	3.45	1.25	0.90	4.70	16.60	1.90	3.60	0.85	0.80		
13	0.25	0.20	0.25	2.40	1.10	0.90	3.60	15.00	1.90	2.70	0.85	0.80		
14	0.25	0.15	0.25	1.85	1.25	0.90	3.45	14.00	1.85	2.50	0.80	0.80		
15	0.25	0.15	0.25	1.60	1.05	0.90	5.10	11.50	1.75	2.40	0.80	0.80		
16	0.25	0.15	0.30	1.50	1.25	0.90	7.10	11.00	1.85	2.20	0.80	0.80		
17	0.25	0.20	0.30	1.80	1.35	0.85	9.25	10.25	2.40	2.10	0.80	1.05		
18	0.25	0.30	0.65	2.60	1.40	0.90	15.50	9.50	2.30	2.00	0.80	1.10		
19	0.25	1.15	0.85	3.00	1.90	1.00	9.50	7.30	2.10	2.00	0.80	1.60		
20	0.25	1.80	0.75	2.90	1.90	1.40	12.00	7.50	1.95	1.90	0.80	1.45		
21	0.25	1.90	0.90	6.30	1.75	1.15	10.75	8.75	1.90	1.85	0.80	1.30		
22	0.25	1.20	5.30	3.30	1.60	6.70	6.70	7.50	1.80	1.80	0.80	1.35		
23	0.25	0.95	6.10	2.30	1.45	49.00	4.90	6.50	1.70	1.70	0.80	1.20		
24	0.25	0.80	2.20	2.30	1.35	52.00	3.60	6.70	1.70	1.60	0.80	1.10		
25	0.25	1.20	1.65	3.30	1.20	27.00	3.00	6.90	1.60	1.55	0.80	1.05		
26	0.25	1.05	1.45	9.75	1.30	17.20	4.90	5.90	1.60	1.50	0.80	1.10		
27	0.25	0.90	1.40	5.90	1.05	13.25	13.25	5.50	1.55	1.50	0.80	2.70		
28	0.25	0.85	1.30	2.70	1.20	17.50	34.00	4.90	1.60	1.45	0.80	2.40		
29	0.25	0.80	1.10	1.95	1.00	15.00	27.40	4.50	1.60	1.45		1.80		
30	0.25	0.65	1.05	2.10	0.90	15.50	94.40	4.20	1.60	1.40		1.50		
31		0.60		1.80	1.60		128.00		1.60	1.40		1.65		
Total	7.85	20.50	33.85	79.75	42.25	234.60	510.40	881.00	64.45	61.85	26.05	35.05	1997.60	CMSDAY
Mean	0.26	0.66	1.13	2.57	1.36	7.82	16.46	29.37	2.08	2.00	0.93	1.13	5.47	CMS
Max	0.50	1.90	6.10	9.75	1.90	52.00	128.00	229.40	3.60	4.70	1.35	2.70	229.40	CMS
Min	0.25	0.15	0.25	1.15	0.90	0.85	3.00	4.20	1.55	1.40	0.80	0.75	0.15	CMS
Runoff	0.68	1.77	2.92	6.89	3.65	20.27	44.10	76.12	5.57	5.34	2.25	3.03	172.59	MCM

Momentary Peak 279.00 CMS. at 101.49 m. (MSL.) at 05.00 Hours , on Nov 1, 2016

Runoff Yield 4.07 Liters/Second/Square KM. Momentary Peak Yield 207.590 Liters/Second/Square KM.

WATER YEAR : 2016

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

Ban Mae Nam Noi **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	311 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+66.220 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the top staff gage. **Elevation** +72.434 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1989 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

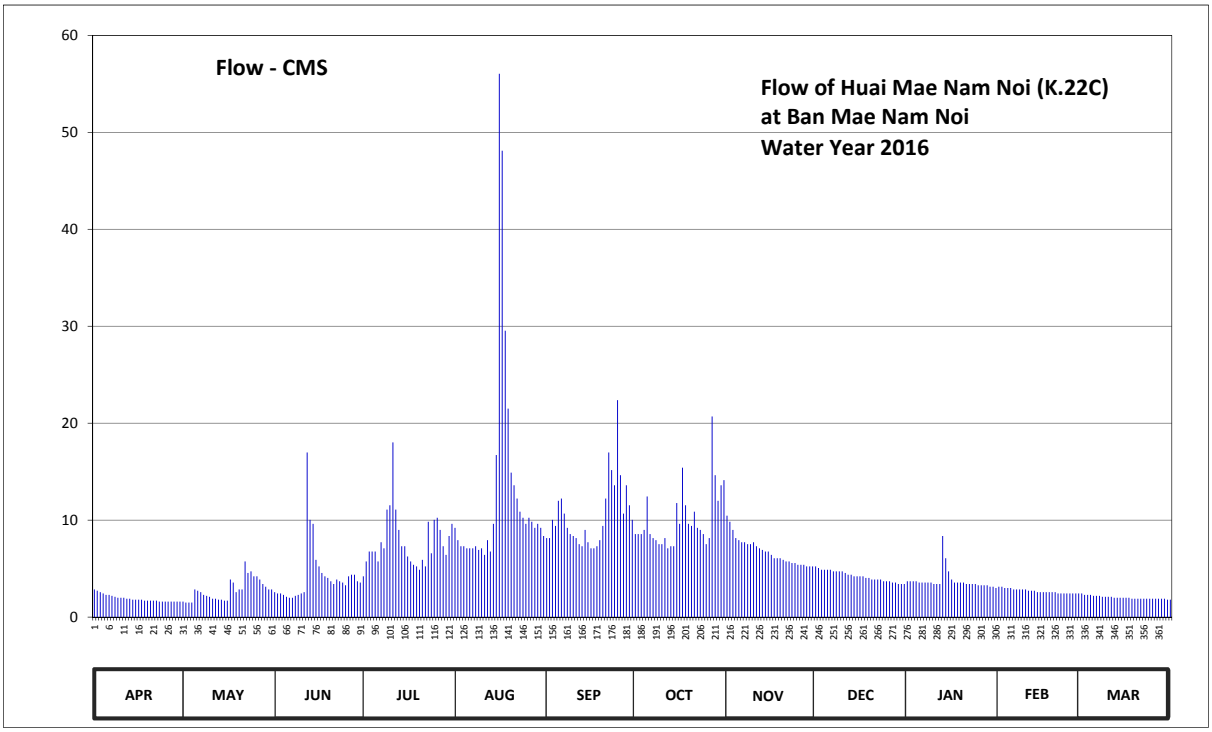
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.34	67.23	67.32	67.43	67.70	67.65	67.67	67.76	67.49	67.40	67.36	67.31	
2	67.33	67.22	67.31	67.52	67.64	67.65	67.67	67.73	67.48	67.40	67.36	67.30	
3	67.32	67.22	67.31	67.58	67.61	67.74	67.67	67.69	67.47	67.40	67.35	67.30	
4	67.31	67.22	67.30	67.58	67.61	67.71	67.69	67.65	67.47	67.40	67.35	67.30	
5	67.30	67.34	67.28	67.58	67.60	67.83	67.85	67.64	67.47	67.39	67.35	67.29	
6	67.30	67.33	67.27	67.52	67.60	67.84	67.67	67.63	67.47	67.39	67.34	67.29	
7	67.29	67.32	67.27	67.63	67.60	67.77	67.65	67.63	67.46	67.39	67.34	67.29	
8	67.28	67.30	67.29	67.60	67.61	67.70	67.64	67.62	67.46	67.39	67.34	67.28	
9	67.27	67.29	67.30	67.79	67.59	67.67	67.62	67.62	67.46	67.39	67.34	67.28	
10	67.27	67.28	67.31	67.81	67.60	67.66	67.62	67.63	67.46	67.38	67.34	67.28	
11	67.27	67.26	67.32	68.07	67.56	67.65	67.65	67.61	67.45	67.38	67.33	67.28	
12	67.26	67.26	68.03	67.79	67.64	67.62	67.60	67.60	67.44	67.38	67.33	67.27	
13	67.26	67.25	67.74	67.69	67.58	67.61	67.61	67.59	67.44	67.66	67.33	67.27	
14	67.25	67.25	67.72	67.61	67.72	67.69	67.61	67.58	67.43	67.54	67.32	67.27	
15	67.25	67.24	67.53	67.61	68.02	67.63	67.82	67.58	67.43	67.46	67.32	67.27	
16	67.25	67.24	67.49	67.55	69.15	67.60	67.72	67.56	67.43	67.41	67.32	67.27	
17	67.25	67.41	67.45	67.52	68.96	67.60	67.97	67.54	67.43	67.39	67.32	67.27	
18	67.24	67.39	67.43	67.50	68.46	67.61	67.81	67.54	67.42	67.39	67.32	67.26	
19	67.24	67.32	67.42	67.49	68.20	67.64	67.72	67.54	67.42	67.39	67.32	67.26	
20	67.24	67.34	67.40	67.47	67.95	67.71	67.71	67.53	67.41	67.39	67.32	67.26	
21	67.24	67.34	67.38	67.53	67.90	67.84	67.78	67.52	67.41	67.38	67.31	67.26	
22	67.24	67.52	67.41	67.49	67.84	68.03	67.70	67.52	67.41	67.38	67.31	67.26	
23	67.23	67.45	67.40	67.73	67.78	67.96	67.69	67.51	67.41	67.38	67.31	67.26	
24	67.23	67.46	67.39	67.57	67.75	67.90	67.67	67.51	67.40	67.38	67.31	67.26	
25	67.23	67.43	67.37	67.74	67.72	68.23	67.62	67.50	67.40	67.37	67.31	67.26	
26	67.23	67.43	67.43	67.75	67.75	67.94	67.65	67.50	67.40	67.37	67.31	67.26	
27	67.23	67.41	67.44	67.69	67.73	67.77	68.17	67.50	67.39	67.37	67.31	67.26	
28	67.23	67.38	67.44	67.61	67.70	67.90	67.94	67.49	67.39	67.37	67.31	67.26	
29	67.23	67.36	67.40	67.56	67.72	67.81	67.83	67.49	67.38	67.36		67.26	
30	67.23	67.34	67.39	67.66	67.70	67.74	67.90	67.49	67.38	67.36		67.25	
31		67.34		67.72	67.66		67.92		67.38	67.35		67.25	
Mean	67.26	67.33	67.42	67.63	67.83	67.76	67.74	67.58	67.43	67.40	67.33	67.27	
Max	67.34	67.52	68.03	68.07	69.15	68.23	68.17	67.76	67.49	67.66	67.36	67.31	69.15
Min	67.23	67.22	67.27	67.43	67.56	67.60	67.60	67.49	67.38	67.35	67.31	67.25	67.22

Annual Max Momentary Gage Height 69.76 m. (MSL.) , at 12.00 Hours , on Aug 16 , 2016

Zero Gage at Bottom Elevation 66.22 m. (MSL.) , River Bed 66.72 m. (MSL.)

Left Bank Elevation 78.52 m. (MSL.) ,

Right Bank Elevation 71.02 m. (MSL.) , Drainage Are 311 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.86	1.60	2.58	4.21	9.20	8.15	8.57	10.46	5.23	3.70	3.14	2.44	
2	2.72	1.50	2.44	5.74	7.94	8.15	8.57	9.83	5.06	3.70	3.14	2.30	
3	2.58	1.50	2.44	6.76	7.31	10.04	8.57	8.99	4.89	3.70	3.00	2.30	
4	2.44	1.50	2.30	6.76	7.31	9.41	8.99	8.15	4.89	3.70	3.00	2.30	
5	2.30	2.86	2.10	6.76	7.10	11.99	12.45	7.94	4.89	3.56	3.00	2.20	
6	2.30	2.72	2.00	5.74	7.10	12.22	8.57	7.73	4.89	3.56	2.86	2.20	
7	2.20	2.58	2.00	7.73	7.10	10.67	8.15	7.73	4.72	3.56	2.86	2.20	
8	2.10	2.30	2.20	7.10	7.31	9.20	7.94	7.52	4.72	3.56	2.86	2.10	
9	2.00	2.20	2.30	11.09	6.93	8.57	7.52	7.52	4.72	3.56	2.86	2.10	
10	2.00	2.10	2.44	11.53	7.10	8.36	7.52	7.73	4.72	3.42	2.86	2.10	
11	2.00	1.90	2.58	18.02	6.42	8.15	8.15	7.31	4.55	3.42	2.72	2.10	
12	1.90	1.90	16.98	11.09	7.94	7.52	7.10	7.10	4.38	3.42	2.72	2.00	
13	1.90	1.80	10.04	8.99	6.76	7.31	7.31	6.93	4.38	8.36	2.72	2.00	
14	1.80	1.80	9.62	7.31	9.62	8.99	7.31	6.76	4.21	6.08	2.58	2.00	
15	1.80	1.70	5.91	7.31	16.72	7.73	11.76	6.76	4.21	4.72	2.58	2.00	
16	1.80	1.70	5.23	6.25	56.05	7.10	9.62	6.42	4.21	3.87	2.58	2.00	
17	1.80	3.87	4.55	5.74	48.10	7.10	15.42	6.08	4.21	3.56	2.58	2.00	
18	1.70	3.56	4.21	5.40	29.54	7.31	11.53	6.08	4.04	3.56	2.58	1.90	
19	1.70	2.58	4.04	5.23	21.50	7.94	9.62	6.08	4.04	3.56	2.58	1.90	
20	1.70	2.86	3.70	4.89	14.90	9.41	9.41	5.91	3.87	3.56	2.58	1.90	
21	1.70	2.86	3.42	5.91	13.60	12.22	10.88	5.74	3.87	3.42	2.44	1.90	
22	1.70	5.74	3.87	5.23	12.22	16.98	9.20	5.74	3.87	3.42	2.44	1.90	
23	1.60	4.55	3.70	9.83	10.88	15.16	8.99	5.57	3.87	3.42	2.44	1.90	
24	1.60	4.72	3.56	6.59	10.25	13.60	8.57	5.57	3.70	3.42	2.44	1.90	
25	1.60	4.21	3.28	10.04	9.62	22.37	7.52	5.40	3.70	3.28	2.44	1.90	
26	1.60	4.21	4.21	10.25	10.25	14.64	8.15	5.40	3.70	3.28	2.44	1.90	
27	1.60	3.87	4.38	8.99	9.83	10.67	20.69	5.40	3.56	3.28	2.44	1.90	
28	1.60	3.42	4.38	7.31	9.20	13.60	14.64	5.23	3.56	3.28	2.44	1.90	
29	1.60	3.14	3.70	6.42	9.62	11.53	11.99	5.23	3.42	3.14		1.90	
30	1.60	2.86	3.56	8.36	9.20	10.04	13.60	5.23	3.42	3.14		1.80	
31		2.86		9.62	8.36		14.12		3.42	3.00		1.80	
Total	57.80	86.97	127.72	242.20	404.98	316.13	312.43	203.54	130.92	116.21	75.32	62.74	2136.96 CMSDAY
Mean	1.93	2.81	4.26	7.81	13.06	10.54	10.08	6.78	4.22	3.75	2.69	2.02	5.85 CMS
Max	2.86	5.74	16.98	18.02	56.05	22.37	20.69	10.46	5.23	8.36	3.14	2.44	56.05 CMS
Min	1.60	1.50	2.00	4.21	6.42	7.10	7.10	5.23	3.42	3.00	2.44	1.80	1.50 CMS
Runoff	4.99	7.51	11.04	20.93	34.99	27.31	26.99	17.59	11.31	10.04	6.51	5.42	184.63 MCM

Momentary Peak 83.58 CMS. at 69.76 m. (MSL.) at 12.00 Hours , on Aug 16, 2016

Runoff Yield 18.83 Liters/Second/Square KM. Momentary Peak Yield 268.750 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

Lat 13 - 24 - 07 N Long 99 - 25 - 14 E

Location : on right bank about 8 kilometers upstream from station K.25

Ban Kha **Amphoe** Ban Kha **Changwat** Ratchaburi

Drainge Area	367 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+152.071 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 1 meter from the top staff gage. **Elevation** +160.094 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1994 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Flot	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

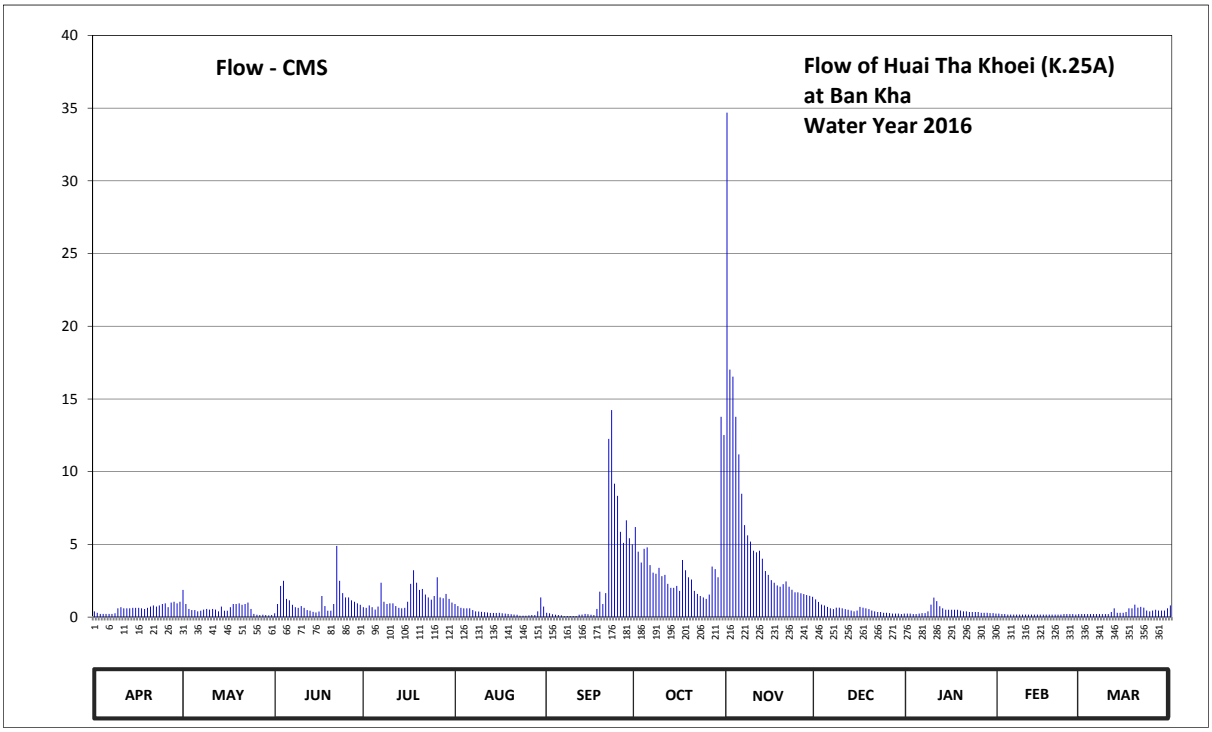
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.40	152.71	152.33	152.47	152.52	152.35	153.19	154.07	152.47	152.28	152.28	152.27	
2	152.35	152.52	152.52	152.46	152.49	152.33	153.03	153.58	152.44	152.28	152.27	152.27	
3	152.31	152.44	152.75	152.50	152.46	152.30	152.95	153.56	152.41	152.27	152.27	152.27	
4	152.31	152.42	152.80	152.47	152.45	152.28	153.05	153.44	152.40	152.27	152.26	152.27	
5	152.31	152.42	152.59	152.43	152.45	152.27	153.06	153.31	152.38	152.28	152.26	152.27	
6	152.31	152.40	152.57	152.48	152.45	152.26	152.93	153.15	152.36	152.29	152.26	152.27	
7	152.31	152.41	152.51	152.78	152.42	152.23	152.87	153.00	152.35	152.29	152.26	152.27	
8	152.33	152.43	152.47	152.55	152.40	152.24	152.86	152.95	152.37	152.32	152.26	152.27	
9	152.45	152.44	152.46	152.52	152.39	152.24	152.91	152.92	152.37	152.41	152.26	152.27	
10	152.47	152.43	152.49	152.53	152.38	152.24	152.84	152.87	152.36	152.49	152.26	152.27	
11	152.45	152.44	152.46	152.53	152.37	152.24	152.85	152.86	152.35	152.45	152.26	152.31	
12	152.45	152.43	152.42	152.49	152.36	152.28	152.77	152.87	152.34	152.39	152.26	152.36	
13	152.45	152.40	152.41	152.46	152.34	152.29	152.73	152.82	152.33	152.36	152.26	152.30	
14	152.46	152.48	152.38	152.45	152.34	152.31	152.73	152.73	152.32	152.34	152.26	152.30	
15	152.46	152.41	152.36	152.46	152.34	152.30	152.75	152.70	152.33	152.34	152.26	152.30	
16	152.46	152.41	152.39	152.55	152.35	152.28	152.70	152.66	152.38	152.34	152.26	152.31	
17	152.45	152.47	152.63	152.77	152.33	152.27	152.97	152.64	152.37	152.34	152.26	152.36	
18	152.44	152.52	152.49	152.89	152.32	152.44	152.89	152.62	152.36	152.34	152.26	152.36	
19	152.46	152.52	152.41	152.78	152.31	152.69	152.83	152.61	152.35	152.33	152.26	152.41	
20	152.48	152.53	152.41	152.71	152.30	152.52	152.81	152.63	152.33	152.32	152.26	152.37	
21	152.50	152.51	152.52	152.72	152.29	152.67	152.70	152.65	152.32	152.32	152.26	152.38	
22	152.48	152.52	153.07	152.65	152.28	153.62	152.66	152.61	152.31	152.31	152.26	152.37	
23	152.50	152.54	152.80	152.61	152.25	153.73	152.63	152.58	152.31	152.31	152.27	152.33	
24	152.52	152.44	152.67	152.58	152.25	153.42	152.61	152.55	152.30	152.31	152.27	152.32	
25	152.53	152.31	152.61	152.63	152.25	153.36	152.59	152.55	152.30	152.31	152.27	152.33	
26	152.47	152.28	152.61	152.83	152.26	153.16	152.65	152.54	152.29	152.30	152.27	152.34	
27	152.54	152.27	152.57	152.61	152.27	153.09	152.92	152.53	152.28	152.30	152.26	152.33	
28	152.55	152.28	152.55	152.60	152.27	153.23	152.90	152.52	152.28	152.30	152.27	152.33	
29	152.53	152.27	152.53	152.66	152.40	153.12	152.83	152.51	152.28	152.29		152.33	
30	152.55	152.26	152.51	152.59	152.61	153.08	153.44	152.50	152.27	152.29		152.36	
31		152.27		152.54	152.48		153.38		152.28	152.28		152.40	
Mean	152.44	152.43	152.54	152.59	152.37	152.63	152.87	152.85	152.34	152.32	152.26	152.32	
Max	152.55	152.71	153.07	152.89	152.61	153.73	153.44	154.07	152.47	152.49	152.28	152.41	154.07
Min	152.31	152.26	152.33	152.43	152.25	152.23	152.59	152.50	152.27	152.27	152.26	152.27	152.23

Annual Max Momentary Gage Height 154.37 m. (MSL.) , at 01.00 Hours , on Nov 1, 2016

Zero Gage at Bottom Elevation 152.07 m. (MSL.) , River Bed 151.95 m. (MSL.)

Left Bank Elevation 159.06 m. (MSL.) ,

Right Bank Elevation 159.07 m. (MSL.) , Drainage Are 367 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	1.87	0.26	0.68	0.90	0.30	6.19	34.69	1.22	0.24	0.24	0.21	
2	0.30	0.90	0.90	0.64	0.76	0.26	4.50	17.02	1.04	0.24	0.21	0.21	
3	0.22	0.56	2.15	0.80	0.64	0.20	3.75	16.54	0.86	0.21	0.21	0.21	
4	0.22	0.48	2.50	0.68	0.60	0.16	4.70	13.78	0.80	0.21	0.18	0.21	
5	0.22	0.48	1.25	0.52	0.60	0.14	4.80	11.19	0.70	0.24	0.18	0.21	
6	0.22	0.40	1.15	0.72	0.60	0.12	3.57	8.48	0.60	0.27	0.18	0.21	
7	0.22	0.44	0.85	2.36	0.48	0.06	3.06	6.33	0.55	0.27	0.18	0.21	
8	0.26	0.52	0.68	1.05	0.40	0.08	2.98	5.62	0.65	0.40	0.18	0.21	
9	0.60	0.56	0.64	0.90	0.38	0.08	3.39	5.19	0.65	0.86	0.18	0.21	
10	0.68	0.52	0.76	0.95	0.36	0.08	2.82	4.57	0.60	1.34	0.18	0.21	
11	0.60	0.56	0.64	0.95	0.34	0.08	2.90	4.46	0.55	1.10	0.18	0.35	
12	0.60	0.52	0.48	0.76	0.32	0.16	2.29	4.57	0.50	0.75	0.18	0.60	
13	0.60	0.40	0.44	0.64	0.28	0.18	2.01	4.02	0.45	0.60	0.18	0.30	
14	0.64	0.72	0.36	0.60	0.28	0.22	2.01	3.17	0.40	0.50	0.18	0.30	
15	0.64	0.44	0.32	0.64	0.28	0.20	2.15	2.90	0.45	0.50	0.18	0.30	
16	0.64	0.44	0.38	1.05	0.30	0.16	1.80	2.54	0.70	0.50	0.18	0.35	
17	0.60	0.68	1.45	2.29	0.26	0.14	3.93	2.36	0.65	0.50	0.18	0.60	
18	0.56	0.90	0.76	3.22	0.24	0.56	3.22	2.18	0.60	0.50	0.18	0.60	
19	0.64	0.90	0.44	2.36	0.22	1.75	2.74	2.09	0.55	0.45	0.18	0.86	
20	0.72	0.95	0.44	1.87	0.20	0.90	2.58	2.27	0.45	0.40	0.18	0.65	
21	0.80	0.85	0.90	1.94	0.18	1.65	1.80	2.45	0.40	0.40	0.18	0.70	
22	0.72	0.90	4.90	1.55	0.16	12.26	1.60	2.09	0.35	0.35	0.18	0.65	
23	0.80	1.00	2.50	1.35	0.10	14.24	1.45	1.88	0.35	0.35	0.21	0.45	
24	0.90	0.56	1.65	1.20	0.10	9.18	1.35	1.70	0.30	0.35	0.21	0.40	
25	0.95	0.22	1.35	1.45	0.10	8.34	1.25	1.70	0.30	0.35	0.21	0.45	
26	0.68	0.16	1.35	2.74	0.12	5.86	1.55	1.64	0.27	0.30	0.21	0.50	
27	1.00	0.14	1.15	1.35	0.14	5.10	3.48	1.58	0.24	0.30	0.18	0.45	
28	1.05	0.16	1.05	1.30	0.14	6.66	3.30	1.52	0.24	0.30	0.21	0.45	
29	0.95	0.14	0.95	1.60	0.40	5.42	2.74	1.46	0.24	0.27		0.45	
30	1.05	0.12	0.85	1.25	1.35	5.00	13.78	1.40	0.21	0.27		0.60	
31		0.14		1.00	0.72		12.52		0.24	0.24		0.80	
Total	18.48	17.63	33.50	40.41	11.95	79.54	110.21	171.39	16.11	13.56	5.31	12.91	531.00	CMSDAY
Mean	0.62	0.57	1.12	1.30	0.39	2.65	3.56	5.71	0.52	0.44	0.19	0.42	1.45	CMS
Max	1.05	1.87	4.90	3.22	1.35	14.24	13.78	34.69	1.22	1.34	0.24	0.86	34.69	CMS
Min	0.22	0.12	0.26	0.52	0.10	0.06	1.25	1.40	0.21	0.21	0.18	0.21	0.06	CMS
Runoff	1.60	1.52	2.89	3.49	1.03	6.87	9.52	14.81	1.39	1.17	0.46	1.12	45.88	MCM

Momentary Peak 51.14 CMS. at 154.37 m. (MSL.) at 01.00 Hours , on Nov 1, 2016

Runoff Yield 3.96 Liters/Second/Square KM. Momentary Peak Yield 139.350 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

Lat 14 - 26 - 27 N Long 98 - 47 - 48 E

Location : on left bank about 1 kilometer downstream from station K.22A

Ban Sai Yok **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	466 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+68.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 30 meters from the top staff gage. **Elevation** +77.305 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Flot	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

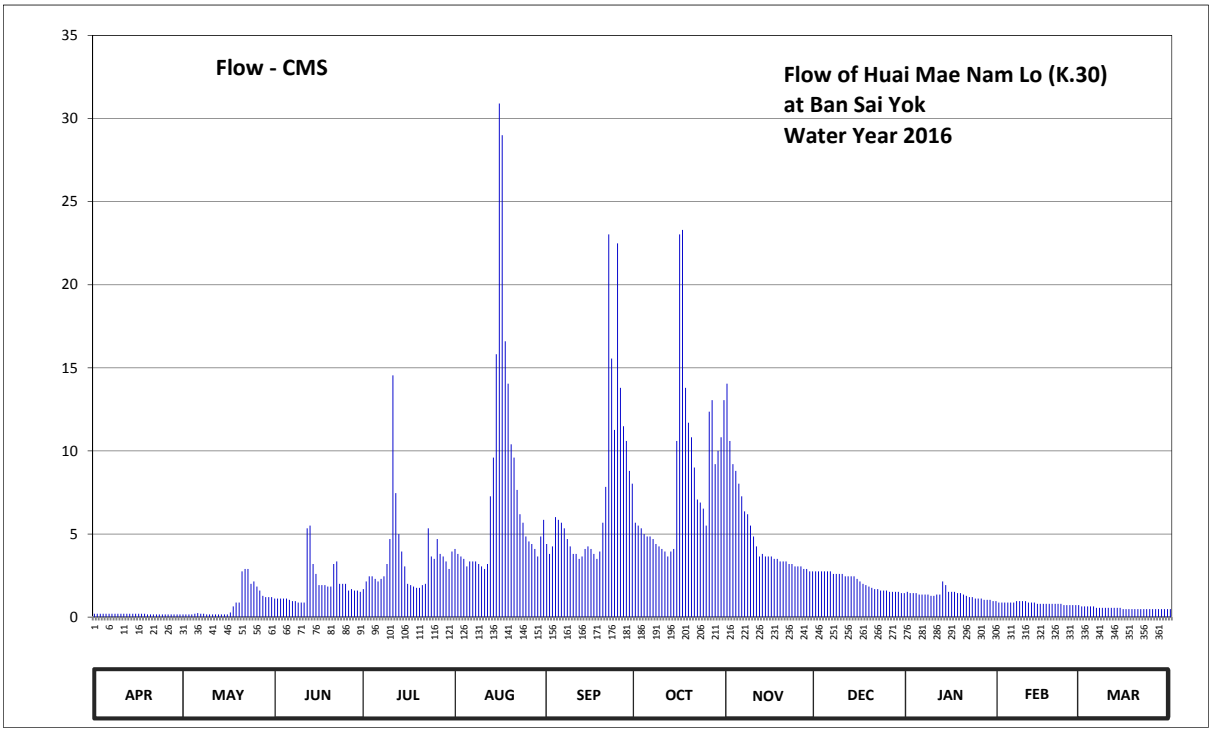
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.85	67.84	67.99	68.06	68.24	68.26	68.34	68.75	68.15	68.04	67.96	67.93	
2	67.85	67.84	67.99	68.11	68.22	68.22	68.33	68.60	68.15	68.03	67.96	67.93	
3	67.85	67.84	67.99	68.13	68.21	68.25	68.32	68.53	68.15	68.03	67.96	67.93	
4	67.85	67.84	67.99	68.13	68.20	68.36	68.30	68.51	68.15	68.03	67.96	67.93	
5	67.85	67.85	67.99	68.12	68.17	68.35	68.29	68.47	68.15	68.02	67.96	67.93	
6	67.85	67.86	67.98	68.11	68.19	68.34	68.29	68.43	68.15	68.02	67.96	67.92	
7	67.85	67.85	67.97	68.12	68.19	68.32	68.28	68.38	68.14	68.02	67.97	67.92	
8	67.85	67.85	67.97	68.13	68.19	68.28	68.26	68.37	68.14	68.02	67.97	67.92	
9	67.85	67.84	67.96	68.18	68.18	68.25	68.25	68.33	68.14	68.01	67.97	67.92	
10	67.85	67.84	67.96	68.28	68.17	68.22	68.24	68.29	68.14	68.01	67.97	67.92	
11	67.85	67.84	67.96	68.77	68.16	68.22	68.23	68.25	68.13	68.02	67.96	67.92	
12	67.85	67.84	68.32	68.44	68.18	68.20	68.21	68.21	68.13	68.02	67.96	67.92	
13	67.85	67.84	68.33	68.30	68.43	68.21	68.23	68.22	68.13	68.11	67.96	67.92	
14	67.85	67.84	68.18	68.23	68.55	68.24	68.24	68.21	68.13	68.09	67.95	67.92	
15	67.85	67.84	68.14	68.17	68.82	68.25	68.60	68.21	68.12	68.04	67.95	67.91	
16	67.85	67.84	68.09	68.10	69.35	68.24	69.09	68.21	68.11	68.04	67.95	67.91	
17	67.85	67.87	68.09	68.09	69.29	68.22	69.10	68.20	68.10	68.04	67.95	67.91	
18	67.85	67.93	68.09	68.08	68.85	68.20	68.74	68.20	68.09	68.03	67.95	67.91	
19	67.84	67.96	68.08	68.07	68.75	68.23	68.65	68.19	68.08	68.03	67.95	67.91	
20	67.84	67.96	68.08	68.07	68.59	68.34	68.61	68.19	68.07	68.02	67.95	67.91	
21	67.84	68.15	68.18	68.09	68.55	68.46	68.52	68.19	68.06	68.01	67.95	67.91	
22	67.84	68.16	68.19	68.10	68.45	69.09	68.42	68.18	68.06	68.00	67.95	67.91	
23	67.84	68.16	68.10	68.32	68.37	68.81	68.41	68.18	68.05	68.00	67.94	67.91	
24	67.84	68.10	68.10	68.21	68.34	68.63	68.39	68.17	68.05	67.99	67.94	67.91	
25	67.84	68.11	68.10	68.20	68.29	69.07	68.33	68.17	68.05	67.99	67.94	67.91	
26	67.84	68.08	68.05	68.28	68.27	68.74	68.68	68.17	68.04	67.99	67.94	67.91	
27	67.84	68.05	68.06	68.22	68.26	68.64	68.71	68.16	68.04	67.98	67.94	67.91	
28	67.84	68.01	68.05	68.21	68.24	68.60	68.53	68.16	68.04	67.98	67.94	67.91	
29	67.84	68.00	68.05	68.19	68.21	68.51	68.57	68.15	68.04	67.98		67.91	
30	67.84	68.00	68.04	68.16	68.29	68.47	68.61	68.15	68.03	67.97		67.91	
31		68.00		68.23	68.35		68.71		68.03	67.97		67.91	
Mean	67.85	67.94	68.07	68.19	68.40	68.41	68.47	68.28	68.10	68.02	67.95	67.92	
Max	67.85	68.16	68.33	68.77	69.35	69.09	69.10	68.75	68.15	68.11	67.97	67.93	69.35
Min	67.84	67.84	67.96	68.06	68.16	68.20	68.21	68.15	68.03	67.97	67.94	67.91	67.84

Annual Max Momentary Gage Height 69.40 m. (MSL.) , at 06.00 Hours , on Aug 17, 2016

Zero Gage at Bottom Elevation 68.00 m. (MSL.) , River Bed 67.55 m. (MSL.)

Left Bank Elevation 76.53 m. (MSL.) ,

Right Bank Elevation 80.17 m. (MSL.) , Drainage Are 466 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.16	1.12	1.68	4.10	4.40	5.68	14.05	2.75	1.52	0.88	0.64	
2	0.20	0.16	1.12	2.15	3.80	3.80	5.51	10.60	2.75	1.44	0.88	0.64	
3	0.20	0.16	1.12	2.45	3.65	4.25	5.34	9.20	2.75	1.44	0.88	0.64	
4	0.20	0.16	1.12	2.45	3.50	6.02	5.00	8.80	2.75	1.44	0.88	0.64	
5	0.20	0.20	1.12	2.30	3.05	5.85	4.85	8.03	2.75	1.36	0.88	0.64	
6	0.20	0.24	1.04	2.15	3.35	5.68	4.85	7.27	2.75	1.36	0.88	0.56	
7	0.20	0.20	0.96	2.30	3.35	5.34	4.70	6.36	2.60	1.36	0.96	0.56	
8	0.20	0.20	0.96	2.45	3.35	4.70	4.40	6.19	2.60	1.36	0.96	0.56	
9	0.20	0.16	0.88	3.20	3.20	4.25	4.25	5.51	2.60	1.28	0.96	0.56	
10	0.20	0.16	0.88	4.70	3.05	3.80	4.10	4.85	2.60	1.28	0.96	0.56	
11	0.20	0.16	0.88	14.55	2.90	3.80	3.95	4.25	2.45	1.36	0.88	0.56	
12	0.20	0.16	5.34	7.46	3.20	3.50	3.65	3.65	2.45	1.36	0.88	0.56	
13	0.20	0.16	5.51	5.00	7.27	3.65	3.95	3.80	2.45	2.15	0.88	0.56	
14	0.20	0.16	3.20	3.95	9.60	4.10	4.10	3.65	2.45	1.92	0.80	0.56	
15	0.20	0.16	2.60	3.05	15.82	4.25	10.60	3.65	2.30	1.52	0.80	0.48	
16	0.20	0.16	1.92	2.00	30.90	4.10	23.03	3.65	2.15	1.52	0.80	0.48	
17	0.20	0.28	1.92	1.92	29.00	3.80	23.30	3.50	2.00	1.52	0.80	0.48	
18	0.20	0.64	1.92	1.84	16.60	3.50	13.80	3.50	1.92	1.44	0.80	0.48	
19	0.16	0.88	1.84	1.76	14.05	3.95	11.70	3.35	1.84	1.44	0.80	0.48	
20	0.16	0.88	1.84	1.76	10.40	5.68	10.82	3.35	1.76	1.36	0.80	0.48	
21	0.16	2.75	3.20	1.92	9.60	7.84	9.00	3.35	1.68	1.28	0.80	0.48	
22	0.16	2.90	3.35	2.00	7.65	23.03	7.08	3.20	1.68	1.20	0.80	0.48	
23	0.16	2.90	2.00	5.34	6.19	15.56	6.89	3.20	1.60	1.20	0.72	0.48	
24	0.16	2.00	2.00	3.65	5.68	11.26	6.53	3.05	1.60	1.12	0.72	0.48	
25	0.16	2.15	2.00	3.50	4.85	22.49	5.51	3.05	1.60	1.12	0.72	0.48	
26	0.16	1.84	1.60	4.70	4.55	13.80	12.36	3.05	1.52	1.12	0.72	0.48	
27	0.16	1.60	1.68	3.80	4.40	11.48	13.05	2.90	1.52	1.04	0.72	0.48	
28	0.16	1.28	1.60	3.65	4.10	10.60	9.20	2.90	1.52	1.04	0.72	0.48	
29	0.16	1.20	1.60	3.35	3.65	8.80	10.00	2.75	1.52	1.04		0.48	
30	0.16	1.20	1.52	2.90	4.85	8.03	10.82	2.75	1.44	0.96		0.48	
31		1.20		3.95	5.85		13.05		1.44	0.96		0.48	
Total	5.52	26.46	57.84	107.88	235.51	221.31	261.07	147.41	65.79	41.51	23.28	16.40	1209.98	CMSDAY
Mean	0.18	0.85	1.93	3.48	7.60	7.38	8.42	4.91	2.12	1.34	0.83	0.53	3.32	CMS
Max	0.20	2.90	5.51	14.55	30.90	23.03	23.30	14.05	2.75	2.15	0.96	0.64	30.90	CMS
Min	0.16	0.16	0.88	1.68	2.90	3.50	3.65	2.75	1.44	0.96	0.72	0.48	0.16	CMS
Runoff	0.48	2.29	5.00	9.32	20.35	19.12	22.56	12.74	5.68	3.59	2.01	1.42	104.54	MCM

Momentary Peak 32.50 CMS. at 69.40 m. (MSL.) at 06.00 Hours , on Aug 17, 2016

Runoff Yield 7.11 Liters/Second/Square KM. Momentary Peak Yield 69.740 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

Ban Nam Chon **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	799 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+54.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 5 meters from the top staff gage. **Elevation** +70.630 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

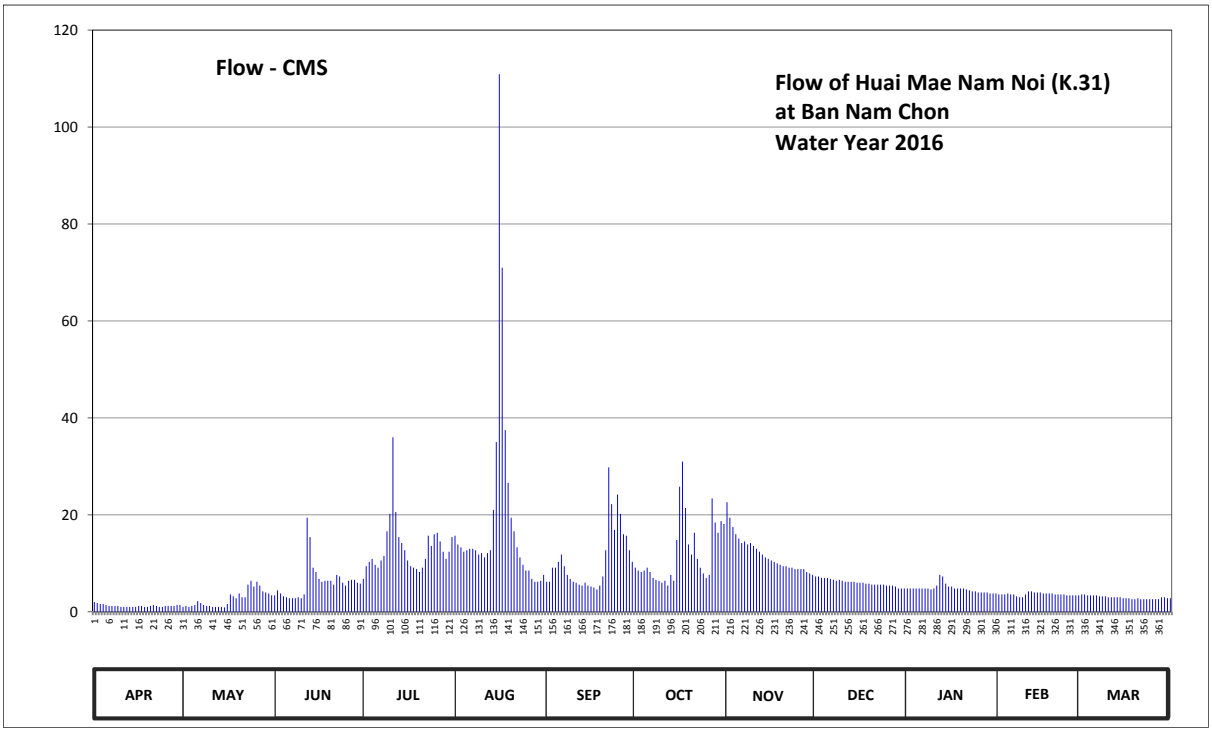
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	57.15	57.10	57.22	57.39	57.69	57.36	57.47	57.89	57.41	57.29	57.23	57.23	
2	57.14	57.11	57.27	57.48	57.63	57.36	57.45	57.81	57.41	57.29	57.23	57.23	
3	57.13	57.10	57.24	57.51	57.61	57.47	57.44	57.75	57.40	57.29	57.23	57.22	
4	57.13	57.11	57.21	57.53	57.58	57.47	57.45	57.70	57.40	57.29	57.24	57.22	
5	57.12	57.12	57.20	57.49	57.59	57.51	57.47	57.67	57.40	57.29	57.23	57.22	
6	57.11	57.16	57.19	57.47	57.60	57.56	57.44	57.64	57.39	57.29	57.23	57.22	
7	57.11	57.14	57.19	57.52	57.60	57.48	57.40	57.65	57.38	57.29	57.21	57.21	
8	57.11	57.12	57.19	57.55	57.59	57.42	57.38	57.63	57.37	57.29	57.20	57.21	
9	57.11	57.11	57.20	57.72	57.56	57.39	57.37	57.64	57.38	57.28	57.20	57.21	
10	57.10	57.11	57.19	57.83	57.57	57.36	57.35	57.62	57.37	57.29	57.23	57.20	
11	57.10	57.10	57.23	58.22	57.54	57.35	57.37	57.60	57.36	57.32	57.26	57.20	
12	57.10	57.10	57.81	57.84	57.57	57.33	57.32	57.58	57.36	57.42	57.26	57.20	
13	57.10	57.10	57.68	57.68	57.59	57.32	57.42	57.56	57.36	57.41	57.25	57.20	
14	57.10	57.10	57.47	57.64	57.85	57.35	57.37	57.54	57.36	57.34	57.25	57.20	
15	57.10	57.09	57.44	57.59	58.20	57.32	57.66	57.53	57.35	57.31	57.25	57.19	
16	57.11	57.13	57.39	57.52	59.31	57.31	57.97	57.52	57.35	57.31	57.24	57.19	
17	57.11	57.23	57.36	57.48	58.80	57.30	58.10	57.51	57.35	57.29	57.24	57.19	
18	57.10	57.21	57.37	57.47	58.25	57.28	57.86	57.50	57.34	57.29	57.24	57.18	
19	57.10	57.19	57.37	57.46	57.99	57.32	57.63	57.49	57.34	57.29	57.24	57.18	
20	57.11	57.24	57.37	57.44	57.81	57.41	57.56	57.48	57.33	57.29	57.23	57.19	
21	57.12	57.20	57.33	57.47	57.72	57.59	57.71	57.48	57.33	57.28	57.23	57.18	
22	57.11	57.20	57.42	57.53	57.61	58.07	57.53	57.47	57.33	57.27	57.23	57.18	
23	57.10	57.33	57.41	57.69	57.54	57.88	57.47	57.47	57.33	57.26	57.23	57.18	
24	57.10	57.37	57.35	57.62	57.49	57.73	57.43	57.46	57.33	57.26	57.22	57.18	
25	57.11	57.31	57.32	57.70	57.45	57.93	57.40	57.46	57.32	57.25	57.22	57.18	
26	57.11	57.36	57.37	57.71	57.45	57.83	57.42	57.46	57.32	57.25	57.22	57.18	
27	57.11	57.32	57.38	57.65	57.39	57.70	57.91	57.46	57.32	57.25	57.22	57.18	
28	57.11	57.26	57.38	57.58	57.36	57.69	57.78	57.44	57.31	57.25	57.22	57.20	
29	57.12	57.25	57.35	57.53	57.36	57.59	57.71	57.43	57.29	57.24		57.20	
30	57.12	57.24	57.34	57.58	57.37	57.51	57.79	57.42	57.29	57.24		57.19	
31		57.22		57.68	57.42		57.77		57.29	57.24		57.19	
Mean	57.11	57.18	57.34	57.60	57.71	57.51	57.56	57.56	57.35	57.29	57.23	57.20	
Max	57.15	57.37	57.81	58.22	59.31	58.07	58.10	57.89	57.41	57.42	57.26	57.23	59.31
Min	57.10	57.09	57.19	57.39	57.36	57.28	57.32	57.42	57.29	57.24	57.20	57.18	57.09

Annual Max Momentary Gage Height 59.80 m. (MSL.) , at 12.00 Hours , on Aug 16 , 2016

Zero Gage at Bottom Elevation 54.20 m. (MSL.) , River Bed 56.47 m. (MSL.)

Left Bank Elevation 69.01 m. (MSL.) ,

Right Bank Elevation 69.18 m. (MSL.) , Drainage Are 799 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	1.00	3.40	6.80	15.70	6.20	9.10	22.60	7.30	4.80	3.60	3.60	
2	1.80	1.20	4.40	9.40	13.90	6.20	8.50	19.40	7.30	4.80	3.60	3.60	
3	1.60	1.00	3.80	10.30	13.30	9.10	8.20	17.50	7.00	4.80	3.60	3.40	
4	1.60	1.20	3.20	10.90	12.40	9.10	8.50	16.00	7.00	4.80	3.80	3.40	
5	1.40	1.40	3.00	9.70	12.70	10.30	9.10	15.10	7.00	4.80	3.60	3.40	
6	1.20	2.20	2.80	9.10	13.00	11.80	8.20	14.20	6.80	4.80	3.60	3.40	
7	1.20	1.80	2.80	10.60	13.00	9.40	7.00	14.50	6.60	4.80	3.20	3.20	
8	1.20	1.40	2.80	11.50	12.70	7.60	6.60	13.90	6.40	4.80	3.00	3.20	
9	1.20	1.20	3.00	16.60	11.80	6.80	6.40	14.20	6.60	4.60	3.00	3.20	
10	1.00	1.20	2.80	20.20	12.10	6.20	6.00	13.60	6.40	4.80	3.60	3.00	
11	1.00	1.00	3.60	36.00	11.20	6.00	6.40	13.00	6.20	5.40	4.20	3.00	
12	1.00	1.00	19.40	20.60	12.10	5.60	5.40	12.40	6.20	7.60	4.20	3.00	
13	1.00	1.00	15.40	15.40	12.70	5.40	7.60	11.80	6.20	7.30	4.00	3.00	
14	1.00	1.00	9.10	14.20	21.00	6.00	6.40	11.20	6.20	5.80	4.00	3.00	
15	1.00	0.90	8.20	12.70	35.00	5.40	14.80	10.90	6.00	5.20	4.00	2.80	
16	1.20	1.60	6.80	10.60	110.90	5.20	25.80	10.60	6.00	5.20	3.80	2.80	
17	1.20	3.60	6.20	9.40	71.00	5.00	31.00	10.30	6.00	4.80	3.80	2.80	
18	1.00	3.20	6.40	9.10	37.50	4.60	21.40	10.00	5.80	4.80	3.80	2.60	
19	1.00	2.80	6.40	8.80	26.60	5.40	13.90	9.70	5.80	4.80	3.80	2.60	
20	1.20	3.80	6.40	8.20	19.40	7.30	11.80	9.40	5.60	4.80	3.60	2.80	
21	1.40	3.00	5.60	9.10	16.60	12.70	16.30	9.40	5.60	4.60	3.60	2.60	
22	1.20	3.00	7.60	10.90	13.30	29.80	10.90	9.10	5.60	4.40	3.60	2.60	
23	1.00	5.60	7.30	15.70	11.20	22.20	9.10	9.10	5.60	4.20	3.60	2.60	
24	1.00	6.40	6.00	13.60	9.70	16.90	7.90	8.80	5.60	4.20	3.40	2.60	
25	1.20	5.20	5.40	16.00	8.50	24.20	7.00	8.80	5.40	4.00	3.40	2.60	
26	1.20	6.20	6.40	16.30	8.50	20.20	7.60	8.80	5.40	4.00	3.40	2.60	
27	1.20	5.40	6.60	14.50	6.80	16.00	23.40	8.80	5.40	4.00	3.40	2.60	
28	1.20	4.20	6.60	12.40	6.20	15.70	18.40	8.20	5.20	4.00	3.40	3.00	
29	1.40	4.00	6.00	10.90	6.20	12.70	16.30	7.90	4.80	3.80		3.00	
30	1.40	3.80	5.80	12.40	6.40	10.30	18.70	7.60	4.80	3.80		2.80	
31		3.40		15.40	7.60		18.10		4.80	3.80		2.80	
Total	37.00	83.70	183.20	407.30	589.00	319.30	375.80	356.80	186.60	148.30	101.60	91.60	2880.20 CMSDAY
Mean	1.23	2.70	6.11	13.14	19.00	10.64	12.12	11.89	6.02	4.78	3.63	2.95	7.89 CMS
Max	2.00	6.40	19.40	36.00	110.90	29.80	31.00	22.60	7.30	7.60	4.20	3.60	110.90 CMS
Min	1.00	0.90	2.80	6.80	6.20	4.60	5.40	7.60	4.80	3.80	3.00	2.60	0.90 CMS
Runoff	3.20	7.23	15.83	35.19	50.89	27.59	32.47	30.83	16.12	12.81	8.78	7.91	248.85 MCM

Momentary Peak 160.00 CMS. at 59.80 m. (MSL.) at 12.00 Hours , on Aug 16 , 2016

Runoff Yield 9.88 Liters/Second/Square KM. Momentary Peak Yield 200.250 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

Ban Bong Ti **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	518 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+84.191 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 6.50 meters from the top staff gage. **Elevation** +90.239 m. (MSL.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Flot	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 82 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

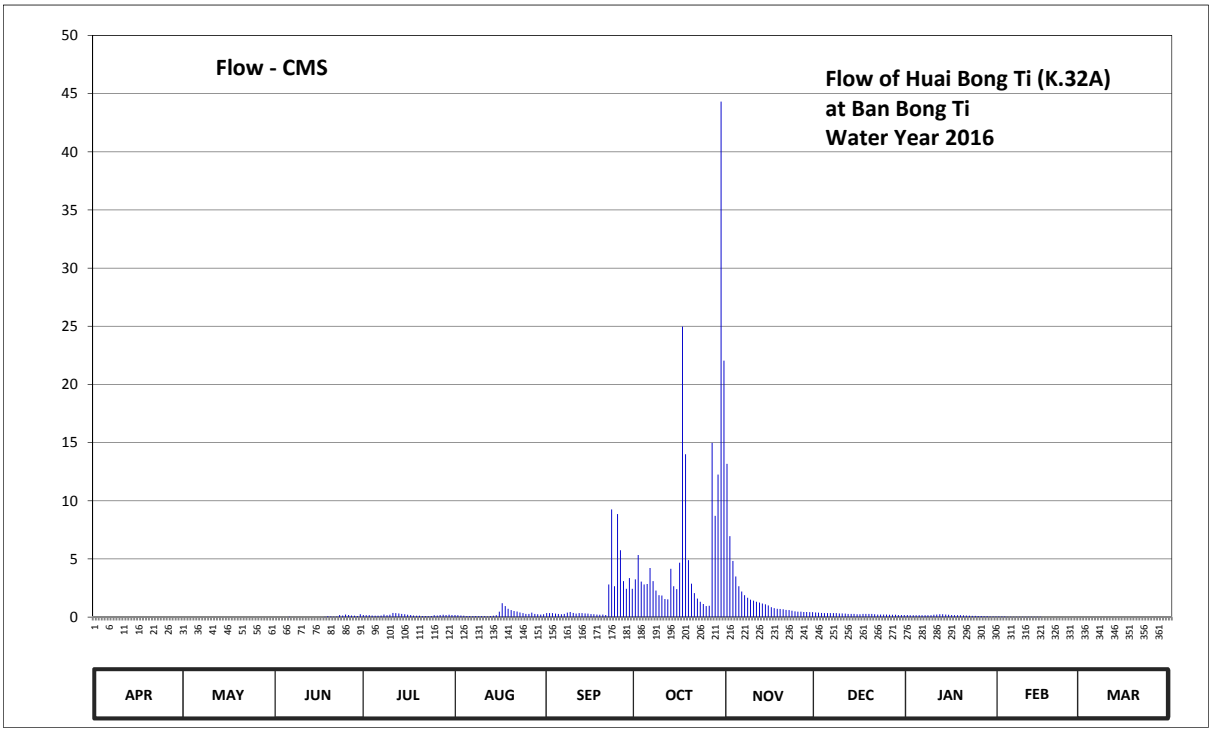
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.44	84.44	84.47	84.59	84.59	84.67	85.59	86.69	84.95	84.82	84.73	84.70	
2	84.44	84.44	84.47	84.58	84.58	84.67	85.93	86.33	84.94	84.81	84.73	84.70	
3	84.44	84.44	84.47	84.58	84.57	84.67	85.55	86.09	84.93	84.81	84.73	84.70	
4	84.44	84.44	84.47	84.57	84.56	84.65	85.50	85.88	84.92	84.81	84.72	84.70	
5	84.44	84.44	84.49	84.56	84.55	84.64	85.51	85.71	84.92	84.81	84.72	84.69	
6	84.44	84.44	84.51	84.56	84.55	84.62	85.77	85.60	84.92	84.81	84.72	84.68	
7	84.44	84.44	84.50	84.57	84.54	84.64	85.56	85.51	84.92	84.81	84.72	84.68	
8	84.44	84.44	84.50	84.61	84.55	84.69	85.37	85.45	84.92	84.81	84.72	84.68	
9	84.44	84.44	84.50	84.58	84.54	84.72	85.26	85.40	84.91	84.81	84.71	84.68	
10	84.44	84.44	84.49	84.60	84.54	84.68	85.25	85.37	84.91	84.83	84.71	84.68	
11	84.44	84.44	84.49	84.68	84.54	84.65	85.15	85.33	84.90	84.85	84.71	84.68	
12	84.44	84.44	84.49	84.67	84.53	84.67	85.14	85.30	84.89	84.86	84.71	84.68	
13	84.44	84.44	84.49	84.66	84.55	84.67	86.00	85.27	84.88	84.86	84.71	84.68	
14	84.44	84.44	84.49	84.64	84.56	84.66	85.71	85.24	84.88	84.85	84.71	84.68	
15	84.44	84.44	84.49	84.62	84.58	84.65	85.65	85.20	84.87	84.83	84.71	84.67	
16	84.44	84.44	84.48	84.60	84.73	84.63	86.07	85.14	84.87	84.82	84.70	84.67	
17	84.44	84.44	84.49	84.59	85.03	84.62	87.38	85.11	84.88	84.81	84.70	84.65	
18	84.44	84.44	84.51	84.57	84.95	84.61	86.75	85.09	84.88	84.81	84.70	84.64	
19	84.44	84.44	84.54	84.56	84.86	84.60	86.10	85.08	84.88	84.81	84.70	84.63	
20	84.44	84.44	84.53	84.56	84.80	84.61	85.76	85.07	84.88	84.80	84.70	84.59	
21	84.44	84.44	84.52	84.55	84.76	84.59	85.56	85.05	84.86	84.79	84.70	84.57	
22	84.44	84.44	84.53	84.55	84.74	85.50	85.43	85.04	84.85	84.78	84.70	84.56	
23	84.44	84.44	84.59	84.54	84.70	86.36	85.33	85.02	84.85	84.77	84.70	84.54	
24	84.44	84.44	84.57	84.55	84.67	85.71	85.25	85.00	84.85	84.77	84.70	84.54	
25	84.44	84.44	84.61	84.58	84.64	86.47	85.18	84.98	84.85	84.76	84.70	84.54	
26	84.44	84.44	84.59	84.57	84.64	86.21	85.19	84.98	84.84	84.76	84.70	84.53	
27	84.44	84.44	84.57	84.59	84.69	85.81	86.82	84.97	84.83	84.75	84.70	84.51	
28	84.44	84.44	84.56	84.60	84.64	85.66	86.46	84.97	84.83	84.75	84.70	84.51	
29	84.44	84.44	84.55	84.59	84.62	85.61	86.62	84.96	84.82	84.74		84.51	
30	84.44	84.44	84.62	84.60	84.61	85.41	88.03	84.96	84.82	84.74		84.50	
31		84.44		84.59	84.62		87.24		84.82	84.74		84.49	
Mean	84.44	84.44	84.52	84.59	84.65	85.01	85.87	85.33	84.88	84.80	84.71	84.62	
Max	84.44	84.44	84.62	84.68	85.03	86.47	88.03	86.69	84.95	84.86	84.73	84.70	88.03
Min	84.44	84.44	84.47	84.54	84.53	84.59	85.14	84.96	84.82	84.74	84.70	84.49	84.44

Annual Max Momentary Gage Height 88.59 m. (MSL.) , at 12.00 Hours , on Oct 30 , 2016

Zero Gage at Bottom Elevation 84.19 m. (MSL.) , River Bed 85.17 m. (MSL.)

Left Bank Elevation 90.29 m. (MSL.) ,

Right Bank Elevation 91.77 m. (MSL.) , Drainage Are 518 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.18	0.18	0.34	3.25	13.17	0.40	0.18	0.05	0.00		
2	0.00	0.00	0.00	0.16	0.16	0.34	5.34	6.96	0.38	0.17	0.05	0.00		
3	0.00	0.00	0.00	0.16	0.14	0.34	3.05	4.83	0.36	0.17	0.05	0.00		
4	0.00	0.00	0.00	0.14	0.12	0.30	2.80	3.49	0.34	0.17	0.03	0.00		
5	0.00	0.00	0.00	0.12	0.10	0.28	2.85	2.65	0.34	0.17	0.03	0.00		
6	0.00	0.00	0.02	0.12	0.10	0.24	4.22	2.20	0.34	0.17	0.03	0.00		
7	0.00	0.00	0.00	0.14	0.08	0.28	3.10	1.89	0.34	0.17	0.03	0.00		
8	0.00	0.00	0.00	0.22	0.10	0.38	2.28	1.67	0.34	0.17	0.03	0.00		
9	0.00	0.00	0.00	0.16	0.08	0.44	1.88	1.50	0.32	0.17	0.02	0.00		
10	0.00	0.00	0.00	0.20	0.08	0.36	1.85	1.42	0.32	0.20	0.02	0.00		
11	0.00	0.00	0.00	0.36	0.08	0.30	1.55	1.32	0.30	0.22	0.02	0.00		
12	0.00	0.00	0.00	0.34	0.06	0.34	1.52	1.25	0.28	0.24	0.02	0.00		
13	0.00	0.00	0.00	0.32	0.10	0.34	4.15	1.17	0.27	0.24	0.02	0.00		
14	0.00	0.00	0.00	0.28	0.12	0.32	2.65	1.10	0.27	0.22	0.02	0.00		
15	0.00	0.00	0.00	0.24	0.16	0.30	2.40	1.00	0.25	0.20	0.02	0.00		
16	0.00	0.00	0.00	0.20	0.46	0.26	4.68	0.85	0.25	0.18	0.00	0.00		
17	0.00	0.00	0.00	0.18	1.19	0.24	24.98	0.77	0.27	0.17	0.00	0.00		
18	0.00	0.00	0.02	0.14	0.95	0.22	14.00	0.72	0.27	0.17	0.00	0.00		
19	0.00	0.00	0.08	0.12	0.72	0.20	4.90	0.70	0.27	0.17	0.00	0.00		
20	0.00	0.00	0.06	0.12	0.60	0.22	2.87	0.67	0.27	0.15	0.00	0.00		
21	0.00	0.00	0.04	0.10	0.52	0.18	2.06	0.62	0.24	0.14	0.00	0.00		
22	0.00	0.00	0.06	0.10	0.48	2.80	1.60	0.60	0.22	0.12	0.00	0.00		
23	0.00	0.00	0.18	0.08	0.40	9.26	1.32	0.55	0.22	0.11	0.00	0.00		
24	0.00	0.00	0.14	0.10	0.34	2.65	1.12	0.50	0.22	0.11	0.00	0.00		
25	0.00	0.00	0.22	0.16	0.28	8.85	0.95	0.46	0.22	0.09	0.00	0.00		
26	0.00	0.00	0.18	0.14	0.28	5.75	0.97	0.46	0.21	0.09	0.00	0.00		
27	0.00	0.00	0.14	0.18	0.38	3.10	14.98	0.44	0.20	0.08	0.00	0.00		
28	0.00	0.00	0.12	0.20	0.28	2.44	8.70	0.44	0.20	0.08	0.00	0.00		
29	0.00	0.00	0.10	0.18	0.24	3.35	12.26	0.42	0.18	0.06		0.00		
30	0.00	0.00	0.24	0.20	0.22	2.44	44.31	0.42	0.18	0.06		0.00		
31		0.00		0.18	0.24		22.04		0.18	0.06		0.00		
Total	0.00	0.00	1.60	5.52	9.24	46.86	204.63	54.24	8.45	4.70	0.44	0.00	335.68	CMSDAY
Mean	0.00	0.00	0.05	0.18	0.30	1.56	6.60	1.81	0.27	0.15	0.02	0.00	0.92	CMS
Max	0.00	0.00	0.24	0.36	1.19	9.26	44.31	13.17	0.40	0.24	0.05	0.00	44.31	CMS
Min	0.00	0.00	0.00	0.08	0.06	0.18	0.95	0.42	0.18	0.06	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.14	0.48	0.80	4.05	17.68	4.69	0.73	0.41	0.04	0.00	29.00	MCM

Momentary Peak 67.92 CMS. at 88.59 m. (MSL.) at 12.00 Hours , on Oct 30 , 2016

Runoff Yield 1.78 Liters/Second/Square KM. Momentary Peak Yield 131.120 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Yai River at Ban Nong Bua , Kanchanaburi (K.35A)

Lat 14 - 03 - 22 N Long 99 - 27 - 32 E

Location : on left bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Mueang **Changwat** Kanchanaburi

Drainge Area	14,444 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+21.498 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 3 meters from the third staff gage. **Elevation** +27.498 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 - 1985 , 1987 to date
Rated by Flot	-
Rated by Current Meter	1984 - 1985 , 1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

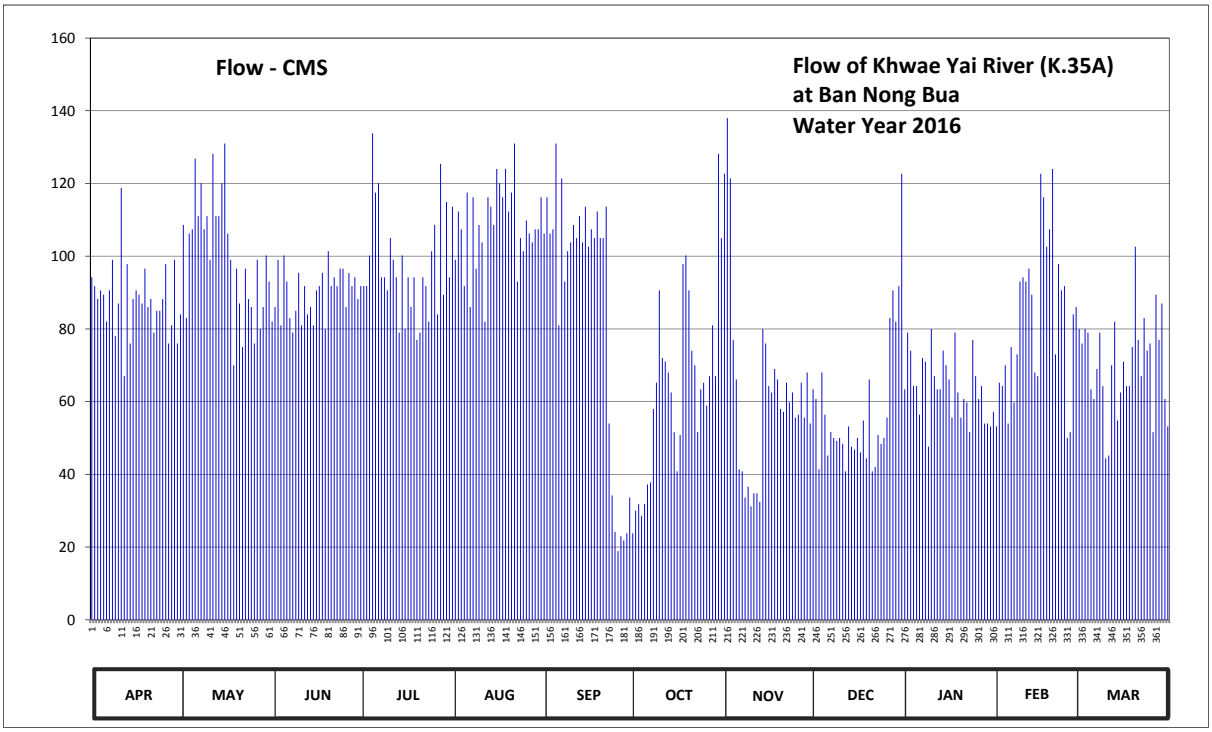
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.86	24.77	24.75	24.84	25.02	24.96	23.97	25.09	24.56	24.56	24.44	24.73	
2	24.84	24.98	24.79	24.84	24.90	25.04	24.10	25.20	24.53	24.72	24.58	24.69	
3	24.81	24.76	24.90	24.84	25.01	24.96	24.13	25.08	24.29	24.67	24.57	24.73	
4	24.83	24.96	24.74	24.91	24.97	24.97	24.07	24.70	24.61	24.57	24.63	24.72	
5	24.82	24.97	24.91	25.17	24.84	25.15	24.13	24.59	24.48	24.57	24.45	24.56	
6	24.75	25.12	24.85	25.05	25.05	24.74	24.22	24.29	24.34	24.48	24.68	24.53	
7	24.83	25.00	24.76	25.07	24.79	25.08	24.23	24.28	24.42	24.65	24.52	24.62	
8	24.90	25.07	24.72	24.86	25.04	24.85	24.50	24.16	24.40	24.64	24.66	24.72	
9	24.71	24.97	24.78	24.86	24.88	24.92	24.58	24.21	24.39	24.37	24.85	24.57	
10	24.80	25.00	24.87	24.83	24.98	24.94	24.83	24.12	24.40	24.73	24.86	24.33	
11	25.06	24.90	24.74	24.95	24.94	24.98	24.65	24.18	24.38	24.60	24.85	24.34	
12	24.60	25.13	24.84	24.90	24.75	24.95	24.64	24.18	24.28	24.56	24.88	24.63	
13	24.89	25.00	24.77	24.86	25.04	25.00	24.61	24.14	24.44	24.56	24.82	24.75	
14	24.69	25.00	24.79	24.72	25.02	24.94	24.55	24.73	24.37	24.67	24.61	24.46	
15	24.81	25.07	24.74	24.91	24.98	25.02	24.42	24.69	24.36	24.63	24.60	24.55	
16	24.83	25.15	24.83	24.73	25.10	24.93	24.28	24.57	24.40	24.59	25.09	24.64	
17	24.82	24.96	24.84	24.86	25.07	24.97	24.41	24.55	24.35	24.47	25.04	24.57	
18	24.80	24.90	24.87	24.79	25.04	24.95	24.89	24.62	24.46	24.72	24.93	24.57	
19	24.88	24.63	24.73	24.86	25.10	25.01	24.91	24.59	24.33	24.55	24.97	24.68	
20	24.79	24.88	24.92	24.70	25.01	24.95	24.83	24.50	24.59	24.47	25.10	24.93	
21	24.81	24.80	24.84	24.72	25.05	24.95	24.67	24.49	24.28	24.53	24.66	24.70	
22	24.72	24.68	24.86	24.86	25.15	25.02	24.63	24.58	24.30	24.52	24.89	24.60	
23	24.78	24.88	24.84	24.84	24.85	24.45	24.42	24.52	24.41	24.42	24.83	24.76	
24	24.78	24.81	24.88	24.75	24.95	24.17	24.56	24.55	24.38	24.70	24.84	24.67	
25	24.81	24.79	24.88	24.92	24.92	23.98	24.58	24.47	24.40	24.60	24.40	24.69	
26	24.89	24.69	24.79	24.98	24.99	23.84	24.51	24.48	24.47	24.53	24.42	24.42	
27	24.69	24.90	24.87	24.77	24.96	23.95	24.60	24.58	24.76	24.57	24.77	24.82	
28	24.74	24.73	24.84	25.11	24.94	23.92	24.74	24.47	24.83	24.45	24.79	24.70	
29	24.90	24.79	24.86	24.82	24.97	23.97	24.60	24.61	24.75	24.45		24.80	
30	24.69	24.91	24.81	25.03	24.97	24.16	25.13	24.45	24.84	24.44		24.53	
31		24.85		24.86	25.04		24.95		25.09	24.49		24.44	
Mean	24.80	24.90	24.82	24.88	24.98	24.72	24.53	24.52	24.48	24.56	24.74	24.63	
Max	25.06	25.15	24.92	25.17	25.15	25.15	25.13	25.20	25.09	24.73	25.10	24.93	25.20
Min	24.60	24.63	24.72	24.70	24.75	23.84	23.97	24.12	24.28	24.37	24.40	24.33	23.84

Annual Max Momentary Gage Height 26.12 m. (MSL.) , at 02.00 Hours , on Jul 6 , 2016

Zero Gage at Bottom Elevation 21.50 m. (MSL.) , River Bed 22.69 m. (MSL.)

Left Bank Elevation 26.90 m. (MSL.) ,

Right Bank Elevation 30.88 m. (MSL.) , Drainage Are 14,444 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.20	84.00	82.00	91.80	113.60	106.20	23.80	122.70	63.40	63.40	53.20	80.00	
2	91.80	108.60	86.00	91.80	99.00	116.20	30.00	138.00	60.70	79.00	65.20	76.00	
3	88.20	83.00	99.00	91.80	112.30	106.20	31.80	121.40	41.40	74.00	64.30	80.00	
4	90.60	106.20	81.00	100.20	107.40	107.40	28.50	77.00	68.00	64.30	70.00	79.00	
5	89.40	107.40	100.20	133.80	91.80	131.00	31.80	66.10	56.40	64.30	54.00	63.40	
6	82.00	126.80	93.00	117.50	117.50	81.00	37.20	41.40	45.20	56.40	75.00	60.70	
7	90.60	111.00	83.00	120.10	86.00	121.40	37.80	40.80	51.60	72.00	59.80	69.00	
8	99.00	120.10	79.00	94.20	116.20	93.00	58.00	33.60	50.00	71.00	73.00	79.00	
9	78.00	107.40	85.00	94.20	96.60	101.40	65.20	36.60	49.20	47.60	93.00	64.30	
10	87.00	111.00	95.40	90.60	108.60	103.80	90.60	31.20	50.00	80.00	94.20	44.40	
11	118.80	99.00	81.00	105.00	103.80	108.60	72.00	34.80	48.40	67.00	93.00	45.20	
12	67.00	128.20	91.80	99.00	82.00	105.00	71.00	34.80	40.80	63.40	96.60	70.00	
13	97.80	111.00	84.00	94.20	116.20	111.00	68.00	32.40	53.20	63.40	89.40	82.00	
14	76.00	111.00	86.00	79.00	113.60	103.80	62.50	80.00	47.60	74.00	68.00	54.80	
15	88.20	120.10	81.00	100.20	108.60	113.60	51.60	76.00	46.80	70.00	67.00	62.50	
16	90.60	131.00	90.60	80.00	124.00	102.60	40.80	64.30	50.00	66.10	122.70	71.00	
17	89.40	106.20	91.80	94.20	120.10	107.40	50.80	62.50	46.00	55.60	116.20	64.30	
18	87.00	99.00	95.40	86.00	116.20	105.00	97.80	69.00	54.80	79.00	102.60	64.30	
19	96.60	70.00	80.00	94.20	124.00	112.30	100.20	66.10	44.40	62.50	107.40	75.00	
20	86.00	96.60	101.40	77.00	112.30	105.00	90.60	58.00	66.10	55.60	124.00	102.60	
21	88.20	87.00	91.80	79.00	117.50	105.00	74.00	57.20	40.80	60.70	73.00	77.00	
22	79.00	75.00	94.20	94.20	131.00	113.60	70.00	65.20	42.00	59.80	97.80	67.00	
23	85.00	96.60	91.80	91.80	93.00	54.00	51.60	59.80	50.80	51.60	90.60	83.00	
24	85.00	88.20	96.60	82.00	105.00	34.20	63.40	62.50	48.40	77.00	91.80	74.00	
25	88.20	86.00	96.60	101.40	101.40	24.20	65.20	55.60	50.00	67.00	50.00	76.00	
26	97.80	76.00	86.00	108.60	109.80	18.90	58.90	56.40	55.60	60.70	51.60	51.60	
27	76.00	99.00	95.40	84.00	106.20	23.00	67.00	65.20	83.00	64.30	84.00	89.40	
28	81.00	80.00	91.80	125.40	103.80	21.80	81.00	55.60	90.60	54.00	86.00	77.00	
29	99.00	86.00	94.20	89.40	107.40	23.80	67.00	68.00	82.00	54.00		87.00	
30	76.00	100.20	88.20	114.90	107.40	33.60	128.20	54.00	91.80	53.20		60.70	
31		93		94.20	116.20		105.00		122.70	57.20		53.20	
Total	2643.40	3104.60	2693.20	2999.70	3368.50	2594.00	1971.30	1886.20	1791.70	1988.10	2313.40	2183.40	29537.50 CMSDAY
Mean	88.11	100.15	89.77	96.76	108.66	86.47	63.59	62.87	57.80	64.13	82.62	70.43	80.92 CMS
Max	118.80	131.00	101.40	133.80	131.00	131.00	128.20	138.00	122.70	80.00	124.00	102.60	138.00 CMS
Min	67.00	70.00	79.00	77.00	82.00	18.90	23.80	31.20	40.80	47.60	50.00	44.40	18.90 CMS
Runoff	228.39	268.24	232.69	259.17	291.04	224.12	170.32	162.97	154.80	171.77	199.88	188.65	2552.04 MCM

Momentary Peak 308.60 CMS. at 26.12 m. (MSL.) at 02.00 Hours , on Jul 6 , 2016

Runoff Yield 5.60 Liters/Second/Square KM. Momentary Peak Yield 21.370 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Wang Yen , Kanchanaburi (K.37)

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

Ban Wang Yen **Amphoe** Mueang **Changwat** Kanchanaburi

Drainge Area	10,557 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+19.840 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 5 meters from the automatic gage building. **Elevation** +33.266 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Flot	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam.
	Stage-discharge relation defined by 38 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

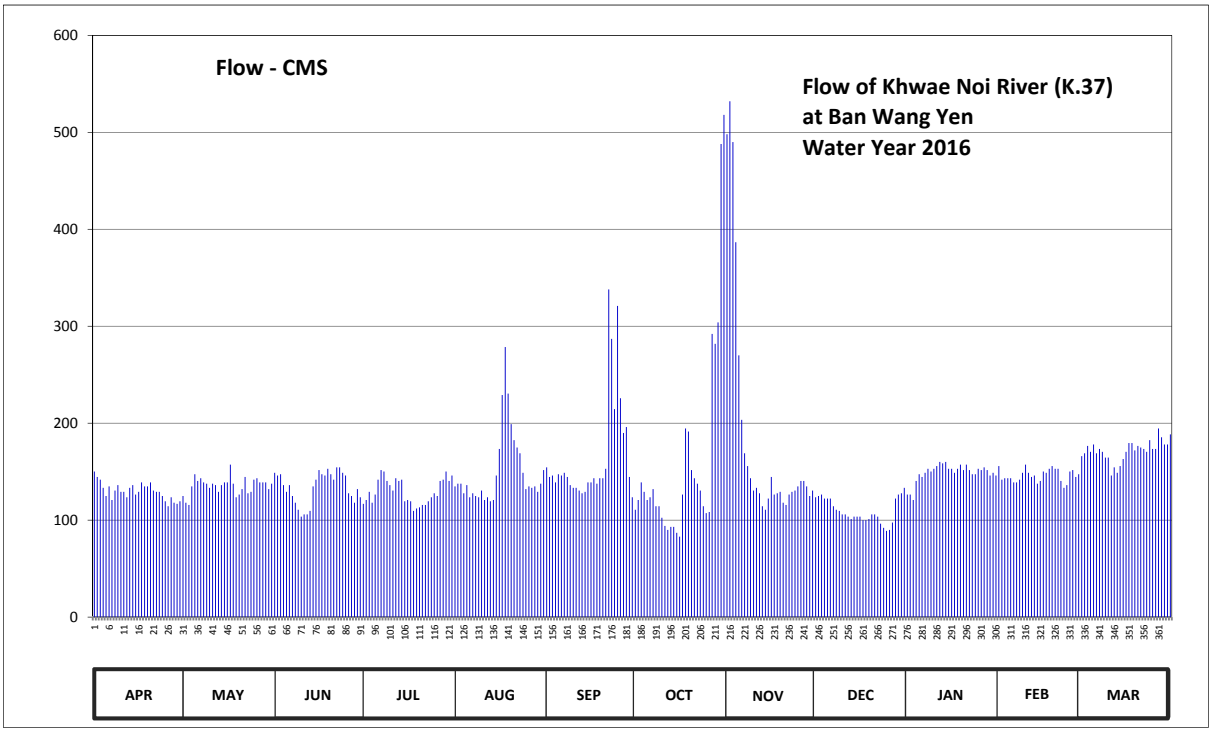
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.63	23.45	23.62	23.39	23.52	23.66	23.34	25.68	23.44	23.46	23.67	23.74	
2	23.59	23.40	23.60	23.42	23.54	23.59	23.42	25.85	23.45	23.46	23.57	23.76	
3	23.57	23.38	23.61	23.48	23.54	23.60	23.55	25.64	23.46	23.42	23.58	23.81	
4	23.51	23.52	23.53	23.40	23.47	23.55	23.48	25.07	23.43	23.56	23.58	23.77	
5	23.45	23.61	23.48	23.46	23.53	23.61	23.42	24.40	23.43	23.61	23.58	23.82	
6	23.52	23.56	23.53	23.57	23.44	23.60	23.44	23.99	23.43	23.59	23.55	23.76	
7	23.42	23.58	23.45	23.64	23.47	23.62	23.50	23.76	23.37	23.62	23.55	23.79	
8	23.49	23.55	23.40	23.63	23.45	23.59	23.37	23.67	23.34	23.65	23.57	23.77	
9	23.53	23.54	23.34	23.56	23.44	23.53	23.37	23.58	23.33	23.63	23.62	23.73	
10	23.48	23.51	23.28	23.53	23.49	23.51	23.27	23.49	23.30	23.65	23.68	23.73	
11	23.48	23.54	23.30	23.49	23.42	23.51	23.20	23.51	23.30	23.67	23.62	23.60	
12	23.44	23.53	23.30	23.58	23.44	23.49	23.16	23.47	23.28	23.70	23.59	23.66	
13	23.51	23.48	23.33	23.56	23.41	23.47	23.19	23.37	23.26	23.69	23.60	23.62	
14	23.53	23.53	23.52	23.57	23.42	23.48	23.19	23.34	23.28	23.70	23.54	23.67	
15	23.46	23.55	23.57	23.41	23.60	23.55	23.13	23.43	23.28	23.65	23.56	23.72	
16	23.48	23.55	23.64	23.42	23.79	23.55	23.09	23.59	23.28	23.65	23.63	23.77	
17	23.55	23.68	23.61	23.41	24.15	23.58	23.46	23.46	23.25	23.62	23.62	23.83	
18	23.52	23.54	23.60	23.33	24.45	23.54	23.93	23.47	23.25	23.65	23.65	23.83	
19	23.52	23.44	23.65	23.35	24.16	23.58	23.91	23.48	23.26	23.68	23.67	23.78	
20	23.55	23.46	23.61	23.36	23.96	23.58	23.64	23.40	23.30	23.64	23.65	23.81	
21	23.49	23.50	23.57	23.38	23.85	23.65	23.58	23.38	23.30	23.68	23.65	23.80	
22	23.48	23.59	23.66	23.38	23.80	24.80	23.54	23.46	23.28	23.64	23.56	23.79	
23	23.48	23.47	23.66	23.41	23.76	24.50	23.49	23.48	23.22	23.61	23.51	23.77	
24	23.45	23.48	23.62	23.44	23.62	24.06	23.37	23.49	23.18	23.61	23.53	23.85	
25	23.41	23.57	23.60	23.47	23.50	24.70	23.31	23.52	23.15	23.65	23.63	23.79	
26	23.37	23.58	23.47	23.45	23.52	24.13	23.32	23.56	23.16	23.64	23.64	23.79	
27	23.44	23.55	23.45	23.56	23.51	23.90	24.53	23.56	23.23	23.66	23.59	23.93	
28	23.40	23.55	23.40	23.57	23.52	23.94	24.47	23.52	23.43	23.64	23.61	23.87	
29	23.39	23.55	23.50	23.63	23.48	23.59	24.60	23.45	23.46	23.60		23.82	
30	23.41	23.50	23.44	23.56	23.54	23.44	25.63	23.49	23.47	23.62		23.82	
31		23.54		23.60	23.64		25.78		23.51	23.60		23.89	
Mean	23.48	23.53	23.51	23.48	23.63	23.73	23.67	23.82	23.33	23.62	23.60	23.78	
Max	23.63	23.68	23.66	23.64	24.45	24.80	25.78	25.85	23.51	23.70	23.68	23.93	25.85
Min	23.37	23.38	23.28	23.33	23.41	23.44	23.09	23.34	23.15	23.42	23.51	23.60	23.09

Annual Max Momentary Gage Height 26.28 m. (MSL.) , at 15.00 Hours , on Oct 30 , 2016

Zero Gage at Bottom Elevation 19.84 m. (MSL.) , River Bed 18.05 m. (MSL.)

Left Bank Elevation 32.45 m. (MSL.) ,

Right Bank Elevation 32.76 m. (MSL.) , Drainage Are 10,557 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.20	125.00	148.80	116.80	134.80	154.40	110.80	498.00	123.60	126.40	155.80	166.00	
2	144.60	118.00	146.00	120.80	137.60	144.60	120.80	532.00	125.00	126.40	141.80	169.00	
3	141.80	115.60	147.40	129.20	137.60	146.00	139.00	490.00	126.40	120.80	143.20	176.50	
4	133.40	134.80	136.20	118.00	127.80	139.00	129.20	386.60	122.20	140.40	143.20	170.50	
5	125.00	147.40	129.20	126.40	136.20	147.40	120.80	270.00	122.20	147.40	143.20	178.00	
6	134.80	140.40	136.20	141.80	123.60	146.00	123.60	203.50	122.20	144.60	139.00	169.00	
7	120.80	143.20	125.00	151.60	127.80	148.80	132.00	169.00	114.40	148.80	139.00	173.50	
8	130.60	139.00	118.00	150.20	125.00	144.60	114.40	155.80	110.80	153.00	141.80	170.50	
9	136.20	137.60	110.80	140.40	123.60	136.20	114.40	143.20	109.60	150.20	148.80	164.50	
10	129.20	133.40	103.60	136.20	130.60	133.40	102.40	130.60	106.00	153.00	157.20	164.50	
11	129.20	137.60	106.00	130.60	120.80	133.40	94.00	133.40	106.00	155.80	148.80	146.00	
12	123.60	136.20	106.00	143.20	123.60	130.60	90.00	127.80	103.60	160.00	144.60	154.40	
13	133.40	129.20	109.60	140.40	119.40	127.80	93.00	114.40	101.20	158.60	146.00	148.80	
14	136.20	136.20	134.80	141.80	120.80	129.20	93.00	110.80	103.60	160.00	137.60	155.80	
15	126.40	139.00	141.80	119.40	146.00	139.00	87.00	122.20	103.60	153.00	140.40	163.00	
16	129.20	139.00	151.60	120.80	173.50	139.00	83.00	144.60	103.60	153.00	150.20	170.50	
17	139.00	157.20	147.40	119.40	229.00	143.20	126.40	126.40	100.00	148.80	148.80	179.50	
18	134.80	137.60	146.00	109.60	278.50	137.60	194.50	127.80	100.00	153.00	153.00	179.50	
19	134.80	123.60	153.00	112.00	230.60	143.20	191.50	129.20	101.20	157.20	155.80	172.00	
20	139.00	126.40	147.40	113.20	199.00	143.20	151.60	118.00	106.00	151.60	153.00	176.50	
21	130.60	132.00	141.80	115.60	182.50	153.00	143.20	115.60	106.00	157.20	153.00	175.00	
22	129.20	144.60	154.40	115.60	175.00	338.00	137.60	126.40	103.60	151.60	140.40	173.50	
23	129.20	127.80	154.40	119.40	169.00	287.00	130.60	129.20	96.40	147.40	133.40	170.50	
24	125.00	129.20	148.80	123.60	148.80	214.60	114.40	130.60	92.00	147.40	136.20	182.50	
25	119.40	141.80	146.00	127.80	132.00	321.00	107.20	134.80	89.00	153.00	150.20	173.50	
26	114.40	143.20	127.80	125.00	134.80	225.80	108.40	140.40	90.00	151.60	151.60	173.50	
27	123.60	139.00	125.00	140.40	133.40	190.00	292.10	140.40	97.60	154.40	144.60	194.50	
28	118.00	139.00	118.00	141.80	134.80	196.00	281.90	134.80	122.20	151.60	147.40	185.50	
29	116.80	139.00	132.00	150.20	129.20	144.60	304.00	125.00	126.40	146.00		178.00	
30	119.40	132.00	123.60	140.40	137.60	123.60	488.00	130.60	127.80	148.80		178.00	
31		137.60		146.00	151.60		518.00		133.40	146.00		188.50	
Total	3897.80	4201.60	4016.60	4027.60	4674.50	5000.20	5036.80	5541.10	3395.60	4617.00	4088.00	5321.00	53817.80	CMSDAY
Mean	129.93	135.54	133.89	129.92	150.79	166.67	162.48	184.70	109.54	148.94	146.00	171.65	147.45	CMS
Max	150.20	157.20	154.40	151.60	278.50	338.00	518.00	532.00	133.40	160.00	157.20	194.50	532.00	CMS
Min	114.40	115.60	103.60	109.60	119.40	123.60	83.00	110.80	89.00	120.80	133.40	146.00	83.00	CMS
Runoff	336.77	363.02	347.03	347.98	403.88	432.02	435.18	478.75	293.38	398.91	353.20	459.73	4649.86	MCM

Momentary Peak 618.00 CMS. at 26.28 m. (MSL.) at 15.00 Hours , on Oct 30 , 2016

Runoff Yield 13.97 Liters/Second/Square KM. Momentary Peak Yield 58.540 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

Ban Nong Bang **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	122 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+90.019 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +95.463 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Flot	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

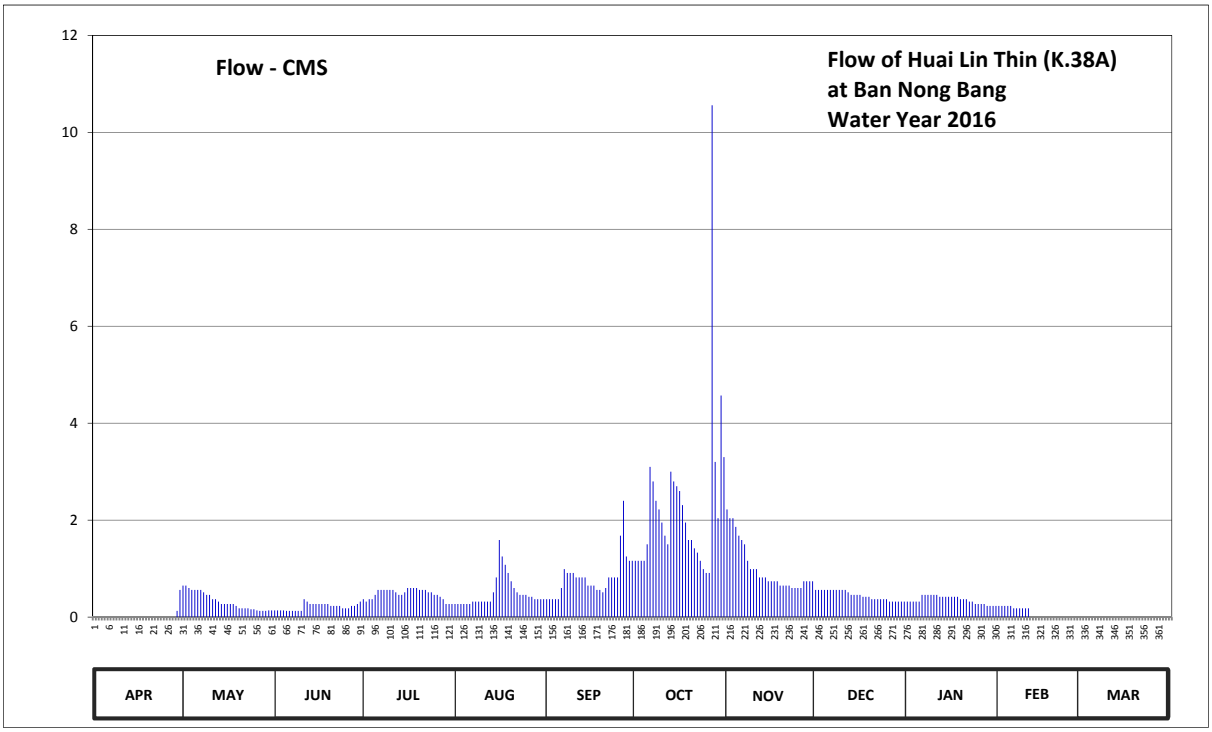
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.68	90.60	90.48	90.54	90.52	90.54	90.66	90.78	90.58	90.53	90.51	91.00	
2	90.68	90.60	90.48	90.53	90.52	90.54	90.66	90.76	90.58	90.53	90.51	91.00	
3	90.68	90.59	90.48	90.54	90.52	90.54	90.66	90.76	90.58	90.53	90.51	90.99	
4	90.68	90.58	90.48	90.54	90.52	90.54	90.66	90.74	90.58	90.53	90.51	90.98	
5	90.68	90.58	90.47	90.56	90.52	90.54	90.70	90.72	90.58	90.53	90.51	90.98	
6	90.68	90.58	90.47	90.58	90.52	90.59	90.87	90.71	90.58	90.56	90.50	90.98	
7	90.68	90.58	90.47	90.58	90.53	90.64	90.84	90.70	90.58	90.56	90.50	90.95	
8	90.68	90.57	90.47	90.58	90.53	90.63	90.80	90.66	90.58	90.56	90.50	90.95	
9	90.68	90.56	90.47	90.58	90.53	90.63	90.78	90.64	90.58	90.56	90.50	90.94	
10	90.68	90.56	90.47	90.58	90.53	90.63	90.75	90.64	90.58	90.56	90.50	90.91	
11	90.68	90.54	90.54	90.58	90.53	90.62	90.72	90.64	90.58	90.56	90.50	90.91	
12	90.66	90.54	90.53	90.57	90.53	90.62	90.70	90.62	90.57	90.55	90.50	90.88	
13	90.66	90.53	90.52	90.56	90.53	90.62	90.86	90.62	90.56	90.55	90.49	90.88	
14	90.66	90.52	90.52	90.56	90.57	90.62	90.84	90.62	90.56	90.55	90.49	90.88	
15	90.66	90.52	90.52	90.57	90.62	90.60	90.83	90.61	90.56	90.55	90.49	90.86	
16	90.66	90.52	90.52	90.59	90.71	90.60	90.82	90.61	90.56	90.55	90.49	90.86	
17	90.66	90.52	90.52	90.59	90.67	90.60	90.79	90.61	90.55	90.55	90.49	90.83	
18	90.66	90.52	90.52	90.59	90.65	90.58	90.75	90.61	90.55	90.55	91.02	90.83	
19	90.64	90.51	90.52	90.59	90.63	90.58	90.71	90.60	90.55	90.54	91.02	90.80	
20	90.64	90.50	90.51	90.58	90.61	90.57	90.71	90.60	90.54	90.54	91.02	90.80	
21	90.64	90.50	90.51	90.58	90.59	90.59	90.69	90.60	90.54	90.54	91.02	90.78	
22	90.64	90.50	90.51	90.58	90.57	90.62	90.68	90.60	90.54	90.53	91.02	90.78	
23	90.64	90.50	90.51	90.57	90.56	90.62	90.66	90.59	90.54	90.53	91.02	90.78	
24	90.62	90.49	90.50	90.57	90.56	90.62	90.64	90.59	90.54	90.52	91.02	90.75	
25	90.62	90.49	90.50	90.56	90.56	90.62	90.63	90.59	90.54	90.52	91.02	90.72	
26	90.62	90.48	90.50	90.56	90.55	90.72	90.63	90.59	90.53	90.52	91.02	90.72	
27	90.57	90.47	90.51	90.55	90.55	90.80	91.37	90.61	90.53	90.52	91.02	90.72	
28	90.48	90.47	90.51	90.54	90.54	90.67	90.88	90.61	90.53	90.51	91.02	90.82	
29	90.47	90.47	90.52	90.52	90.54	90.66	90.76	90.61	90.53	90.51		90.81	
30	90.58	90.48	90.53	90.52	90.54	90.66	90.99	90.61	90.53	90.51		90.78	
31		90.48		90.52	90.54		90.89		90.53	90.51		90.78	
Mean	90.64	90.53	90.50	90.56	90.56	90.61	90.77	90.64	90.56	90.54	90.70	90.86	
Max	90.68	90.60	90.54	90.59	90.71	90.80	91.37	90.78	90.58	90.56	91.02	91.00	91.37
Min	90.47	90.47	90.47	90.52	90.52	90.54	90.63	90.59	90.53	90.51	90.49	90.72	90.47

Annual Max Momentary Gage Height 91.52 m. (MSL.) , at 12.00 Hours , on Oct 27 , 2016

Zero Gage at Bottom Elevation 90.02 m. (MSL.) , River Bed 90.42 m. (MSL.)

Left Bank Elevation 95.40 m. (MSL.) ,

Right Bank Elevation 95.43 m. (MSL.) , Drainage Are 122 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.65	0.14	0.37	0.27	0.37	1.16	2.22	0.56	0.32	0.23	0.00	
2	0.00	0.65	0.14	0.32	0.27	0.37	1.16	2.04	0.56	0.32	0.23	0.00	
3	0.00	0.60	0.14	0.37	0.27	0.37	1.16	2.04	0.56	0.32	0.23	0.00	
4	0.00	0.56	0.14	0.37	0.27	0.37	1.16	1.86	0.56	0.32	0.23	0.00	
5	0.00	0.56	0.13	0.46	0.27	0.37	1.50	1.68	0.56	0.32	0.23	0.00	
6	0.00	0.56	0.13	0.56	0.27	0.60	3.10	1.59	0.56	0.46	0.18	0.00	
7	0.00	0.56	0.13	0.56	0.32	0.99	2.80	1.50	0.56	0.46	0.18	0.00	
8	0.00	0.51	0.13	0.56	0.32	0.91	2.40	1.16	0.56	0.46	0.18	0.00	
9	0.00	0.46	0.13	0.56	0.32	0.91	2.22	0.99	0.56	0.46	0.18	0.00	
10	0.00	0.46	0.13	0.56	0.32	0.91	1.95	0.99	0.56	0.46	0.18	0.00	
11	0.00	0.37	0.37	0.56	0.32	0.82	1.68	0.99	0.56	0.46	0.18	0.00	
12	0.00	0.37	0.32	0.51	0.32	0.82	1.50	0.82	0.51	0.42	0.00	0.00	
13	0.00	0.32	0.27	0.46	0.32	0.82	3.00	0.82	0.46	0.42	0.00	0.00	
14	0.00	0.27	0.27	0.46	0.51	0.82	2.80	0.82	0.46	0.42	0.00	0.00	
15	0.00	0.27	0.27	0.51	0.82	0.65	2.70	0.74	0.46	0.42	0.00	0.00	
16	0.00	0.27	0.27	0.60	1.59	0.65	2.60	0.74	0.46	0.42	0.00	0.00	
17	0.00	0.27	0.27	0.60	1.25	0.65	2.31	0.74	0.42	0.42	0.00	0.00	
18	0.00	0.27	0.27	0.60	1.08	0.56	1.95	0.74	0.42	0.42	0.00	0.00	
19	0.00	0.23	0.27	0.60	0.91	0.56	1.59	0.65	0.42	0.37	0.00	0.00	
20	0.00	0.18	0.23	0.56	0.74	0.51	1.59	0.65	0.37	0.37	0.00	0.00	
21	0.00	0.18	0.23	0.56	0.60	0.60	1.42	0.65	0.37	0.37	0.00	0.00	
22	0.00	0.18	0.23	0.56	0.51	0.82	1.33	0.65	0.37	0.32	0.00	0.00	
23	0.00	0.18	0.23	0.51	0.46	0.82	1.16	0.60	0.37	0.32	0.00	0.00	
24	0.00	0.16	0.18	0.51	0.46	0.82	0.99	0.60	0.37	0.27	0.00	0.00	
25	0.00	0.16	0.18	0.46	0.46	0.82	0.91	0.60	0.37	0.27	0.00	0.00	
26	0.00	0.14	0.18	0.46	0.42	1.68	0.91	0.60	0.32	0.27	0.00	0.00	
27	0.00	0.13	0.23	0.42	0.42	2.40	10.56	0.74	0.32	0.27	0.00	0.00	
28	0.00	0.13	0.23	0.37	0.37	1.25	3.20	0.74	0.32	0.23	0.00	0.00	
29	0.13	0.13	0.27	0.27	0.37	1.16	2.04	0.74	0.32	0.23		0.00	
30	0.56	0.14	0.32	0.27	0.37	1.16	4.57	0.74	0.32	0.23		0.00	
31		0.14		0.27	0.37		3.30		0.32	0.23		0.00	
Total	0.69	10.06	6.43	14.81	15.57	24.56	70.72	30.44	13.91	11.05	2.23	0.00	200.47	CMSDAY
Mean	0.02	0.32	0.21	0.48	0.50	0.82	2.28	1.01	0.45	0.36	0.08	0.00	0.55	CMS
Max	0.56	0.65	0.37	0.60	1.59	2.40	10.56	2.22	0.56	0.46	0.23	0.00	10.56	CMS
Min	0.00	0.13	0.13	0.27	0.27	0.37	0.91	0.60	0.32	0.23	0.00	0.00	0.00	CMS
Runoff	0.06	0.87	0.56	1.28	1.35	2.12	6.11	2.63	1.20	0.95	0.19	0.00	17.32	MCM

Momentary Peak 13.54 CMS. at 91.52 m. (MSL.) at 12.00 Hours , on Oct 27 , 2016

Runoff Yield 4.50 Liters/Second/Square KM. Momentary Peak Yield 110.980 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

Ban Ong Thi **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	51 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+81.783 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 16 meters from the third staff gage. **Elevation** +91.299 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1985 - 1990 , 1996 to date
Rated by Flot	-
Rated by Current Meter	1985 - 1990 , 1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

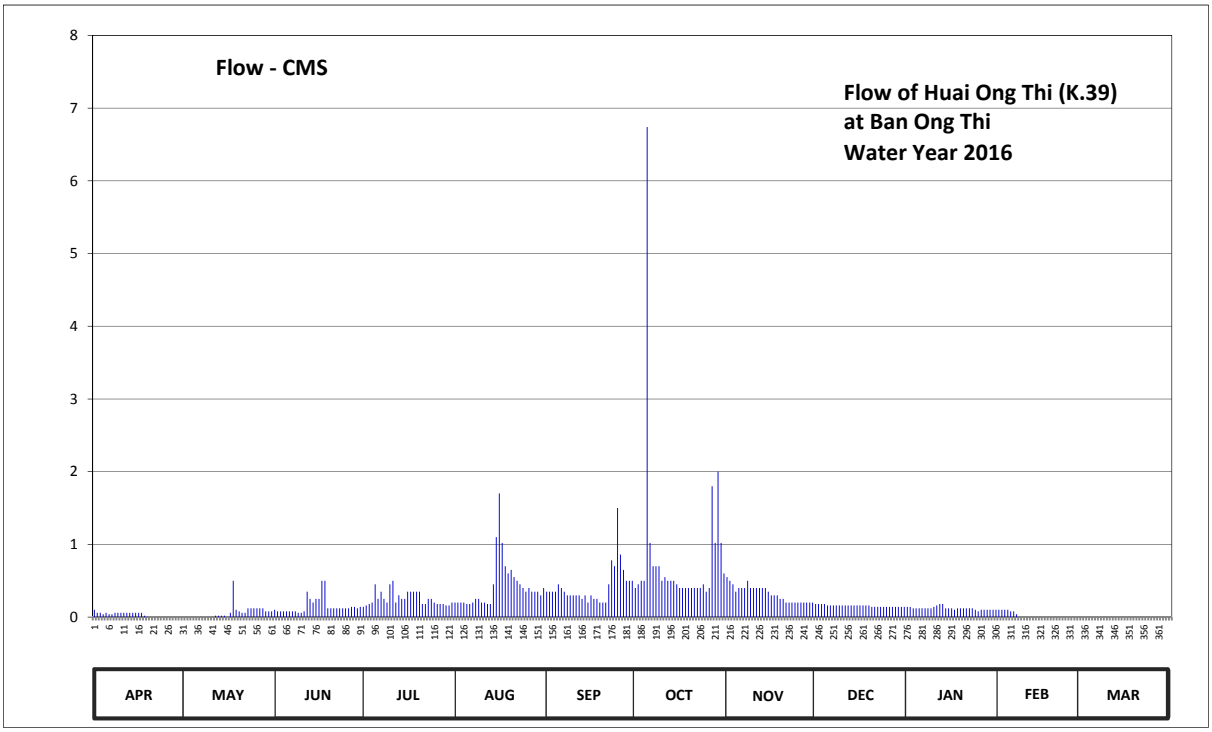
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.05	81.99	82.05	82.07	82.10	82.13	82.14	82.17	82.09	82.07	82.05	81.88	
2	82.03	81.99	82.04	82.08	82.10	82.13	82.15	82.16	82.09	82.07	82.05	81.88	
3	82.03	81.99	82.04	82.09	82.10	82.13	82.16	82.15	82.09	82.06	82.05	81.88	
4	82.02	81.98	82.04	82.10	82.10	82.13	82.16	82.13	82.09	82.06	82.05	81.88	
5	82.03	81.98	82.04	82.15	82.09	82.15	82.68	82.14	82.08	82.06	82.04	81.88	
6	82.02	81.99	82.04	82.11	82.09	82.14	82.24	82.14	82.08	82.06	82.04	81.88	
7	82.02	81.99	82.04	82.13	82.10	82.13	82.20	82.14	82.08	82.06	82.02	81.88	
8	82.03	81.99	82.04	82.11	82.11	82.12	82.20	82.16	82.08	82.06	82.00	81.87	
9	82.03	81.99	82.03	82.10	82.11	82.12	82.20	82.14	82.08	82.06	81.96	81.87	
10	82.03	81.99	82.03	82.15	82.10	82.12	82.16	82.14	82.08	82.07	81.92	81.87	
11	82.03	81.99	82.04	82.16	82.10	82.12	82.17	82.14	82.08	82.08	81.90	81.87	
12	82.03	82.01	82.13	82.10	82.09	82.12	82.16	82.14	82.08	82.09	81.90	81.86	
13	82.03	82.01	82.11	82.12	82.09	82.11	82.16	82.14	82.08	82.09	81.89	81.86	
14	82.03	82.01	82.10	82.11	82.15	82.12	82.16	82.14	82.08	82.06	81.86	81.85	
15	82.03	82.01	82.11	82.11	82.25	82.10	82.15	82.13	82.08	82.06	81.89	81.85	
16	82.03	81.99	82.11	82.13	82.32	82.12	82.14	82.12	82.08	82.06	81.89	81.85	
17	82.03	82.03	82.16	82.13	82.24	82.11	82.14	82.12	82.08	82.05	81.89	81.84	
18	82.01	82.16	82.16	82.13	82.20	82.11	82.14	82.12	82.08	82.06	81.89	81.84	
19	82.00	82.05	82.06	82.13	82.18	82.10	82.14	82.11	82.08	82.06	81.89	81.84	
20	82.00	82.04	82.06	82.13	82.19	82.10	82.14	82.11	82.07	82.06	81.89	81.84	
21	82.00	82.03	82.06	82.09	82.17	82.10	82.14	82.10	82.07	82.06	81.89	81.84	
22	82.00	82.03	82.06	82.09	82.16	82.15	82.14	82.10	82.07	82.06	81.89	81.84	
23	82.00	82.06	82.06	82.11	82.15	82.21	82.14	82.10	82.07	82.06	81.89	81.82	
24	81.99	82.06	82.06	82.11	82.14	82.20	82.15	82.10	82.07	82.05	81.89	81.81	
25	81.99	82.06	82.06	82.10	82.13	82.30	82.13	82.10	82.07	82.04	81.88	81.81	
26	81.99	82.06	82.06	82.09	82.14	82.22	82.14	82.10	82.07	82.05	81.88	81.83	
27	81.99	82.06	82.07	82.09	82.13	82.19	82.33	82.10	82.07	82.05	81.88	81.85	
28	81.99	82.06	82.07	82.09	82.13	82.16	82.24	82.10	82.07	82.05	81.88	81.85	
29	81.99	82.04	82.06	82.08	82.13	82.16	82.35	82.10	82.07	82.05		81.85	
30	81.99	82.04	82.07	82.08	82.12	82.16	82.24	82.10	82.07	82.05		81.87	
31		82.04		82.10	82.14		82.18		82.07	82.05		81.87	
Mean	82.01	82.02	82.07	82.11	82.14	82.14	82.19	82.12	82.08	82.06	81.93	81.86	
Max	82.05	82.16	82.16	82.16	82.32	82.30	82.68	82.17	82.09	82.09	82.05	81.88	82.68
Min	81.99	81.98	82.03	82.07	82.09	82.10	82.13	82.10	82.07	82.04	81.86	81.81	81.81

Annual Max Momentary Gage Height 83.47 m. (MSL.) , at 16.00 Hours , on Oct 5 , 2016

Zero Gage at Bottom Elevation 81.78 m. (MSL.) , River Bed 81.66 m. (MSL.)

Left Bank Elevation 90.26 m. (MSL.) ,

Right Bank Elevation 90.21 m. (MSL.) , Drainage Are 51 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.00	0.10	0.14	0.20	0.35	0.40	0.55	0.18	0.14	0.10	0.00		
2	0.06	0.00	0.08	0.16	0.20	0.35	0.45	0.50	0.18	0.14	0.10	0.00		
3	0.06	0.00	0.08	0.18	0.20	0.35	0.50	0.45	0.18	0.12	0.10	0.00		
4	0.04	0.00	0.08	0.20	0.20	0.35	0.50	0.35	0.18	0.12	0.10	0.00		
5	0.06	0.00	0.08	0.45	0.18	0.45	6.74	0.40	0.16	0.12	0.08	0.00		
6	0.04	0.00	0.08	0.25	0.18	0.40	1.02	0.40	0.16	0.12	0.08	0.00		
7	0.04	0.00	0.08	0.35	0.20	0.35	0.70	0.40	0.16	0.12	0.04	0.00		
8	0.06	0.00	0.08	0.25	0.25	0.30	0.70	0.50	0.16	0.12	0.00	0.00		
9	0.06	0.00	0.06	0.20	0.25	0.30	0.70	0.40	0.16	0.12	0.00	0.00		
10	0.06	0.00	0.06	0.45	0.20	0.30	0.50	0.40	0.16	0.14	0.00	0.00		
11	0.06	0.00	0.08	0.50	0.20	0.30	0.55	0.40	0.16	0.16	0.00	0.00		
12	0.06	0.02	0.35	0.20	0.18	0.30	0.50	0.40	0.16	0.18	0.00	0.00		
13	0.06	0.02	0.25	0.30	0.18	0.25	0.50	0.40	0.16	0.18	0.00	0.00		
14	0.06	0.02	0.20	0.25	0.45	0.30	0.50	0.40	0.16	0.12	0.00	0.00		
15	0.06	0.02	0.25	0.25	1.10	0.20	0.45	0.35	0.16	0.12	0.00	0.00		
16	0.06	0.00	0.25	0.35	1.70	0.30	0.40	0.30	0.16	0.12	0.00	0.00		
17	0.06	0.06	0.50	0.35	1.02	0.25	0.40	0.30	0.16	0.10	0.00	0.00		
18	0.02	0.50	0.50	0.35	0.70	0.25	0.40	0.30	0.16	0.12	0.00	0.00		
19	0.00	0.10	0.12	0.35	0.60	0.20	0.40	0.25	0.16	0.12	0.00	0.00		
20	0.00	0.08	0.12	0.35	0.65	0.20	0.40	0.25	0.14	0.12	0.00	0.00		
21	0.00	0.06	0.12	0.18	0.55	0.20	0.40	0.20	0.14	0.12	0.00	0.00		
22	0.00	0.06	0.12	0.18	0.50	0.45	0.40	0.20	0.14	0.12	0.00	0.00		
23	0.00	0.12	0.12	0.25	0.45	0.78	0.40	0.20	0.14	0.12	0.00	0.00		
24	0.00	0.12	0.12	0.25	0.40	0.70	0.45	0.20	0.14	0.10	0.00	0.00		
25	0.00	0.12	0.12	0.20	0.35	1.50	0.35	0.20	0.14	0.08	0.00	0.00		
26	0.00	0.12	0.12	0.18	0.40	0.86	0.40	0.20	0.14	0.10	0.00	0.00		
27	0.00	0.12	0.14	0.18	0.35	0.65	1.80	0.20	0.14	0.10	0.00	0.00		
28	0.00	0.12	0.14	0.18	0.35	0.50	1.02	0.20	0.14	0.10	0.00	0.00		
29	0.00	0.08	0.12	0.16	0.35	0.50	2.00	0.20	0.14	0.10		0.00		
30	0.00	0.08	0.14	0.16	0.30	0.50	1.02	0.20	0.14	0.10		0.00		
31		0.08		0.20	0.40		0.60		0.14	0.10		0.00		
Total	1.02	1.90	4.66	8.00	13.24	12.69	25.55	9.70	4.80	3.74	0.60	0.00	85.90	CMSDAY
Mean	0.03	0.06	0.16	0.26	0.43	0.42	0.82	0.32	0.15	0.12	0.02	0.00	0.24	CMS
Max	0.10	0.50	0.50	0.50	1.70	1.50	6.74	0.55	0.18	0.18	0.10	0.00	6.74	CMS
Min	0.00	0.00	0.06	0.14	0.18	0.20	0.35	0.20	0.14	0.08	0.00	0.00	0.00	CMS
Runoff	0.09	0.16	0.40	0.69	1.14	1.10	2.21	0.84	0.41	0.32	0.05	0.00	7.42	MCM

Momentary Peak 26.90 CMS. at 83.47 m. (MSL.) at 16.00 Hours , on Oct 5 , 2016

Runoff Yield 4.61 Liters/Second/Square KM. Momentary Peak Yield 527.450 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

Ban Hin Laem **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	123 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+79.811 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +85.827 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1987 , 1996 to date
Rated by Flot	-
Rated by Current Meter	1987, 1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

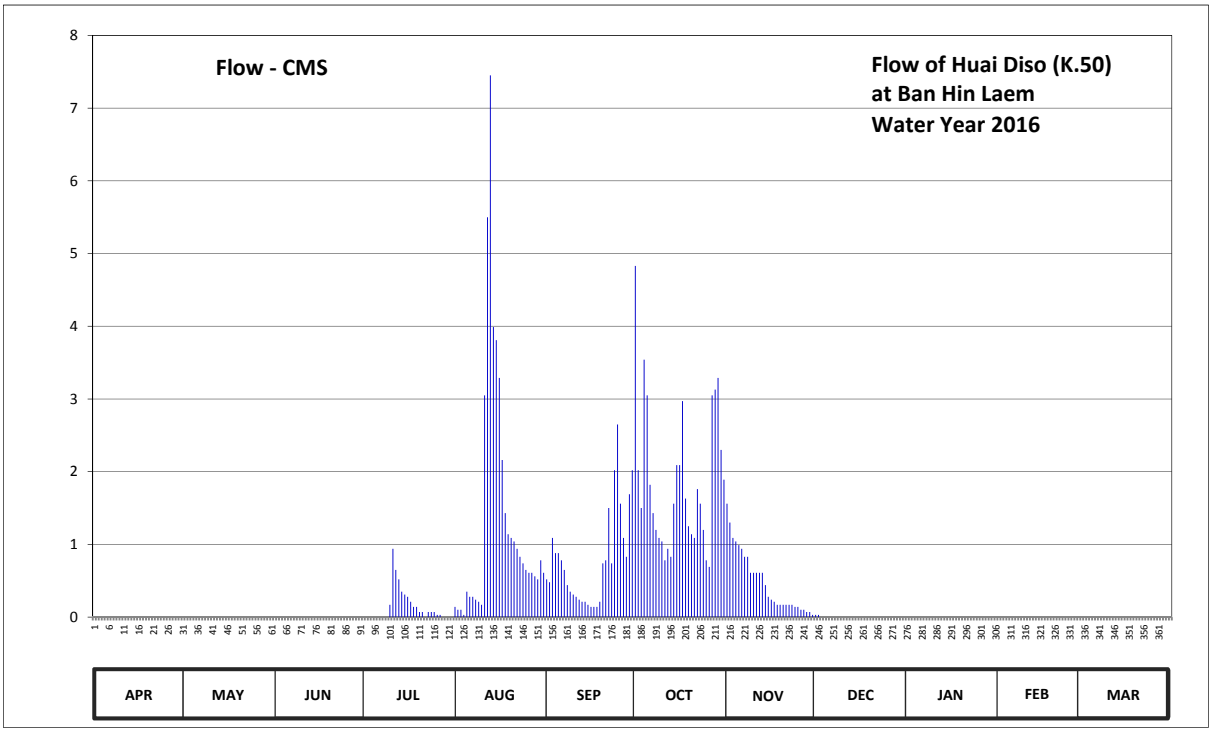
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.01	80.01	80.01	80.01	80.34	80.44	81.05	80.64	80.31	80.23	80.01	80.01	
2	80.01	80.01	80.01	80.01	80.33	80.43	80.71	80.60	80.31	80.23	80.01	80.01	
3	80.01	80.01	80.01	80.01	80.33	80.56	80.63	80.56	80.30	80.23	80.01	80.01	
4	80.01	80.01	80.01	80.01	80.31	80.52	80.91	80.55	80.30	80.23	80.01	80.01	
5	80.01	80.01	80.01	80.01	80.40	80.52	80.85	80.54	80.30	80.22	80.01	80.01	
6	80.01	80.01	80.01	80.01	80.38	80.50	80.68	80.53	80.29	80.22	80.01	80.01	
7	80.01	80.01	80.01	80.15	80.38	80.47	80.62	80.51	80.29	80.22	80.01	80.01	
8	80.01	80.01	80.01	80.27	80.37	80.42	80.58	80.51	80.29	80.22	80.01	80.01	
9	80.01	80.01	80.01	80.29	80.36	80.40	80.56	80.46	80.29	80.22	80.01	80.01	
10	80.01	80.01	80.01	80.35	80.35	80.39	80.55	80.46	80.28	80.22	80.01	80.01	
11	80.01	80.01	80.01	80.53	80.85	80.38	80.50	80.46	80.28	80.23	80.01	80.01	
12	80.01	80.01	80.01	80.47	81.12	80.37	80.53	80.46	80.28	80.23	80.01	80.01	
13	80.01	80.01	80.01	80.44	81.30	80.36	80.51	80.46	80.26	80.23	80.01	80.01	
14	80.01	80.01	80.01	80.40	80.96	80.36	80.64	80.42	80.26	80.23	80.01	80.01	
15	80.01	80.01	80.01	80.39	80.94	80.35	80.72	80.38	80.26	80.23	80.01	80.01	
16	80.01	80.01	80.01	80.38	80.88	80.34	80.72	80.37	80.26	80.23	80.01	80.01	
17	80.01	80.01	80.01	80.36	80.73	80.34	80.84	80.36	80.25	80.22	80.01	80.01	
18	80.01	80.01	80.01	80.34	80.62	80.34	80.65	80.35	80.25	80.22	80.01	80.01	
19	80.01	80.01	80.01	80.34	80.57	80.36	80.59	80.35	80.25	80.22	80.01	80.01	
20	80.01	80.01	80.01	80.32	80.56	80.49	80.57	80.35	80.25	80.21	80.01	80.01	
21	80.01	80.01	80.01	80.32	80.55	80.50	80.56	80.35	80.24	80.21	80.01	80.01	
22	80.01	80.01	80.01	80.30	80.53	80.63	80.67	80.35	80.24	80.21	80.01	80.01	
23	80.01	80.01	80.01	80.32	80.51	80.49	80.64	80.35	80.24	80.21	80.01	80.01	
24	80.01	80.01	80.01	80.32	80.49	80.71	80.58	80.34	80.24	80.21	80.01	80.01	
25	80.01	80.01	80.01	80.32	80.47	80.80	80.50	80.34	80.24	80.15	80.01	80.01	
26	80.01	80.01	80.01	80.31	80.46	80.64	80.48	80.33	80.24	80.01	80.01	80.01	
27	80.01	80.01	80.01	80.31	80.46	80.56	80.85	80.33	80.24	80.01	80.01	80.01	
28	80.01	80.01	80.01	80.30	80.45	80.51	80.86	80.32	80.23	80.01	80.01	80.01	
29	80.01	80.01	80.01	80.29	80.44	80.66	80.88	80.32	80.23	80.01		80.01	
30	80.01	80.01	80.01	80.29	80.50	80.71	80.75	80.31	80.23	80.01		80.01	
31		80.01		80.30	80.46		80.69		80.23	80.01		80.01	
Mean	80.01	80.01	80.01	80.27	80.56	80.48	80.67	80.42	80.26	80.18	80.01	80.01	
Max	80.01	80.01	80.01	80.53	81.30	80.80	81.05	80.64	80.31	80.23	80.01	80.01	81.30
Min	80.01	80.01	80.01	80.01	80.31	80.34	80.48	80.31	80.23	80.01	80.01	80.01	80.01

Annual Max Momentary Gage Height 81.37 m. (MSL.) , at 06.00 Hours , on Aug 13 , 2016

Zero Gage at Bottom Elevation 79.81 m. (MSL.) , River Bed 79.94 m. (MSL.)

Left Bank Elevation 84.85 m. (MSL.) ,

Right Bank Elevation 84.89 m. (MSL.) , Drainage Are 123 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.14	0.52	4.83	1.56	0.03	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.10	0.48	2.02	1.30	0.03	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.10	1.09	1.50	1.09	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.03	0.88	3.54	1.04	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.35	0.88	3.05	0.99	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.28	0.78	1.82	0.94	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.28	0.65	1.43	0.83	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.24	0.44	1.20	0.83	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.21	0.35	1.09	0.61	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.17	0.17	0.31	1.04	0.61	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.94	3.05	0.28	0.78	0.61	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.65	5.50	0.24	0.94	0.61	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.52	7.45	0.21	0.83	0.61	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.35	3.99	0.21	1.56	0.44	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.31	3.81	0.17	2.09	0.28	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.28	3.29	0.14	2.09	0.24	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.21	2.16	0.14	2.97	0.21	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.14	1.43	0.14	1.63	0.17	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.14	1.14	0.21	1.25	0.17	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.07	1.09	0.74	1.14	0.17	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.07	1.04	0.78	1.09	0.17	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.94	1.50	1.76	0.17	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.07	0.83	0.74	1.56	0.17	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.07	0.74	2.02	1.20	0.14	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.07	0.65	2.65	0.78	0.14	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.03	0.61	1.56	0.69	0.10	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.03	0.61	1.09	3.05	0.10	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.56	0.83	3.13	0.07	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.52	1.69	3.29	0.07	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.78	2.02	2.30	0.03	0.00	0.00		0.00	
31		0.00		0.00	0.61		1.89		0.00	0.00		0.00	
Total	0.00	0.00	0.00	4.12	42.70	23.74	57.54	14.47	0.06	0.00	0.00	0.00	142.63 CMSDAY
Mean	0.00	0.00	0.00	0.13	1.38	0.79	1.86	0.48	0.00	0.00	0.00	0.00	0.39 CMS
Max	0.00	0.00	0.00	0.94	7.45	2.65	4.83	1.56	0.03	0.00	0.00	0.00	7.45 CMS
Min	0.00	0.00	0.00	0.00	0.03	0.14	0.69	0.03	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.36	3.69	2.05	4.97	1.25	0.01	0.00	0.00	0.00	12.32 MCM

Momentary Peak 8.29 CMS. at 81.37 m. (MSL.) at 06.00 Hours , on Aug 13 , 2016

Runoff Yield 3.18 Liters/Second/Square KM. Momentary Peak Yield 67.400 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Lin Thin , Kanchanaburi (K.54)

Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

Location : on right bank at the bridge on road.

Ban Lin Thin **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	4,774 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+60.540 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 40 meters from the gage observer's house. **Elevation** +75.155 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam.
	Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

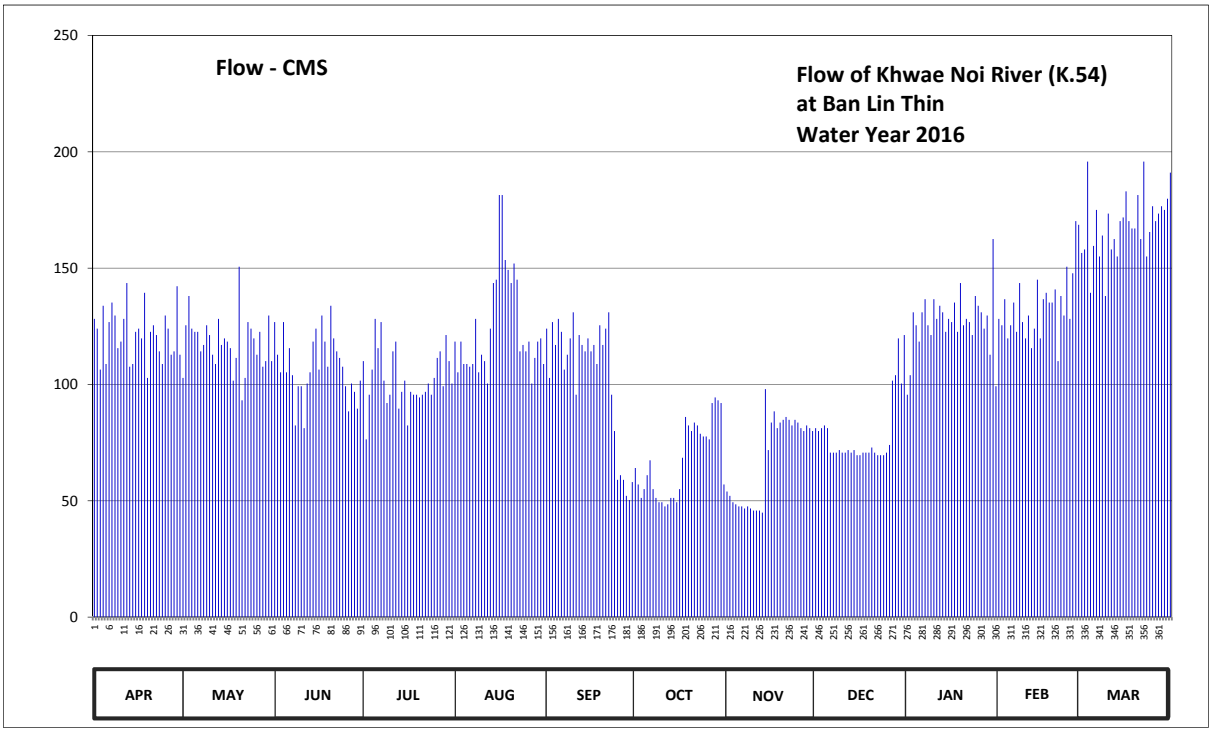
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.93	62.74	62.92	62.80	62.86	62.90	62.41	62.31	62.56	62.68	62.93	63.13	
2	62.90	62.91	62.82	62.52	62.76	62.74	62.34	62.29	62.55	62.75	62.91	63.14	
3	62.77	63.00	62.76	62.68	62.86	62.92	62.28	62.26	62.56	62.95	62.99	63.38	
4	62.97	62.90	62.92	62.77	62.79	62.85	62.32	62.25	62.57	62.91	62.87	63.01	
5	62.79	62.89	62.76	62.93	62.79	62.93	62.38	62.24	62.56	62.86	62.91	63.15	
6	62.92	62.89	62.84	62.84	62.78	62.89	62.44	62.24	62.47	62.95	62.98	63.25	
7	62.98	62.83	62.75	62.92	62.79	62.77	62.32	62.23	62.47	62.99	62.89	63.12	
8	62.94	62.85	62.57	62.73	62.93	62.82	62.28	62.24	62.47	62.91	63.04	63.18	
9	62.84	62.91	62.71	62.65	62.76	62.87	62.26	62.23	62.48	62.88	62.92	63.00	
10	62.86	62.88	62.71	62.68	62.82	62.95	62.26	62.22	62.47	62.99	62.87	63.24	
11	62.93	62.82	62.56	62.83	62.80	62.68	62.24	62.22	62.47	62.93	62.94	63.14	
12	63.04	62.79	62.72	62.86	62.72	62.88	62.25	62.22	62.48	62.97	62.84	63.17	
13	62.78	62.93	62.76	62.63	62.90	62.85	62.28	62.21	62.47	62.95	62.90	63.12	
14	62.79	62.85	62.86	62.69	63.04	62.83	62.28	62.70	62.48	62.89	63.05	63.22	
15	62.89	62.87	62.90	62.73	63.05	62.87	62.26	62.48	62.46	62.93	62.87	63.23	
16	62.90	62.86	62.77	62.57	63.29	62.83	62.32	62.58	62.46	62.92	62.99	63.30	
17	62.87	62.84	62.94	62.69	63.29	62.85	62.45	62.62	62.47	62.98	63.01	63.22	
18	63.01	62.73	62.86	62.68	63.11	62.79	62.60	62.56	62.47	62.89	62.98	63.20	
19	62.74	62.81	62.78	62.68	63.08	62.91	62.57	62.58	62.47	63.04	62.98	63.20	
20	62.89	63.09	62.97	62.67	63.04	62.85	62.55	62.59	62.49	62.91	63.02	63.29	
21	62.91	62.66	62.87	62.68	63.10	62.90	62.58	62.60	62.47	62.93	62.80	63.17	
22	62.88	62.74	62.83	62.69	63.05	62.95	62.57	62.59	62.46	62.92	63.00	63.38	
23	62.83	62.92	62.81	62.72	62.83	62.68	62.54	62.57	62.46	62.88	62.94	63.12	
24	62.79	62.90	62.78	62.68	62.85	62.55	62.53	62.59	62.46	63.00	63.09	63.19	
25	62.94	62.87	62.71	62.74	62.83	62.36	62.53	62.58	62.47	62.97	62.93	63.26	
26	62.90	62.82	62.62	62.81	62.86	62.38	62.52	62.56	62.50	62.95	63.07	63.22	
27	62.82	62.89	62.72	62.83	62.72	62.36	62.65	62.55	62.73	62.90	63.22	63.24	
28	62.83	62.78	62.69	62.71	62.81	62.29	62.67	62.57	62.75	62.94	63.21	63.26	
29	63.03	62.80	62.63	62.88	62.86	62.27	62.66	62.56	62.87	62.82		63.25	
30	62.82	62.94	62.73	62.80	62.87	62.35	62.65	62.55	62.72	63.17		63.28	
31		62.80		62.72	62.79		62.34		62.88	62.71		63.35	
Mean	62.88	62.86	62.78	62.74	62.90	62.74	62.43	62.43	62.54	62.92	62.97	63.21	
Max	63.04	63.09	62.97	62.93	63.29	62.95	62.67	62.70	62.88	63.17	63.22	63.38	63.38
Min	62.74	62.66	62.56	62.52	62.72	62.27	62.24	62.21	62.46	62.68	62.80	63.00	62.21

Annual Max Momentary Gage Height 64.43 m. (MSL.) , at 06.00 Hours , on Feb 27 , 2016

Zero Gage at Bottom Elevation 60.54 m. (MSL.) , River Bed 60.35 m. (MSL.)

Left Bank Elevation 68.63 m. (MSL.) ,

Right Bank Elevation 75.35 m. (MSL.) , Drainage Are 4,774 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.20	102.80	126.80	110.00	118.40	124.00	64.10	54.00	81.20	95.60	128.20	156.50	
2	124.00	125.40	112.80	76.40	105.20	102.80	57.00	52.10	80.00	104.00	125.40	158.00	
3	106.40	138.00	105.20	95.60	118.40	126.80	51.20	49.40	81.20	131.00	136.60	195.80	
4	133.80	124.00	126.80	106.40	108.80	117.00	55.00	48.50	82.40	125.40	119.80	139.40	
5	108.80	122.60	105.20	128.20	108.80	128.20	61.00	47.60	81.20	118.40	125.40	159.50	
6	126.80	122.60	115.60	115.60	107.60	122.60	67.40	47.60	70.70	131.00	135.20	175.00	
7	135.20	114.20	104.00	126.80	108.80	106.40	55.00	46.70	70.70	136.60	122.60	155.00	
8	129.60	117.00	82.40	101.60	128.20	112.80	51.20	47.60	70.70	125.40	143.60	164.00	
9	115.60	125.40	99.20	92.00	105.20	119.80	49.40	46.70	71.80	121.20	126.80	138.00	
10	118.40	121.20	99.20	95.60	112.80	131.00	49.40	45.80	70.70	136.60	119.80	173.40	
11	128.20	112.80	81.20	114.20	110.00	95.60	47.60	45.80	70.70	128.20	129.60	158.00	
12	143.60	108.80	100.40	118.40	100.40	121.20	48.50	45.80	71.80	133.80	115.60	162.50	
13	107.60	128.20	105.20	89.60	124.00	117.00	51.20	44.90	70.70	131.00	124.00	155.00	
14	108.80	117.00	118.40	96.80	143.60	114.20	51.20	98.00	71.80	122.60	145.00	170.20	
15	122.60	119.80	124.00	101.60	145.00	119.80	49.40	71.80	69.60	128.20	119.80	171.80	
16	124.00	118.40	106.40	82.40	181.40	114.20	55.00	83.60	69.60	126.80	136.60	183.00	
17	119.80	115.60	129.60	96.80	181.40	117.00	68.50	88.40	70.70	135.20	139.40	170.20	
18	139.40	101.60	118.40	95.60	153.50	108.80	86.00	81.20	70.70	122.60	135.20	167.00	
19	102.80	111.40	107.60	95.60	149.20	125.40	82.40	83.60	70.70	143.60	135.20	167.00	
20	122.60	150.60	133.80	94.40	143.60	117.00	80.00	84.80	72.90	125.40	140.80	181.40	
21	125.40	93.20	119.80	95.60	152.00	124.00	83.60	86.00	70.70	128.20	110.00	162.50	
22	121.20	102.80	114.20	96.80	145.00	131.00	82.40	84.80	69.60	126.80	138.00	195.80	
23	114.20	126.80	111.40	100.40	114.20	95.60	78.80	82.40	69.60	121.20	129.60	155.00	
24	108.80	124.00	107.60	95.60	117.00	80.00	77.60	84.80	69.60	138.00	150.60	165.50	
25	129.60	119.80	99.20	102.80	114.20	59.00	77.60	83.60	70.70	133.80	128.20	176.60	
26	124.00	112.80	88.40	111.40	118.40	61.00	76.40	81.20	74.00	131.00	147.80	170.20	
27	112.80	122.60	100.40	114.20	100.40	59.00	92.00	80.00	101.60	124.00	170.20	173.40	
28	114.20	107.60	96.80	99.20	111.40	52.10	94.40	82.40	104.00	129.60	168.60	176.60	
29	142.20	110.00	89.60	121.20	118.40	50.30	93.20	81.20	119.80	112.80		175.00	
30	112.80	129.60	101.60	110.00	119.80	58.00	92.00	80.00	100.40	162.50		179.80	
31		110.00		100.40	108.80		57.00		121.20	99.20		191.00	
Total	3651.40	3656.60	3231.20	3181.20	3873.90	3111.60	2085.50	2040.30	2441.00	3929.70	3747.60	5222.10	40172.10 CMSDAY
Mean	121.71	117.95	107.71	102.62	124.96	103.72	67.27	68.01	78.74	126.76	133.84	168.45	110.06 CMS
Max	143.60	150.60	133.80	128.20	181.40	131.00	94.40	98.00	121.20	162.50	170.20	195.80	195.80 CMS
Min	102.80	93.20	81.20	76.40	100.40	50.30	47.60	44.90	69.60	95.60	110.00	138.00	44.90 CMS
Runoff	315.48	315.93	279.18	274.86	334.70	268.84	180.19	176.28	210.90	339.53	323.79	451.19	3470.87 MCM

Momentary Peak 388.00 CMS. at 64.43 m. (MSL.) at 06.00 Hours , on Feb 27 , 2017

Runoff Yield 23.05 Liters/Second/Square KM. Momentary Peak Yield 81.270 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Pak Saeng , Kanchanaburi (K.58)

Lat 14 - 12 - 46 N Long 99 - 03 - 39 E

Location : on left bank at Ban Pak Saeng.

	Ban Pak Saeng	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	6,725 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+39.567 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 40 meters from the gage observer's house.	**Elevation**	+49.053 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

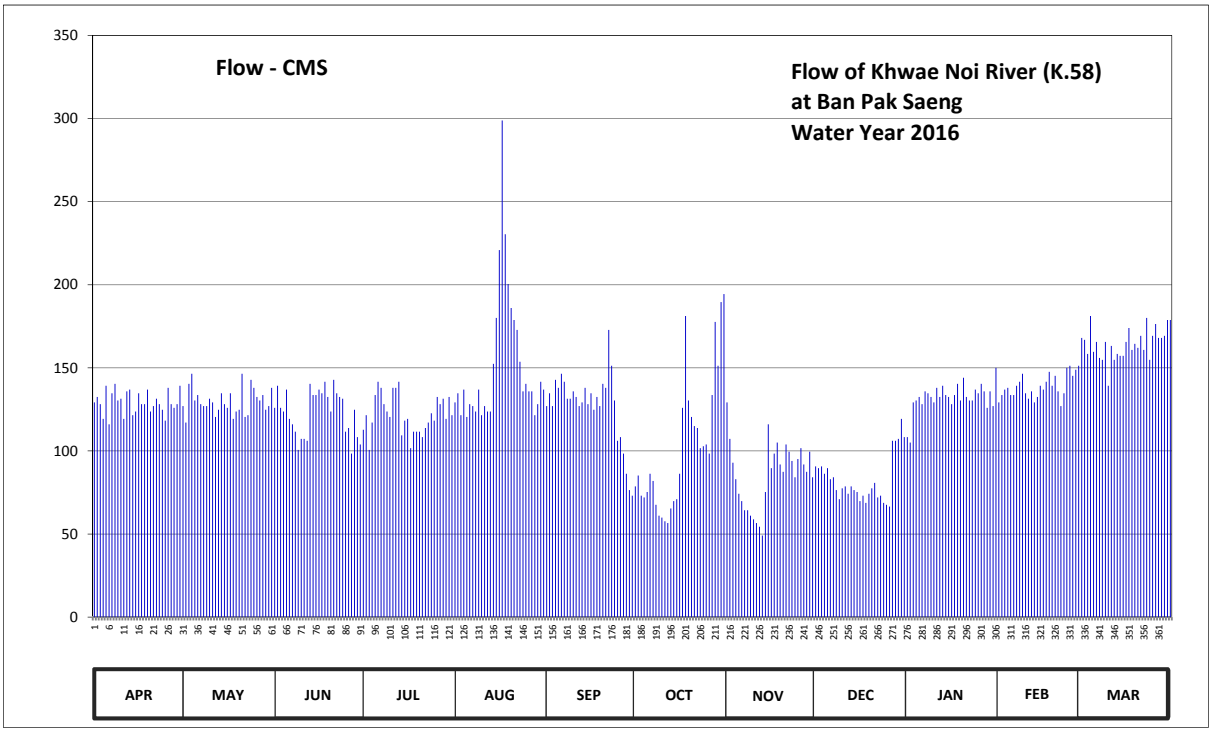
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.72	41.70	41.69	41.57	41.72	41.70	41.26	41.72	41.37	41.53	41.72	42.05	
2	41.75	41.61	41.81	41.65	41.77	41.77	41.32	41.52	41.36	41.50	41.76	42.04	
3	41.71	41.82	41.69	41.46	41.65	41.70	41.21	41.39	41.37	41.72	41.79	41.97	
4	41.63	41.87	41.67	41.61	41.79	41.84	41.20	41.30	41.33	41.73	41.80	42.16	
5	41.81	41.73	41.79	41.76	41.64	41.80	41.23	41.22	41.36	41.75	41.76	41.98	
6	41.60	41.76	41.63	41.83	41.71	41.87	41.33	41.18	41.30	41.71	41.76	42.03	
7	41.77	41.71	41.60	41.80	41.70	41.83	41.29	41.13	41.31	41.78	41.81	41.95	
8	41.82	41.70	41.56	41.71	41.67	41.74	41.16	41.13	41.24	41.77	41.83	41.94	
9	41.73	41.70	41.46	41.67	41.79	41.74	41.10	41.10	41.19	41.75	41.87	42.03	
10	41.74	41.74	41.52	41.64	41.65	41.78	41.09	41.08	41.25	41.72	41.77	41.81	
11	41.63	41.72	41.52	41.80	41.70	41.75	41.07	41.06	41.26	41.80	41.74	42.01	
12	41.78	41.64	41.51	41.80	41.67	41.70	41.06	41.04	41.22	41.75	41.78	41.94	
13	41.79	41.68	41.82	41.83	41.67	41.72	41.14	40.99	41.26	41.81	41.72	41.97	
14	41.65	41.77	41.76	41.54	41.92	41.80	41.18	41.23	41.24	41.76	41.75	41.96	
15	41.67	41.71	41.76	41.62	42.15	41.71	41.19	41.60	41.23	41.75	41.81	41.96	
16	41.77	41.69	41.79	41.63	42.49	41.77	41.33	41.36	41.18	41.71	41.79	42.03	
17	41.71	41.77	41.77	41.47	43.14	41.68	41.69	41.44	41.21	41.76	41.83	42.10	
18	41.71	41.63	41.83	41.56	42.57	41.75	42.16	41.50	41.17	41.82	41.88	41.99	
19	41.79	41.67	41.75	41.56	42.32	41.70	41.73	41.38	41.22	41.73	41.81	42.02	
20	41.67	41.68	41.67	41.56	42.20	41.82	41.64	41.34	41.25	41.85	41.86	42.00	
21	41.70	41.87	41.84	41.53	42.14	41.80	41.59	41.49	41.28	41.75	41.78	42.06	
22	41.74	41.64	41.77	41.58	42.09	42.09	41.58	41.45	41.20	41.73	41.70	41.99	
23	41.71	41.65	41.75	41.61	41.93	41.91	41.47	41.40	41.21	41.73	41.77	42.15	
24	41.68	41.84	41.74	41.66	41.78	41.73	41.48	41.31	41.17	41.79	41.90	41.94	
25	41.62	41.80	41.56	41.62	41.82	41.51	41.49	41.41	41.16	41.77	41.91	42.06	
26	41.80	41.75	41.58	41.75	41.78	41.53	41.44	41.47	41.15	41.82	41.86	42.12	
27	41.71	41.73	41.44	41.71	41.78	41.44	41.76	41.38	41.51	41.78	41.89	42.05	
28	41.69	41.76	41.68	41.74	41.65	41.33	42.13	41.34	41.51	41.69	41.91	42.05	
29	41.71	41.68	41.53	41.63	41.71	41.24	41.91	41.45	41.52	41.78		42.06	
30	41.81	41.70	41.49	41.75	41.83	41.21	42.23	41.31	41.63	41.70		42.14	
31		41.80		41.65	41.79		42.27		41.53	41.90		42.14	
Mean	41.72	41.73	41.67	41.65	41.91	41.70	41.48	41.32	41.30	41.75	41.81	42.02	
Max	41.82	41.87	41.84	41.83	43.14	42.09	42.27	41.72	41.63	41.90	41.91	42.16	43.14
Min	41.60	41.61	41.44	41.46	41.64	41.21	41.06	40.99	41.15	41.50	41.70	41.81	40.99

Annual Max Momentary Gage Height 43.50 m. (MSL.) , at 16.00 Hours , on Aug 17 , 2016

Zero Gage at Bottom Elevation 39.57 m. (MSL.) , River Bed 34.13 m. (MSL)

Left Bank Elevation 48.30 m. (MSL.) ,

Right Bank Elevation 48.36 m. (MSL.) , Drainage Are 6,725 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.20	127.00	125.90	112.70	129.20	127.00	78.60	129.20	90.70	108.30	129.20	168.00	
2	132.50	117.10	139.20	121.50	134.70	134.70	85.20	107.20	89.60	105.00	133.60	166.80	
3	128.10	140.40	125.90	100.60	121.50	127.00	73.10	92.90	90.70	129.20	136.90	158.40	
4	119.30	146.40	123.70	117.10	136.90	142.80	72.00	83.00	86.30	130.30	138.00	181.20	
5	139.20	130.30	136.90	133.60	120.40	138.00	75.30	74.20	89.60	132.50	133.60	159.60	
6	116.00	133.60	119.30	141.60	128.10	146.40	86.30	69.80	83.00	128.10	133.60	165.60	
7	134.70	128.10	116.00	138.00	127.00	141.60	81.90	64.30	84.10	135.80	139.20	156.00	
8	140.40	127.00	111.60	128.10	123.70	131.40	67.60	64.30	76.40	134.70	141.60	154.80	
9	130.30	127.00	100.60	123.70	136.90	131.40	61.00	61.00	70.90	132.50	146.40	165.60	
10	131.40	131.40	107.20	120.40	121.50	135.80	59.90	58.80	77.50	129.20	134.70	139.20	
11	119.30	129.20	107.20	138.00	127.00	132.50	57.70	56.60	78.60	138.00	131.40	163.20	
12	135.80	120.40	106.10	138.00	123.70	127.00	56.60	54.40	74.20	132.50	135.80	154.80	
13	136.90	124.80	140.40	141.60	123.70	129.20	65.40	49.10	78.60	139.20	129.20	158.40	
14	121.50	134.70	133.60	109.40	152.40	138.00	69.80	75.30	76.40	133.60	132.50	157.20	
15	123.70	128.10	133.60	118.20	180.00	128.10	70.90	116.00	75.30	132.50	139.20	157.20	
16	134.70	125.90	136.90	119.30	220.80	134.70	86.30	89.60	69.80	128.10	136.90	165.60	
17	128.10	134.70	134.70	101.70	298.80	124.80	125.90	98.40	73.10	133.60	141.60	174.00	
18	128.10	119.30	141.60	111.60	230.40	132.50	181.20	105.00	68.70	140.40	147.60	160.80	
19	136.90	123.70	132.50	111.60	200.40	127.00	130.30	91.80	74.20	130.30	139.20	164.40	
20	123.70	124.80	123.70	111.60	186.00	140.40	120.40	87.40	77.50	144.00	145.20	162.00	
21	127.00	146.40	142.80	108.30	178.80	138.00	114.90	103.90	80.80	132.50	135.80	169.20	
22	131.40	120.40	134.70	113.80	172.80	172.80	113.80	99.50	72.00	130.30	127.00	160.80	
23	128.10	121.50	132.50	117.10	153.60	151.20	101.70	94.00	73.10	130.30	134.70	180.00	
24	124.80	142.80	131.40	122.60	135.80	130.30	102.80	84.10	68.70	136.90	150.00	154.80	
25	118.20	138.00	111.60	118.20	140.40	106.10	103.90	95.10	67.60	134.70	151.20	169.20	
26	138.00	132.50	113.80	132.50	135.80	108.30	98.40	101.70	66.50	140.40	145.20	176.40	
27	128.10	130.30	98.40	128.10	135.80	98.40	133.60	91.80	106.10	135.80	148.80	168.00	
28	125.90	133.60	124.80	131.40	121.50	86.30	177.60	87.40	106.10	125.90	151.20	168.00	
29	128.10	124.80	108.30	119.30	128.10	76.40	151.20	99.50	107.20	135.80		169.20	
30	139.20	127.00	103.90	132.50	141.60	73.10	189.60	84.10	119.30	127.00		178.80	
31		138.00		121.50	136.90		194.40		108.30	150.00		178.80	
Total	3878.60	4029.20	3698.80	3783.60	4704.20	3811.20	3187.30	2569.40	2560.90	4097.40	3889.30	5106.00	45315.90 CMSDAY
Mean	129.29	129.97	123.29	122.05	151.75	127.04	102.82	85.65	82.61	132.17	138.90	164.71	124.15 CMS
Max	140.40	146.40	142.80	141.60	298.80	172.80	194.40	129.20	119.30	150.00	151.20	181.20	298.80 CMS
Min	116.00	117.10	98.40	100.60	120.40	73.10	56.60	49.10	66.50	105.00	127.00	139.20	49.10 CMS
Runoff	335.11	348.12	319.58	326.90	406.44	329.29	275.38	222.00	221.26	354.02	336.04	441.16	3915.29 MCM

Momentary Peak 342.00 CMS. at 43.50 m. (MSL.) at 16.00 Hours , on Aug 17 , 2016

Runoff Yield 18.46 Liters/Second/Square KM. Momentary Peak Yield 50.860 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

Ban Kui Mang **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	128 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+73.675 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 15 meters from the top staff gage. **Elevation** +82.022 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

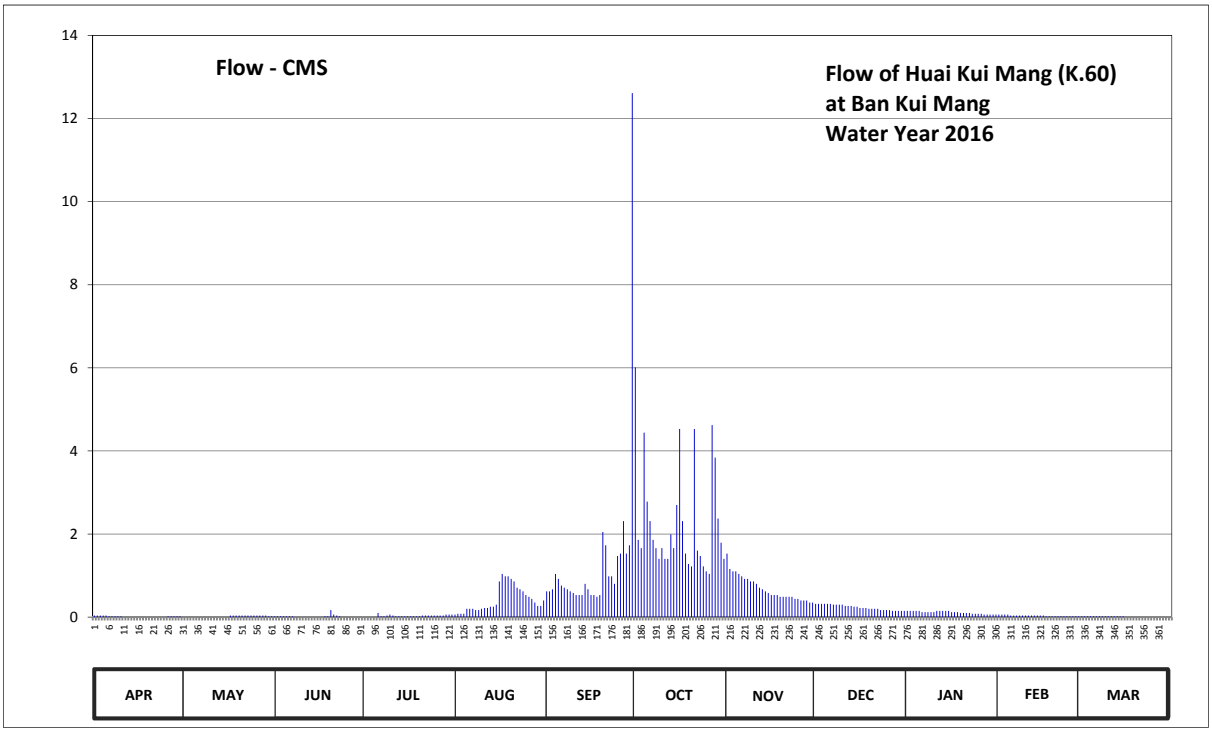
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.37	74.35	74.36	74.35	74.38	74.56	75.28	74.72	74.49	74.42	74.38	74.36	
2	74.37	74.35	74.36	74.35	74.39	74.56	74.77	74.66	74.49	74.42	74.38	74.36	
3	74.37	74.35	74.36	74.35	74.39	74.57	74.74	74.65	74.49	74.42	74.38	74.36	
4	74.37	74.35	74.36	74.35	74.39	74.64	75.11	74.65	74.49	74.42	74.38	74.36	
5	74.37	74.35	74.36	74.35	74.44	74.62	74.91	74.64	74.49	74.42	74.37	74.36	
6	74.36	74.35	74.36	74.40	74.44	74.59	74.84	74.63	74.49	74.41	74.37	74.36	
7	74.36	74.35	74.36	74.36	74.44	74.58	74.77	74.62	74.48	74.41	74.37	74.36	
8	74.36	74.35	74.35	74.36	74.43	74.57	74.74	74.62	74.48	74.41	74.37	74.36	
9	74.36	74.34	74.35	74.37	74.43	74.56	74.70	74.61	74.48	74.41	74.37	74.36	
10	74.36	74.34	74.35	74.38	74.44	74.55	74.74	74.61	74.48	74.41	74.37	74.36	
11	74.35	74.34	74.35	74.37	74.45	74.54	74.70	74.60	74.47	74.42	74.37	74.36	
12	74.35	74.34	74.35	74.36	74.45	74.54	74.70	74.58	74.47	74.42	74.37	74.36	
13	74.35	74.34	74.35	74.36	74.46	74.54	74.79	74.57	74.47	74.42	74.37	74.36	
14	74.35	74.34	74.35	74.36	74.46	74.60	74.74	74.56	74.46	74.42	74.37	74.36	
15	74.34	74.34	74.35	74.36	74.48	74.57	74.90	74.55	74.46	74.42	74.37	74.36	
16	74.34	74.34	74.35	74.36	74.61	74.54	75.12	74.54	74.45	74.41	74.37	74.35	
17	74.34	74.37	74.35	74.36	74.64	74.54	74.84	74.54	74.45	74.41	74.36	74.35	
18	74.34	74.37	74.36	74.36	74.63	74.53	74.72	74.54	74.45	74.41	74.36	74.35	
19	74.33	74.37	74.36	74.36	74.63	74.54	74.68	74.53	74.44	74.40	74.36	74.35	
20	74.33	74.37	74.43	74.36	74.62	74.80	74.67	74.53	74.44	74.40	74.36	74.35	
21	74.33	74.37	74.38	74.37	74.61	74.75	75.12	74.53	74.44	74.40	74.36	74.35	
22	74.33	74.37	74.37	74.37	74.58	74.63	74.73	74.53	74.44	74.40	74.36	74.35	
23	74.33	74.37	74.36	74.37	74.57	74.63	74.71	74.53	74.43	74.39	74.36	74.35	
24	74.32	74.37	74.35	74.37	74.56	74.60	74.67	74.52	74.43	74.39	74.36	74.35	
25	74.32	74.37	74.35	74.37	74.54	74.71	74.65	74.52	74.43	74.39	74.36	74.35	
26	74.36	74.37	74.35	74.37	74.53	74.72	74.64	74.51	74.43	74.39	74.36	74.35	
27	74.36	74.37	74.35	74.37	74.52	74.84	75.13	74.51	74.42	74.38	74.36	74.34	
28	74.36	74.37	74.35	74.37	74.50	74.72	75.04	74.51	74.42	74.38	74.36	74.34	
29	74.36	74.37	74.35	74.38	74.47	74.75	74.85	74.50	74.42	74.38		74.34	
30	74.36	74.36	74.35	74.38	74.47	75.87	74.76	74.50	74.42	74.38		74.34	
31		74.36		74.38	74.51		74.70		74.42	74.38		74.34	
Mean	74.35	74.36	74.36	74.37	74.50	74.66	74.82	74.57	74.46	74.40	74.37	74.35	
Max	74.37	74.37	74.43	74.40	74.64	75.87	75.28	74.72	74.49	74.42	74.38	74.36	75.87
Min	74.32	74.34	74.35	74.35	74.38	74.53	74.64	74.50	74.42	74.38	74.36	74.34	74.32

Annual Max Momentary Gage Height 75.98 m. (MSL.) , at 06.00 Hours , on Sep 30 , 2016

Zero Gage at Bottom Elevation 73.68 m. (MSL.) , River Bed 73.60 m. (MSL.)

Left Bank Elevation 82.05 m. (MSL.) ,

Right Bank Elevation 82.06 m. (MSL.) , Drainage Are 128 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.00	0.02	0.00	0.06	0.62	6.01	1.53	0.32	0.15	0.06	0.02		
2	0.04	0.00	0.02	0.00	0.08	0.62	1.86	1.16	0.32	0.15	0.06	0.02		
3	0.04	0.00	0.02	0.00	0.08	0.67	1.66	1.10	0.32	0.15	0.06	0.02		
4	0.04	0.00	0.02	0.00	0.08	1.04	4.44	1.10	0.32	0.15	0.06	0.02		
5	0.04	0.00	0.02	0.00	0.20	0.92	2.78	1.04	0.32	0.15	0.04	0.02		
6	0.02	0.00	0.02	0.10	0.20	0.76	2.31	0.98	0.32	0.12	0.04	0.02		
7	0.02	0.00	0.02	0.02	0.20	0.71	1.86	0.92	0.30	0.12	0.04	0.02		
8	0.02	0.00	0.00	0.02	0.17	0.67	1.66	0.92	0.30	0.12	0.04	0.02		
9	0.02	0.00	0.00	0.04	0.17	0.62	1.40	0.86	0.30	0.12	0.04	0.02		
10	0.02	0.00	0.00	0.06	0.20	0.58	1.66	0.86	0.30	0.12	0.04	0.02		
11	0.00	0.00	0.00	0.04	0.22	0.53	1.40	0.80	0.27	0.15	0.04	0.02		
12	0.00	0.00	0.00	0.02	0.22	0.53	1.40	0.71	0.27	0.15	0.04	0.02		
13	0.00	0.00	0.00	0.02	0.25	0.53	1.99	0.67	0.27	0.15	0.04	0.02		
14	0.00	0.00	0.00	0.02	0.25	0.80	1.66	0.62	0.25	0.15	0.04	0.02		
15	0.00	0.00	0.00	0.02	0.30	0.67	2.70	0.58	0.25	0.15	0.04	0.02		
16	0.00	0.00	0.00	0.02	0.86	0.53	4.53	0.53	0.22	0.12	0.04	0.00		
17	0.00	0.04	0.00	0.02	1.04	0.53	2.31	0.53	0.22	0.12	0.02	0.00		
18	0.00	0.04	0.02	0.02	0.98	0.49	1.53	0.53	0.22	0.12	0.02	0.00		
19	0.00	0.04	0.02	0.02	0.98	0.53	1.28	0.49	0.20	0.10	0.02	0.00		
20	0.00	0.04	0.17	0.02	0.92	2.05	1.22	0.49	0.20	0.10	0.02	0.00		
21	0.00	0.04	0.06	0.04	0.86	1.73	4.53	0.49	0.20	0.10	0.02	0.00		
22	0.00	0.04	0.04	0.04	0.71	0.98	1.60	0.49	0.20	0.10	0.02	0.00		
23	0.00	0.04	0.02	0.04	0.67	0.98	1.47	0.49	0.17	0.08	0.02	0.00		
24	0.00	0.04	0.00	0.04	0.62	0.80	1.22	0.44	0.17	0.08	0.02	0.00		
25	0.00	0.04	0.00	0.04	0.53	1.47	1.10	0.44	0.17	0.08	0.02	0.00		
26	0.02	0.04	0.00	0.04	0.49	1.53	1.04	0.40	0.17	0.08	0.02	0.00		
27	0.02	0.04	0.00	0.04	0.44	2.31	4.62	0.40	0.15	0.06	0.02	0.00		
28	0.02	0.04	0.00	0.04	0.35	1.53	3.84	0.40	0.15	0.06	0.02	0.00		
29	0.02	0.04	0.00	0.06	0.27	1.73	2.37	0.35	0.15	0.06		0.00		
30	0.02	0.02	0.00	0.06	0.27	12.61	1.79	0.35	0.15	0.06		0.00		
31		0.02		0.06	0.40		1.40		0.15	0.06		0.00		
Total	0.40	0.56	0.47	0.96	13.07	40.07	70.64	20.67	7.32	3.48	0.96	0.30	158.90	CMSDAY
Mean	0.01	0.02	0.02	0.03	0.42	1.34	2.28	0.69	0.24	0.11	0.03	0.01	0.44	CMS
Max	0.04	0.04	0.17	0.10	1.04	12.61	6.01	1.53	0.32	0.15	0.06	0.02	12.61	CMS
Min	0.00	0.00	0.00	0.00	0.06	0.49	1.04	0.35	0.15	0.06	0.02	0.00	0.00	CMS
Runoff	0.03	0.05	0.04	0.08	1.13	3.46	6.10	1.79	0.63	0.30	0.08	0.03	13.73	MCM

Momentary Peak 14.04 CMS. at 75.98 m. (MSL.) at 06.00 Hours , on Sep 30 , 2016

Runoff Yield 3.40 Liters/Second/Square KM. Momentary Peak Yield 109.690 Liters/Second/Square KM.

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

Location : on left bank at Ban Nong Phai.

Ban Nong Phai **Amphoe** Dan Makham Tia **Changwat** Kanchanaburi

Drainge Area	1,725 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+49.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +56.000 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Flot	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

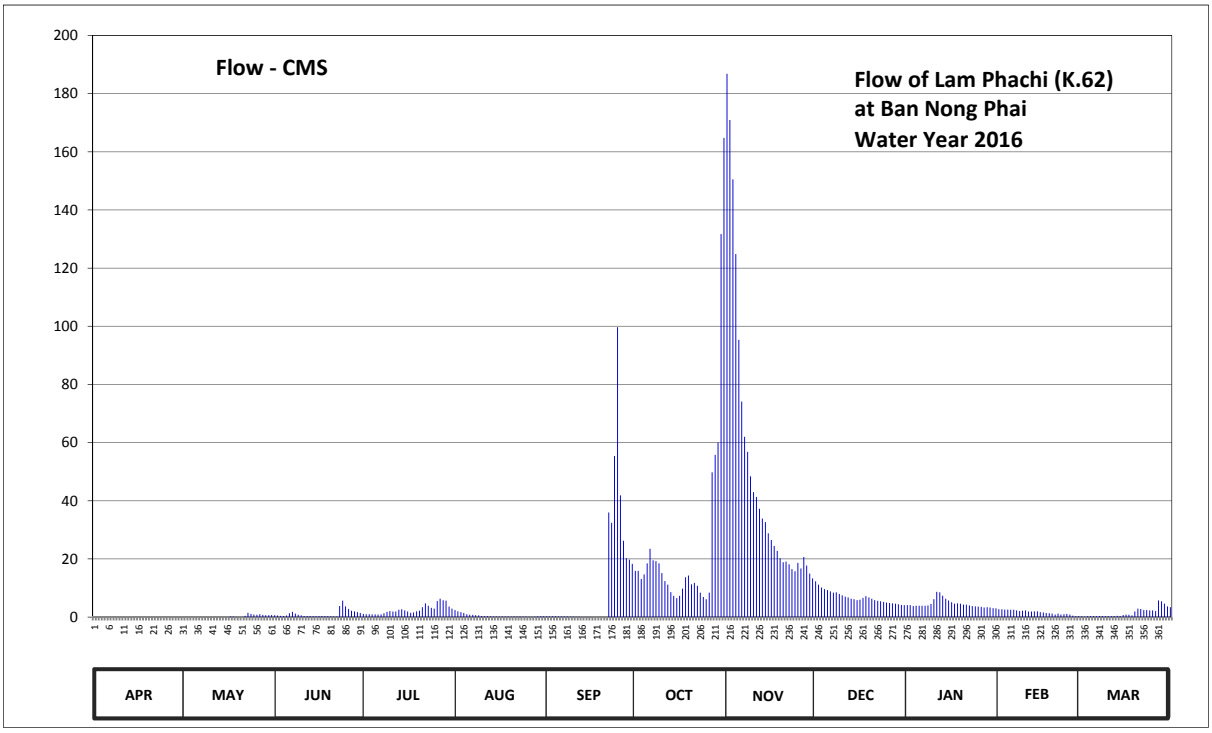
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.80	48.80	49.14	49.21	49.34	49.03	50.27	53.66	49.73	49.16	49.02	48.75	
2	48.80	48.80	49.12	49.20	49.30	49.02	50.27	53.44	49.66	49.16	49.02	48.73	
3	48.80	48.80	49.11	49.20	49.27	49.03	50.13	53.10	49.60	49.13	49.01	48.76	
4	48.80	48.80	49.10	49.19	49.24	49.03	50.21	52.66	49.56	49.14	49.01	48.77	
5	48.80	48.80	49.12	49.19	49.20	49.02	50.40	52.11	49.54	49.14	49.00	48.77	
6	48.80	48.80	49.23	49.18	49.17	49.01	50.60	51.68	49.51	49.14	49.00	48.77	
7	48.80	48.80	49.28	49.19	49.16	49.00	50.44	51.40	49.48	49.14	48.98	48.78	
8	48.80	48.80	49.22	49.23	49.14	49.00	50.43	51.27	49.49	49.15	48.96	48.78	
9	48.80	48.80	49.17	49.28	49.13	48.98	50.40	51.06	49.45	49.20	48.97	48.77	
10	48.80	48.80	49.13	49.31	49.10	48.97	50.23	50.91	49.42	49.33	48.98	48.77	
11	48.80	48.80	49.10	49.29	49.06	48.95	50.09	50.86	49.39	49.50	48.94	48.76	
12	48.80	48.80	49.09	49.29	49.05	48.94	50.01	50.73	49.37	49.49	48.94	48.76	
13	48.80	48.80	49.08	49.35	49.03	48.93	49.87	50.62	49.34	49.41	48.95	48.79	
14	48.80	48.80	49.07	49.37	49.02	48.93	49.78	50.58	49.33	49.34	48.95	48.78	
15	48.80	48.80	49.06	49.33	49.01	48.92	49.72	50.45	49.31	49.30	48.92	48.82	
16	48.80	48.80	49.07	49.29	48.99	48.92	49.78	50.37	49.32	49.25	48.91	48.84	
17	48.80	49.01	49.09	49.25	49.01	48.91	49.94	50.29	49.36	49.21	48.89	48.83	
18	48.80	48.99	49.07	49.26	49.01	48.91	50.16	50.22	49.40	49.22	48.88	48.81	
19	48.80	48.92	49.05	49.30	49.00	48.90	50.19	50.11	49.37	49.21	48.87	48.94	
20	48.80	48.87	49.04	49.32	48.99	48.90	50.02	50.05	49.34	49.18	48.84	49.04	
21	48.80	48.84	49.02	49.44	49.00	48.90	50.05	50.06	49.31	49.18	48.87	49.03	
22	48.80	49.11	49.01	49.57	49.02	51.05	49.99	50.02	49.29	49.15	48.84	48.99	
23	48.80	49.25	49.48	49.49	49.01	50.93	49.86	49.95	49.28	49.13	48.85	48.99	
24	48.80	49.21	49.65	49.42	48.99	51.56	49.75	49.92	49.26	49.12	48.86	48.98	
25	48.80	49.18	49.47	49.39	48.98	52.42	49.69	50.04	49.24	49.11	48.84	48.98	
26	48.80	49.17	49.38	49.64	48.96	51.22	49.86	49.96	49.23	49.10	48.80	48.96	
27	48.80	49.20	49.32	49.70	48.96	50.71	51.42	50.13	49.22	49.08	48.77	49.30	
28	48.80	49.16	49.30	49.66	48.98	50.47	51.57	50.00	49.21	49.09	48.76	49.28	
29	48.80	49.14	49.27	49.65	49.04	50.45	51.67	49.88	49.19	49.08		49.21	
30	48.80	49.14	49.24	49.46	49.04	50.39	52.91	49.79	49.17	49.06		49.12	
31		49.15		49.39	49.04		53.37		49.16	49.05		49.09	
Mean	48.80	48.94	49.18	49.36	49.07	49.58	50.42	50.84	49.37	49.19	48.92	48.90	
Max	48.80	49.25	49.65	49.70	49.34	52.42	53.37	53.66	49.73	49.50	49.02	49.30	53.66
Min	48.80	48.80	49.01	49.18	48.96	48.90	49.69	49.79	49.16	49.05	48.76	48.73	48.73

Annual Max Momentary Gage Height 53.89 m. (MSL.) , at 13.00 Hours , on Nov 1 , 2016

Zero Gage at Bottom Elevation 49.00 m. (MSL.) , River Bed 47.65 m. (MSL.)

Left Bank Elevation 54.97 m. (MSL.) ,

Right Bank Elevation 55.06 m. (MSL.) , Drainage Are 1,725 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.64	1.10	2.40	0.26	15.90	186.80	12.31	4.10	2.70	0.25	
2	0.00	0.00	0.52	1.00	2.00	0.24	15.90	170.90	11.16	4.10	2.70	0.15	
3	0.00	0.00	0.46	1.00	1.70	0.26	13.10	150.50	10.20	3.80	2.60	0.30	
4	0.00	0.00	0.40	0.94	1.40	0.26	14.70	124.80	9.60	3.90	2.60	0.35	
5	0.00	0.00	0.52	0.94	1.00	0.24	18.50	95.32	9.30	3.90	2.50	0.35	
6	0.00	0.00	1.30	0.88	0.82	0.22	23.50	74.10	8.85	3.90	2.50	0.35	
7	0.00	0.00	1.80	0.94	0.76	0.20	19.50	62.00	8.40	3.90	2.30	0.40	
8	0.00	0.00	1.20	1.30	0.64	0.20	19.25	56.80	8.55	4.00	2.10	0.40	
9	0.00	0.00	0.82	1.80	0.58	0.16	18.50	48.40	7.95	4.50	2.20	0.35	
10	0.00	0.00	0.58	2.10	0.40	0.14	15.10	42.94	7.50	6.15	2.30	0.35	
11	0.00	0.00	0.40	1.90	0.32	0.10	12.35	41.32	7.05	8.70	1.90	0.30	
12	0.00	0.00	0.38	1.90	0.30	0.08	11.15	37.23	6.75	8.55	1.90	0.30	
13	0.00	0.00	0.36	2.50	0.26	0.06	8.58	33.90	6.30	7.35	2.00	0.45	
14	0.00	0.00	0.34	2.70	0.24	0.06	7.34	32.70	6.15	6.30	2.00	0.40	
15	0.00	0.00	0.32	2.30	0.22	0.04	6.56	28.80	5.85	5.70	1.70	0.70	
16	0.00	0.00	0.34	1.90	0.18	0.04	7.34	26.52	6.00	5.10	1.60	0.90	
17	0.00	0.22	0.38	1.50	0.22	0.02	9.80	24.46	6.60	4.62	1.40	0.80	
18	0.00	0.18	0.34	1.60	0.22	0.02	13.70	22.78	7.20	4.74	1.30	0.60	
19	0.00	0.04	0.30	2.00	0.20	0.00	14.30	20.23	6.75	4.62	1.20	1.90	
20	0.00	0.00	0.28	2.20	0.18	0.00	11.30	18.85	6.30	4.30	0.90	2.90	
21	0.00	0.00	0.24	3.40	0.20	0.00	11.75	19.08	5.85	4.30	1.20	2.80	
22	0.00	0.46	0.22	4.70	0.24	36.00	10.80	18.16	5.58	4.00	0.90	2.40	
23	0.00	1.50	3.80	3.90	0.22	32.40	8.44	16.50	5.46	3.80	1.00	2.40	
24	0.00	1.10	5.65	3.20	0.18	55.40	6.95	15.78	5.22	3.70	1.10	2.30	
25	0.00	0.88	3.70	2.90	0.16	99.70	6.17	18.62	4.98	3.60	0.90	2.30	
26	0.00	0.82	2.80	5.52	0.12	41.88	8.44	16.74	4.86	3.50	0.50	2.10	
27	0.00	1.00	2.20	6.30	0.12	26.25	49.80	20.69	4.74	3.30	0.35	5.70	
28	0.00	0.76	2.00	5.78	0.16	20.25	55.80	17.70	4.62	3.40	0.30	5.46	
29	0.00	0.64	1.70	5.65	0.28	19.75	60.01	14.94	4.40	3.30		4.62	
30	0.00	0.64	1.40	3.60	0.28	18.30	131.70	13.33	4.20	3.10		3.70	
31		0.70		2.90	0.28		164.75		4.10	3.00		3.40	
Total	0.00	8.94	35.39	80.35	16.28	352.53	790.98	1470.89	212.78	141.23	46.65	49.68	3205.70 CMSDAY
Mean	0.00	0.29	1.18	2.59	0.53	11.75	25.52	49.03	6.86	4.56	1.67	1.60	8.78 CMS
Max	0.00	1.50	5.65	6.30	2.40	99.70	164.75	186.80	12.31	8.70	2.70	5.70	186.80 CMS
Min	0.00	0.00	0.22	0.88	0.12	0.00	6.17	13.33	4.10	3.00	0.30	0.15	0.00 CMS
Runoff	0.00	0.77	3.06	6.94	1.41	30.46	68.34	127.08	18.38	12.20	4.03	4.29	276.97 MCM

Momentary Peak 205.20 CMS. at 53.89 m. (MSL.) at 13.00 Hours , on Nov 1 , 2016

Runoff Yield 5.09 Liters/Second/Square KM. Momentary Peak Yield 118.960 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Prachin Buri River at Ban Kabin Buri , Prachin Buri (Kgt.3)

Lat 13 - 59 - 00 N Long 101 - 42 - 26 E

Location : on left bank in front of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Phra Prong.

Ban Kabin Buri **Amphoe** Kabin Buri **Changwat** Prachin Buri

Drainge Area	7,425 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 5 meters from the top staff gage. **Elevation** +11.410 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00,12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1941 to date
Rating Operation	
Period of Rating	1941 - 1943 , 1945, 1964 to date
Rated by Flot	-
Rated by Current Meter	1941 - 1943 , 1945, 1964 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

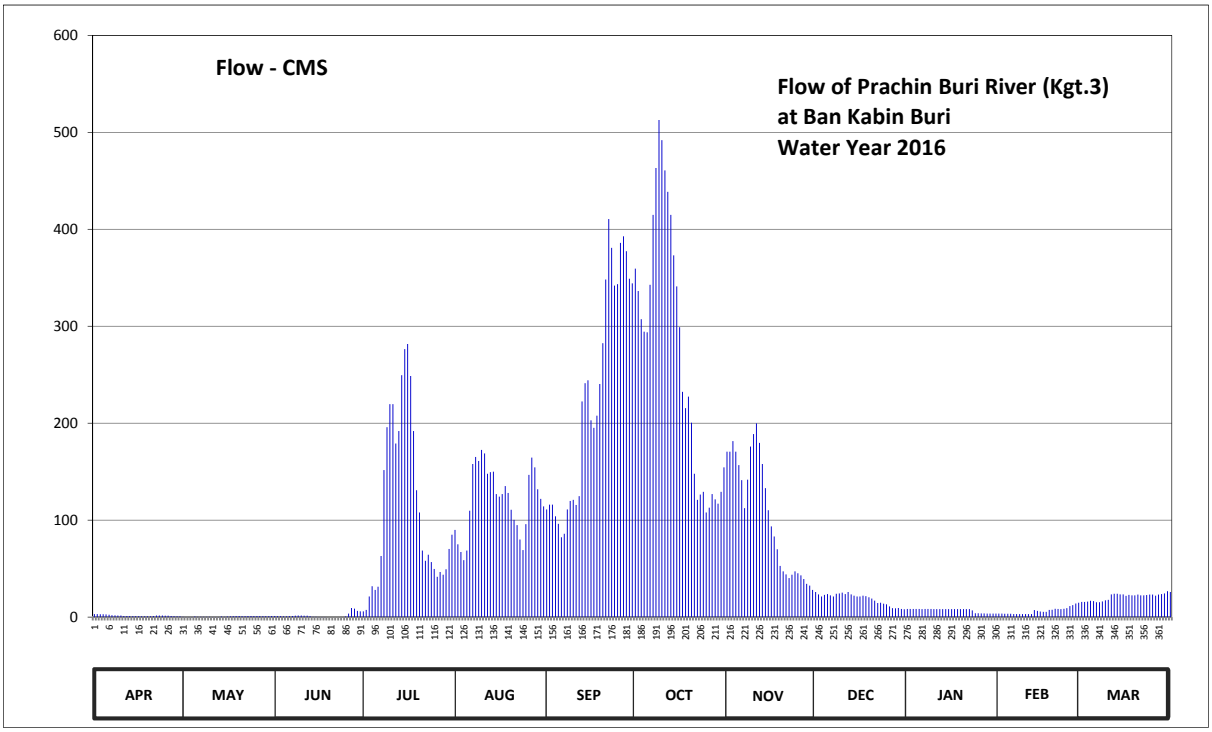
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.02	0.06	0.30	2.81	3.28	6.95	4.36	1.08	0.42	0.18	0.71	
2	0.16	0.01	0.05	0.37	2.48	3.39	6.66	4.36	1.00	0.42	0.18	0.71	
3	0.15	0.01	0.05	0.92	2.29	3.39	6.29	4.54	0.92	0.42	0.17	0.72	
4	0.15	0.01	0.04	1.28	2.08	3.12	6.12	4.36	0.98	0.42	0.17	0.75	
5	0.14	0.03	0.04	1.15	2.33	2.95	6.11	4.13	1.01	0.42	0.17	0.74	
6	0.12	0.02	0.05	1.26	3.25	2.64	6.74	3.85	0.96	0.41	0.16	0.70	
7	0.10	0.02	0.06	2.19	4.15	2.72	7.61	3.31	0.92	0.42	0.16	0.70	
8	0.09	0.02	0.07	4.04	4.27	3.28	8.18	3.86	1.02	0.42	0.16	0.73	
9	0.08	0.02	0.08	4.76	4.20	3.46	8.73	4.45	1.03	0.42	0.16	0.77	
10	0.08	0.02	0.08	5.11	4.39	3.48	8.50	4.65	1.06	0.41	0.16	0.79	
11	0.06	0.01	0.07	5.11	4.33	3.38	8.15	4.82	1.01	0.41	0.16	1.00	
12	0.06	0.01	0.07	4.50	3.97	3.55	7.89	4.51	1.08	0.41	0.16	1.02	
13	0.06	0.01	0.05	4.70	4.00	5.15	7.61	4.15	1.00	0.41	0.36	1.02	
14	0.05	0.03	0.02	5.52	4.01	5.41	7.12	3.70	0.95	0.41	0.32	1.00	
15	0.05	0.02	0.02	5.88	3.59	5.45	6.72	3.26	0.92	0.41	0.29	1.00	
16	0.05	0.03	0.01	5.95	3.54	4.87	6.18	2.89	0.92	0.41	0.27	0.94	
17	0.04	0.04	0.01	5.51	3.59	4.75	5.29	2.66	0.95	0.41	0.27	0.98	
18	0.04	0.05	0.01	4.70	3.74	4.94	5.05	2.36	0.93	0.41	0.37	0.96	
19	0.04	0.06	0.00	3.66	3.61	5.40	5.22	1.91	0.89	0.41	0.38	0.96	
20	0.04	0.06	0.00	3.21	3.27	5.96	4.83	1.75	0.84	0.41	0.43	0.99	
21	0.06	0.05	0.00	2.33	3.04	6.81	3.97	1.66	0.76	0.41	0.42	0.96	
22	0.08	0.05	0.00	2.06	2.92	7.56	3.48	1.55	0.67	0.41	0.41	0.96	
23	0.08	0.06	0.00	2.22	2.59	7.21	3.58	1.65	0.68	0.35	0.43	0.97	
24	0.08	0.06	0.00	2.02	2.34	6.73	3.63	1.75	0.64	0.20	0.46	0.99	
25	0.07	0.06	0.03	1.82	2.94	6.75	3.21	1.69	0.62	0.20	0.55	0.99	
26	0.07	0.06	0.18	1.59	3.95	7.27	3.32	1.63	0.54	0.19	0.59	0.95	
27	0.06	0.06	0.47	1.73	4.26	7.35	3.59	1.52	0.46	0.19	0.65	0.99	
28	0.05	0.05	0.44	1.65	4.09	7.17	3.49	1.36	0.45	0.18	0.68	1.01	
29	0.04	0.05	0.32	1.81	3.68	6.82	3.41	1.30	0.47	0.18		1.03	
30	0.04	0.05	0.30	2.37	3.50	6.76	3.63	1.15	0.42	0.18		1.11	
31		0.06		2.70	3.35		4.09		0.40	0.18		1.08	
Mean	0.08	0.04	0.09	2.98	3.44	5.03	5.66	2.97	0.83	0.35	0.32	0.91	
Max	0.16	0.06	0.47	5.95	4.39	7.56	8.73	4.82	1.08	0.42	0.68	1.11	8.73
Min	0.04	0.01	0.00	0.30	2.08	2.64	3.21	1.15	0.40	0.18	0.16	0.70	0.00

Annual Max Momentary Gage Height 8.74 m. (MSL.) , at 09.00 Hours, on Oct 9, 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.30 m. (MSL.)

Left Bank Elevation 10.27 m. (MSL.) ,

Right Bank Elevation 9.65 m. (MSL.) , Drainage Are 7,425 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	0.40	1.20	6.00	89.95	111.10	359.50	170.60	25.90	8.40	3.60	15.67	
2	3.20	0.20	1.00	7.40	75.10	116.05	336.30	170.60	23.50	8.40	3.60	15.67	
3	3.00	0.20	1.00	21.34	67.10	116.05	307.25	181.60	21.34	8.40	3.40	15.94	
4	3.00	0.20	0.80	31.90	58.80	103.90	294.50	170.60	22.96	8.40	3.40	16.75	
5	2.80	0.60	0.80	28.00	68.70	96.25	293.75	156.80	23.80	8.40	3.40	16.48	
6	2.40	0.40	1.00	31.30	109.75	82.30	342.70	141.25	22.42	8.20	3.20	15.40	
7	2.00	0.40	1.20	63.10	158.00	85.90	414.85	112.45	21.34	8.40	3.20	15.40	
8	1.80	0.40	1.40	151.70	165.20	111.10	463.30	141.80	24.10	8.40	3.20	16.21	
9	1.60	0.40	1.60	195.90	161.00	119.80	512.70	176.00	24.40	8.40	3.20	17.29	
10	1.60	0.40	1.60	219.70	172.40	120.90	492.00	188.75	25.30	8.20	3.20	17.83	
11	1.20	0.20	1.40	219.70	168.80	115.60	460.75	199.80	23.80	8.20	3.20	23.50	
12	1.20	0.20	1.40	179.00	147.85	124.75	438.65	179.65	25.90	8.20	3.20	24.10	
13	1.20	0.20	1.00	192.00	149.50	222.50	414.85	158.00	23.50	8.20	7.20	24.10	
14	1.00	0.60	0.40	249.50	150.05	241.25	373.20	133.00	22.15	8.20	6.40	23.50	
15	1.00	0.40	0.40	276.50	126.95	244.25	341.10	110.20	21.34	8.20	5.80	23.50	
16	1.00	0.60	0.20	281.75	124.20	203.05	299.00	93.55	21.34	8.20	5.40	21.88	
17	0.80	0.80	0.20	248.75	126.95	195.25	232.30	83.20	22.15	8.20	5.40	22.96	
18	0.80	1.00	0.20	192.00	135.20	207.80	215.50	69.90	21.61	8.20	7.40	22.42	
19	0.80	1.20	0.00	130.80	128.05	240.50	227.40	52.85	20.53	8.20	7.60	22.42	
20	0.80	1.20	0.00	107.95	110.65	282.50	200.45	47.25	19.18	8.20	8.60	23.23	
21	1.20	1.00	0.00	68.70	100.30	348.30	147.85	44.10	17.02	8.20	8.40	22.42	
22	1.60	1.00	0.00	58.10	94.90	410.60	120.90	40.25	14.59	8.20	8.20	22.42	
23	1.60	1.20	0.00	64.30	80.05	380.85	126.40	43.75	14.86	7.00	8.60	22.69	
24	1.60	1.20	0.00	56.70	69.10	341.90	129.15	47.25	13.78	4.00	9.20	23.23	
25	1.40	1.20	0.60	49.70	95.80	343.50	107.95	45.15	13.24	4.00	11.35	23.23	
26	1.40	1.20	3.60	41.65	146.75	385.95	112.90	43.05	11.08	3.80	12.43	22.15	
27	1.20	1.20	9.40	46.55	164.60	392.75	126.95	39.20	9.20	3.80	14.05	23.23	
28	1.00	1.00	8.80	43.75	154.45	377.45	121.45	34.30	9.00	3.60	14.86	23.80	
29	0.80	1.00	6.40	49.35	131.90	349.10	117.05	32.50	9.40	3.60		24.40	
30	0.80	1.00	6.00	70.30	122.00	344.30	129.15	28.00	8.40	3.60		26.80	
31		1.20		85.00	114.25		154.45		8.00	3.60		25.90	
Total	47.00	22.20	51.60	3468.39	3768.30	6815.50	8414.25	3135.40	585.13	219.00	180.69	654.52	27361.98 CMSDAY
Mean	1.57	0.72	1.72	111.88	121.56	227.18	271.43	104.51	18.88	7.06	6.45	21.11	74.96 CMS
Max	3.20	1.20	9.40	281.75	172.40	410.60	512.70	199.80	25.90	8.40	14.86	26.80	512.70 CMS
Min	0.80	0.20	0.00	6.00	58.80	82.30	107.95	28.00	8.00	3.60	3.20	15.40	0.00 CMS
Runoff	4.06	1.92	4.46	299.67	325.58	588.86	726.99	270.90	50.56	18.92	15.61	56.55	2364.08 MCM

Momentary Peak 513.60 CMS, at 8.74 m. (MSL.), at 09.00 Hours, on Oct 9, 2016

Runoff Yield 10.10 Liters/Second/Square KM. Momentary Peak Yield 69.170 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan , Sa Kaeo (Kgt.9)

Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

Ban Khao Chakan **Amphoe** Khao Chakan **Changwat** Sa Kaeo

Drainge Area	2,264 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+39.566 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the automatic gage building. **Elevation** +50.745 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1972 to date
Rating Operation	
Period of Rating	1972 - 1987 , 1989 to date
Rated by Flot	-
Rated by Current Meter	1972 - 1987 , 1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

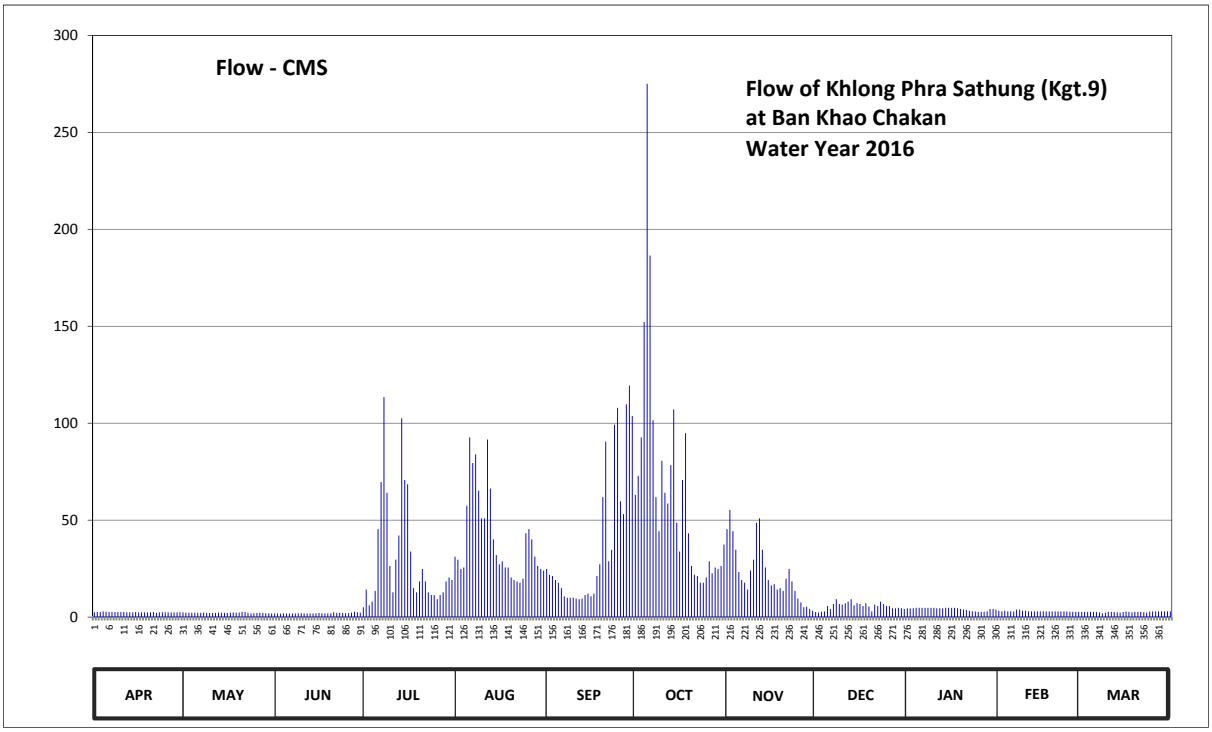
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.25	43.25	43.19	43.37	43.79	43.71	44.10	43.94	43.26	43.35	43.31	43.27	
2	43.26	43.23	43.19	43.56	43.77	43.67	44.19	44.03	43.23	43.35	43.30	43.27	
3	43.26	43.23	43.18	43.40	43.71	43.66	44.37	43.93	43.28	43.35	43.31	43.27	
4	43.30	43.22	43.19	43.45	43.72	43.63	45.82	43.83	43.30	43.36	43.30	43.27	
5	43.28	43.23	43.19	43.55	44.05	43.61	47.30	43.69	43.39	43.36	43.30	43.27	
6	43.27	43.22	43.19	43.94	44.37	43.57	46.35	43.63	43.34	43.36	43.29	43.27	
7	43.27	43.22	43.19	44.16	44.25	43.51	44.45	43.61	43.42	43.36	43.33	43.25	
8	43.26	43.23	43.19	44.82	44.29	43.50	44.09	43.56	43.48	43.36	43.33	43.20	
9	43.26	43.22	43.19	44.11	44.12	43.50	43.93	43.70	43.42	43.36	43.31	43.22	
10	43.26	43.21	43.20	43.73	43.99	43.50	44.26	43.77	43.41	43.36	43.31	43.27	
11	43.26	43.21	43.19	43.54	43.99	43.49	44.11	43.97	43.43	43.35	43.30	43.27	
12	43.25	43.21	43.19	43.77	44.36	43.48	44.06	43.99	43.45	43.35	43.30	43.26	
13	43.25	43.24	43.19	43.91	44.13	43.49	44.24	43.83	43.48	43.35	43.30	43.25	
14	43.25	43.23	43.19	44.46	43.89	43.52	44.51	43.72	43.40	43.36	43.30	43.23	
15	43.26	43.22	43.20	44.17	43.80	43.53	43.97	43.63	43.43	43.36	43.30	43.26	
16	43.25	43.21	43.21	44.15	43.74	43.51	43.82	43.59	43.42	43.36	43.30	43.29	
17	43.25	43.23	43.20	43.82	43.76	43.53	44.17	43.60	43.39	43.36	43.30	43.27	
18	43.25	43.24	43.19	43.57	43.72	43.66	44.39	43.56	43.43	43.35	43.30	43.25	
19	43.24	43.23	43.19	43.54	43.72	43.74	43.92	43.57	43.38	43.34	43.30	43.27	
20	43.25	43.24	43.20	43.62	43.65	44.09	43.73	43.55	43.30	43.33	43.30	43.27	
21	43.26	43.27	43.25	43.71	43.63	44.35	43.67	43.64	43.41	43.32	43.30	43.27	
22	43.22	43.26	43.22	43.62	43.62	43.76	43.66	43.71	43.39	43.31	43.30	43.25	
23	43.25	43.22	43.21	43.54	43.61	43.83	43.61	43.62	43.45	43.30	43.30	43.23	
24	43.25	43.19	43.21	43.52	43.64	44.43	43.61	43.55	43.42	43.29	43.29	43.28	
25	43.25	43.20	43.20	43.52	43.92	44.59	43.65	43.49	43.39	43.27	43.28	43.30	
26	43.25	43.21	43.20	43.48	43.94	44.07	43.76	43.44	43.39	43.27	43.27	43.30	
27	43.24	43.22	43.23	43.52	43.89	44.01	43.68	43.37	43.35	43.27	43.27	43.30	
28	43.24	43.22	43.28	43.54	43.79	44.67	43.72	43.38	43.35	43.30	43.27	43.30	
29	43.25	43.20	43.25	43.62	43.73	45.04	43.71	43.34	43.36	43.34		43.30	
30	43.25	43.20	43.23	43.65	43.71	44.47	43.73	43.31	43.35	43.34		43.30	
31		43.19		43.63	43.70		43.86		43.34	43.33		43.30	
Mean	43.25	43.22	43.20	43.74	43.87	43.84	44.21	43.65	43.38	43.34	43.30	43.27	
Max	43.30	43.27	43.28	44.82	44.37	45.04	47.30	44.03	43.48	43.36	43.33	43.30	47.30
Min	43.22	43.19	43.18	43.37	43.61	43.48	43.61	43.31	43.23	43.27	43.27	43.20	43.18

Annual Max Momentary Gage Height 47.53 m. (MSL.) , at 18.00 Hours, on Oct 5, 2016

Zero Gage at Bottom Elevation 39.57 m. (MSL.) , River Bed 38.97 m. (MSL.)

Left Bank Elevation 50.69 m. (MSL.) ,

Right Bank Elevation 50.58 m. (MSL.) , Drainage Are 2,264 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	2.50	1.90	5.10	31.20	24.80	63.00	45.40	2.60	4.50	3.30	2.70	
2	2.60	2.30	1.90	14.20	29.60	21.90	72.90	55.30	2.30	4.50	3.00	2.70	
3	2.60	2.30	1.80	6.00	24.80	21.20	92.70	44.30	2.80	4.50	3.30	2.70	
4	3.00	2.20	1.90	8.00	25.60	19.10	152.20	34.70	3.00	4.80	3.00	2.70	
5	2.80	2.30	1.90	13.50	57.50	17.70	275.00	23.30	5.70	4.80	3.00	2.70	
6	2.70	2.20	1.90	45.40	92.70	14.90	186.50	19.10	4.20	4.80	2.90	2.70	
7	2.70	2.20	1.90	69.60	79.50	10.70	101.50	17.70	6.80	4.80	3.90	2.50	
8	2.60	2.30	1.90	113.50	83.90	10.00	61.90	14.20	9.20	4.80	3.90	2.00	
9	2.60	2.20	1.90	64.10	65.20	10.00	44.30	24.00	6.80	4.80	3.30	2.20	
10	2.60	2.10	2.00	26.40	50.90	10.00	80.60	29.60	6.40	4.80	3.30	2.70	
11	2.60	2.10	1.90	12.80	50.90	9.60	64.10	48.70	7.20	4.50	3.00	2.70	
12	2.50	2.10	1.90	29.60	91.60	9.20	58.60	50.90	8.00	4.50	3.00	2.60	
13	2.50	2.40	1.90	42.10	66.30	9.60	78.40	34.70	9.20	4.50	3.00	2.50	
14	2.50	2.30	1.90	102.60	40.10	11.40	107.10	25.60	6.00	4.80	3.00	2.30	
15	2.60	2.20	2.00	70.70	32.00	12.10	48.70	19.10	7.20	4.80	3.00	2.60	
16	2.50	2.10	2.10	68.50	27.20	10.70	33.80	16.30	6.80	4.80	3.00	2.90	
17	2.50	2.30	2.00	33.80	28.80	12.10	70.70	17.00	5.70	4.80	3.00	2.70	
18	2.50	2.40	1.90	14.90	25.60	21.20	94.90	14.20	7.20	4.50	3.00	2.50	
19	2.40	2.30	1.90	12.80	25.60	27.20	43.20	14.90	5.40	4.20	3.00	2.70	
20	2.50	2.40	2.00	18.40	20.50	61.90	26.40	13.50	3.00	3.90	3.00	2.70	
21	2.60	2.70	2.50	24.80	19.10	90.50	21.90	19.80	6.40	3.60	3.00	2.70	
22	2.20	2.60	2.20	18.40	18.40	28.80	21.20	24.80	5.70	3.30	3.00	2.50	
23	2.50	2.20	2.10	12.80	17.70	34.70	17.70	18.40	8.00	3.00	3.00	2.30	
24	2.50	1.90	2.10	11.40	19.80	99.30	17.70	13.50	6.80	2.90	2.90	2.80	
25	2.50	2.00	2.00	11.40	43.20	107.90	20.50	9.60	5.70	2.70	2.80	3.00	
26	2.50	2.10	2.00	9.20	45.40	59.70	28.80	7.60	5.70	2.70	2.70	3.00	
27	2.40	2.20	2.30	11.40	40.10	53.10	22.60	5.10	4.50	2.70	2.70	3.00	
28	2.40	2.20	2.80	12.80	31.20	109.75	25.60	5.40	4.50	3.00	2.70	3.00	
29	2.50	2.00	2.50	18.40	26.40	119.40	24.80	4.20	4.80	4.20		3.00	
30	2.50	2.00	2.30	20.50	24.80	103.70	26.40	3.30	4.50	4.20		3.00	
31		1.90		19.10	24.00		37.40		4.20	3.90		3.00	
Total	76.40	69.00	61.30	942.20	1259.60	1152.15	2021.10	674.20	176.30	128.60	85.70	83.10	6729.65	CMSDAY
Mean	2.55	2.23	2.04	30.39	40.63	38.41	65.20	22.47	5.69	4.15	3.06	2.68	18.44	CMS
Max	3.00	2.70	2.80	113.50	92.70	119.40	275.00	55.30	9.20	4.80	3.90	3.00	275.00	CMS
Min	2.20	1.90	1.80	5.10	17.70	9.20	17.70	3.30	2.30	2.70	2.70	2.00	1.80	CMS
Runoff	6.60	5.96	5.30	81.41	108.83	99.55	174.62	58.25	15.23	11.11	7.40	7.18	581.44	MCM

Momentary Peak 302.90 CMS, at 47.53 m. (MSL.), at 18.00 Hours, on Oct 5, 2016

Runoff Yield 8.14 Liters/Second/Square KM. Momentary Peak Yield 133.790 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng , Sa Kaeo (Kgt.12)

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	Ban Kaeng	**Amphoe** Mueang	**Changwat** Sa Kaeo
Drainge Area	1,478 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+13.835 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank in front of the gage observer's house.	**Elevation**	+23.522 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 to date		
Rated by Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

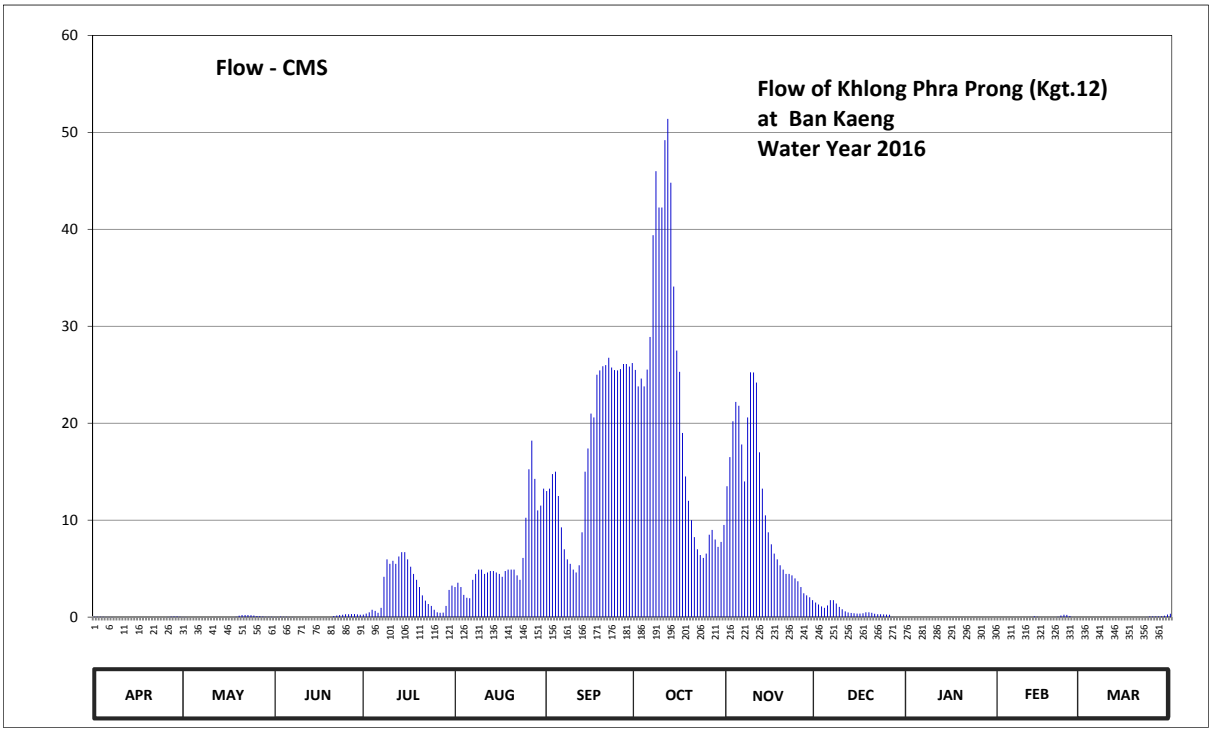
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.24	15.22	15.21	15.47	16.14	16.64	17.20	16.66	15.90	15.08	14.94	15.07	
2	15.24	15.21	15.22	15.56	16.17	16.65	16.97	16.78	15.86	15.03	14.95	15.05	
3	15.23	15.20	15.25	15.69	16.14	16.71	16.99	16.88	15.82	14.99	14.98	15.03	
4	15.23	15.19	15.24	15.75	16.06	16.72	16.97	16.93	15.79	14.97	15.01	15.03	
5	15.22	15.18	15.23	15.73	16.00	16.62	17.21	16.92	15.84	14.96	15.03	15.03	
6	15.22	15.16	15.22	15.65	15.99	16.49	17.84	16.82	15.95	14.94	15.03	15.01	
7	15.21	15.14	15.21	15.79	16.19	16.40	18.76	16.68	15.95	14.94	15.02	15.01	
8	15.20	15.13	15.20	16.21	16.23	16.33	19.20	16.89	15.88	14.94	15.02	15.00	
9	15.19	15.12	15.20	16.33	16.26	16.30	18.95	17.10	15.81	14.94	15.01	14.99	
10	15.19	15.11	15.19	16.30	16.26	16.26	18.95	17.09	15.76	14.94	15.00	14.98	
11	15.18	15.10	15.17	16.32	16.23	16.24	19.36	16.98	15.72	14.94	15.04	14.98	
12	15.17	15.09	15.16	16.30	16.24	16.29	19.47	16.80	15.67	14.94	15.18	15.00	
13	15.17	15.10	15.15	16.35	16.25	16.47	19.12	16.65	15.62	14.94	15.28	15.02	
14	15.16	15.15	15.14	16.38	16.25	16.72	18.36	16.54	15.60	14.94	15.24	15.03	
15	15.15	15.14	15.14	16.38	16.24	16.81	17.70	16.47	15.57	14.95	15.16	15.04	
16	15.14	15.14	15.15	16.33	16.23	16.90	17.12	16.42	15.56	14.95	15.11	15.05	
17	15.13	15.15	15.15	16.28	16.21	16.89	16.85	16.37	15.59	14.95	15.08	15.09	
18	15.12	15.16	15.16	16.23	16.25	17.00	16.70	16.33	15.69	14.94	15.07	15.11	
19	15.11	15.24	15.16	16.19	16.26	17.18	16.60	16.29	15.70	14.92	15.08	15.11	
20	15.11	15.34	15.19	16.14	16.26	17.35	16.52	16.26	15.64	14.90	15.11	15.11	
21	15.11	15.41	15.31	16.05	16.26	17.40	16.45	16.23	15.55	14.89	15.24	15.13	
22	15.11	15.42	15.37	15.94	16.22	17.55	16.40	16.23	15.50	14.87	15.37	15.17	
23	15.16	15.41	15.41	15.87	16.19	17.30	16.36	16.22	15.49	14.87	15.44	15.22	
24	15.19	15.39	15.45	15.83	16.34	17.19	16.34	16.20	15.48	14.89	15.43	15.26	
25	15.20	15.36	15.49	15.75	16.53	17.18	16.37	16.18	15.47	14.90	15.32	15.27	
26	15.22	15.32	15.49	15.69	16.73	17.23	16.46	16.14	15.44	14.90	15.20	15.26	
27	15.25	15.29	15.52	15.64	16.83	17.42	16.48	16.09	15.21	14.90	15.13	15.27	
28	15.26	15.26	15.51	15.66	16.69	17.42	16.44	16.05	15.12	14.90	15.09	15.28	
29	15.26	15.24	15.48	15.83	16.56	17.34	16.41	16.01	15.08	14.92		15.35	
30	15.24	15.23	15.45	16.12	16.58	17.44	16.43	15.95	15.08	14.94		15.46	
31		15.23		16.15	16.65		16.50		15.09	14.93		15.55	
Mean	15.19	15.22	15.27	16.00	16.30	16.88	17.34	16.51	15.59	14.94	15.13	15.13	
Max	15.26	15.42	15.52	16.38	16.83	17.55	19.47	17.10	15.95	15.08	15.44	15.55	19.47
Min	15.11	15.09	15.14	15.47	15.99	16.24	16.34	15.95	15.08	14.87	14.94	14.98	14.87

Annual Max Momentary Gage Height 19.51 m. (MSL.) , at 05.00 Hours, on Oct 12 , 2016

Zero Gage at Bottom Elevation 13.84 m. (MSL.) , River Bed 13.64 m. (MSL.)

Left Bank Elevation 23.48 m. (MSL.) ,

Right Bank Elevation 22.32 m. (MSL.) , Drainage Are 1,478 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.02	0.01	0.27	3.10	13.00	25.50	13.50	1.50	0.00	0.00	0.00		
2	0.04	0.01	0.02	0.36	3.55	13.25	23.80	16.50	1.30	0.00	0.00	0.00		
3	0.03	0.00	0.05	0.49	3.10	14.75	24.60	20.20	1.10	0.00	0.00	0.00		
4	0.03	0.00	0.04	0.75	2.30	15.00	23.80	22.20	0.95	0.00	0.00	0.00		
5	0.02	0.00	0.03	0.65	2.00	12.50	25.53	21.80	1.20	0.00	0.00	0.00		
6	0.02	0.00	0.02	0.45	1.95	9.25	28.90	17.80	1.75	0.00	0.00	0.00		
7	0.01	0.00	0.01	0.95	3.85	7.00	39.40	14.00	1.75	0.00	0.00	0.00		
8	0.00	0.00	0.00	4.15	4.45	5.95	46.00	20.60	1.40	0.00	0.00	0.00		
9	0.00	0.00	0.00	5.95	4.90	5.50	42.25	25.25	1.05	0.00	0.00	0.00		
10	0.00	0.00	0.00	5.50	4.90	4.90	42.25	25.23	0.80	0.00	0.00	0.00		
11	0.00	0.00	0.00	5.80	4.45	4.60	49.20	24.20	0.60	0.00	0.00	0.00		
12	0.00	0.00	0.00	5.50	4.60	5.35	51.40	17.00	0.47	0.00	0.00	0.00		
13	0.00	0.00	0.00	6.25	4.75	8.75	44.80	13.25	0.42	0.00	0.08	0.00		
14	0.00	0.00	0.00	6.70	4.75	15.00	34.10	10.50	0.40	0.00	0.04	0.00		
15	0.00	0.00	0.00	6.70	4.60	17.40	27.50	8.75	0.37	0.00	0.00	0.00		
16	0.00	0.00	0.00	5.95	4.45	21.00	25.30	7.50	0.36	0.00	0.00	0.00		
17	0.00	0.00	0.00	5.20	4.15	20.60	19.00	6.55	0.39	0.00	0.00	0.00		
18	0.00	0.00	0.00	4.45	4.75	25.00	14.50	5.95	0.49	0.00	0.00	0.00		
19	0.00	0.04	0.00	3.85	4.90	25.45	12.00	5.35	0.50	0.00	0.00	0.00		
20	0.00	0.14	0.00	3.10	4.90	25.88	10.00	4.90	0.44	0.00	0.00	0.00		
21	0.00	0.21	0.11	2.25	4.90	26.00	8.25	4.45	0.35	0.00	0.04	0.00		
22	0.00	0.22	0.17	1.70	4.30	26.75	7.00	4.45	0.30	0.00	0.17	0.00		
23	0.00	0.21	0.21	1.35	3.85	25.75	6.40	4.30	0.29	0.00	0.24	0.02		
24	0.00	0.19	0.25	1.15	6.10	25.48	6.10	4.00	0.28	0.00	0.23	0.06		
25	0.00	0.16	0.29	0.75	10.25	25.45	6.55	3.70	0.27	0.00	0.12	0.07		
26	0.02	0.12	0.29	0.49	15.25	25.58	8.50	3.10	0.24	0.00	0.00	0.06		
27	0.05	0.09	0.32	0.44	18.20	26.10	9.00	2.45	0.01	0.00	0.00	0.07		
28	0.06	0.06	0.31	0.46	14.25	26.10	8.00	2.25	0.00	0.00	0.00	0.08		
29	0.06	0.04	0.28	1.15	11.00	25.85	7.25	2.05	0.00	0.00		0.15		
30	0.04	0.03	0.25	2.80	11.50	26.20	7.75	1.75	0.00	0.00		0.26		
31		0.03		3.25	13.25		9.50		0.00	0.00		0.35		
Total	0.42	1.57	2.66	88.81	193.25	529.39	694.13	333.53	18.98	0.00	0.92	1.12	1864.78	CMSDAY
Mean	0.01	0.05	0.09	2.86	6.23	17.65	22.39	11.12	0.61	0.00	0.03	0.04	5.11	CMS
Max	0.06	0.22	0.32	6.70	18.20	26.75	51.40	25.25	1.75	0.00	0.24	0.35	51.40	CMS
Min	0.00	0.00	0.00	0.27	1.95	4.60	6.10	1.75	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.04	0.14	0.23	7.67	16.70	45.74	59.97	28.82	1.64	0.00	0.08	0.10	161.12	MCM

Momentary Peak 52.20 CMS, at 19.51 m. (MSL.), at 05.00 Hours, on Oct 12, 2016

Runoff Yield 3.46 Liters/Second/Square KM. Momentary Peak Yield 35.320 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

Ban Non Suk Phum **Amphoe** Kabin Buri **Changwat** Prachin Buri

Drainge Area	4,906 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the top staff gage. **Elevation** +17.571 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

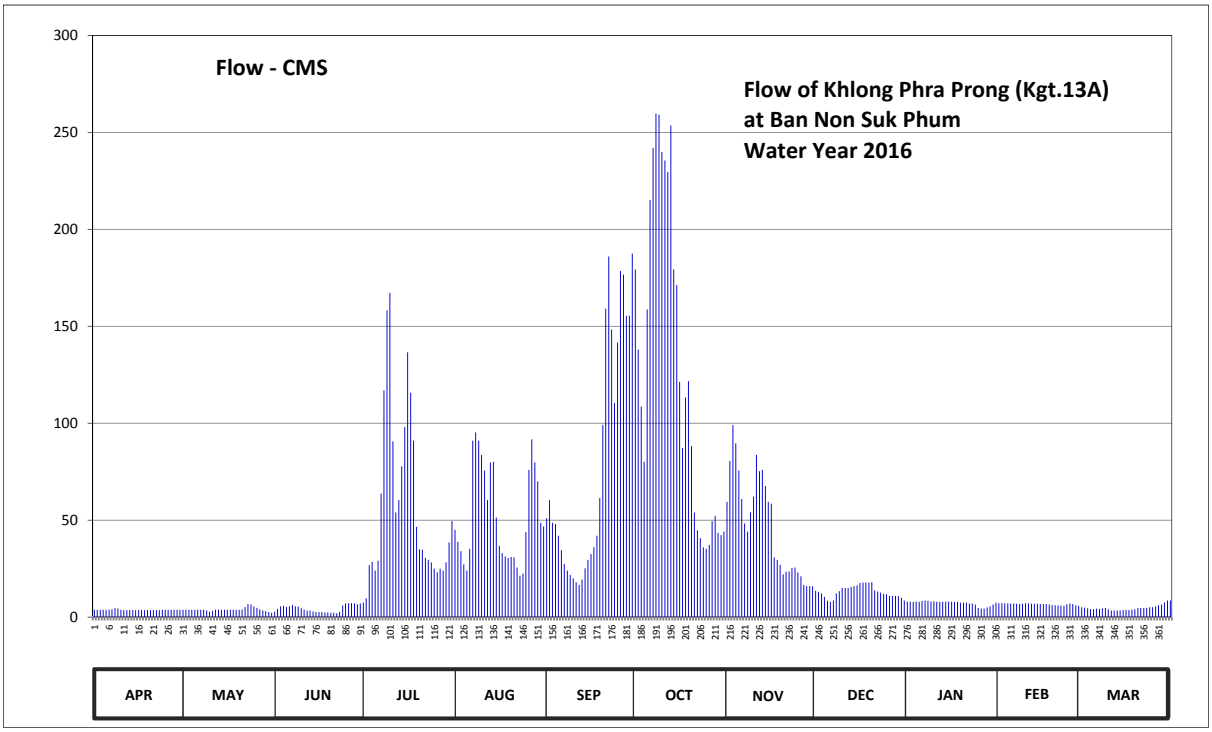
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.18	6.18	6.08	6.54	8.30	8.50	11.83	8.78	6.93	6.60	6.52	6.31	
2	6.18	6.18	6.22	6.71	8.07	8.81	10.91	9.40	6.90	6.59	6.52	6.28	
3	6.18	6.18	6.35	7.59	7.88	8.42	10.20	9.93	6.86	6.58	6.51	6.25	
4	6.18	6.18	6.38	7.66	7.61	8.40	9.39	9.66	6.76	6.60	6.51	6.21	
5	6.18	6.18	6.32	7.45	7.45	8.20	11.37	9.26	6.63	6.59	6.50	6.21	
6	6.18	6.18	6.35	7.68	7.93	7.90	12.55	8.83	6.58	6.62	6.50	6.24	
7	6.20	6.18	6.43	8.92	9.70	7.62	13.09	8.41	6.64	6.64	6.49	6.22	
8	6.26	6.18	6.36	10.41	9.82	7.45	13.43	8.27	6.86	6.63	6.48	6.25	
9	6.24	6.15	6.34	11.36	9.70	7.34	13.42	8.60	6.92	6.60	6.49	6.27	
10	6.18	6.08	6.25	11.56	9.49	7.25	13.05	8.87	7.00	6.61	6.52	6.20	
11	6.16	6.12	6.18	9.69	9.26	7.15	12.96	9.49	7.00	6.59	6.51	6.14	
12	6.16	6.18	6.14	8.60	8.81	7.08	12.84	9.25	7.00	6.59	6.49	6.14	
13	6.16	6.18	6.14	8.81	9.38	7.22	13.32	9.27	7.03	6.59	6.49	6.14	
14	6.16	6.18	6.10	9.32	9.39	7.51	11.83	9.03	7.05	6.60	6.49	6.15	
15	6.16	6.18	6.06	9.90	8.51	7.70	11.65	8.78	7.07	6.60	6.48	6.16	
16	6.16	6.18	6.06	10.88	7.99	7.82	10.52	8.75	7.13	6.59	6.48	6.17	
17	6.16	6.18	6.06	10.38	7.84	7.96	9.59	7.75	7.14	6.58	6.48	6.16	
18	6.16	6.18	6.04	9.70	7.77	8.20	10.32	7.70	7.14	6.58	6.45	6.18	
19	6.16	6.18	6.04	8.35	7.74	8.85	10.53	7.60	7.14	6.54	6.42	6.20	
20	6.16	6.18	6.02	7.92	7.76	9.93	9.62	7.35	7.15	6.55	6.41	6.27	
21	6.16	6.19	6.02	7.91	7.75	11.38	8.60	7.42	6.94	6.54	6.40	6.27	
22	6.16	6.32	5.99	7.74	7.53	11.97	8.29	7.43	6.91	6.50	6.39	6.28	
23	6.16	6.48	6.06	7.70	7.32	11.14	8.15	7.52	6.88	6.50	6.38	6.28	
24	6.18	6.45	6.40	7.65	7.37	10.25	7.96	7.53	6.85	6.45	6.46	6.31	
25	6.18	6.35	6.51	7.50	8.26	10.99	7.93	7.40	6.84	6.28	6.50	6.31	
26	6.18	6.28	6.52	7.41	9.27	11.81	8.01	7.30	6.80	6.24	6.48	6.35	
27	6.18	6.20	6.52	7.50	9.72	11.77	8.45	7.08	6.80	6.24	6.40	6.41	
28	6.18	6.15	6.51	7.45	9.38	11.30	8.54	7.05	6.80	6.30	6.38	6.44	
29	6.18	6.11	6.47	7.65	9.10	11.30	8.25	7.05	6.79	6.35		6.56	
30	6.18	6.06	6.50	8.06	8.42	12.00	8.21	7.04	6.73	6.45		6.64	
31		6.02		8.45	8.36		8.27		6.64	6.54		6.64	
Mean	6.18	6.19	6.25	8.53	8.48	9.11	10.42	8.26	6.90	6.52	6.47	6.28	
Max	6.26	6.48	6.52	11.56	9.82	12.00	13.43	9.93	7.15	6.64	6.52	6.64	13.43
Min	6.16	6.02	5.99	6.54	7.32	7.08	7.93	7.04	6.58	6.24	6.38	6.14	5.99

Annual Max Momentary Gage Height 13.45 m. (MSL.) , at 06.00 Hours, on Oct 9, 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 4.91 m. (MSL.)

Left Bank Elevation 18.16 m. (MSL.) ,

Right Bank Elevation 17.02 m. (MSL.) , Drainage Are 4,906 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	3.80	2.80	7.40	45.00	51.00	179.35	59.40	13.60	8.00	7.20	5.10	
2	3.80	3.80	4.20	9.65	38.75	60.30	137.95	80.50	13.00	7.90	7.20	4.80	
3	3.80	3.80	5.50	26.80	34.00	48.60	108.50	99.05	12.20	7.80	7.10	4.50	
4	3.80	3.80	5.80	28.50	27.25	48.00	80.15	89.60	10.40	8.00	7.10	4.10	
5	3.80	3.80	5.20	24.00	24.00	42.00	158.65	75.60	8.45	7.90	7.00	4.10	
6	3.80	3.80	5.50	29.00	35.25	34.50	215.00	60.90	7.80	8.30	7.00	4.40	
7	4.00	3.80	6.30	63.70	91.00	27.50	242.00	48.30	8.60	8.60	6.90	4.20	
8	4.60	3.80	5.60	116.90	95.20	24.00	259.65	44.10	12.20	8.45	6.80	4.50	
9	4.40	3.50	5.40	158.20	91.00	21.80	259.10	54.00	13.40	8.00	6.90	4.70	
10	3.80	2.80	4.50	167.20	83.65	20.00	240.00	62.10	15.00	8.15	7.20	4.00	
11	3.60	3.20	3.80	90.65	75.60	18.00	235.50	83.65	15.00	7.90	7.10	3.40	
12	3.60	3.80	3.40	54.00	60.30	16.60	229.50	75.25	15.00	7.90	6.90	3.40	
13	3.60	3.80	3.40	60.30	79.80	19.40	253.60	75.95	15.60	7.90	6.90	3.40	
14	3.60	3.80	3.00	77.70	80.15	25.20	179.35	67.55	16.00	8.00	6.90	3.50	
15	3.60	3.80	2.60	98.00	51.30	29.50	171.25	59.40	16.40	8.00	6.80	3.60	
16	3.60	3.80	2.60	136.60	36.75	32.50	121.30	58.50	17.60	7.90	6.80	3.70	
17	3.60	3.80	2.60	115.70	33.00	36.00	87.15	30.75	17.80	7.80	6.80	3.60	
18	3.60	3.80	2.40	91.00	31.25	42.00	113.30	29.50	17.80	7.80	6.50	3.80	
19	3.60	3.80	2.40	46.50	30.50	61.50	121.70	27.00	17.80	7.40	6.20	4.00	
20	3.60	3.80	2.20	35.00	31.00	99.05	88.20	22.00	18.00	7.50	6.10	4.70	
21	3.60	3.90	2.20	34.75	30.75	159.10	54.00	23.40	13.80	7.40	6.00	4.70	
22	3.60	5.20	1.95	30.50	25.60	186.00	44.70	23.60	13.20	7.00	5.90	4.80	
23	3.60	6.80	2.60	29.50	21.40	148.30	40.75	25.40	12.60	7.00	5.80	4.80	
24	3.80	6.50	6.00	28.25	22.40	110.50	36.00	25.60	12.00	6.50	6.60	5.10	
25	3.80	5.50	7.10	25.00	43.80	141.55	35.25	23.00	11.80	4.80	7.00	5.10	
26	3.80	4.80	7.20	23.20	75.95	178.45	37.25	21.00	11.00	4.40	6.80	5.50	
27	3.80	4.00	7.20	25.00	91.70	176.65	49.50	16.60	11.00	4.40	6.00	6.10	
28	3.80	3.50	7.10	24.00	79.80	155.50	52.20	16.00	11.00	5.00	5.80	6.40	
29	3.80	3.10	6.70	28.25	70.00	155.50	43.50	16.00	10.85	5.50		7.60	
30	3.80	2.60	7.00	38.50	48.60	187.50	42.30	15.80	9.95	6.50		8.60	
31		2.20		49.50	46.80		44.10		8.60	7.40		8.60	
Total	113.00	122.20	134.25	1773.25	1631.55	2356.50	3960.75	1409.50	407.45	225.10	187.30	148.80	12469.65 CMSDAY
Mean	3.77	3.94	4.47	57.20	52.63	78.55	127.77	46.98	13.14	7.26	6.69	4.80	34.16 CMS
Max	4.60	6.80	7.20	167.20	95.20	187.50	259.65	99.05	18.00	8.60	7.20	8.60	259.65 CMS
Min	3.60	2.20	1.95	7.40	21.40	16.60	35.25	15.80	7.80	4.40	5.80	3.40	1.95 CMS
Runoff	9.76	10.56	11.60	153.21	140.97	203.60	342.21	121.78	35.20	19.45	16.18	12.86	1077.38 MCM

Momentary Peak 260.75 CMS, at 13.45 m. (MSL.), at 06.00 Hours, on Oct 9, 2016

Runoff Yield 6.96 Liters/Second/Square KM. Momentary Peak Yield 53.150 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

Ban Thung Faek **Amphoe** Na Di **Changwat** Prachin Buri

Drainge Area	354 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+34.600 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** +42.429 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1966 - 1981 , 1986 to date
Rated by Flot	-
Rated by Current Meter	1966 - 1981 , 1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

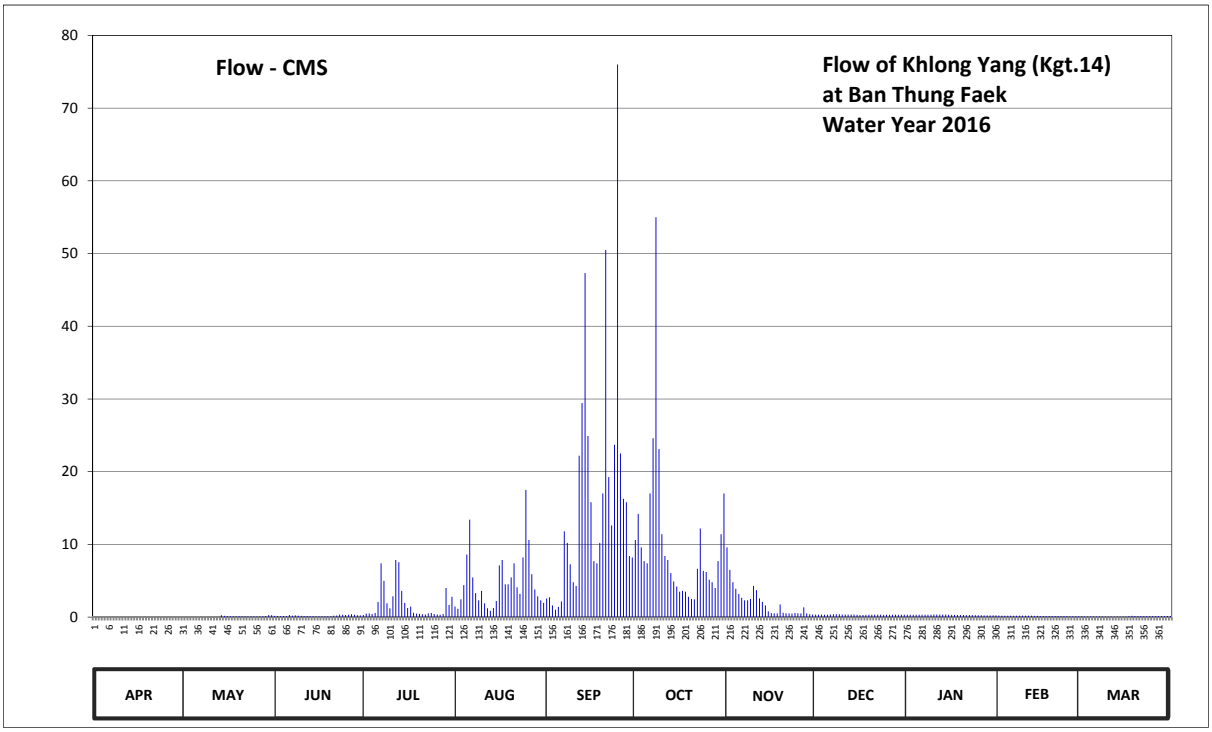
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.99	34.79	35.24	35.38	35.97	36.14	36.73	36.68	35.47	35.43	35.29	35.13	
2	34.99	34.78	35.20	35.64	35.91	36.16	36.91	36.50	35.44	35.43	35.26	35.12	
3	34.99	34.78	35.19	35.67	36.12	36.00	36.68	36.38	35.45	35.42	35.26	35.11	
4	35.00	34.77	35.20	35.57	36.34	35.88	36.58	36.29	35.44	35.42	35.26	35.11	
5	35.00	34.77	35.19	35.75	36.63	35.96	36.56	36.22	35.44	35.42	35.26	35.10	
6	35.00	34.76	35.38	36.07	36.87	36.08	37.04	36.15	35.47	35.43	35.27	35.10	
7	35.00	34.75	35.27	36.56	36.43	36.79	37.32	36.10	35.53	35.43	35.27	35.10	
8	34.99	34.75	35.33	36.40	36.23	36.71	38.10	36.10	35.53	35.43	35.27	35.10	
9	34.99	34.74	35.26	36.04	36.10	36.55	37.27	36.13	35.53	35.44	35.27	35.09	
10	34.99	34.74	35.22	35.92	36.26	36.38	36.77	36.33	35.48	35.45	35.26	35.09	
11	34.99	34.73	35.20	36.18	36.04	36.33	36.62	36.27	35.45	35.45	35.26	35.09	
12	34.99	34.75	35.20	36.59	35.92	37.24	36.59	36.14	35.46	35.45	35.25	35.09	
13	34.99	34.85	35.19	36.57	35.85	37.47	36.47	36.07	35.45	35.45	35.23	35.08	
14	34.99	35.36	35.17	36.26	35.93	37.94	36.39	36.00	35.45	35.45	35.22	35.08	
15	34.98	35.24	35.15	36.05	36.09	37.33	36.32	35.84	35.42	35.43	35.21	35.08	
16	34.96	35.18	35.13	35.93	36.54	36.99	36.25	35.72	35.37	35.41	35.21	35.09	
17	34.93	35.15	35.14	35.97	36.59	36.58	36.26	35.68	35.38	35.40	35.21	35.16	
18	34.91	35.13	35.13	35.80	36.35	36.56	36.25	35.68	35.41	35.39	35.21	35.23	
19	34.89	35.13	35.14	35.65	36.35	36.71	36.17	36.02	35.43	35.38	35.21	35.20	
20	34.87	35.14	35.15	35.59	36.43	37.04	36.13	35.78	35.43	35.37	35.20	35.18	
21	34.86	35.15	35.27	35.52	36.56	38.01	36.12	35.70	35.43	35.35	35.20	35.17	
22	34.85	35.13	35.28	35.47	36.31	37.13	36.51	35.67	35.42	35.38	35.19	35.18	
23	34.85	35.11	35.47	35.66	36.22	36.83	36.81	35.64	35.42	35.37	35.18	35.18	
24	34.84	35.10	35.44	35.76	36.61	37.29	36.49	35.74	35.41	35.36	35.16	35.16	
25	34.84	35.10	35.39	35.56	37.06	38.50	36.48	35.69	35.43	35.36	35.14	35.18	
26	34.83	35.11	35.44	35.46	36.73	37.25	36.41	35.68	35.43	35.35	35.14	35.17	
27	34.82	35.11	35.52	35.44	36.46	37.01	36.38	35.95	35.43	35.33	35.14	35.18	
28	34.80	35.15	35.44	35.55	36.28	36.99	36.30	35.68	35.43	35.33	35.14	35.18	
29	34.80	35.20	35.35	36.30	36.18	36.62	36.58	35.52	35.43	35.31		35.18	
30	34.80	35.38	35.30	36.01	36.10	36.61	36.77	35.47	35.43	35.30		35.20	
31		35.34		36.17	36.05		37.04		35.44	35.30		35.20	
Mean	34.92	35.01	35.27	35.89	36.31	36.84	36.62	35.96	35.44	35.39	35.22	35.14	
Max	35.00	35.38	35.52	36.59	37.06	38.50	38.10	36.68	35.53	35.45	35.29	35.23	38.50
Min	34.80	34.73	35.13	35.38	35.85	35.88	36.12	35.47	35.37	35.30	35.14	35.08	34.73

Annual Max Momentary Gage Height 38.93 m. (MSL.) , at 06.00 Hours, on Sep 25, 2016

Zero Gage at Bottom Elevation 34.60 m. (MSL.) , River Bed 33.07 m. (MSL.)

Left Bank Elevation 41.63 m. (MSL.) ,

Right Bank Elevation 41.58 m. (MSL.) , Drainage Are 354 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.18	0.29	1.45	2.58	10.60	9.60	0.35	0.32	0.22	0.10	
2	0.00	0.00	0.15	0.48	1.15	2.72	14.20	6.50	0.33	0.32	0.20	0.09	
3	0.00	0.00	0.14	0.50	2.44	1.60	9.60	4.80	0.34	0.32	0.20	0.08	
4	0.00	0.00	0.15	0.43	4.40	1.00	7.70	3.90	0.33	0.32	0.20	0.08	
5	0.00	0.00	0.14	0.56	8.60	1.40	7.40	3.20	0.33	0.32	0.20	0.08	
6	0.00	0.00	0.29	2.09	13.40	2.16	17.00	2.65	0.35	0.32	0.20	0.08	
7	0.00	0.00	0.20	7.40	5.45	11.80	24.60	2.30	0.40	0.32	0.20	0.08	
8	0.00	0.00	0.25	5.00	3.30	10.20	55.00	2.30	0.40	0.32	0.20	0.08	
9	0.00	0.00	0.20	1.88	2.30	7.25	23.10	2.51	0.40	0.33	0.20	0.07	
10	0.00	0.00	0.17	1.20	3.60	4.80	11.40	4.30	0.36	0.34	0.20	0.07	
11	0.00	0.00	0.15	2.86	1.88	4.30	8.40	3.70	0.34	0.34	0.20	0.07	
12	0.00	0.00	0.15	7.85	1.20	22.20	7.85	2.58	0.35	0.34	0.19	0.07	
13	0.00	0.00	0.14	7.55	0.85	29.45	6.05	2.09	0.34	0.34	0.17	0.06	
14	0.00	0.27	0.13	3.60	1.25	47.30	4.90	1.60	0.34	0.34	0.17	0.06	
15	0.00	0.18	0.11	1.95	2.23	24.90	4.20	0.80	0.32	0.32	0.16	0.06	
16	0.00	0.14	0.10	1.25	7.10	15.80	3.50	0.54	0.28	0.31	0.16	0.07	
17	0.00	0.11	0.11	1.45	7.85	7.70	3.60	0.51	0.29	0.30	0.16	0.12	
18	0.00	0.10	0.10	0.60	4.50	7.40	3.50	0.51	0.31	0.29	0.16	0.17	
19	0.00	0.10	0.11	0.49	4.50	10.20	2.79	1.74	0.32	0.29	0.16	0.15	
20	0.00	0.11	0.11	0.44	5.45	17.00	2.51	0.59	0.32	0.28	0.15	0.14	
21	0.00	0.11	0.20	0.39	7.40	50.50	2.44	0.53	0.32	0.26	0.15	0.13	
22	0.00	0.10	0.21	0.35	4.10	19.25	6.65	0.50	0.32	0.29	0.14	0.14	
23	0.00	0.08	0.35	0.50	3.20	12.60	12.20	0.48	0.32	0.28	0.14	0.14	
24	0.00	0.08	0.33	0.57	8.20	23.70	6.35	0.56	0.31	0.27	0.12	0.12	
25	0.00	0.08	0.29	0.42	17.50	76.00	6.20	0.52	0.32	0.27	0.11	0.14	
26	0.00	0.08	0.33	0.35	10.60	22.50	5.15	0.51	0.32	0.26	0.11	0.13	
27	0.00	0.08	0.39	0.33	5.90	16.25	4.80	1.35	0.32	0.25	0.11	0.14	
28	0.00	0.11	0.33	0.41	3.80	15.80	4.00	0.51	0.32	0.25	0.11	0.14	
29	0.00	0.15	0.26	4.00	2.86	8.40	7.70	0.39	0.32	0.23		0.14	
30	0.00	0.29	0.23	1.67	2.30	8.20	11.40	0.35	0.32	0.23		0.15	
31		0.26		2.79	1.95		17.00		0.33	0.23		0.15	
Total	0.00	2.43	6.00	59.65	150.71	484.96	311.79	62.42	10.32	9.20	4.69	3.30	1105.47 CMSDAY
Mean	0.00	0.08	0.20	1.92	4.86	16.17	10.06	2.08	0.33	0.30	0.17	0.11	3.03 CMS
Max	0.00	0.29	0.39	7.85	17.50	76.00	55.00	9.60	0.40	0.34	0.22	0.17	76.00 CMS
Min	0.00	0.00	0.10	0.29	0.85	1.00	2.44	0.35	0.28	0.23	0.11	0.06	0.00 CMS
Runoff	0.00	0.21	0.52	5.15	13.02	41.90	26.94	5.39	0.89	0.79	0.41	0.29	95.51 MCM

Momentary Peak 104.40 CMS, at 38.93 m. (MSL.), at 06.00 Hours, on Sep 25, 2016

Runoff Yield 8.56 Liters/Second/Square KM. Momentary Peak Yield 294.920 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Huai Samong at Ban Kaeng Din So , Prachin Buri (Kgt.15A)

Lat 14 - 03 - 47 N Long 101 - 55 - 39 E

Location : on right bank at Ban Kaeng Din So about 1 kilometer upstream from the Kgt.15 Station.

Ban Kaeng Din So **Amphoe** Na Di **Changwat** Prachin Buri

Drainge Area	548 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+12.800 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the station office and near the rain gage. **Elevation** +50.007 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1968 to date
Rating Operation	
Period of Rating	1968 to date
Rated by Flot	-
Rated by Current Meter	1968 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir.
	Stage-discharge relation defined by 11 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

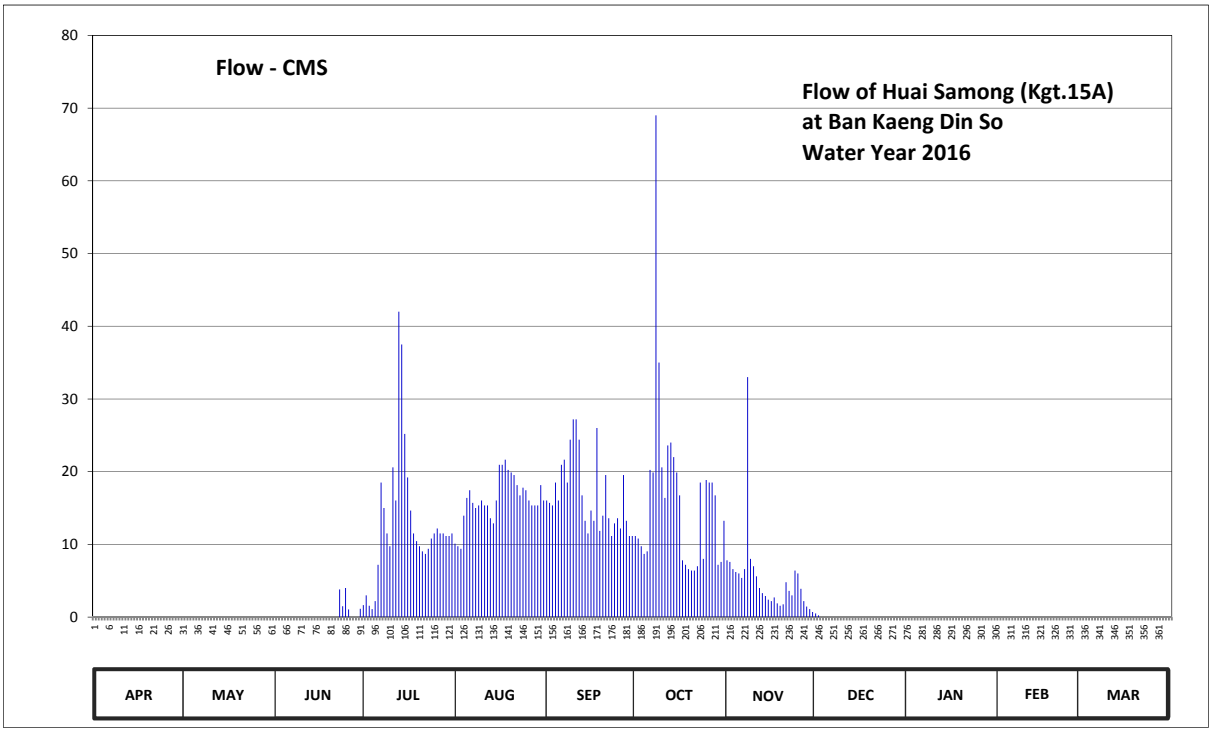
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.10	14.03	14.08	15.13	15.66	15.83	15.69	15.59	14.90	14.16	14.80	15.80	
2	14.12	14.03	14.09	15.30	15.65	15.82	15.68	15.58	14.85	14.16	14.80	15.80	
3	14.12	14.03	14.10	15.11	15.64	15.81	15.65	15.53	14.80	14.14	14.80	15.81	
4	14.12	14.03	14.12	15.02	15.77	15.90	15.62	15.51	14.77	14.12	14.80	15.81	
5	14.11	14.03	14.17	15.22	15.84	15.83	15.63	15.50	14.74	14.12	14.79	15.81	
6	14.11	14.02	14.33	15.56	15.87	15.97	15.95	15.47	14.72	14.10	14.80	15.81	
7	14.11	14.02	14.58	15.90	15.82	15.99	15.94	15.53	14.71	14.09	15.01	15.81	
8	14.10	14.02	14.64	15.80	15.80	15.90	17.40	16.26	14.68	14.11	15.38	15.81	
9	14.10	14.02	14.63	15.70	15.81	16.06	16.30	15.60	14.67	14.38	15.50	15.89	
10	14.10	14.02	14.59	15.65	15.83	16.13	15.96	15.55	14.68	14.65	15.57	16.00	
11	14.10	14.02	14.56	15.96	15.81	16.13	15.84	15.48	14.68	14.82	15.57	16.01	
12	14.09	14.01	14.51	15.83	15.81	16.06	16.04	15.40	14.68	14.86	15.57	16.00	
13	14.06	14.01	14.47	16.44	15.76	15.85	16.05	15.33	14.66	14.88	15.57	15.99	
14	14.04	14.04	14.44	16.35	15.74	15.75	16.00	15.29	14.66	14.88	15.56	15.99	
15	14.03	14.11	14.39	16.08	15.83	15.70	15.94	15.24	14.64	14.87	15.58	15.97	
16	14.02	14.14	14.36	15.92	15.97	15.79	15.85	15.22	14.61	14.87	15.60	15.95	
17	14.01	14.16	14.44	15.79	15.97	15.75	15.59	15.27	14.61	14.86	15.62	15.96	
18	14.01	14.16	14.54	15.70	15.99	16.10	15.56	15.18	14.60	14.86	15.65	15.94	
19	14.00	14.16	14.43	15.67	15.95	15.71	15.53	15.11	14.60	14.85	15.66	15.94	
20	13.99	14.15	14.44	15.65	15.94	15.77	15.52	15.15	14.58	14.85	15.66	15.94	
21	13.99	14.15	14.44	15.63	15.93	15.93	15.52	15.44	14.56	14.86	15.67	15.94	
22	13.98	14.14	14.56	15.62	15.89	15.76	15.55	15.36	14.54	14.87	15.68	15.94	
23	13.97	14.13	15.38	15.64	15.85	15.69	15.90	15.30	14.52	14.86	15.70	15.94	
24	13.96	14.12	15.10	15.68	15.88	15.74	15.60	15.52	14.49	14.86	15.71	15.94	
25	13.95	14.11	15.40	15.70	15.87	15.76	15.91	15.50	14.46	14.84	15.74	15.94	
26	13.95	14.10	15.01	15.72	15.83	15.72	15.90	15.39	14.42	14.83	15.76	15.94	
27	13.94	14.09	14.80	15.70	15.81	15.93	15.90	15.22	14.35	14.82	15.77	15.94	
28	13.94	14.08	14.65	15.70	15.81	15.75	15.85	15.09	14.30	14.82	15.81	15.94	
29	13.99	14.07	14.68	15.69	15.81	15.69	15.56	15.02	14.25	14.81		15.94	
30	14.02	14.06	15.03	15.69	15.89	15.69	15.58	14.94	14.22	14.81		15.94	
31		14.07		15.70	15.83		15.75		14.18	14.80		15.94	
Mean	14.04	14.08	14.57	15.69	15.83	15.85	15.83	15.39	14.58	14.64	15.43	15.92	
Max	14.12	14.16	15.40	16.44	15.99	16.13	17.40	16.26	14.90	14.88	15.81	16.01	17.40
Min	13.94	14.01	14.08	15.02	15.64	15.69	15.52	14.94	14.18	14.09	14.79	15.80	13.94

Annual Max Momentary Gage Height 17.90 m. (MSL.) , at 12.00 Hours, on Oct 8, 2016

Zero Gage at Bottom Elevation 12.80 m. (MSL.) , River Bed 12.99 m. (MSL.)

Left Bank Elevation 24.37 m. (MSL.) ,

Right Bank Elevation 22.24 m. (MSL.) , Drainage Are 548 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.65	10.10	16.05	11.15	7.80	0.50	0.00	0.00	0.00		
2	0.00	0.00	0.00	3.00	9.75	15.70	10.80	7.60	0.25	0.00	0.00	0.00		
3	0.00	0.00	0.00	1.55	9.40	15.35	9.75	6.60	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	1.10	13.95	18.50	8.70	6.20	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	2.20	16.40	16.05	9.05	6.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	7.20	17.45	20.95	20.25	5.40	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	18.50	15.70	21.65	19.90	6.60	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	15.00	15.00	18.50	69.00	33.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	11.50	15.35	24.40	35.00	8.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	9.75	16.05	27.20	20.60	7.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	20.60	15.35	27.20	16.40	5.60	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	16.05	15.35	24.40	23.60	4.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	42.00	13.60	16.75	24.00	3.30	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	37.50	12.90	13.25	22.00	2.90	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	25.20	16.05	11.50	19.90	2.40	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	19.20	20.95	14.65	16.75	2.20	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	14.65	20.95	13.25	7.80	2.70	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	11.50	21.65	26.00	7.20	1.90	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	10.45	20.25	11.85	6.60	1.55	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	9.75	19.90	13.95	6.40	1.75	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	9.05	19.55	19.55	6.40	4.80	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	8.70	18.15	13.60	7.00	3.60	0.00	0.00	0.00	0.00		
23	0.00	0.00	3.80	9.40	16.75	11.15	18.50	3.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	1.50	10.80	17.80	12.90	8.00	6.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	4.00	11.50	17.45	13.60	18.85	6.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	1.05	12.20	16.05	12.20	18.50	3.90	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	11.50	15.35	19.55	18.50	2.20	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	11.50	15.35	13.25	16.75	1.45	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	11.15	15.35	11.15	7.20	1.10	0.00	0.00		0.00		
30	0.00	0.00	1.15	11.15	18.15	11.15	7.60	0.70	0.00	0.00		0.00		
31		0.00		11.50	16.05		13.25		0.00	0.00		0.00		
Total	0.00	0.00	11.50	396.80	502.10	505.25	505.40	155.65	0.75	0.00	0.00	0.00	2077.45	CMSDAY
Mean	0.00	0.00	0.38	12.80	16.20	16.84	16.30	5.19	0.02	0.00	0.00	0.00	5.69	CMS
Max	0.00	0.00	4.00	42.00	21.65	27.20	69.00	33.00	0.50	0.00	0.00	0.00	69.00	CMS
Min	0.00	0.00	0.00	1.10	9.40	11.15	6.40	0.70	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.99	34.28	43.38	43.65	43.67	13.45	0.06	0.00	0.00	0.00	179.49	MCM

Momentary Peak 89.00 CMS, at 17.90 m. (MSL.), at 12.00 Hours, on Oct 8, 2016

Runoff Yield 10.39 Liters/Second/Square KM. Momentary Peak Yield 162.410 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khwae Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

Lat 14 - 07 - 55 N Long 101 - 43 - 52 E

Location : on left bank at Ban Saphan Hin.

	Ban Saphan Hin	**Amphoe** Na Di	**Changwat** Prachin Buri
Drainge Area	617 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+3.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+14.019 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

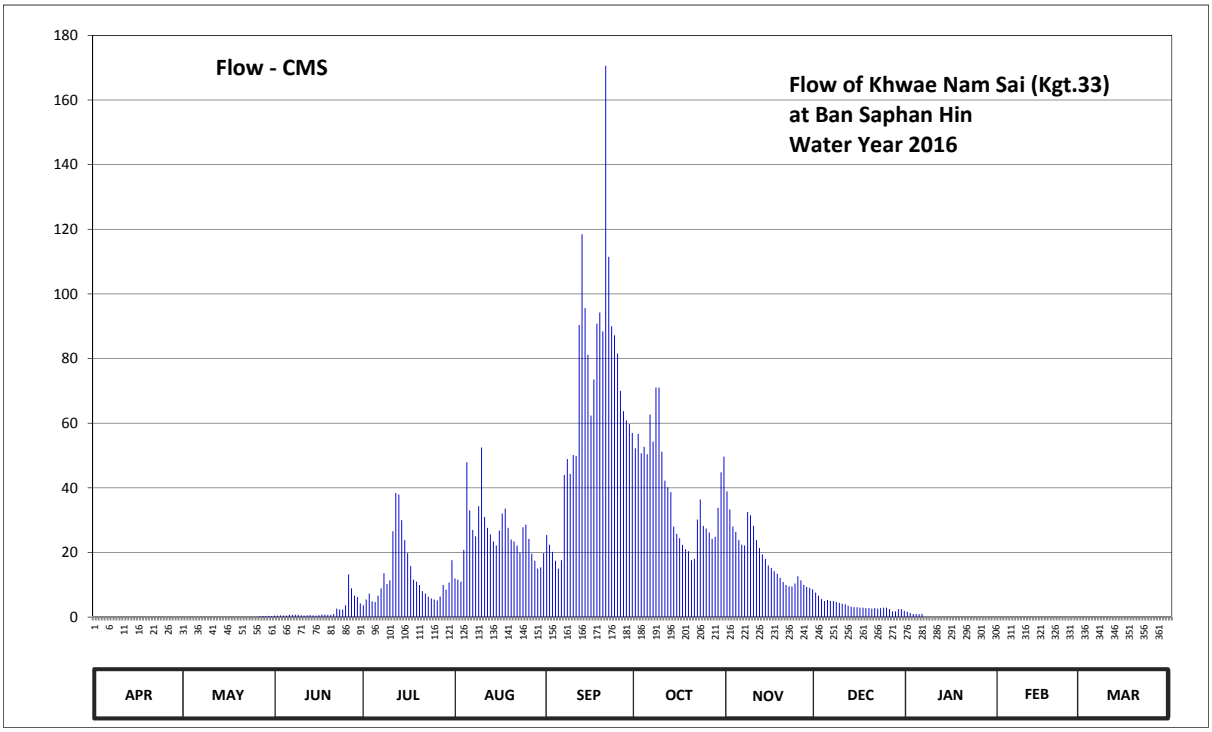
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	3.99	4.19	4.61	5.15	5.82	6.93	6.41	4.87	4.47	4.66	4.78	
2	4.00	3.98	4.18	4.73	5.13	5.67	7.09	6.19	4.81	4.43	4.72	4.80	
3	4.00	3.98	4.21	4.85	5.10	5.56	6.87	5.95	4.74	4.38	4.78	4.82	
4	4.00	3.98	4.20	4.69	5.59	5.42	6.95	5.87	4.70	4.37	4.86	4.83	
5	4.00	3.98	4.20	4.68	6.76	5.30	6.86	5.74	4.72	4.36	4.90	4.82	
6	3.99	3.97	4.29	4.81	6.18	5.43	7.29	5.67	4.70	4.39	4.90	4.81	
7	3.99	3.97	4.27	4.96	5.90	6.61	7.01	5.66	4.70	4.42	4.89	4.79	
8	3.99	3.96	4.29	5.23	5.80	6.80	7.53	6.16	4.68	4.41	4.87	4.77	
9	3.99	3.96	4.27	5.05	6.23	6.62	7.53	6.12	4.66	4.34	4.83	4.75	
10	3.99	3.95	4.22	5.12	6.94	6.85	6.89	5.96	4.64	4.42	4.82	4.74	
11	4.00	3.95	4.19	5.88	6.10	6.84	6.54	5.74	4.63	4.71	4.83	4.74	
12	4.00	3.95	4.24	6.39	5.93	8.06	6.46	5.62	4.60	4.81	4.85	4.71	
13	4.00	3.96	4.25	6.37	5.83	8.67	6.40	5.52	4.58	4.83	4.85	4.66	
14	4.00	3.96	4.22	6.05	5.72	8.18	5.95	5.45	4.57	4.80	4.82	4.62	
15	4.00	3.97	4.20	5.74	5.66	7.82	5.84	5.35	4.57	4.81	4.82	4.59	
16	4.00	3.97	4.24	5.54	5.89	7.28	5.77	5.31	4.56	4.79	4.83	4.59	
17	4.00	3.98	4.31	5.34	6.14	7.60	5.67	5.26	4.56	4.78	4.82	4.58	
18	4.00	3.98	4.34	5.13	6.20	8.07	5.60	5.22	4.55	4.77	4.82	4.58	
19	4.00	3.99	4.28	5.10	5.93	8.15	5.57	5.16	4.55	4.76	4.84	4.60	
20	4.00	4.00	4.28	5.03	5.75	8.01	5.43	5.09	4.54	4.75	4.82	4.63	
21	4.00	4.00	4.38	4.90	5.72	9.63	5.45	5.03	4.55	4.74	4.80	4.65	
22	4.00	4.00	4.54	4.85	5.66	8.53	6.06	5.00	4.54	4.72	4.76	4.68	
23	4.00	4.00	4.52	4.79	5.55	8.05	6.31	5.00	4.55	4.71	4.76	4.71	
24	3.99	4.02	4.52	4.75	5.94	7.98	5.96	5.06	4.56	4.73	4.80	4.75	
25	3.99	4.03	4.61	4.73	5.98	7.83	5.92	5.18	4.56	4.75	4.79	4.73	
26	3.99	4.05	5.21	4.71	5.76	7.50	5.86	5.12	4.53	4.74	4.79	4.72	
27	3.99	4.11	4.96	4.79	5.53	7.32	5.76	5.03	4.48	4.72	4.82	4.72	
28	3.99	4.14	4.81	5.03	5.42	7.23	5.79	4.99	4.48	4.70	4.82	4.75	
29	3.99	4.14	4.78	4.93	5.30	7.19	6.21	4.97	4.53	4.69		4.74	
30	3.99	4.15	4.65	5.08	5.32	7.10	6.64	4.94	4.53	4.67		4.75	
31		4.14		5.43	5.54		6.83		4.50	4.66		4.75	
Mean	4.00	4.01	4.39	5.14	5.80	7.24	6.35	5.46	4.60	4.63	4.82	4.71	
Max	4.00	4.15	5.21	6.39	6.94	9.63	7.53	6.41	4.87	4.83	4.90	4.83	9.63
Min	3.99	3.95	4.18	4.61	5.10	5.30	5.43	4.94	4.48	4.34	4.66	4.58	3.95

Annual Max Momentary Gage Height 10.10 m. (MSL.), at 06.00 Hours, on Sep 21, 2016

Zero Gage at Bottom Elevation 3.40 m. (MSL.), River Bed 3.22 m. (MSL.)

Left Bank Elevation 12.87 m. (MSL.),

Right Bank Elevation 13.99 m. (MSL.), Drainage Are 617 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.47	3.65	12.00	25.40	52.21	38.92	7.55	1.70	0.00	0.00		
2	0.00	0.00	0.45	5.45	11.60	22.40	56.70	33.30	6.65	1.30	0.00	0.00		
3	0.00	0.00	0.52	7.25	11.00	20.20	50.68	28.00	5.60	0.95	0.00	0.00		
4	0.00	0.00	0.50	4.85	20.80	17.40	52.72	26.40	5.00	0.92	0.00	0.00		
5	0.00	0.00	0.50	4.70	47.87	15.00	50.42	23.80	5.30	0.90	0.00	0.00		
6	0.00	0.00	0.72	6.65	33.04	17.60	62.70	22.40	5.00	0.97	0.00	0.00		
7	0.00	0.00	0.67	8.90	27.00	44.03	54.30	22.20	5.00	0.00	0.00	0.00		
8	0.00	0.00	0.72	13.60	25.00	48.89	71.05	32.53	4.70	0.00	0.00	0.00		
9	0.00	0.00	0.67	10.25	34.32	44.29	71.05	31.51	4.40	0.00	0.00	0.00		
10	0.00	0.00	0.55	11.40	52.47	50.17	51.19	28.20	4.10	0.00	0.00	0.00		
11	0.00	0.00	0.47	26.60	31.00	49.91	42.24	23.80	3.95	0.00	0.00	0.00		
12	0.00	0.00	0.60	38.41	27.60	90.40	40.20	21.40	3.50	0.00	0.00	0.00		
13	0.00	0.00	0.62	37.90	25.60	118.50	38.67	19.40	3.20	0.00	0.00	0.00		
14	0.00	0.00	0.55	30.00	23.40	95.60	28.00	18.00	3.05	0.00	0.00	0.00		
15	0.00	0.00	0.50	23.80	22.20	81.20	25.80	16.00	3.05	0.00	0.00	0.00		
16	0.00	0.00	0.60	19.80	26.80	62.40	24.40	15.20	2.90	0.00	0.00	0.00		
17	0.00	0.00	0.77	15.80	32.02	73.50	22.40	14.20	2.90	0.00	0.00	0.00		
18	0.00	0.00	0.85	11.60	33.56	90.80	21.00	13.40	2.75	0.00	0.00	0.00		
19	0.00	0.00	0.70	11.00	27.60	94.25	20.40	12.20	2.75	0.00	0.00	0.00		
20	0.00	0.00	0.70	9.95	24.00	88.40	17.60	10.85	2.60	0.00	0.00	0.00		
21	0.00	0.00	0.95	8.00	23.40	170.62	18.00	9.95	2.75	0.00	0.00	0.00		
22	0.00	0.00	2.60	7.25	22.20	111.50	30.20	9.50	2.60	0.00	0.00	0.00		
23	0.00	0.00	2.30	6.35	20.00	90.00	36.37	9.50	2.75	0.00	0.00	0.00		
24	0.00	0.05	2.30	5.75	27.80	87.20	28.20	10.40	2.90	0.00	0.00	0.00		
25	0.00	0.07	3.65	5.45	28.60	81.55	27.40	12.60	2.90	0.00	0.00	0.00		
26	0.00	0.12	13.20	5.15	24.20	70.00	26.20	11.40	2.45	0.00	0.00	0.00		
27	0.00	0.27	8.90	6.35	19.60	63.70	24.20	9.95	1.80	0.00	0.00	0.00		
28	0.00	0.35	6.65	9.95	17.40	60.90	24.80	9.35	1.80	0.00	0.00	0.00		
29	0.00	0.35	6.20	8.45	15.00	59.70	33.81	9.05	2.45	0.00		0.00		
30	0.00	0.37	4.25	10.70	15.40	57.00	44.80	8.60	2.45	0.00		0.00		
31		0.35		17.60	19.80		49.66		2.00	0.00		0.00		
Total	0.00	1.93	63.13	392.56	782.28	2002.51	1197.37	552.01	110.80	6.74	0.00	0.00	5109.33	CMSDAY
Mean	0.00	0.06	2.10	12.66	25.23	66.75	38.62	18.40	3.57	0.22	0.00	0.00	14.00	CMS
Max	0.00	0.37	13.20	38.41	52.47	170.62	71.05	38.92	7.55	1.70	0.00	0.00	170.62	CMS
Min	0.00	0.00	0.45	3.65	11.00	15.00	17.60	8.60	1.80	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.17	5.45	33.92	67.59	173.02	103.45	47.69	9.57	0.58	0.00	0.00	441.45	MCM

Momentary Peak 200.00 CMS, at 10.10 m. (MSL.), at 06.00 Hours, on Sep 21, 2016

Runoff Yield 22.69 Liters/Second/Square KM. Momentary Peak Yield 324.150 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Wang Man , Prachin Buri (Kgt.34)

Lat 13 - 28 - 29 N Long 101 - 44 - 55 E

Location : on left bank at the bridge.

Ban Wang Man **Amphoe** Na Di **Changwat** Prachin Buri

Drainge Area	1,210 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+3.560 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +12.474 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Flot	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

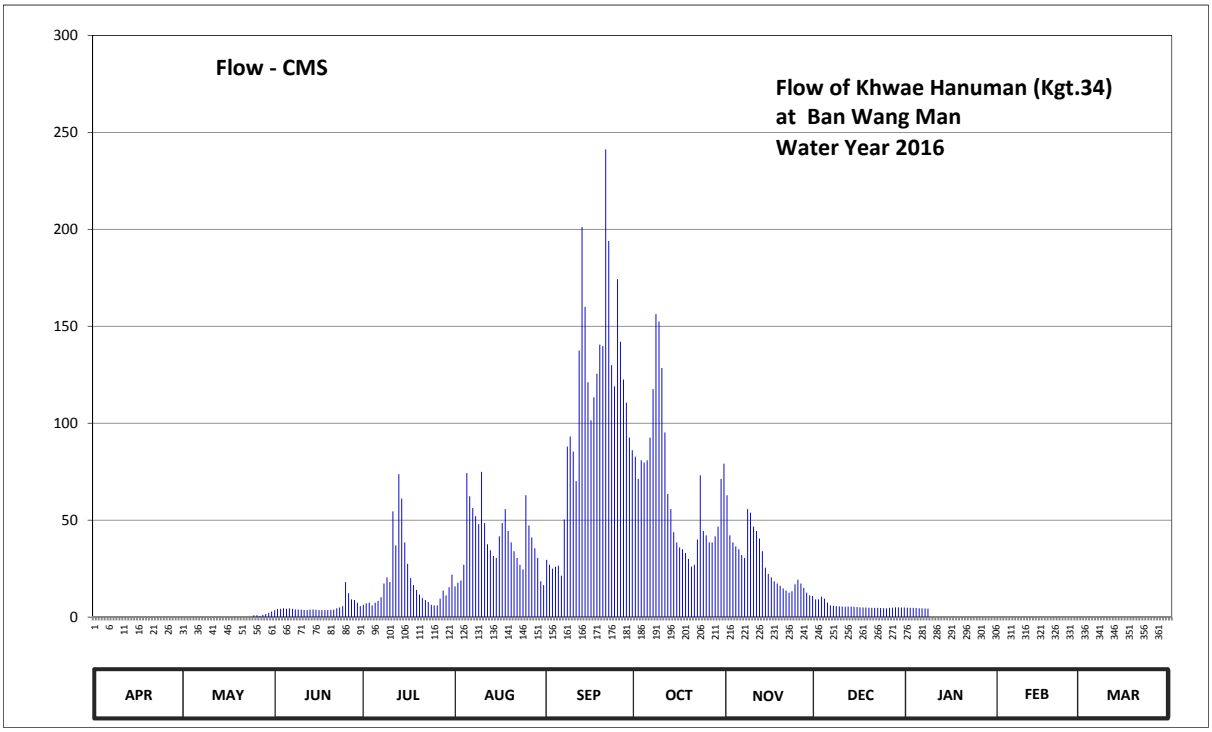
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.92	3.62	4.59	5.01	5.28	5.59	6.52	6.19	5.09	4.81	5.20	5.31	
2	3.92	3.61	4.68	5.03	5.33	5.54	6.33	5.84	5.09	4.80	5.24	5.30	
3	3.92	3.60	4.72	5.04	5.36	5.50	6.49	5.77	5.13	4.79	5.27	5.29	
4	3.91	3.59	4.75	5.00	5.54	5.52	6.47	5.73	5.10	4.78	5.29	5.30	
5	3.89	3.58	4.72	5.04	6.38	5.53	6.49	5.70	5.04	4.76	5.32	5.29	
6	3.89	3.57	4.75	5.07	6.18	5.42	6.67	5.64	5.00	4.75	5.38	5.28	
7	3.87	3.56	4.71	5.12	6.08	5.98	7.03	5.61	4.97	4.74	5.41	5.29	
8	3.84	3.56	4.66	5.32	6.01	6.60	7.55	6.07	4.95	4.73	5.42	5.28	
9	3.82	3.56	4.65	5.40	5.94	6.68	7.50	6.04	4.92	4.76	5.41	5.28	
10	3.81	3.56	4.64	5.34	6.39	6.56	7.18	5.92	4.90	4.88	5.39	5.28	
11	3.80	3.56	4.62	6.05	5.95	6.31	6.71	5.88	4.89	4.93	5.39	5.28	
12	3.78	3.56	4.61	5.74	5.75	7.30	6.20	5.81	4.90	5.00	5.37	5.26	
13	3.76	3.56	4.64	6.37	5.69	8.14	6.07	5.68	4.91	5.11	5.35	5.21	
14	3.74	3.56	4.66	6.16	5.63	7.60	5.87	5.51	4.88	5.24	5.33	5.15	
15	3.71	3.56	4.63	5.77	5.61	7.18	5.77	5.44	4.86	5.32	5.31	5.11	
16	3.66	3.56	4.60	5.55	5.83	6.80	5.72	5.40	4.84	5.31	5.32	5.12	
17	3.65	3.56	4.59	5.39	5.95	6.97	5.70	5.35	4.83	5.30	5.31	5.13	
18	3.64	3.56	4.60	5.30	6.07	7.14	5.66	5.32	4.82	5.28	5.30	5.14	
19	3.64	3.56	4.60	5.23	5.88	7.34	5.60	5.29	4.81	5.27	5.31	5.18	
20	3.65	3.56	4.62	5.16	5.77	7.33	5.52	5.25	4.80	5.26	5.32	5.21	
21	3.65	3.63	4.64	5.11	5.68	8.62	5.54	5.22	4.79	5.25	5.30	5.23	
22	3.65	3.73	4.75	5.08	5.61	8.05	5.80	5.19	4.79	5.23	5.29	5.25	
23	3.65	3.86	4.82	5.05	5.54	7.20	6.36	5.21	4.78	5.21	5.29	5.26	
24	3.64	4.03	4.88	5.01	5.49	7.17	5.88	5.31	4.77	5.21	5.30	5.27	
25	3.64	4.17	5.27	5.00	6.19	7.79	5.84	5.37	4.76	5.20	5.31	5.28	
26	3.64	4.17	5.14	5.00	5.93	7.36	5.77	5.32	4.79	5.20	5.30	5.29	
27	3.64	4.10	5.09	5.10	5.82	7.10	5.77	5.26	4.81	5.21	5.31	5.36	
28	3.64	4.19	5.08	5.22	5.71	6.93	5.83	5.19	4.84	5.21	5.32	5.83	
29	3.63	4.26	5.04	5.15	5.61	6.67	5.92	5.15	4.84	5.20		5.78	
30	3.63	4.36	4.95	5.27	5.35	6.57	6.33	5.14	4.83	5.19		5.78	
31		4.48		5.43	5.30		6.46		4.82	5.18		5.76	
Mean	3.74	3.75	4.76	5.31	5.77	6.82	6.21	5.53	4.89	5.07	5.32	5.32	
Max	3.92	4.48	5.27	6.37	6.39	8.62	7.55	6.19	5.13	5.32	5.42	5.83	8.62
Min	3.63	3.56	4.59	5.00	5.28	5.42	5.52	5.14	4.76	4.73	5.20	5.11	3.56

Annual Max Momentary Gage Height 8.81 m. (MSL.) , at 12.00 Hours, on Sep 21, 2016

Zero Gage at Bottom Elevation 3.56 m. (MSL.) , River Bed 1.30 m. (MSL.)

Left Bank Elevation 11.44 m. (MSL.) ,

Right Bank Elevation 11.36 m. (MSL.) , Drainage Are 1,210 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.54	6.35	15.80	29.50	82.80	62.90	9.15	4.86	0.00	0.00		
2	0.00	0.00	4.08	7.05	17.70	27.00	71.30	42.20	9.15	4.80	0.00	0.00		
3	0.00	0.00	4.32	7.40	18.90	25.00	80.90	38.50	10.55	4.74	0.00	0.00		
4	0.00	0.00	4.50	6.00	27.00	26.00	79.70	36.50	9.50	4.68	0.00	0.00		
5	0.00	0.00	4.32	7.40	74.30	26.50	80.90	35.00	7.40	4.56	0.00	0.00		
6	0.00	0.00	4.50	8.45	62.30	21.40	92.55	32.00	6.00	4.50	0.00	0.00		
7	0.00	0.00	4.26	10.20	56.30	50.30	117.60	30.50	5.82	4.44	0.00	0.00		
8	0.00	0.00	3.96	17.30	52.10	88.00	156.25	55.70	5.70	4.38	0.00	0.00		
9	0.00	0.00	3.90	20.50	47.90	93.20	152.50	53.90	5.52	0.00	0.00	0.00		
10	0.00	0.00	3.84	18.10	74.90	85.40	128.50	46.70	5.40	0.00	0.00	0.00		
11	0.00	0.00	3.72	54.50	48.50	70.10	95.20	44.40	5.34	0.00	0.00	0.00		
12	0.00	0.00	3.66	37.00	37.50	137.50	63.50	40.55	5.40	0.00	0.00	0.00		
13	0.00	0.00	3.84	73.70	34.50	201.20	55.70	34.00	5.46	0.00	0.00	0.00		
14	0.00	0.00	3.96	61.10	31.50	160.00	43.85	25.50	5.28	0.00	0.00	0.00		
15	0.00	0.00	3.78	38.50	30.50	121.10	38.50	22.30	5.16	0.00	0.00	0.00		
16	0.00	0.00	3.60	27.50	41.65	101.50	36.00	20.50	5.04	0.00	0.00	0.00		
17	0.00	0.00	3.54	20.10	48.50	113.40	35.00	18.50	4.98	0.00	0.00	0.00		
18	0.00	0.00	3.60	16.50	55.70	125.50	33.00	17.30	4.92	0.00	0.00	0.00		
19	0.00	0.00	3.60	14.05	44.40	140.50	30.00	16.15	4.86	0.00	0.00	0.00		
20	0.00	0.00	3.72	11.60	38.50	139.75	26.00	14.75	4.80	0.00	0.00	0.00		
21	0.00	0.00	3.84	9.85	34.00	241.20	27.00	13.70	4.74	0.00	0.00	0.00		
22	0.00	0.00	4.50	8.80	30.50	194.00	40.00	12.65	4.74	0.00	0.00	0.00		
23	0.00	0.00	4.92	7.75	27.00	130.00	73.10	13.35	4.68	0.00	0.00	0.00		
24	0.00	0.18	5.58	6.35	24.55	119.00	44.40	16.90	4.62	0.00	0.00	0.00		
25	0.00	1.02	18.10	6.00	62.90	174.25	42.20	19.30	4.56	0.00	0.00	0.00		
26	0.00	1.02	12.30	6.00	47.30	142.00	38.50	17.30	4.74	0.00	0.00	0.00		
27	0.00	0.60	9.15	9.50	41.10	122.50	38.50	15.10	4.86	0.00	0.00	0.00		
28	0.00	1.14	8.80	13.70	35.50	110.60	41.65	12.65	5.04	0.00	0.00	0.00		
29	0.00	1.56	7.40	11.25	30.50	92.55	46.70	11.25	5.04	0.00		0.00		
30	0.00	2.16	5.70	15.45	18.50	86.05	71.30	10.90	4.98	0.00		0.00		
31		2.88		21.85	16.50		79.10		4.92	0.00		0.00		
Total	0.00	10.56	158.53	579.80	1226.80	3195.00	2042.20	830.95	178.35	36.96	0.00	0.00	8259.15	CMSDAY
Mean	0.00	0.34	5.28	18.70	39.57	106.50	65.88	27.70	5.75	1.19	0.00	0.00	22.63	CMS
Max	0.00	2.88	18.10	73.70	74.90	241.20	156.25	62.90	10.55	4.86	0.00	0.00	241.20	CMS
Min	0.00	0.00	3.54	6.00	15.80	21.40	26.00	10.90	4.56	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.91	13.70	50.09	106.00	276.05	176.45	71.79	15.41	3.19	0.00	0.00	713.59	MCM

Momentary Peak 257.90 CMS, at 8.81 m. (MSL.), at 12.00 Hours, on Sep 21, 2016

Runoff Yield 18.70 Liters/Second/Square KM. Momentary Peak Yield 213.140 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Phloeng Yai at Ban Phu Ngoen , Sa Kaeo (Kgt.38)

Lat 13 - 36 - 03 N Long 102 - 02 - 07 E

Location : on left bank at the bridge.

	Ban Phu Ngoen	**Amphoe** Khao Chakan	**Changwat** Sa Kaeo
Drainge Area	289 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+9.483 m. (A.D.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (A.D.) Water Year April 1, 2016 to March 31, 2017

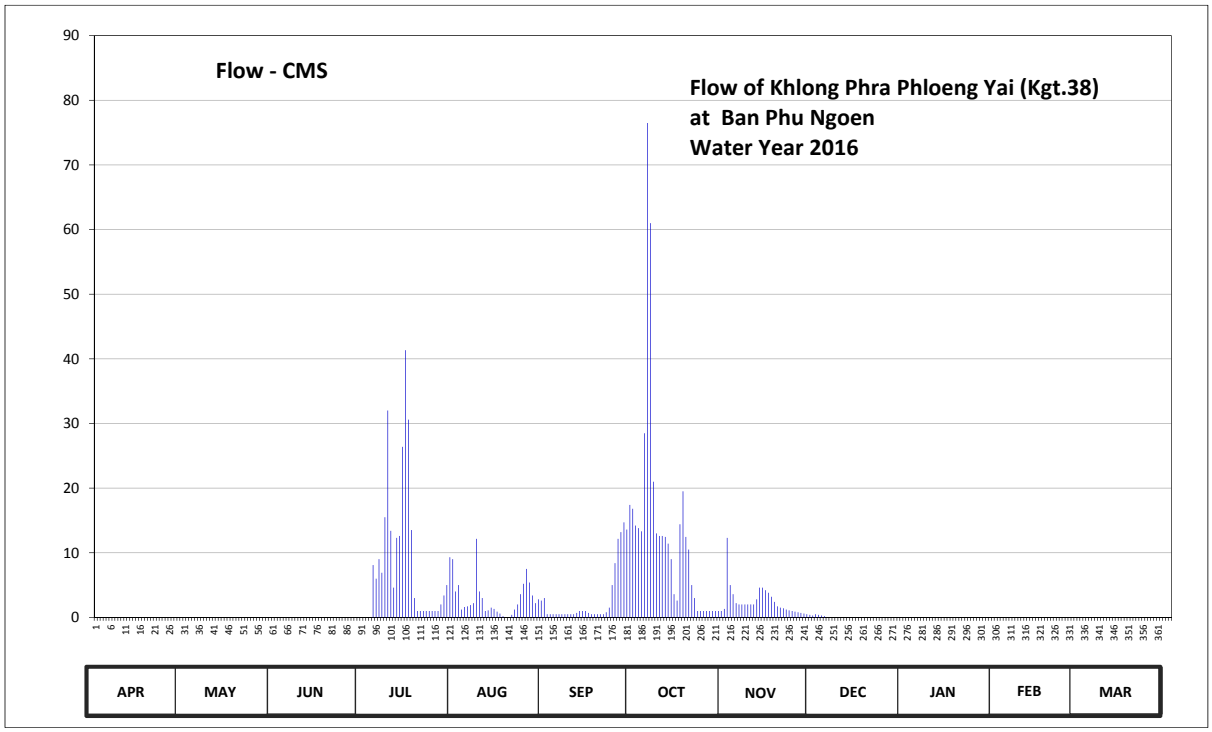
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.73	2.00	1.75	2.87	2.40	1.75	1.64	1.55	1.29	
2	0.00	0.00	0.00	1.05	2.05	1.75	2.80	2.05	1.74	1.64	1.55	1.28	
3	0.00	0.00	0.00	1.17	1.82	1.75	2.68	1.98	1.73	1.63	1.55	1.28	
4	0.00	0.00	0.00	2.17	1.86	1.75	3.70	1.91	1.72	1.63	1.53	1.27	
5	0.00	0.00	0.00	2.10	1.87	1.75	4.60	1.90	1.70	1.62	1.51	1.26	
6	0.00	0.00	0.00	2.20	1.89	1.75	4.40	1.90	1.68	1.62	1.50	1.24	
7	0.00	0.00	0.00	2.13	1.91	1.75	3.42	1.90	1.67	1.61	1.50	1.22	
8	0.00	0.00	0.00	3.05	2.35	1.75	2.60	1.90	1.66	1.60	1.49	1.20	
9	0.00	0.00	0.00	3.80	2.00	1.75	2.50	1.90	1.65	1.60	1.48	1.18	
10	0.00	0.00	0.00	2.70	1.95	1.75	2.50	1.90	1.64	1.60	1.47	1.16	
11	0.00	0.00	0.00	2.03	1.80	1.77	2.45	1.94	1.63	1.60	1.44	1.14	
12	0.00	0.00	0.00	2.40	1.81	1.80	2.28	2.03	1.63	1.60	1.42	1.13	
13	0.00	0.00	0.10	2.50	1.85	1.80	2.20	2.03	1.63	1.60	1.40	1.11	
14	0.00	0.00	0.30	3.63	1.83	1.80	1.98	2.01	1.63	1.59	1.40	1.10	
15	0.00	0.00	0.50	4.03	1.79	1.77	1.93	1.99	1.64	1.59	1.40	1.08	
16	0.00	0.00	0.62	3.76	1.76	1.75	2.90	1.96	1.64	1.59	1.40	1.06	
17	0.00	0.00	0.70	2.73	1.72	1.75	3.36	1.92	1.64	1.59	1.38	1.04	
18	0.00	0.00	0.70	1.95	1.70	1.75	2.45	1.87	1.64	1.59	1.38	1.02	
19	0.00	0.00	0.70	1.80	1.70	1.75	2.25	1.85	1.64	1.58	1.37	1.00	
20	0.00	0.00	0.70	1.80	1.74	1.75	2.05	1.84	1.64	1.58	1.36	0.98	
21	0.00	0.00	0.70	1.80	1.82	1.78	1.95	1.82	1.64	1.57	1.35	0.96	
22	0.00	0.00	0.70	1.80	1.90	1.85	1.80	1.81	1.64	1.57	1.34	0.94	
23	0.00	0.00	0.70	1.80	1.98	2.05	1.80	1.80	1.64	1.56	1.33	0.92	
24	0.00	0.00	0.70	1.80	2.06	2.18	1.80	1.79	1.64	1.56	1.32	0.91	
25	0.00	0.00	0.70	1.80	2.15	2.35	1.80	1.78	1.65	1.55	1.31	0.90	
26	0.00	0.00	0.70	1.80	2.07	2.65	1.80	1.77	1.65	1.55	1.30	0.90	
27	0.00	0.00	0.70	1.90	1.97	2.95	1.80	1.76	1.65	1.55	1.30	0.90	
28	0.00	0.00	0.70	1.97	1.91	2.75	1.80	1.75	1.65	1.55	1.29	0.90	
29	0.00	0.00	0.70	2.05	1.94	3.24	1.80	1.74	1.65	1.55		0.90	
30	0.00	0.00	0.70	2.21	1.93	3.18	1.80	1.73	1.65	1.55		0.90	
31		0.00		2.20	1.95		1.83		1.64	1.55		0.90	
Mean	0.00	0.00	0.38	2.22	1.91	2.01	2.45	1.90	1.66	1.59	1.41	1.07	
Max	0.00	0.00	0.70	4.03	2.35	3.24	4.60	2.40	1.75	1.64	1.55	1.29	4.60
Min	0.00	0.00	0.00	0.73	1.70	1.75	1.80	1.73	1.63	1.55	1.29	0.90	0.00

Annual Max Momentary Gage Height 4.70 m. (A.D.) , at 18.00 Hours, on Oct 5, 2016

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.08 m. (A.D.) ,

Left Bank Elevation 8.33 m. (A.D.) ,

Right Bank Elevation 7.66 m. (A.D.) , Drainage Are 289 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	4.00	0.50	14.22	12.30	0.50	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	5.00	0.50	13.80	5.00	0.40	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	1.20	0.50	13.32	3.60	0.30	0.00	0.00	0.00	
4	0.00	0.00	0.00	8.10	1.60	0.50	28.50	2.20	0.20	0.00	0.00	0.00	
5	0.00	0.00	0.00	6.00	1.70	0.50	76.50	2.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	9.00	1.90	0.50	61.00	2.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	6.90	2.20	0.50	21.00	2.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	15.50	12.15	0.50	13.00	2.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	32.00	4.00	0.50	12.60	2.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	13.40	3.00	0.50	12.60	2.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	4.60	1.00	0.70	12.45	2.80	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	12.30	1.10	1.00	11.40	4.60	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	12.60	1.50	1.00	9.00	4.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	26.40	1.30	1.00	3.60	4.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	41.35	0.90	0.70	2.60	3.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	30.60	0.60	0.50	14.40	3.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	13.52	0.20	0.50	19.50	2.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	3.00	0.00	0.50	12.45	1.70	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	1.00	0.00	0.50	10.50	1.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	1.00	0.40	0.50	5.00	1.40	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	1.00	1.20	0.80	3.00	1.20	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	1.00	2.00	1.50	1.00	1.10	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.00	3.60	5.00	1.00	1.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	1.00	5.20	8.40	1.00	0.90	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.00	7.50	12.15	1.00	0.80	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.00	5.40	13.20	1.00	0.70	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	2.00	3.40	14.70	1.00	0.60	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	3.40	2.20	13.60	1.00	0.50	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	5.00	2.80	17.40	1.00	0.40	0.00	0.00		0.00	
30	0.00	0.00	0.00	9.30	2.60	16.80	1.00	0.30	0.00	0.00		0.00	
31		0.00		9.00	3.00		1.30		0.00	0.00		0.00	
Total	0.00	0.00	0.00	271.97	82.65	115.45	380.74	72.80	1.40	0.00	0.00	0.00	925.01	CMSDAY
Mean	0.00	0.00	0.00	8.77	2.67	3.85	12.28	2.43	0.05	0.00	0.00	0.00	2.53	CMS
Max	0.00	0.00	0.00	41.35	12.15	17.40	76.50	12.30	0.50	0.00	0.00	0.00	76.50	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.50	1.00	0.30	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	23.50	7.14	9.97	32.90	6.29	0.12	0.00	0.00	0.00	79.92	MCM

Momentary Peak 86.00 CMS, at 4.70 m. (A.D), at 18.00 Hours, on Oct 5, 2016

Runoff Yield 8.77 Liters/Second/Square KM. Momentary Peak Yield 297.580 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Upper Khlong Phra Sathung at Ban Thung Kabin , Sa Kaeo (Kgt.40)

Lat 13 - 25 - 45 N Long 102 - 05 - 00 E

Location : on left bank at the bridge on highway.

	Ban Thung Kabin	**Amphoe** Wang Sombun	**Changwat** Sa Kaeo
Drainge Area	574 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+77.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+85.575 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

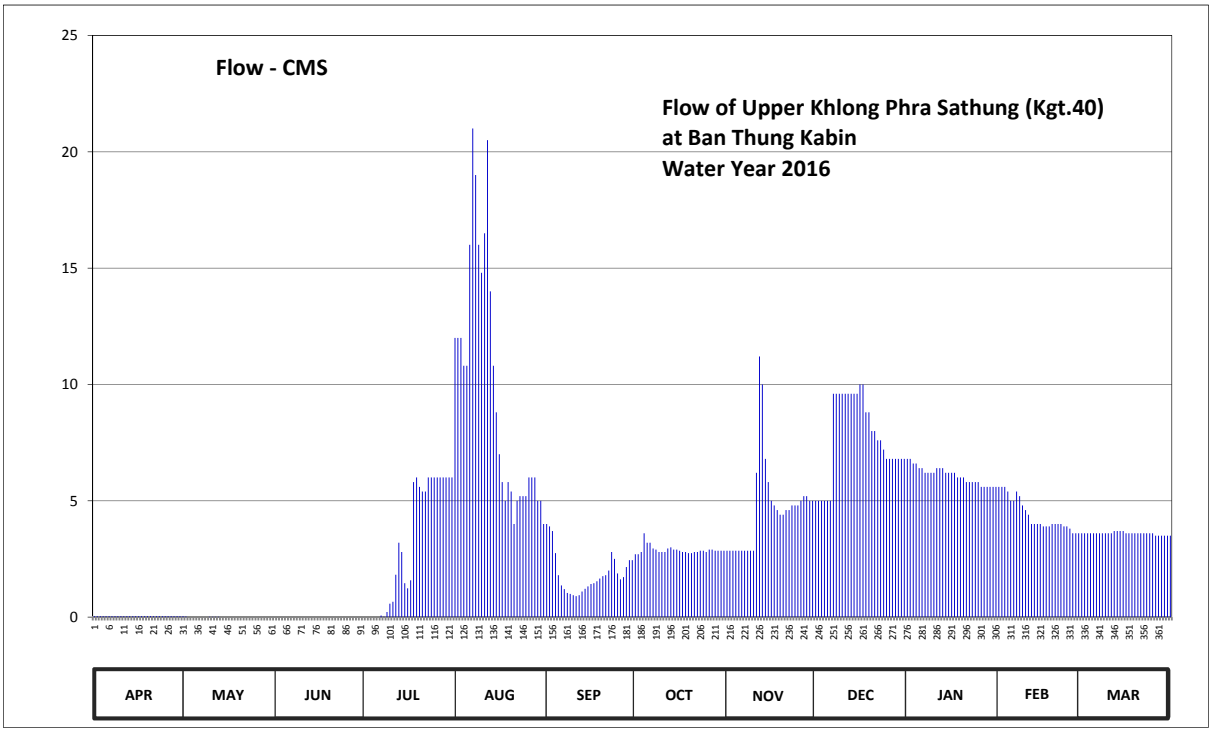
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.50	77.52	77.15	77.19	79.70	79.40	79.24	79.27	79.45	79.54	79.48	79.36	
2	77.50	77.45	77.15	77.14	79.70	79.39	79.24	79.27	79.45	79.54	79.48	79.36	
3	77.50	77.20	77.15	77.10	79.70	79.37	79.26	79.27	79.45	79.53	79.48	79.36	
4	77.50	77.20	77.15	77.10	79.67	79.25	79.36	79.27	79.45	79.53	79.47	79.36	
5	77.50	77.20	77.15	77.10	79.67	79.00	79.32	79.27	79.45	79.52	79.45	79.36	
6	77.50	77.20	77.15	77.19	79.80	78.78	79.32	79.27	79.45	79.52	79.45	79.36	
7	77.50	77.20	77.15	77.64	79.90	78.70	79.29	79.27	79.64	79.51	79.47	79.36	
8	77.50	77.20	77.15	77.40	79.86	78.62	79.28	79.27	79.64	79.51	79.46	79.36	
9	77.50	77.20	77.15	77.92	79.80	78.60	79.26	79.27	79.64	79.51	79.44	79.36	
10	77.50	77.30	77.15	78.28	79.77	78.57	79.26	79.27	79.64	79.51	79.43	79.36	
11	77.50	77.30	77.15	78.36	79.81	78.55	79.26	79.51	79.64	79.52	79.42	79.36	
12	77.50	77.30	77.15	79.01	79.89	78.57	79.29	79.68	79.64	79.52	79.40	79.37	
13	77.50	77.30	77.14	79.32	79.75	78.65	79.30	79.65	79.64	79.52	79.40	79.37	
14	77.50	77.22	77.14	79.26	79.67	78.71	79.28	79.54	79.64	79.51	79.40	79.37	
15	77.50	77.20	77.14	78.83	79.62	78.76	79.28	79.49	79.64	79.51	79.40	79.37	
16	77.50	77.20	77.13	78.72	79.55	78.81	79.27	79.45	79.65	79.51	79.39	79.36	
17	77.50	77.20	77.13	78.89	79.49	78.83	79.26	79.44	79.65	79.51	79.39	79.36	
18	77.50	77.20	77.12	79.49	79.45	78.87	79.26	79.43	79.62	79.50	79.39	79.36	
19	77.50	77.20	77.11	79.50	79.49	78.93	79.25	79.42	79.62	79.50	79.40	79.36	
20	77.50	77.20	77.10	79.48	79.47	78.98	79.25	79.42	79.60	79.50	79.40	79.36	
21	77.50	77.20	77.19	79.47	79.40	79.00	79.26	79.43	79.60	79.49	79.40	79.36	
22	77.50	77.20	77.18	79.47	79.45	79.10	79.26	79.43	79.58	79.49	79.40	79.36	
23	77.50	77.20	77.16	79.50	79.46	79.26	79.27	79.44	79.58	79.49	79.39	79.36	
24	77.50	77.20	77.15	79.50	79.46	79.20	79.27	79.44	79.56	79.49	79.39	79.36	
25	77.50	77.20	77.15	79.50	79.46	79.04	79.26	79.44	79.54	79.49	79.38	79.36	
26	77.50	77.20	77.13	79.50	79.50	78.91	79.28	79.45	79.54	79.48	79.36	79.35	
27	77.50	77.20	77.12	79.50	79.50	78.96	79.28	79.46	79.54	79.48	79.36	79.35	
28	77.50	77.20	77.10	79.50	79.50	79.13	79.27	79.46	79.54	79.48	79.36	79.35	
29	77.50	77.15	77.10	79.50	79.45	79.19	79.27	79.45	79.54	79.48		79.35	
30	77.50	77.15	77.10	79.50	79.45	79.19	79.27	79.45	79.54	79.48		79.35	
31		77.15		79.50	79.40		79.27		79.54	79.48		79.35	
Mean	77.50	77.23	77.14	78.69	79.61	78.94	79.27	79.41	79.57	79.50	79.42	79.36	
Max	77.50	77.52	77.19	79.50	79.90	79.40	79.36	79.68	79.65	79.54	79.48	79.37	79.90
Min	77.50	77.15	77.10	77.10	79.40	78.55	79.24	79.27	79.45	79.48	79.36	79.35	77.10

Annual Max Momentary Gage Height 79.90 m. (MSL.) , at 06.00 Hours, on Aug 7, 2016

Zero Gage at Bottom Elevation 77.00 m. (MSL.) , River Bed 76.88 m. (MSL.)

Left Bank Elevation 87.08 m. (MSL.) ,

Right Bank Elevation 87.08 m. (MSL.) , Drainage Are 574 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.04	0.00	0.00	12.00	4.00	2.70	2.85	5.00	6.80	5.60	3.60	
2	0.04	0.03	0.00	0.00	12.00	3.90	2.70	2.85	5.00	6.80	5.60	3.60	
3	0.04	0.00	0.00	0.00	12.00	3.70	2.80	2.85	5.00	6.60	5.60	3.60	
4	0.04	0.00	0.00	0.00	10.80	2.75	3.60	2.85	5.00	6.60	5.40	3.60	
5	0.04	0.00	0.00	0.00	10.80	1.80	3.20	2.85	5.00	6.40	5.00	3.60	
6	0.04	0.00	0.00	0.00	16.00	1.36	3.20	2.85	5.00	6.40	5.00	3.60	
7	0.04	0.00	0.00	0.07	21.00	1.20	2.95	2.85	9.60	6.20	5.40	3.60	
8	0.04	0.00	0.00	0.02	19.00	1.04	2.90	2.85	9.60	6.20	5.20	3.60	
9	0.04	0.00	0.00	0.22	16.00	1.00	2.80	2.85	9.60	6.20	4.80	3.60	
10	0.04	0.01	0.00	0.58	14.80	0.94	2.80	2.85	9.60	6.20	4.60	3.60	
11	0.04	0.01	0.00	0.66	16.50	0.90	2.80	6.20	9.60	6.40	4.40	3.60	
12	0.04	0.01	0.00	1.82	20.50	0.94	2.95	11.20	9.60	6.40	4.00	3.70	
13	0.04	0.01	0.00	3.20	14.00	1.10	3.00	10.00	9.60	6.40	4.00	3.70	
14	0.04	0.00	0.00	2.80	10.80	1.22	2.90	6.80	9.60	6.20	4.00	3.70	
15	0.04	0.00	0.00	1.46	8.80	1.32	2.90	5.80	9.60	6.20	4.00	3.70	
16	0.04	0.00	0.00	1.24	7.00	1.42	2.85	5.00	10.00	6.20	3.90	3.60	
17	0.04	0.00	0.00	1.58	5.80	1.46	2.80	4.80	10.00	6.20	3.90	3.60	
18	0.04	0.00	0.00	5.80	5.00	1.54	2.80	4.60	8.80	6.00	3.90	3.60	
19	0.04	0.00	0.00	6.00	5.80	1.66	2.75	4.40	8.80	6.00	4.00	3.60	
20	0.04	0.00	0.00	5.60	5.40	1.76	2.75	4.40	8.00	6.00	4.00	3.60	
21	0.04	0.00	0.00	5.40	4.00	1.80	2.80	4.60	8.00	5.80	4.00	3.60	
22	0.04	0.00	0.00	5.40	5.00	2.00	2.80	4.60	7.60	5.80	4.00	3.60	
23	0.04	0.00	0.00	6.00	5.20	2.80	2.85	4.80	7.60	5.80	3.90	3.60	
24	0.04	0.00	0.00	6.00	5.20	2.50	2.85	4.80	7.20	5.80	3.90	3.60	
25	0.04	0.00	0.00	6.00	5.20	1.88	2.80	4.80	6.80	5.80	3.80	3.60	
26	0.04	0.00	0.00	6.00	6.00	1.62	2.90	5.00	6.80	5.60	3.60	3.50	
27	0.04	0.00	0.00	6.00	6.00	1.72	2.90	5.20	6.80	5.60	3.60	3.50	
28	0.04	0.00	0.00	6.00	6.00	2.15	2.85	5.20	6.80	5.60	3.60	3.50	
29	0.04	0.00	0.00	6.00	5.00	2.45	2.85	5.00	6.80	5.60		3.50	
30	0.04	0.00	0.00	6.00	5.00	2.45	2.85	5.00	6.80	5.60		3.50	
31		0.00		6.00	4.00		2.85		6.80	5.60		3.50	
Total	1.20	0.11	0.00	95.85	300.60	56.38	89.45	140.70	240.00	189.00	122.70	111.40	1347.39 CMSDAY
Mean	0.04	0.00	0.00	3.09	9.70	1.88	2.89	4.69	7.74	6.10	4.38	3.59	3.69 CMS
Max	0.04	0.04	0.00	6.00	21.00	4.00	3.60	11.20	10.00	6.80	5.60	3.70	21.00 CMS
Min	0.04	0.00	0.00	0.00	4.00	0.90	2.70	2.85	5.00	5.60	3.60	3.50	0.00 CMS
Runoff	0.10	0.01	0.00	8.28	25.97	4.87	7.73	12.16	20.74	16.33	10.60	9.62	116.41 MCM

Momentary Peak 21.00 CMS, at 79.90 m. (MSL.), at 06.00 Hours, on Aug 7, 2016

Runoff Yield 6.43 Liters/Second/Square KM. Momentary Peak Yield 36.590 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	Ban Tharapha	**Amphoe** Mueang	**Changwat** Sa Kaeo
Drainge Area	2,558 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+14.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +26.947 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

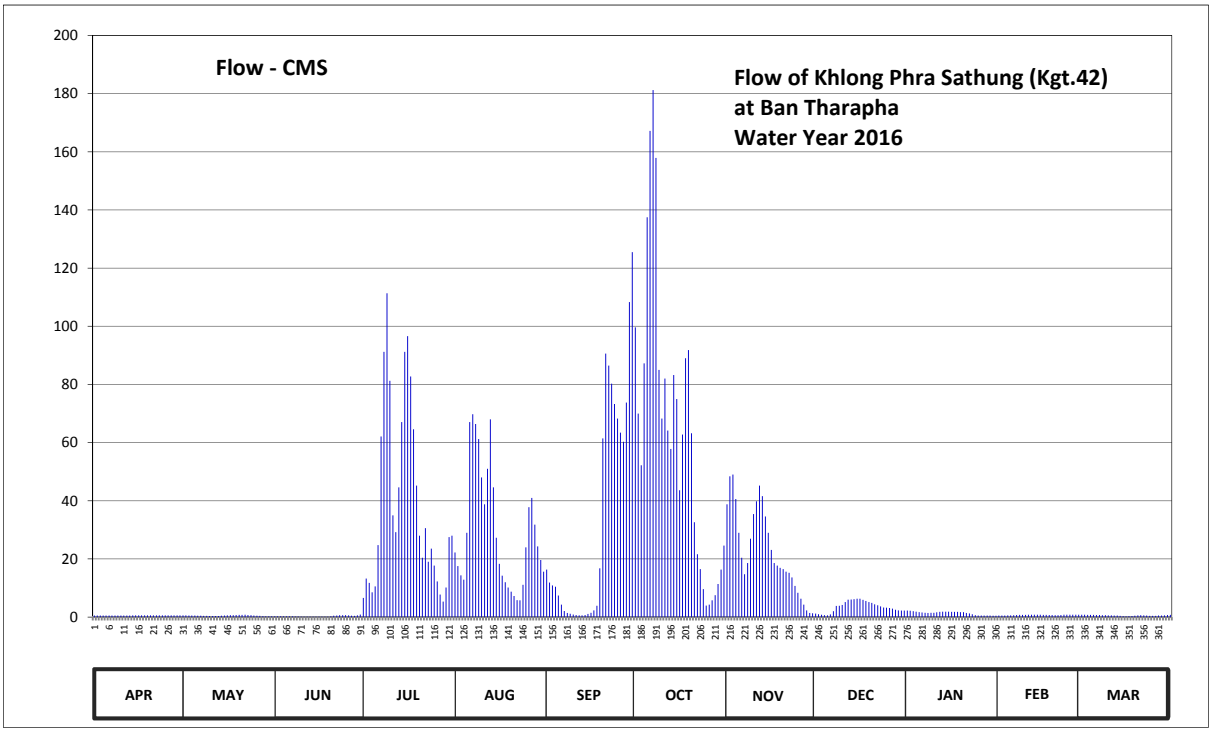
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.73	14.75	14.60	15.78	17.03	16.64	20.52	17.94	14.98	15.20	14.71	14.82	
2	14.73	14.74	14.60	16.40	16.72	16.29	19.40	18.42	14.90	15.19	14.72	14.82	
3	14.73	14.73	14.60	16.28	16.49	16.21	18.61	18.45	14.83	15.17	14.73	14.81	
4	14.73	14.72	14.60	15.98	16.37	16.17	20.09	18.03	14.76	15.15	14.74	14.81	
5	14.72	14.71	14.60	16.18	17.45	15.87	21.60	17.45	14.75	15.13	14.75	14.80	
6	14.72	14.70	14.60	17.20	19.28	15.47	22.34	16.91	14.88	15.11	14.77	14.79	
7	14.72	14.69	14.60	19.06	19.39	15.18	22.67	16.52	15.17	15.09	14.78	14.78	
8	14.73	14.68	14.59	20.24	19.25	15.07	22.11	16.79	15.41	15.08	14.80	14.77	
9	14.73	14.67	14.55	20.91	19.02	14.96	20.00	17.34	15.42	15.09	14.81	14.76	
10	14.73	14.66	14.53	19.85	18.40	14.84	19.33	17.77	15.46	15.10	14.81	14.75	
11	14.73	14.65	14.50	17.75	17.94	14.78	19.88	17.99	15.59	15.12	14.82	14.74	
12	14.73	14.65	14.50	17.46	18.55	14.75	19.15	18.26	15.70	15.14	14.83	14.73	
13	14.73	14.65	14.50	18.23	19.32	14.75	18.87	18.08	15.71	15.15	14.83	14.71	
14	14.74	14.70	14.50	19.28	18.23	14.79	19.93	17.73	15.72	15.15	14.83	14.68	
15	14.74	14.72	14.50	20.24	17.36	14.93	19.60	17.45	15.74	15.15	14.82	14.64	
16	14.74	14.74	14.50	20.42	16.77	15.10	18.18	17.09	15.74	15.14	14.81	14.60	
17	14.74	14.76	14.50	19.91	16.48	15.21	19.09	16.79	15.69	15.14	14.80	14.62	
18	14.74	14.77	14.50	19.17	16.30	15.42	20.16	16.73	15.64	15.14	14.79	14.66	
19	14.74	14.79	14.51	18.26	16.14	16.67	20.26	16.68	15.59	15.13	14.78	14.70	
20	14.74	14.80	14.61	17.40	16.00	19.03	19.11	16.65	15.55	15.13	14.77	14.74	
21	14.74	14.81	14.70	16.91	15.85	20.22	17.63	16.59	15.49	15.08	14.77	14.77	
22	14.74	14.82	14.73	17.53	15.68	20.06	16.99	16.56	15.44	15.00	14.79	14.75	
23	14.74	14.79	14.76	16.82	15.67	19.81	16.65	16.43	15.39	14.89	14.82	14.71	
24	14.74	14.76	14.77	17.12	16.23	19.53	16.09	16.20	15.34	14.77	14.82	14.68	
25	14.74	14.73	14.76	16.73	17.15	19.33	15.43	15.96	15.33	14.72	14.83	14.68	
26	14.75	14.70	14.74	16.32	17.89	19.12	15.47	15.74	15.32	14.72	14.83	14.68	
27	14.75	14.67	14.70	15.90	18.05	18.98	15.67	15.47	15.29	14.72	14.82	14.71	
28	14.75	14.64	14.68	15.61	17.59	19.55	15.88	15.21	15.24	14.71	14.82	14.72	
29	14.75	14.61	14.74	16.14	17.17	20.81	16.25	15.08	15.21	14.71		14.74	
30	14.75	14.60	14.85	17.37	16.86	21.30	16.64	15.02	15.20	14.70		14.78	
31		14.60		17.40	16.59		17.19		15.20	14.70		14.80	
Mean	14.74	14.71	14.61	17.74	17.33	17.03	18.74	16.91	15.34	15.01	14.79	14.73	
Max	14.75	14.82	14.85	20.91	19.39	21.30	22.67	18.45	15.74	15.20	14.83	14.82	22.67
Min	14.72	14.60	14.50	15.61	15.67	14.75	15.43	15.02	14.75	14.70	14.71	14.60	14.50

Annual Max Momentary Gage Height 22.75 m. (MSL.) , at 17.00 Hours, on Oct 7, 2016

Zero Gage at Bottom Elevation 14.50 m. (MSL.) , River Bed 14.39 m. (MSL.)

Left Bank Elevation 26.09 m. (MSL.) ,

Right Bank Elevation 26.10 m. (MSL.) , Drainage Are 2,558 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	0.62	0.25	6.60	22.20	16.35	99.60	38.80	1.20	2.25	0.52	0.80	
2	0.57	0.60	0.25	13.25	17.55	11.87	70.00	48.40	1.00	2.17	0.55	0.80	
3	0.57	0.57	0.25	11.75	14.37	10.87	52.20	49.00	0.82	2.02	0.57	0.77	
4	0.57	0.55	0.25	8.55	12.87	10.45	87.25	40.60	0.65	1.87	0.60	0.77	
5	0.55	0.52	0.25	10.55	29.00	7.45	137.50	29.00	0.62	1.72	0.62	0.75	
6	0.55	0.50	0.25	24.75	67.05	4.27	167.20	20.40	0.95	1.57	0.67	0.72	
7	0.55	0.47	0.25	62.10	69.75	2.10	181.22	14.75	2.02	1.47	0.70	0.70	
8	0.57	0.45	0.24	91.20	66.38	1.42	157.90	18.60	3.82	1.45	0.75	0.67	
9	0.57	0.42	0.20	111.35	61.20	1.15	85.00	26.95	3.90	1.47	0.77	0.65	
10	0.57	0.40	0.18	81.25	48.00	0.85	68.25	35.40	4.20	1.50	0.77	0.62	
11	0.57	0.37	0.15	35.00	38.80	0.70	82.00	39.80	5.17	1.65	0.80	0.60	
12	0.57	0.37	0.15	29.20	51.00	0.62	64.13	45.20	6.00	1.80	0.82	0.57	
13	0.57	0.37	0.15	44.60	68.00	0.62	57.82	41.60	6.07	1.87	0.82	0.52	
14	0.60	0.50	0.15	67.05	44.60	0.72	83.25	34.60	6.15	1.87	0.82	0.45	
15	0.60	0.55	0.15	91.20	27.30	1.07	75.00	29.00	6.30	1.87	0.80	0.35	
16	0.60	0.60	0.15	96.60	18.30	1.50	43.60	23.10	6.30	1.80	0.77	0.25	
17	0.60	0.65	0.15	82.75	14.25	2.32	62.78	18.60	5.92	1.80	0.75	0.30	
18	0.60	0.67	0.15	64.58	12.00	3.90	89.00	17.70	5.55	1.80	0.72	0.40	
19	0.60	0.72	0.16	45.20	10.15	16.80	91.80	16.95	5.17	1.72	0.70	0.50	
20	0.60	0.75	0.27	28.00	8.75	61.43	63.23	16.50	4.87	1.72	0.67	0.60	
21	0.60	0.77	0.50	20.40	7.25	90.60	32.60	15.62	4.42	1.45	0.67	0.67	
22	0.60	0.80	0.57	30.60	5.85	86.50	21.60	15.25	4.05	1.25	0.72	0.62	
23	0.60	0.72	0.65	19.05	5.77	80.25	16.50	13.62	3.67	0.97	0.80	0.52	
24	0.60	0.65	0.67	23.55	11.12	73.25	9.65	10.75	3.30	0.67	0.80	0.45	
25	0.60	0.57	0.65	17.70	24.00	68.25	3.97	8.35	3.22	0.55	0.82	0.45	
26	0.62	0.50	0.60	12.25	37.80	63.45	4.27	6.30	3.15	0.55	0.82	0.45	
27	0.62	0.42	0.50	7.75	41.00	60.30	5.77	4.27	2.92	0.55	0.80	0.52	
28	0.62	0.35	0.45	5.32	31.80	73.75	7.55	2.32	2.55	0.52	0.80	0.55	
29	0.62	0.27	0.60	10.15	24.30	108.30	11.37	1.45	2.32	0.52		0.60	
30	0.62	0.25	0.87	27.48	19.65	125.50	16.35	1.30	2.25	0.50		0.70	
31		0.25		28.00	15.62		24.60		2.25	0.50		0.75	
Total	17.65	16.20	10.06	1207.78	925.68	986.61	1972.96	684.18	110.78	43.42	20.42	18.07	6013.81 CMSDAY
Mean	0.59	0.52	0.34	38.96	29.86	32.89	63.64	22.81	3.57	1.40	0.73	0.58	16.48 CMS
Max	0.62	0.80	0.87	111.35	69.75	125.50	181.22	49.00	6.30	2.25	0.82	0.80	181.22 CMS
Min	0.55	0.25	0.15	5.32	5.77	0.62	3.97	1.30	0.62	0.50	0.52	0.25	0.15 CMS
Runoff	1.52	1.40	0.87	104.35	79.98	85.24	170.46	59.11	9.57	3.75	1.76	1.56	519.59 MCM

Momentary Peak 184.75 CMS, at 22.75 m. (MSL.), at 17.00 Hours, on Oct 7, 2016

Runoff Yield 6.44 Liters/Second/Square KM. Momentary Peak Yield 72.220 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Wang Man , Prachin Buri (Kgt.43A)

Lat 13 - 59 - 36 N Long 101 - 42 - 52 E

Location : on left bank at the bridge.

Ban Na Tan **Amphoe** Kabin Buri **Changwat** Prachin Buri

Drainge Area	2,142 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+2.070 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +14.431 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	2016 to date
Rating Operation	
Period of Rating	2016 to date
Rated by Flot	-
Rated by Current Meter	2016 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

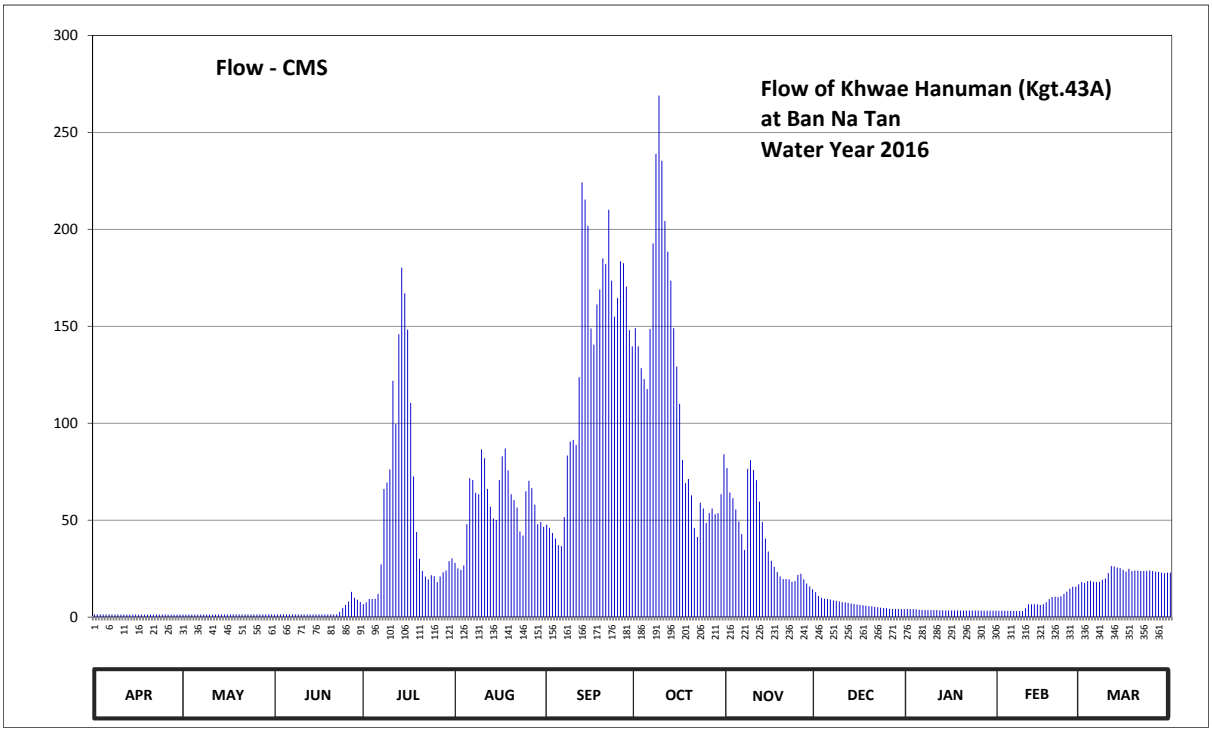
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.54	2.53	2.54	3.07	4.48	5.34	8.18	6.34	3.59	2.81	2.73	3.93	
2	2.54	2.53	2.54	3.16	4.32	5.28	7.98	5.94	3.46	2.81	2.73	3.91	
3	2.54	2.53	2.54	3.33	4.28	5.18	7.71	5.84	3.40	2.81	2.73	3.96	
4	2.54	2.53	2.54	3.33	4.41	5.07	7.57	5.63	3.36	2.80	2.72	3.97	
5	2.54	2.53	2.54	3.35	5.35	4.94	7.44	5.40	3.33	2.78	2.72	3.94	
6	2.54	2.53	2.54	3.53	5.97	4.92	8.17	5.16	3.31	2.77	2.72	3.93	
7	2.54	2.53	2.54	4.44	5.95	5.46	9.05	4.83	3.26	2.76	2.71	3.94	
8	2.54	2.53	2.54	5.84	5.79	6.23	9.84	6.33	3.23	2.76	2.71	4.00	
9	2.54	2.53	2.54	5.92	5.77	6.39	10.30	6.46	3.21	2.76	2.71	4.03	
10	2.53	2.53	2.54	6.07	6.30	6.41	9.78	6.31	3.17	2.76	2.85	4.19	
11	2.53	2.53	2.54	6.94	6.20	6.35	9.26	6.15	3.16	2.76	3.06	4.39	
12	2.53	2.53	2.54	6.57	5.84	6.97	8.97	5.78	3.13	2.75	3.06	4.38	
13	2.53	2.53	2.54	7.34	5.60	8.39	8.67	5.39	3.10	2.75	3.07	4.35	
14	2.53	2.54	2.54	7.84	5.44	8.28	8.18	5.07	3.08	2.75	3.06	4.33	
15	2.53	2.54	2.54	7.67	5.42	8.11	7.73	4.79	3.05	2.75	3.03	4.28	
16	2.53	2.54	2.54	7.38	5.95	7.39	7.25	4.54	3.03	2.75	3.07	4.23	
17	2.53	2.54	2.54	6.75	6.22	7.25	6.46	4.37	3.01	2.75	3.17	4.31	
18	2.53	2.54	2.54	5.99	6.31	7.58	6.10	4.22	2.99	2.75	3.32	4.25	
19	2.53	2.54	2.54	5.20	6.06	7.70	6.17	4.09	2.97	2.74	3.42	4.26	
20	2.53	2.54	2.54	4.60	5.77	7.90	5.89	4.02	2.95	2.74	3.43	4.26	
21	2.53	2.54	2.54	4.25	5.69	8.84	5.28	4.02	2.93	2.74	3.42	4.25	
22	2.53	2.54	2.55	4.09	5.59	9.36	5.10	4.01	2.91	2.74	3.45	4.25	
23	2.53	2.54	2.67	4.01	5.21	8.67	5.76	3.94	2.89	2.74	3.53	4.25	
24	2.53	2.54	2.88	4.13	5.13	8.30	5.65	3.96	2.87	2.74	3.61	4.26	
25	2.53	2.54	3.03	4.10	5.81	8.49	5.37	4.14	2.85	2.74	3.71	4.25	
26	2.53	2.54	3.20	3.93	5.94	8.87	5.56	4.17	2.83	2.74	3.78	4.23	
27	2.53	2.54	3.60	4.09	5.85	8.85	5.65	4.01	2.81	2.73	3.78	4.22	
28	2.53	2.54	3.40	4.21	5.63	8.61	5.54	3.89	2.82	2.73	3.86	4.20	
29	2.53	2.54	3.30	4.26	5.35	8.16	5.56	3.79	2.82	2.73		4.19	
30	2.53	2.54	3.18	4.53	5.39	7.98	5.91	3.69	2.81	2.73		4.20	
31		2.54		4.61	5.30		6.55		2.81	2.73		4.20	
Mean	2.53	2.54	2.70	4.98	5.56	7.24	7.18	4.88	3.07	2.75	3.15	4.17	
Max	2.54	2.54	3.60	7.84	6.31	9.36	10.30	6.46	3.59	2.81	3.86	4.39	10.30
Min	2.53	2.53	2.54	3.07	4.28	4.92	5.10	3.69	2.81	2.73	2.71	3.91	2.53

Annual Max Momentary Gage Height 10.42 m. (MSL.) , at 06.00 Hours, on Oct 9, 2016

Zero Gage at Bottom Elevation 2.07 m. (MSL.) , River Bed 1.71 m. (MSL.)

Left Bank Elevation 13.54 m. (MSL.) ,

Right Bank Elevation 13.37 m. (MSL.) , Drainage Are 2,142 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.30	1.40	6.70	27.94	47.68	149.00	76.86	12.85	4.10	3.30	18.04	
2	1.40	1.30	1.40	7.60	25.06	46.06	139.60	64.30	10.90	4.10	3.30	17.68	
3	1.40	1.30	1.40	9.30	24.34	43.38	128.40	61.30	10.00	4.10	3.30	18.58	
4	1.40	1.30	1.40	9.30	26.68	40.52	122.80	55.51	9.60	4.00	3.20	18.76	
5	1.40	1.30	1.40	9.50	47.95	37.14	117.60	49.30	9.30	3.80	3.20	18.22	
6	1.40	1.30	1.40	11.95	71.65	36.62	148.50	42.86	9.10	3.70	3.20	18.04	
7	1.40	1.30	1.40	27.22	70.75	51.58	192.75	34.63	8.60	3.60	3.10	18.22	
8	1.40	1.30	1.40	66.10	64.12	83.35	238.90	76.52	8.30	3.60	3.10	19.30	
9	1.40	1.30	1.40	69.40	63.36	90.55	269.00	80.94	8.10	3.60	3.10	19.84	
10	1.30	1.30	1.40	76.15	86.50	91.45	235.30	75.84	7.70	3.60	4.50	22.72	
11	1.30	1.30	1.40	121.90	82.00	88.75	204.30	70.60	7.60	3.60	6.60	26.32	
12	1.30	1.30	1.40	99.70	66.10	123.70	188.50	59.56	7.30	3.50	6.60	26.14	
13	1.30	1.30	1.40	145.90	56.90	224.20	173.50	49.03	7.00	3.50	6.70	25.60	
14	1.30	1.40	1.40	180.20	50.82	215.40	149.00	40.52	6.80	3.50	6.60	25.24	
15	1.30	1.40	1.40	167.05	50.06	201.80	129.20	33.79	6.50	3.50	6.30	24.34	
16	1.30	1.40	1.40	148.30	70.75	148.90	110.00	29.02	6.30	3.50	6.70	23.44	
17	1.30	1.40	1.40	110.50	82.90	140.50	80.94	25.96	6.10	3.50	7.70	24.88	
18	1.30	1.40	1.40	72.55	86.95	161.20	69.10	23.26	5.90	3.50	9.20	23.80	
19	1.30	1.40	1.40	43.90	75.70	169.00	71.20	20.92	5.70	3.40	10.30	23.98	
20	1.30	1.40	1.40	30.10	63.36	185.00	62.80	19.66	5.50	3.40	10.45	23.98	
21	1.30	1.40	1.40	23.80	60.32	182.00	46.06	19.66	5.30	3.40	10.30	23.80	
22	1.30	1.40	1.50	20.92	56.52	210.10	41.30	19.48	5.10	3.40	10.75	23.80	
23	1.30	1.40	2.70	19.48	44.17	173.50	59.02	18.22	4.90	3.40	11.95	23.80	
24	1.30	1.40	4.80	21.64	42.08	155.00	56.05	18.58	4.70	3.40	13.15	23.98	
25	1.30	1.40	6.30	21.10	64.90	164.50	48.49	21.82	4.50	3.40	14.65	23.80	
26	1.30	1.40	8.00	18.04	70.30	183.50	53.62	22.36	4.30	3.40	15.70	23.44	
27	1.30	1.40	13.00	20.92	66.50	182.50	56.05	19.48	4.10	3.30	15.70	23.26	
28	1.30	1.40	10.00	23.08	58.04	170.50	53.08	17.35	4.20	3.30	16.90	22.90	
29	1.30	1.40	9.00	23.98	47.95	148.00	53.62	15.85	4.20	3.30		22.72	
30	1.30	1.40	7.80	28.84	49.03	139.60	63.40	14.35	4.10	3.30		22.90	
31		1.40		30.28	46.60		84.00		4.10	3.30		22.90	
Total	39.90	42.10	92.50	1665.40	1800.30	3935.98	3595.08	1177.53	208.65	110.00	219.55	694.42	13581.41	CMSDAY
Mean	1.33	1.36	3.08	53.72	58.07	131.20	115.97	39.25	6.73	3.55	7.84	22.40	37.21	CMS
Max	1.40	1.40	13.00	180.20	86.95	224.20	269.00	80.94	12.85	4.10	16.90	26.32	269.00	CMS
Min	1.30	1.30	1.40	6.70	24.34	36.62	41.30	14.35	4.10	3.30	3.10	17.68	1.30	CMS
Runoff	3.45	3.64	7.99	143.89	155.55	340.07	310.61	101.74	18.03	9.50	18.97	60.00	1173.43	MCM

Momentary Peak 277.40 CMS, at 10.42 m. (MSL.), at 06.00 Hours, on Oct 9, 2016

Runoff Yield 17.37 Liters/Second/Square KM. Momentary Peak Yield 129.510 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng Sai , Sa Kaeo (Kgt.44)

Lat 13 - 51 - 21 N Long 102 - 08 - 30 E

Location : on left bank at the bridge.

Ban Kaeng Sai **Amphoe** Mueang **Changwat** Sa Kaeo

Drainge Area	1,071 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+27.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +33.898 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	2014 to date
Rating Operation	
Period of Rating	2014 to date
Rated by Flot	-
Rated by Current Meter	2014 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

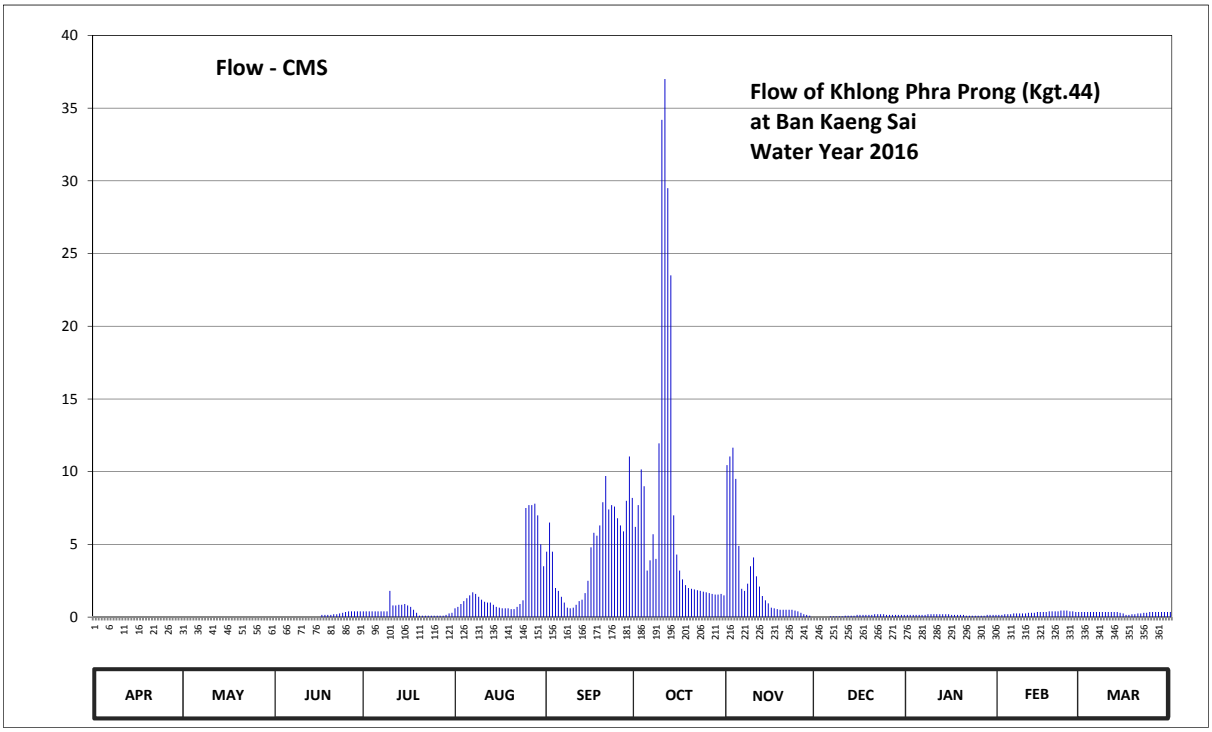
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.10	27.08	27.30	27.38	27.42	27.95	28.12	28.53	27.30	27.33	27.33	27.37	
2	27.10	27.08	27.30	27.38	27.44	28.15	28.27	28.57	27.30	27.33	27.33	27.37	
3	27.10	27.09	27.30	27.38	27.48	27.95	28.51	28.61	27.30	27.33	27.34	27.37	
4	27.10	27.09	27.28	27.38	27.52	27.70	28.40	28.45	27.30	27.33	27.34	27.37	
5	27.10	27.10	27.28	27.38	27.56	27.66	27.82	27.99	27.30	27.33	27.34	27.37	
6	27.10	27.10	27.28	27.38	27.60	27.58	27.89	27.69	27.31	27.33	27.35	27.37	
7	27.10	27.11	27.28	27.38	27.64	27.50	28.07	27.66	27.31	27.33	27.35	27.37	
8	27.10	27.11	27.28	27.38	27.62	27.43	27.90	27.73	27.31	27.34	27.35	27.37	
9	27.10	27.12	27.28	27.38	27.58	27.42	28.63	27.85	27.31	27.34	27.35	27.37	
10	27.10	27.12	27.28	27.66	27.54	27.43	30.06	27.91	27.31	27.34	27.35	27.37	
11	27.09	27.13	27.28	27.46	27.51	27.47	30.20	27.78	27.32	27.34	27.36	27.37	
12	27.09	27.13	27.28	27.46	27.50	27.52	29.80	27.71	27.32	27.34	27.36	27.37	
13	27.09	27.14	27.28	27.47	27.50	27.54	29.40	27.59	27.32	27.34	27.36	27.37	
14	27.09	27.14	27.28	27.47	27.47	27.63	28.20	27.53	27.32	27.34	27.37	27.36	
15	27.09	27.15	27.28	27.48	27.44	27.75	27.93	27.49	27.33	27.34	27.37	27.35	
16	27.09	27.16	27.30	27.46	27.43	27.98	27.82	27.43	27.33	27.33	27.37	27.33	
17	27.09	27.17	27.33	27.44	27.42	28.08	27.76	27.42	27.33	27.33	27.37	27.33	
18	27.09	27.18	27.33	27.40	27.42	28.06	27.72	27.41	27.33	27.33	27.38	27.34	
19	27.09	27.19	27.33	27.36	27.42	28.13	27.70	27.40	27.33	27.33	27.38	27.34	
20	27.09	27.20	27.33	27.32	27.41	28.29	27.69	27.40	27.33	27.33	27.38	27.35	
21	27.08	27.21	27.34	27.32	27.41	28.47	27.68	27.40	27.34	27.32	27.38	27.35	
22	27.08	27.22	27.34	27.32	27.44	28.24	27.67	27.40	27.34	27.32	27.39	27.36	
23	27.08	27.22	27.35	27.32	27.48	28.27	27.66	27.40	27.34	27.32	27.39	27.36	
24	27.08	27.22	27.36	27.32	27.53	28.26	27.65	27.39	27.34	27.32	27.39	27.37	
25	27.08	27.21	27.37	27.32	28.25	28.18	27.64	27.38	27.33	27.32	27.38	27.37	
26	27.08	27.21	27.38	27.32	28.27	28.13	27.63	27.36	27.33	27.32	27.38	27.37	
27	27.08	27.20	27.38	27.32	28.27	28.09	27.62	27.34	27.33	27.32	27.37	27.37	
28	27.08	27.20	27.38	27.32	28.28	28.30	27.61	27.33	27.33	27.33	27.37	27.37	
29	27.08	27.20	27.38	27.33	28.20	28.57	27.61	27.32	27.33	27.33		27.37	
30	27.08	27.20	27.38	27.35	28.00	28.32	27.62	27.30	27.33	27.33		27.37	
31		27.20		27.36	27.85		27.60		27.33	27.33		27.37	
Mean	27.09	27.16	27.32	27.39	27.64	27.94	28.13	27.66	27.32	27.33	27.36	27.36	
Max	27.10	27.22	27.38	27.66	28.28	28.57	30.20	28.61	27.34	27.34	27.39	27.37	30.20
Min	27.08	27.08	27.28	27.32	27.41	27.42	27.60	27.30	27.30	27.32	27.33	27.33	27.08

Annual Max Momentary Gage Height 30.30 m. (MSL.) , at 06.00 Hours, on Oct 11, 2016

Zero Gage at Bottom Elevation 27.00 m. (MSL.) , River Bed 24.81 m. (MSL.)

Left Bank Elevation 33.15 m. (MSL.) ,

Right Bank Elevation 33.14 m. (MSL.) , Drainage Are 1,071 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.40	0.60	4.50	6.20	10.45	0.00	0.15	0.15	0.35		
2	0.00	0.00	0.00	0.40	0.70	6.50	7.70	11.05	0.00	0.15	0.15	0.35		
3	0.00	0.00	0.00	0.40	0.90	4.50	10.15	11.65	0.00	0.15	0.20	0.35		
4	0.00	0.00	0.00	0.40	1.10	2.00	9.00	9.50	0.00	0.15	0.20	0.35		
5	0.00	0.00	0.00	0.40	1.30	1.80	3.20	4.90	0.00	0.15	0.20	0.35		
6	0.00	0.00	0.00	0.40	1.50	1.40	3.90	1.95	0.05	0.15	0.25	0.35		
7	0.00	0.00	0.00	0.40	1.70	1.00	5.70	1.80	0.05	0.15	0.25	0.35		
8	0.00	0.00	0.00	0.40	1.60	0.65	4.00	2.30	0.05	0.20	0.25	0.35		
9	0.00	0.00	0.00	0.40	1.40	0.60	11.95	3.50	0.05	0.20	0.25	0.35		
10	0.00	0.00	0.00	1.80	1.20	0.65	34.20	4.10	0.05	0.20	0.25	0.35		
11	0.00	0.00	0.00	0.80	1.05	0.85	37.00	2.80	0.10	0.20	0.30	0.35		
12	0.00	0.00	0.00	0.80	1.00	1.10	29.50	2.10	0.10	0.20	0.30	0.35		
13	0.00	0.00	0.00	0.85	1.00	1.20	23.50	1.45	0.10	0.20	0.30	0.35		
14	0.00	0.00	0.00	0.85	0.85	1.65	7.00	1.15	0.10	0.20	0.35	0.30		
15	0.00	0.00	0.00	0.90	0.70	2.50	4.30	0.95	0.15	0.20	0.35	0.25		
16	0.00	0.00	0.00	0.80	0.65	4.80	3.20	0.65	0.15	0.15	0.35	0.15		
17	0.00	0.00	0.15	0.70	0.60	5.80	2.60	0.60	0.15	0.15	0.35	0.15		
18	0.00	0.00	0.15	0.50	0.60	5.60	2.20	0.55	0.15	0.15	0.40	0.20		
19	0.00	0.00	0.15	0.30	0.60	6.30	2.00	0.50	0.15	0.15	0.40	0.20		
20	0.00	0.00	0.15	0.10	0.55	7.90	1.95	0.50	0.15	0.15	0.40	0.25		
21	0.00	0.00	0.20	0.10	0.55	9.70	1.90	0.50	0.20	0.10	0.40	0.25		
22	0.00	0.00	0.20	0.10	0.70	7.40	1.85	0.50	0.20	0.10	0.45	0.30		
23	0.00	0.00	0.25	0.10	0.90	7.70	1.80	0.50	0.20	0.10	0.45	0.30		
24	0.00	0.00	0.30	0.10	1.15	7.60	1.75	0.45	0.20	0.10	0.45	0.35		
25	0.00	0.00	0.35	0.10	7.50	6.80	1.70	0.40	0.15	0.10	0.40	0.35		
26	0.00	0.00	0.40	0.10	7.70	6.30	1.65	0.30	0.15	0.10	0.40	0.35		
27	0.00	0.00	0.40	0.10	7.70	5.90	1.60	0.20	0.15	0.10	0.35	0.35		
28	0.00	0.00	0.40	0.10	7.80	8.00	1.55	0.15	0.15	0.15	0.35	0.35		
29	0.00	0.00	0.40	0.15	7.00	11.05	1.55	0.10	0.15	0.15		0.35		
30	0.00	0.00	0.40	0.25	5.00	8.20	1.60	0.00	0.15	0.15		0.35		
31		0.00		0.30	3.50		1.50		0.15	0.15		0.35		
Total	0.00	0.00	3.90	13.50	69.10	139.95	227.70	75.55	3.40	4.70	8.90	9.70	556.40	CMSDAY
Mean	0.00	0.00	0.13	0.44	2.23	4.67	7.35	2.52	0.11	0.15	0.32	0.31	1.52	CMS
Max	0.00	0.00	0.40	1.80	7.80	11.05	37.00	11.65	0.20	0.20	0.45	0.35	37.00	CMS
Min	0.00	0.00	0.00	0.10	0.55	0.60	1.50	0.00	0.00	0.10	0.15	0.15	0.00	CMS
Runoff	0.00	0.00	0.34	1.17	5.97	12.09	19.67	6.53	0.29	0.41	0.77	0.84	48.07	MCM

Momentary Peak 39.00 CMS, at 30.30 m. (MSL.), at 06.00 Hours, on Oct 11, 2016

Runoff Yield 1.42 Liters/Second/Square KM. Momentary Peak Yield 36.410 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Ta Ruang , Chanthaburi (Kgt.45)

Lat 13 - 12 - 30 N Long 102 - 10 - 07 E

Location : on right bank at the bridge.

	Ban Ta Ruang	**Amphoe** Soi Dao	**Changwat** Chanthaburi
Drainge Area	103 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+167.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +172.248 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

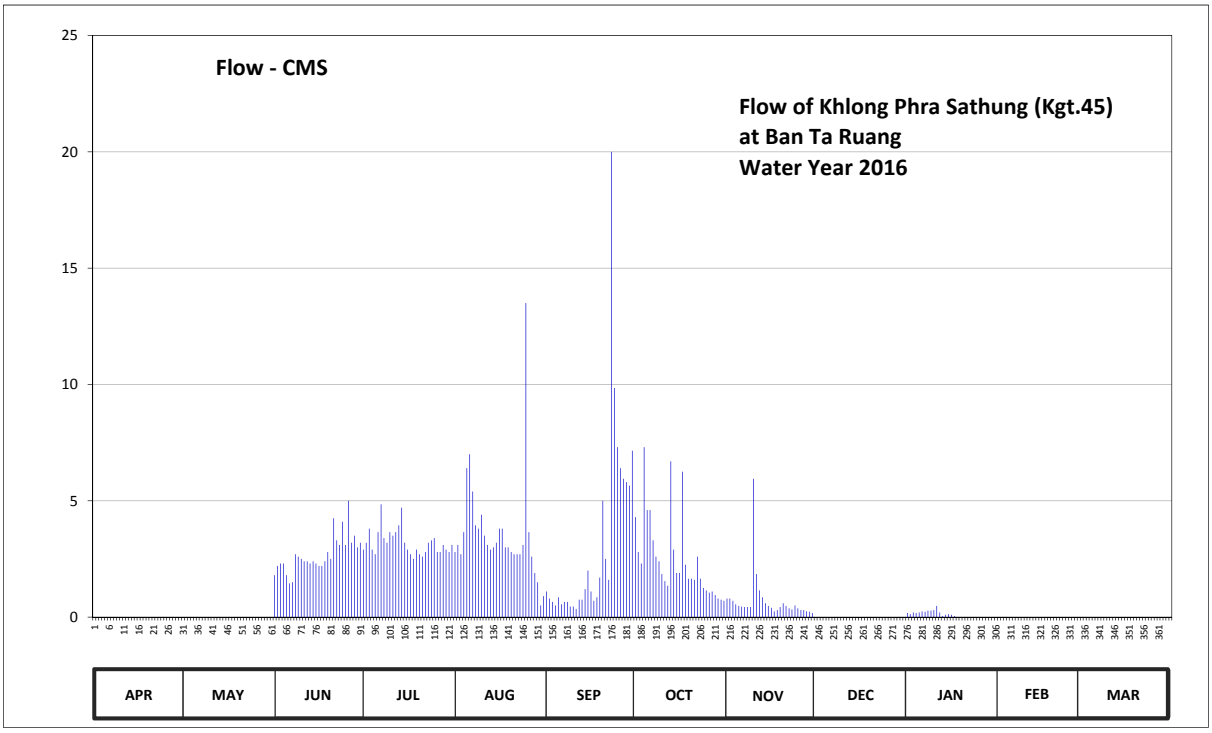
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.46	167.00	169.03	169.14	169.13	168.92	168.98	168.46	168.20	168.27	169.20	169.17	
2	167.38	167.00	169.07	169.17	169.16	168.86	168.83	168.46	168.20	168.25	169.19	169.14	
3	167.45	167.00	169.08	169.22	169.12	168.83	168.76	168.44	168.20	168.28	169.20	169.10	
4	167.48	167.00	169.08	169.14	169.21	168.80	169.22	168.41	168.20	168.27	169.20	169.13	
5	167.50	167.00	169.03	169.12	169.37	168.87	169.01	168.39	168.20	168.28	169.20	169.10	
6	167.49	167.00	168.99	169.21	169.40	168.81	169.01	168.38	168.20	168.30	169.20	169.11	
7	167.48	167.00	169.00	169.29	169.32	168.83	168.88	168.37	168.20	168.29	169.22	169.13	
8	167.48	167.00	169.12	169.19	169.23	168.83	168.81	168.37	168.20	168.31	169.20	169.12	
9	167.48	167.00	169.11	169.17	169.22	168.79	168.78	168.37	168.20	168.31	169.20	169.12	
10	167.47	167.00	169.10	169.21	169.26	168.79	168.67	169.13	168.20	168.32	169.20	169.11	
11	167.44	167.00	169.09	169.20	169.20	168.77	168.61	168.67	168.20	168.39	169.20	169.11	
12	167.43	167.00	169.09	169.21	169.16	168.85	168.57	168.53	168.20	168.28	169.20	169.10	
13	167.36	167.00	169.08	169.23	169.14	168.85	169.18	168.47	168.20	168.22	169.18	169.10	
14	167.37	167.00	169.09	169.28	169.15	168.94	168.84	168.42	168.20	168.24	169.20	169.10	
15	167.35	167.00	169.08	169.17	169.17	169.05	168.68	168.39	168.20	168.25	169.20	169.12	
16	167.35	167.00	169.07	169.14	169.22	168.92	168.68	168.36	168.20	168.24	169.00	169.25	
17	167.33	167.00	169.07	169.12	169.22	168.84	169.15	168.30	168.20	168.22	169.02	169.19	
18	167.33	167.00	169.09	169.10	169.15	168.87	168.75	168.32	168.20	168.47	169.06	169.23	
19	167.31	167.00	169.13	169.14	169.15	169.02	168.63	168.37	168.20	169.19	169.08	169.24	
20	167.27	167.00	169.10	169.12	169.13	169.30	168.63	168.42	168.20	169.19	169.10	169.23	
21	167.00	167.00	169.25	169.11	169.12	169.10	168.62	168.39	168.20	169.19	169.05	169.20	
22	167.00	167.00	169.18	169.13	169.12	169.01	168.81	168.35	168.20	169.18	169.00	169.20	
23	167.00	167.00	169.16	169.17	169.12	169.80	168.63	168.33	168.20	169.18	169.15	169.19	
24	167.00	167.00	169.24	169.18	169.16	169.39	168.55	168.40	168.20	169.18	169.14	169.19	
25	167.00	167.00	169.16	169.19	169.65	169.22	168.53	168.35	168.20	169.18	169.23	169.24	
26	167.00	167.00	169.30	169.13	169.21	169.16	168.51	168.32	168.20	169.20	169.16	169.30	
27	167.00	167.00	169.17	169.13	169.11	169.13	168.52	168.32	168.20	169.19	169.14	169.24	
28	167.00	167.00	169.20	169.16	169.04	169.12	168.49	168.30	168.20	169.18	169.00	169.21	
29	167.00	167.00	169.15	169.14	169.00	169.11	168.46	168.29	168.20	169.18		169.19	
30	167.00	167.00	169.17	169.13	168.80	169.21	168.45	168.27	168.20	169.19		169.19	
31		167.00		169.16	168.88		168.44		168.20	169.18		169.20	
Mean	167.27	167.00	169.12	169.17	169.17	169.00	168.73	168.41	168.20	168.66	169.15	169.17	
Max	167.50	167.00	169.30	169.29	169.65	169.80	169.22	169.13	168.20	169.20	169.23	169.30	169.80
Min	167.00	167.00	168.99	169.10	168.80	168.77	168.44	168.27	168.20	168.22	169.00	169.10	167.00

Annual Max Momentary Gage Height 170.30 m. (MSL.) , at 06.00 Hours, on Sep 23, 2016

Zero Gage at Bottom Elevation 167.00 m. (MSL.) , River Bed 166.39 m. (MSL.)

Left Bank Elevation 172.14 m. (MSL.) ,

Right Bank Elevation 172.26 m. (MSL.) , Drainage Are 103 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.80	2.90	2.80	1.10	4.30	0.80	0.00	0.18	0.00	0.00		
2	0.00	0.00	2.20	3.20	3.10	0.80	2.80	0.80	0.00	0.13	0.00	0.00		
3	0.00	0.00	2.30	3.80	2.70	0.65	2.30	0.70	0.00	0.20	0.00	0.00		
4	0.00	0.00	2.30	2.90	3.65	0.50	7.30	0.55	0.00	0.18	0.00	0.00		
5	0.00	0.00	1.80	2.70	6.40	0.85	4.60	0.48	0.00	0.20	0.00	0.00		
6	0.00	0.00	1.45	3.65	7.00	0.55	4.60	0.45	0.00	0.25	0.00	0.00		
7	0.00	0.00	1.50	4.85	5.40	0.65	3.30	0.43	0.00	0.23	0.00	0.00		
8	0.00	0.00	2.70	3.40	3.95	0.65	2.60	0.43	0.00	0.28	0.00	0.00		
9	0.00	0.00	2.60	3.20	3.80	0.45	2.40	0.43	0.00	0.28	0.00	0.00		
10	0.00	0.00	2.50	3.65	4.40	0.45	1.85	5.95	0.00	0.30	0.00	0.00		
11	0.00	0.00	2.40	3.50	3.50	0.35	1.55	1.85	0.00	0.48	0.00	0.00		
12	0.00	0.00	2.40	3.65	3.10	0.75	1.35	1.15	0.00	0.20	0.00	0.00		
13	0.00	0.00	2.30	3.95	2.90	0.75	6.70	0.85	0.00	0.05	0.00	0.00		
14	0.00	0.00	2.40	4.70	3.00	1.20	2.90	0.60	0.00	0.10	0.00	0.00		
15	0.00	0.00	2.30	3.20	3.20	2.00	1.90	0.48	0.00	0.13	0.00	0.00		
16	0.00	0.00	2.20	2.90	3.80	1.10	1.90	0.40	0.00	0.10	0.00	0.00		
17	0.00	0.00	2.20	2.70	3.80	0.70	6.25	0.25	0.00	0.05	0.00	0.00		
18	0.00	0.00	2.40	2.50	3.00	0.85	2.25	0.30	0.00	0.00	0.00	0.00		
19	0.00	0.00	2.80	2.90	3.00	1.70	1.65	0.43	0.00	0.00	0.00	0.00		
20	0.00	0.00	2.50	2.70	2.80	5.00	1.65	0.60	0.00	0.00	0.00	0.00		
21	0.00	0.00	4.25	2.60	2.70	2.50	1.60	0.48	0.00	0.00	0.00	0.00		
22	0.00	0.00	3.30	2.80	2.70	1.60	2.60	0.38	0.00	0.00	0.00	0.00		
23	0.00	0.00	3.10	3.20	2.70	20.00	1.65	0.33	0.00	0.00	0.00	0.00		
24	0.00	0.00	4.10	3.30	3.10	9.85	1.25	0.50	0.00	0.00	0.00	0.00		
25	0.00	0.00	3.10	3.40	13.50	7.30	1.15	0.38	0.00	0.00	0.00	0.00		
26	0.00	0.00	5.00	2.80	3.65	6.40	1.05	0.30	0.00	0.00	0.00	0.00		
27	0.00	0.00	3.20	2.80	2.60	5.95	1.10	0.30	0.00	0.00	0.00	0.00		
28	0.00	0.00	3.50	3.10	1.90	5.80	0.95	0.25	0.00	0.00	0.00	0.00		
29	0.00	0.00	3.00	2.90	1.50	5.65	0.80	0.23	0.00	0.00		0.00		
30	0.00	0.00	3.20	2.80	0.50	7.15	0.75	0.18	0.00	0.00		0.00		
31		0.00		3.10	0.90		0.70		0.00	0.00		0.00		
Total	0.00	0.00	80.80	99.75	111.05	93.25	77.75	21.26	0.00	3.34	0.00	0.00	487.20	CMSDAY
Mean	0.00	0.00	2.69	3.22	3.58	3.11	2.51	0.71	0.00	0.11	0.00	0.00	1.33	CMS
Max	0.00	0.00	5.00	4.85	13.50	20.00	7.30	5.95	0.00	0.48	0.00	0.00	20.00	CMS
Min	0.00	0.00	1.45	2.50	0.50	0.35	0.70	0.18	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	6.98	8.62	9.59	8.06	6.72	1.84	0.00	0.29	0.00	0.00	42.09	MCM

Momentary Peak 46.00 CMS, at 170.30 m. (MSL.), at 06.00 Hours, on Sep 23, 2016

Runoff Yield 12.96 Liters/Second/Square KM. Momentary Peak Yield 446.600 Liters/Second/Square KM.

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Dan Chai Phatthana , Sa Kaeo (Kgt.47)

Lat 13 - 33 - 16 N Long 102 - 02 - 43 E

Location : on right bank at the bridge.

	Ban Dan Chaiphatthana **Amphoe** Khao Chakan **Changwat** Sa Kaeo
Drainge Area	1,437 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+52.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +62.000 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings
Period of Available Gage Records	2013 to date
Rating Operation	
Period of Rating	2013 to date
Rated by Flot	-
Rated by Current Meter	2013 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

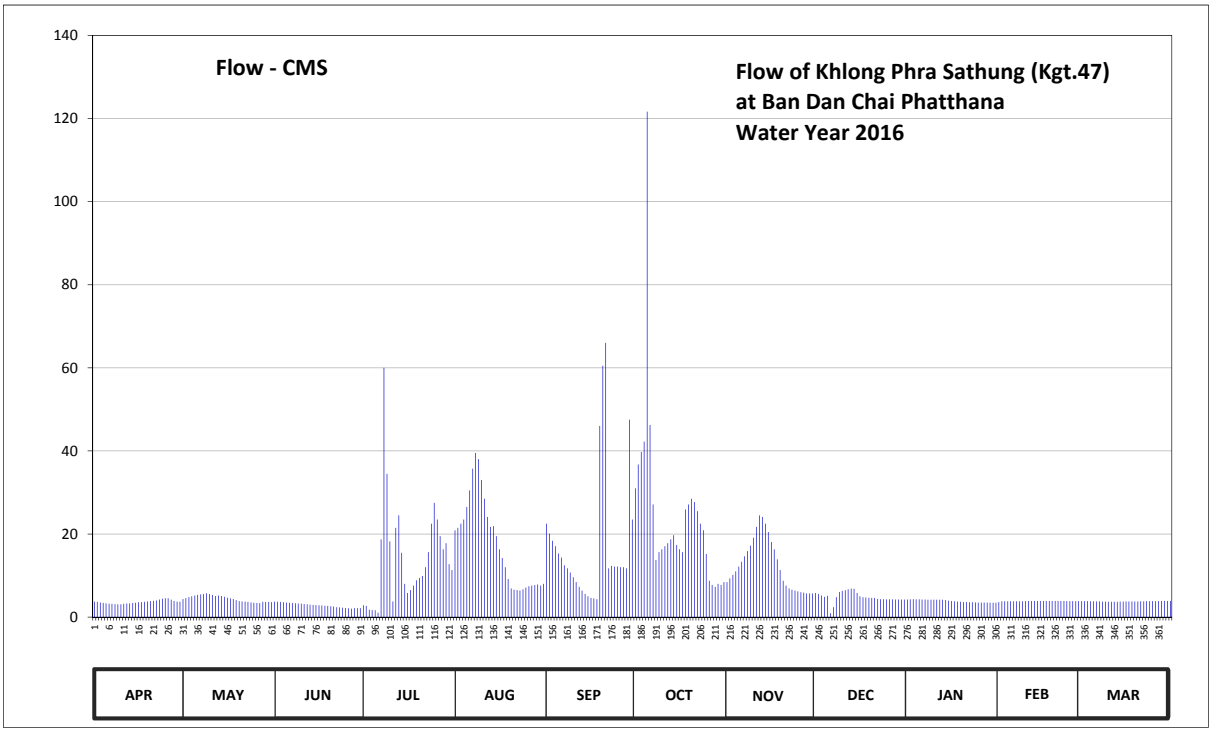
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.87	55.12	54.87	54.42	54.42	54.50	54.92	53.60	53.38	55.08	54.80	54.93	
2	54.83	55.19	54.85	54.34	54.45	54.38	55.15	53.66	53.36	55.09	54.90	54.93	
3	54.76	55.25	54.83	53.88	54.50	54.29	55.27	53.72	53.32	55.10	54.90	54.92	
4	54.72	55.30	54.79	53.85	54.55	54.20	55.37	53.78	53.29	55.09	54.90	54.91	
5	54.66	55.35	54.76	53.82	54.70	54.08	58.19	53.86	53.31	55.09	54.90	54.90	
6	54.62	55.39	54.73	53.53	54.90	54.01	55.53	53.94	53.45	55.08	54.90	54.89	
7	54.59	55.42	54.70	54.31	55.11	53.88	54.73	54.03	54.20	55.08	54.90	54.88	
8	54.56	55.45	54.67	56.08	55.26	53.83	53.97	54.12	55.25	55.07	54.90	54.87	
9	54.53	55.48	54.64	55.06	55.20	53.76	54.10	54.21	55.55	55.07	54.90	54.86	
10	54.54	55.44	54.61	54.28	55.00	53.68	54.15	54.33	55.60	55.07	54.92	54.85	
11	54.59	55.39	54.57	53.17	54.80	53.60	54.20	54.46	55.63	55.06	54.94	54.85	
12	54.63	55.32	54.54	54.45	54.58	53.52	54.25	54.60	55.68	55.06	54.95	54.85	
13	54.66	55.35	54.51	54.60	54.46	53.44	54.31	54.58	55.71	55.06	54.95	54.85	
14	54.69	55.32	54.47	54.09	54.47	53.36	54.36	54.50	55.70	55.04	54.95	54.86	
15	54.74	55.27	54.44	53.57	54.35	53.30	54.22	54.40	55.50	54.99	54.95	54.87	
16	54.78	55.21	54.43	53.38	54.15	53.26	54.15	54.27	55.30	54.95	54.95	54.88	
17	54.81	55.17	54.41	53.45	54.00	53.25	54.10	54.15	55.24	54.91	54.94	54.88	
18	54.85	55.11	54.37	53.54	53.85	53.23	54.67	53.98	55.23	54.87	54.94	54.88	
19	54.89	55.03	54.34	53.63	53.65	55.52	54.73	53.80	55.21	54.84	54.94	54.88	
20	54.93	54.92	54.31	53.67	53.49	56.10	54.80	53.62	55.20	54.81	54.94	54.89	
21	54.96	54.88	54.26	53.70	53.46	56.32	54.76	53.54	55.20	54.80	54.94	54.90	
22	55.00	54.86	54.20	53.85	53.45	53.83	54.65	53.49	55.13	54.79	54.94	54.91	
23	55.08	54.82	54.17	54.10	53.44	53.87	54.50	53.46	55.10	54.78	54.94	54.92	
24	55.14	54.77	54.13	54.50	53.47	53.86	54.42	53.44	55.10	54.77	54.93	54.93	
25	55.18	54.74	54.09	54.75	53.51	53.86	54.07	53.42	55.09	54.76	54.93	54.93	
26	55.18	54.69	54.06	54.55	53.53	53.85	53.62	53.40	55.09	54.75	54.93	54.93	
27	55.07	54.68	54.02	54.35	53.54	53.85	53.55	53.39	55.09	54.75	54.93	54.93	
28	54.95	54.85	54.07	54.15	53.55	53.83	53.52	53.37	55.08	54.75	54.93	54.94	
29	54.87	54.83	54.08	54.25	53.56	55.58	53.57	53.37	55.08	54.74		54.94	
30	54.84	54.82	54.08	53.90	53.54	54.55	53.55	53.37	55.08	54.74		54.94	
31		54.80		53.80	53.57		53.60		55.08	54.74		54.94	
Mean	54.82	55.10	54.43	54.10	54.15	54.09	54.48	53.86	54.88	54.93	54.92	54.90	
Max	55.18	55.48	54.87	56.08	55.26	56.32	58.19	54.60	55.71	55.10	54.95	54.94	58.19
Min	54.53	54.68	54.02	53.17	53.44	53.23	53.52	53.37	53.29	54.74	54.80	54.85	53.17

Annual Max Momentary Gage Height 58.60 m. (MSL.) , at 18.00 Hours, on Oct 5, 2016

Zero Gage at Bottom Elevation 52.00 m. (MSL.) , River Bed 53.10 m. (MSL.)

Left Bank Elevation 63.70 m. (MSL.) ,

Right Bank Elevation 63.79 m. (MSL.) , Drainage Are 1,437 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.74	4.36	3.74	2.84	20.90	22.50	31.00	8.44	5.80	4.24	3.60	3.86	
2	3.66	4.57	3.70	2.68	21.50	20.10	36.75	9.30	5.60	4.27	3.80	3.86	
3	3.52	4.80	3.66	1.76	22.50	18.36	39.75	10.16	5.20	4.30	3.80	3.84	
4	3.44	5.00	3.58	1.70	23.50	17.06	42.25	11.03	4.90	4.27	3.80	3.82	
5	3.32	5.20	3.52	1.64	26.50	15.34	121.65	12.18	5.10	4.27	3.80	3.80	
6	3.24	5.36	3.46	1.06	30.50	14.33	46.25	13.33	0.95	4.24	3.80	3.78	
7	3.18	5.48	3.40	18.70	35.75	12.46	27.10	14.62	2.40	4.24	3.80	3.76	
8	3.12	5.60	3.34	60.00	39.50	11.74	13.76	15.91	4.80	4.21	3.80	3.74	
9	3.06	5.72	3.28	34.50	38.00	10.74	15.63	17.21	6.05	4.21	3.80	3.72	
10	3.08	5.56	3.22	18.21	33.00	9.59	16.34	19.10	6.30	4.21	3.84	3.70	
11	3.18	5.36	3.14	3.79	28.50	8.44	17.06	21.70	6.45	4.18	3.88	3.70	
12	3.26	5.08	3.08	21.50	24.10	7.29	17.78	24.50	6.70	4.18	3.90	3.70	
13	3.32	5.20	3.02	24.50	21.70	6.40	18.70	24.10	6.85	4.18	3.90	3.70	
14	3.38	5.08	2.94	15.48	21.90	5.60	19.70	22.50	6.80	4.12	3.90	3.72	
15	3.48	4.88	2.88	8.01	19.50	5.00	17.35	20.50	5.80	3.98	3.90	3.74	
16	3.56	4.64	2.86	5.80	16.34	4.60	16.34	18.07	5.00	3.90	3.90	3.76	
17	3.62	4.51	2.82	6.50	14.19	4.50	15.63	16.34	4.76	3.82	3.88	3.76	
18	3.70	4.33	2.74	7.58	12.03	4.30	25.90	13.90	4.72	3.74	3.88	3.76	
19	3.78	4.09	2.68	8.87	9.16	46.00	27.10	11.31	4.64	3.68	3.88	3.76	
20	3.86	3.84	2.62	9.44	6.90	60.50	28.50	8.73	4.60	3.62	3.88	3.78	
21	3.92	3.76	2.52	9.88	6.60	66.00	27.70	7.58	4.60	3.60	3.88	3.80	
22	4.00	3.72	2.40	12.03	6.50	11.74	25.50	6.90	4.39	3.58	3.88	3.82	
23	4.24	3.64	2.34	15.63	6.40	12.32	22.50	6.60	4.30	3.56	3.88	3.84	
24	4.42	3.54	2.26	22.50	6.70	12.18	20.90	6.40	4.30	3.54	3.86	3.86	
25	4.54	3.48	2.18	27.50	7.14	12.18	15.19	6.20	4.27	3.52	3.86	3.86	
26	4.54	3.38	2.12	23.50	7.43	12.03	8.73	6.00	4.27	3.50	3.86	3.86	
27	4.21	3.36	2.04	19.50	7.58	12.03	7.72	5.90	4.27	3.50	3.86	3.86	
28	3.90	3.70	2.14	16.34	7.72	11.74	7.29	5.70	4.24	3.50	3.86	3.88	
29	3.74	3.66	2.16	17.78	7.86	47.50	8.01	5.70	4.24	3.48		3.88	
30	3.68	3.64	2.16	12.75	7.58	23.50	7.72	5.70	4.24	3.48		3.88	
31		3.60		11.31	8.01		8.44		4.24	3.48		3.88	
Total	109.69	138.14	86.00	443.28	545.49	526.07	754.24	375.61	150.78	120.60	107.68	117.68	3475.26	CMSDAY
Mean	3.66	4.46	2.87	14.30	17.60	17.54	24.33	12.52	4.86	3.89	3.85	3.80	9.52	CMS
Max	4.54	5.72	3.74	60.00	39.50	66.00	121.65	24.50	6.85	4.30	3.90	3.88	121.65	CMS
Min	3.06	3.36	2.04	1.06	6.40	4.30	7.29	5.70	0.95	3.48	3.60	3.70	0.95	CMS
Runoff	9.48	11.94	7.43	38.30	47.13	45.45	65.17	32.45	13.03	10.42	9.30	10.17	300.26	MCM

Momentary Peak 136.00 CMS, at 58.60 m. (MSL.), at 18.00 Hours, on Oct 5, 2016

Runoff Yield 6.63 Liters/Second/Square KM. Momentary Peak Yield 94.710 Liters/Second/Square KM.

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Nakhon Nayok River at Ban Khao Nang Buat , Nakhon Nayok (Ny.1B)

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

Location : on right bank about 700 meters upstream from Ny.1

Ban Khao Nang Buat **Amphoe** Mueang **Changwat** Nakhon Nayok

Drainge Area	521 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 200 meters from the staff gage. **Elevation** +8.758 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1973 - 1980 , 1991 to date
Rated by Flot	-
Rated by Current Meter	1973 - 1980 , 1991 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

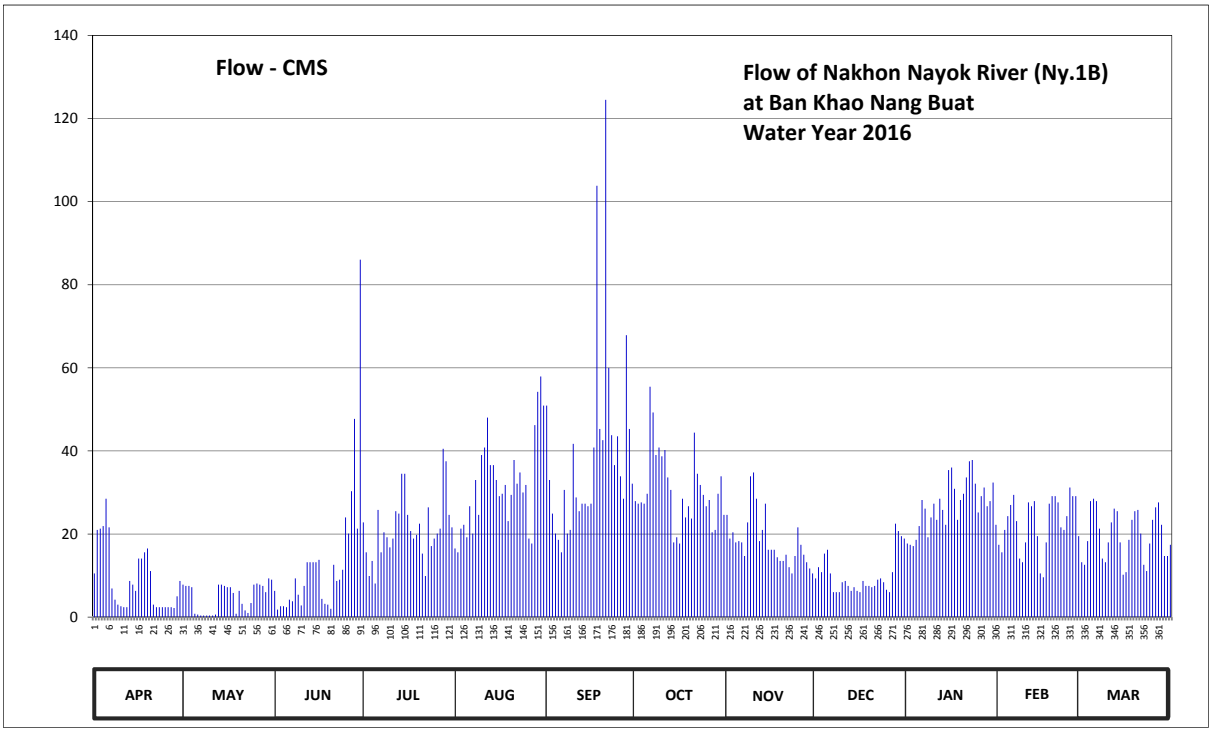
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.05	3.96	3.91	4.46	4.25	5.37	4.63	4.52	4.01	4.29	4.28	4.14	
2	4.40	3.95	3.69	4.22	4.22	4.80	4.61	4.33	4.10	4.28	4.22	4.12	
3	4.41	3.95	3.73	4.03	4.41	4.53	4.62	4.38	4.06	4.27	4.40	4.31	
4	4.43	3.94	3.73	4.15	4.44	4.37	4.61	4.30	4.21	4.32	4.51	4.63	
5	4.65	3.64	3.72	3.97	4.34	4.32	4.69	4.31	4.24	4.43	4.60	4.65	
6	4.42	3.63	3.81	4.56	4.59	4.22	5.48	4.30	4.05	4.64	4.68	4.63	
7	3.93	3.62	3.79	4.22	4.37	4.72	5.33	4.19	3.90	4.57	4.47	4.41	
8	3.81	3.62	4.01	4.38	4.80	4.37	5.00	4.46	3.90	4.34	4.17	4.17	
9	3.75	3.62	3.87	4.34	4.52	4.40	5.06	4.83	3.90	4.50	4.14	4.14	
10	3.73	3.62	3.74	4.26	5.00	5.09	4.99	4.86	3.98	4.61	4.30	4.30	
11	3.72	3.62	3.95	4.33	5.06	4.66	5.04	4.65	3.99	4.48	4.62	4.46	
12	3.72	3.63	4.14	4.55	5.30	4.55	4.82	4.31	3.95	4.65	4.59	4.57	
13	3.99	3.96	4.14	4.53	4.92	4.61	4.72	4.40	3.91	4.56	4.63	4.55	
14	3.96	3.96	4.14	4.85	4.92	4.61	4.30	4.61	3.94	4.44	4.35	4.30	
15	3.91	3.95	4.14	4.85	4.80	4.59	4.34	4.24	3.91	4.88	4.05	4.04	
16	4.17	3.94	4.16	4.52	4.67	4.61	4.29	4.24	3.90	4.90	4.02	4.06	
17	4.17	3.94	3.82	4.39	4.69	5.06	4.65	4.24	3.99	4.73	4.30	4.32	
18	4.22	3.89	3.76	4.33	4.76	6.65	4.50	4.18	3.95	4.48	4.61	4.48	
19	4.25	3.64	3.75	4.36	4.47	5.21	4.59	4.15	3.95	4.64	4.67	4.55	
20	4.07	3.91	3.70	4.45	4.68	5.12	4.49	4.15	3.94	4.69	4.67	4.56	
21	3.75	3.76	4.12	4.21	4.96	7.09	5.18	4.20	3.95	4.82	4.62	4.37	
22	3.72	3.68	3.99	4.03	4.77	5.59	4.85	4.10	4.00	4.95	4.42	4.12	
23	3.72	3.65	4.00	4.58	4.86	5.16	4.76	4.05	4.01	4.96	4.40	4.07	
24	3.72	3.77	4.08	4.27	4.70	4.92	4.68	4.19	3.98	4.77	4.51	4.29	
25	3.72	3.96	4.50	4.33	4.76	5.15	4.59	4.42	3.92	4.54	4.74	4.48	
26	3.72	3.97	4.37	4.37	4.33	4.83	4.64	4.28	3.90	4.67	4.67	4.58	
27	3.72	3.96	4.71	4.41	4.29	4.65	4.38	4.20	4.06	4.74	4.67	4.62	
28	3.71	3.95	5.29	5.05	5.24	5.78	4.40	4.14	4.45	4.59	4.35	4.44	
29	3.85	3.90	4.41	4.95	5.45	5.21	4.69	4.09	4.39	4.63		4.19	
30	3.99	4.01	6.22	4.52	5.54	4.77	4.83	4.05	4.35	4.78		4.19	
31		4.00		4.42	5.37		4.52		4.33	4.44		4.28	
Mean	3.98	3.83	4.11	4.42	4.76	4.97	4.72	4.31	4.04	4.60	4.45	4.36	
Max	4.65	4.01	6.22	5.05	5.54	7.09	5.48	4.86	4.45	4.96	4.74	4.65	7.09
Min	3.71	3.62	3.69	3.97	4.22	4.22	4.29	4.05	3.90	4.27	4.02	4.04	3.62

Annual Max Momentary Gage Height 7.42 m. (MSL.) , at 06.00 Hours , on Sep 21 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 2.64 m. (MSL.)

Left Bank Elevation 10.98 m. (MSL.) ,

Right Bank Elevation 10.12 m. (MSL.) , Drainage Are 521 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.50	7.80	6.30	22.80	16.50	50.89	27.90	24.60	9.30	17.70	17.40	13.20	
2	21.00	7.50	1.80	15.60	15.60	33.00	27.30	18.90	12.00	17.40	15.60	12.60	
3	21.30	7.50	2.60	9.90	21.30	24.90	27.60	20.40	10.80	17.10	21.00	18.30	
4	21.90	7.20	2.60	13.50	22.20	20.10	27.30	18.00	15.30	18.60	24.30	27.90	
5	28.50	0.80	2.40	8.10	19.20	18.60	29.70	18.30	16.20	21.90	27.00	28.50	
6	21.60	0.60	4.20	25.80	26.70	15.60	55.44	18.00	10.50	28.20	29.40	27.90	
7	6.90	0.40	3.80	15.60	20.10	30.60	49.24	14.70	6.00	26.10	23.10	21.30	
8	4.20	0.40	9.30	20.40	33.00	20.10	39.00	22.80	6.00	19.20	14.10	14.10	
9	3.00	0.40	5.40	19.20	24.60	21.00	40.80	33.90	6.00	24.00	13.20	13.20	
10	2.60	0.40	2.80	16.80	39.00	41.70	38.70	34.80	8.40	27.30	18.00	18.00	
11	2.40	0.40	7.50	18.90	40.80	28.80	40.20	28.50	8.70	23.40	27.60	22.80	
12	2.40	0.60	13.20	25.50	48.00	25.50	33.60	18.30	7.50	28.50	26.70	26.10	
13	8.70	7.80	13.20	24.90	36.60	27.30	30.60	21.00	6.30	25.80	27.90	25.50	
14	7.80	7.80	13.20	34.50	36.60	27.30	18.00	27.30	7.20	22.20	19.50	18.00	
15	6.30	7.50	13.20	34.50	33.00	26.70	19.20	16.20	6.30	35.40	10.50	10.20	
16	14.10	7.20	13.80	24.60	29.10	27.30	17.70	16.20	6.00	36.00	9.60	10.80	
17	14.10	7.20	4.40	20.70	29.70	40.80	28.50	16.20	8.70	30.90	18.00	18.60	
18	15.60	5.80	3.20	18.90	31.80	103.80	24.00	14.40	7.50	23.40	27.30	23.40	
19	16.50	0.80	3.00	19.80	23.10	45.30	26.70	13.50	7.50	28.20	29.10	25.50	
20	11.10	6.30	2.00	22.50	29.40	42.60	23.70	13.50	7.20	29.70	29.10	25.80	
21	3.00	3.20	12.60	15.30	37.80	124.50	44.40	15.00	7.50	33.60	27.60	20.10	
22	2.40	1.60	8.70	9.90	32.10	59.99	34.50	12.00	9.00	37.50	21.60	12.60	
23	2.40	1.00	9.00	26.40	34.80	43.80	31.80	10.50	9.30	37.80	21.00	11.10	
24	2.40	3.40	11.40	17.10	30.00	36.60	29.40	14.70	8.40	32.10	24.30	17.70	
25	2.40	7.80	24.00	18.90	31.80	43.50	26.70	21.60	6.60	25.20	31.20	23.40	
26	2.40	8.10	20.10	20.10	18.90	33.90	28.20	17.40	6.00	29.10	29.10	26.40	
27	2.40	7.80	30.30	21.30	17.70	28.50	20.40	15.00	10.80	31.20	29.10	27.60	
28	2.20	7.50	47.70	40.50	46.20	67.84	21.00	13.20	22.50	26.70	19.50	22.20	
29	5.00	6.00	21.30	37.50	54.20	45.30	29.70	11.70	20.70	27.90		14.70	
30	8.70	9.30	86.03	24.60	57.92	32.10	33.90	10.50	19.50	32.40		14.70	
31		9.00		21.60	50.89		24.60		18.90	22.20		17.40	
Total	273.80	149.10	399.03	665.70	988.61	1187.92	949.78	551.10	312.60	836.70	631.80	609.60	7555.74 CMSDAY
Mean	9.13	4.81	13.30	21.47	31.89	39.60	30.64	18.37	10.08	26.99	22.56	19.66	20.70 CMS
Max	28.50	9.30	86.03	40.50	57.92	124.50	55.44	34.80	22.50	37.80	31.20	28.50	124.50 CMS
Min	2.20	0.40	1.80	8.10	15.60	15.60	17.70	10.50	6.00	17.10	9.60	10.20	0.40 CMS
Runoff	23.66	12.88	34.48	57.52	85.42	102.64	82.06	47.62	27.01	72.29	54.59	52.67	652.82 MCM

Momentary Peak 141.00 CMS. at 7.42 m. (MSL.) at 06.00 Hours , on Sep 21 , 2016

Runoff Yield 39.73 Liters/Second/Square KM. Momentary Peak Yield 270.630 Liters/Second/Square KM.

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

Ban Pa Kha **Amphoe** Ban Na **Changwat** Nakhon Nayok

Drainge Area	203 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+6.330 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	About 10 meters from the top staff gage. **Elevation** +12.695 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1977 to date
Rating Operation	
Period of Rating	1977 - 1978 , 1980, 1988 to date
Rated by Flot	-
Rated by Current Meter	1977 - 1978 , 1980, 1988 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

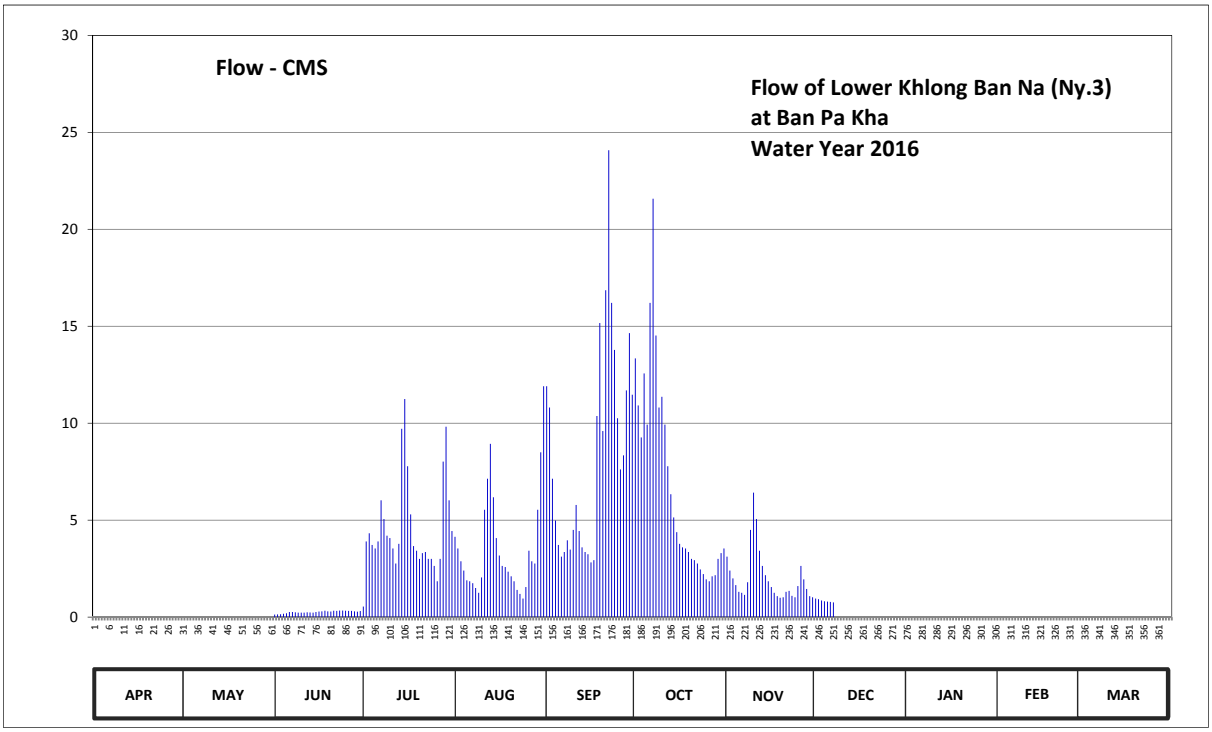
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	7.41	7.13	7.52	8.34	9.21	9.34	8.17	7.73	8.09	8.07	7.74	
2	7.78	7.40	7.14	8.30	8.24	9.11	9.12	8.05	7.71	8.09	8.07	7.72	
3	7.74	7.40	7.15	8.37	8.13	8.73	8.97	7.98	7.68	8.08	8.06	7.70	
4	7.74	7.39	7.17	8.27	8.05	8.46	9.27	7.91	7.66	8.07	8.06	7.68	
5	7.73	7.39	7.20	8.24	7.96	8.27	9.03	7.84	7.65	8.05	8.06	7.67	
6	7.71	7.37	7.26	8.30	7.95	8.17	9.57	7.83	7.64	8.09	8.06	7.66	
7	7.69	7.37	7.26	8.59	7.93	8.21	9.97	7.81	7.63	8.08	8.05	7.65	
8	7.69	7.36	7.25	8.47	7.88	8.31	9.44	7.94	7.73	8.08	8.04	7.64	
9	7.69	7.35	7.23	8.35	7.83	8.23	9.11	8.40	7.98	8.08	8.03	7.62	
10	7.67	7.34	7.23	8.33	7.99	8.40	9.16	8.64	7.97	8.08	8.02	7.60	
11	7.66	7.33	7.23	8.24	8.53	8.56	9.03	8.47	8.19	8.08	8.01	7.58	
12	7.65	7.30	7.25	8.11	8.73	8.39	8.81	8.22	8.29	8.08	8.00	7.56	
13	7.65	7.27	7.24	8.28	8.94	8.25	8.63	8.09	8.20	8.08	7.98	7.54	
14	7.64	7.26	7.23	9.01	8.61	8.21	8.48	8.01	8.20	8.08	7.96	7.53	
15	7.64	7.24	7.26	9.15	8.33	8.19	8.38	7.95	8.20	8.08	7.94	7.52	
16	7.63	7.23	7.29	8.81	8.18	8.12	8.28	7.89	8.19	8.05	7.92	7.49	
17	7.62	7.22	7.30	8.50	8.09	8.14	8.25	7.83	8.19	8.04	7.90	7.46	
18	7.58	7.21	7.33	8.26	8.08	9.07	8.24	7.79	8.17	8.04	7.89	7.45	
19	7.58	7.20	7.30	8.22	8.04	9.49	8.21	7.75	8.16	8.03	7.88	7.45	
20	7.56	7.20	7.29	8.15	8.00	9.00	8.15	7.76	8.16	8.02	7.86	7.44	
21	7.54	7.21	7.33	8.20	7.95	9.62	8.14	7.84	8.15	8.02	7.85	7.43	
22	7.53	7.20	7.32	8.21	7.86	10.13	8.11	7.85	8.15	8.02	7.83	7.41	
23	7.51	7.19	7.34	8.15	7.82	9.57	8.06	7.80	8.15	8.02	7.82	7.39	
24	7.50	7.20	7.34	8.15	7.73	9.38	8.02	7.76	8.15	8.01	7.80	7.40	
25	7.48	7.19	7.33	8.09	7.89	9.06	7.97	7.90	8.14	8.00	7.78	7.42	
26	7.46	7.18	7.32	7.95	8.22	8.79	7.95	8.09	8.13	8.00	7.77	7.41	
27	7.44	7.17	7.32	8.15	8.13	8.88	8.00	7.97	8.13	8.05	7.76	7.40	
28	7.43	7.17	7.30	8.84	8.11	9.19	8.01	7.87	8.12	8.06	7.75	7.41	
29	7.43	7.16	7.28	9.02	8.53	9.45	8.15	7.79	8.11	8.07		7.41	
30	7.43	7.15	7.31	8.59	8.90	9.17	8.20	7.76	8.09	8.06		7.41	
31		7.14		8.39	9.21		8.24		8.09	8.06		7.40	
Mean	7.61	7.26	7.26	8.36	8.20	8.79	8.59	7.97	8.02	8.06	7.94	7.52	
Max	7.80	7.41	7.34	9.15	9.21	10.13	9.97	8.64	8.29	8.09	8.07	7.74	10.13
Min	7.43	7.14	7.13	7.52	7.73	8.12	7.95	7.75	7.63	8.00	7.75	7.39	7.13

Annual Max Momentary Gage Height 10.26 m. (MSL.) , at 06.00 Hours , on Sep 22 , 2016

Zero Gage at Bottom Elevation 6.33 m. (MSL.) , River Bed 6.96 m. (MSL.)

Left Bank Elevation 13.51 m. (MSL.) ,

Right Bank Elevation 13.58 m. (MSL.) , Drainage Are 203 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.13	0.54	4.14	11.91	13.34	3.12	0.96	0.00	0.00	0.00	
2	0.00	0.00	0.14	3.90	3.54	10.81	10.92	2.40	0.92	0.00	0.00	0.00	
3	0.00	0.00	0.15	4.32	2.88	7.14	9.27	2.00	0.86	0.00	0.00	0.00	
4	0.00	0.00	0.17	3.72	2.40	4.98	12.57	1.65	0.82	0.00	0.00	0.00	
5	0.00	0.00	0.20	3.54	1.90	3.72	9.93	1.30	0.80	0.00	0.00	0.00	
6	0.00	0.00	0.26	3.90	1.85	3.12	16.21	1.25	0.78	0.00	0.00	0.00	
7	0.00	0.00	0.26	6.02	1.75	3.36	21.58	1.15	0.76	0.00	0.00	0.00	
8	0.00	0.00	0.25	5.06	1.50	3.96	14.52	1.80	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.23	4.20	1.25	3.48	10.81	4.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.23	4.08	2.05	4.50	11.36	6.42	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.23	3.54	5.54	5.78	9.93	5.06	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.25	2.76	7.14	4.44	7.78	3.42	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.24	3.78	8.94	3.60	6.34	2.64	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.23	9.71	6.18	3.36	5.14	2.16	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.26	11.25	4.08	3.24	4.38	1.85	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.29	7.78	3.18	2.82	3.78	1.55	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.30	5.30	2.64	2.94	3.60	1.25	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.33	3.66	2.58	10.37	3.54	1.08	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.30	3.42	2.34	15.17	3.36	1.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.29	3.00	2.10	9.60	3.00	1.02	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.33	3.30	1.85	16.86	2.94	1.30	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.32	3.36	1.40	24.08	2.76	1.35	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.34	3.00	1.20	16.21	2.46	1.10	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.34	3.00	0.96	13.78	2.22	1.02	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.33	2.64	1.55	10.26	1.95	1.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.32	1.85	3.42	7.62	1.85	2.64	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.32	3.00	2.88	8.34	2.10	1.95	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.30	8.02	2.76	11.69	2.16	1.45	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.28	9.82	5.54	14.65	3.00	1.08	0.00	0.00		0.00	
30	0.00	0.00	0.31	6.02	8.50	11.47	3.30	1.02	0.00	0.00		0.00	
31		0.00		4.44	11.91		3.54		0.00	0.00		0.00	
Total	0.00	0.00	7.93	141.93	109.95	253.26	209.64	61.13	5.90	0.00	0.00	0.00	789.74	CMSDAY
Mean	0.00	0.00	0.26	4.58	3.55	8.44	6.76	2.04	0.19	0.00	0.00	0.00	2.16	CMS
Max	0.00	0.00	0.34	11.25	11.91	24.08	21.58	6.42	0.96	0.00	0.00	0.00	24.08	CMS
Min	0.00	0.00	0.13	0.54	0.96	2.82	1.85	1.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.69	12.26	9.50	21.88	18.11	5.28	0.51	0.00	0.00	0.00	68.23	MCM

Momentary Peak 26.16 CMS. at 10.26 m. (MSL.) at 06.00 Hours , on Sep 22 , 2016

Runoff Yield 10.66 Liters/Second/Square KM. Momentary Peak Yield 128.870 Liters/Second/Square KM.

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

Ban Noen Hom **Amphoe** Mueang **Changwat** Prachin Buri

Drainge Area	128 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+376.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +382.580 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Flot	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

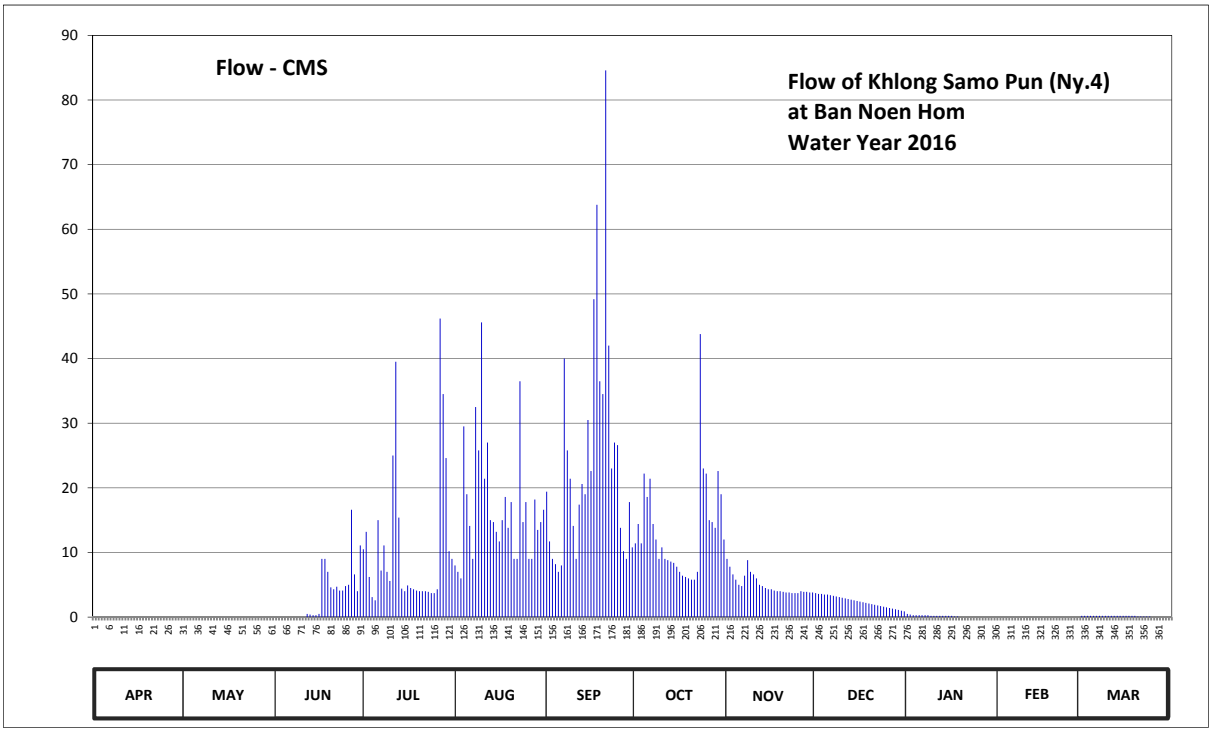
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.39	376.36	376.37	377.15	377.05	377.41	377.18	377.10	376.77	376.45	376.39	376.42	
2	376.39	376.36	376.37	377.24	377.00	377.19	377.28	377.04	376.76	376.44	376.39	376.42	
3	376.39	376.36	376.37	376.96	376.95	377.10	377.18	376.98	376.76	376.43	376.38	376.42	
4	376.39	376.36	376.37	376.71	377.65	377.06	377.48	376.94	376.75	376.43	376.38	376.42	
5	376.39	376.36	376.37	376.66	377.40	377.00	377.39	376.90	376.75	376.43	376.38	376.42	
6	376.39	376.36	376.37	377.30	377.27	377.05	377.46	376.88	376.74	376.43	376.38	376.42	
7	376.38	376.36	376.37	377.01	377.10	377.86	377.28	376.97	376.73	376.43	376.38	376.42	
8	376.38	376.36	376.37	377.17	377.71	377.57	377.20	377.09	376.72	376.43	376.38	376.42	
9	376.38	376.36	376.37	377.00	377.57	377.46	377.10	377.00	376.71	376.42	376.38	376.42	
10	376.38	376.36	376.37	376.93	377.96	377.27	377.16	376.98	376.70	376.42	376.38	376.42	
11	376.38	376.36	376.37	377.55	377.46	377.10	377.10	376.95	376.69	376.42	376.38	376.42	
12	376.38	376.36	376.45	377.85	377.60	377.36	377.09	376.90	376.68	376.42	376.37	376.42	
13	376.38	376.36	376.44	377.31	377.30	377.44	377.08	376.88	376.67	376.42	376.37	376.42	
14	376.38	376.36	376.43	376.84	377.29	377.40	377.07	376.85	376.66	376.42	376.37	376.42	
15	376.38	376.36	376.43	376.80	377.24	377.67	377.04	376.83	376.65	376.42	376.37	376.42	
16	376.38	376.36	376.45	376.89	377.19	377.49	377.00	376.83	376.64	376.42	376.36	376.42	
17	376.38	376.36	377.10	376.85	377.30	378.02	376.97	376.81	376.63	376.41	376.36	376.42	
18	376.38	376.36	377.10	376.83	377.39	378.24	376.96	376.80	376.62	376.41	376.36	376.42	
19	376.38	376.36	377.00	376.81	377.26	377.79	376.95	376.80	376.61	376.40	376.36	376.42	
20	376.37	376.36	376.86	376.80	377.37	377.75	376.94	376.79	376.60	376.40	376.36	376.41	
21	376.37	376.36	376.83	376.80	377.10	378.52	376.94	376.78	376.59	376.40	376.35	376.41	
22	376.37	376.36	376.87	376.80	377.10	377.90	377.00	376.78	376.58	376.40	376.35	376.41	
23	376.37	376.36	376.81	376.79	377.79	377.50	377.93	376.77	376.57	376.40	376.35	376.41	
24	376.37	376.36	376.81	376.77	377.29	377.60	377.50	376.77	376.56	376.40	376.35	376.41	
25	376.37	376.36	376.88	376.77	377.37	377.59	377.48	376.77	376.55	376.40	376.35	376.40	
26	376.37	376.36	376.90	376.83	377.10	377.26	377.30	376.80	376.54	376.40	376.34	376.40	
27	376.37	376.37	377.34	377.97	377.10	377.14	377.29	376.79	376.53	376.40	376.34	376.40	
28	376.37	376.37	376.98	377.75	377.38	377.10	377.26	376.79	376.52	376.40	376.34	376.40	
29	376.36	376.37	376.80	377.54	377.25	377.37	377.49	376.78	376.51	376.40		376.40	
30	376.36	376.37	377.17	377.14	377.29	377.16	377.40	376.78	376.50	376.39		376.39	
31		376.37		377.10	377.34		377.20		376.49	376.39		376.39	
Mean	376.38	376.36	376.66	377.06	377.33	377.48	377.22	376.87	376.64	376.41	376.37	376.41	
Max	376.39	376.37	377.34	377.97	377.96	378.52	377.93	377.10	376.77	376.45	376.39	376.42	378.52
Min	376.36	376.36	376.37	376.66	376.95	377.00	376.94	376.77	376.49	376.39	376.34	376.39	376.34

Annual Max Momentary Gage Height 378.90 m. (MSL.) , at 06.00 Hours , on Sep 21 , 2016

Zero Gage at Bottom Elevation 376.10 m. (MSL.) , River Bed 374.95 m. (MSL.)

Left Bank Elevation 379.13 m. (MSL.) ,

Right Bank Elevation 380.02 m. (MSL.) , Drainage Are 128 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	10.50	8.00	19.40	11.40	9.00	3.70	0.50	0.00	0.20		
2	0.00	0.00	0.00	13.20	7.00	11.70	14.40	7.80	3.60	0.40	0.00	0.20		
3	0.00	0.00	0.00	6.20	6.00	9.00	11.40	6.60	3.60	0.30	0.00	0.20		
4	0.00	0.00	0.00	3.10	29.50	8.20	22.20	5.80	3.50	0.30	0.00	0.20		
5	0.00	0.00	0.00	2.60	19.00	7.00	18.60	5.00	3.50	0.30	0.00	0.20		
6	0.00	0.00	0.00	15.00	14.10	8.00	21.40	4.80	3.40	0.30	0.00	0.20		
7	0.00	0.00	0.00	7.20	9.00	40.00	14.40	6.40	3.30	0.30	0.00	0.20		
8	0.00	0.00	0.00	11.10	32.50	25.80	12.00	8.80	3.20	0.30	0.00	0.20		
9	0.00	0.00	0.00	7.00	25.80	21.40	9.00	7.00	3.10	0.20	0.00	0.20		
10	0.00	0.00	0.00	5.60	45.60	14.10	10.80	6.60	3.00	0.20	0.00	0.20		
11	0.00	0.00	0.00	25.00	21.40	9.00	9.00	6.00	2.90	0.20	0.00	0.20		
12	0.00	0.00	0.50	39.50	27.00	17.40	8.80	5.00	2.80	0.20	0.00	0.20		
13	0.00	0.00	0.40	15.40	15.00	20.60	8.60	4.80	2.70	0.20	0.00	0.20		
14	0.00	0.00	0.30	4.40	14.70	19.00	8.40	4.50	2.60	0.20	0.00	0.20		
15	0.00	0.00	0.30	4.00	13.20	30.50	7.80	4.30	2.50	0.20	0.00	0.20		
16	0.00	0.00	0.50	4.90	11.70	22.60	7.00	4.30	2.40	0.20	0.00	0.20		
17	0.00	0.00	9.00	4.50	15.00	49.20	6.40	4.10	2.30	0.10	0.00	0.20		
18	0.00	0.00	9.00	4.30	18.60	63.80	6.20	4.00	2.20	0.10	0.00	0.20		
19	0.00	0.00	7.00	4.10	13.80	36.50	6.00	4.00	2.10	0.00	0.00	0.20		
20	0.00	0.00	4.60	4.00	17.80	34.50	5.80	3.90	2.00	0.00	0.00	0.10		
21	0.00	0.00	4.30	4.00	9.00	84.60	5.80	3.80	1.90	0.00	0.00	0.10		
22	0.00	0.00	4.70	4.00	9.00	42.00	7.00	3.80	1.80	0.00	0.00	0.10		
23	0.00	0.00	4.10	3.90	36.50	23.00	43.80	3.70	1.70	0.00	0.00	0.10		
24	0.00	0.00	4.10	3.70	14.70	27.00	23.00	3.70	1.60	0.00	0.00	0.10		
25	0.00	0.00	4.80	3.70	17.80	26.60	22.20	3.70	1.50	0.00	0.00	0.00		
26	0.00	0.00	5.00	4.30	9.00	13.80	15.00	4.00	1.40	0.00	0.00	0.00		
27	0.00	0.00	16.60	46.20	9.00	10.20	14.70	3.90	1.30	0.00	0.00	0.00		
28	0.00	0.00	6.60	34.50	18.20	9.00	13.80	3.90	1.20	0.00	0.00	0.00		
29	0.00	0.00	4.00	24.60	13.50	17.80	22.60	3.80	1.10	0.00		0.00		
30	0.00	0.00	11.10	10.20	14.70	10.80	19.00	3.80	1.00	0.00		0.00		
31		0.00		9.00	16.60		12.00		0.90	0.00		0.00		
Total	0.00	0.00	96.90	339.70	532.70	732.50	418.50	150.80	73.80	4.50	0.00	4.30	2353.70	CMSDAY
Mean	0.00	0.00	3.23	10.96	17.18	24.42	13.50	5.03	2.38	0.15	0.00	0.14	6.45	CMS
Max	0.00	0.00	16.60	46.20	45.60	84.60	43.80	9.00	3.70	0.50	0.00	0.20	84.60	CMS
Min	0.00	0.00	0.00	2.60	6.00	7.00	5.80	3.70	0.90	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	8.37	29.35	46.03	63.29	36.16	13.03	6.38	0.39	0.00	0.37	203.36	MCM

Momentary Peak 119.00 CMS. at 378.90 m. (MSL.) at 06.00 Hours , on Sep 21, 2016

Runoff Yield 50.38 Liters/Second/Square KM. Momentary Peak Yield 929.690 Liters/Second/Square KM.

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	**Amphoe** Kaeng Khoi	**Changwat** Saraburi
Drainge Area	126 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+29.600 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 50 meters from the top staff gage.	**Elevation**	+34.960 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1988 to date		
Rating Operation			
Period of Rating	1988 to date		
Rated by Flot	-		
Rated by Current Meter	1988 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

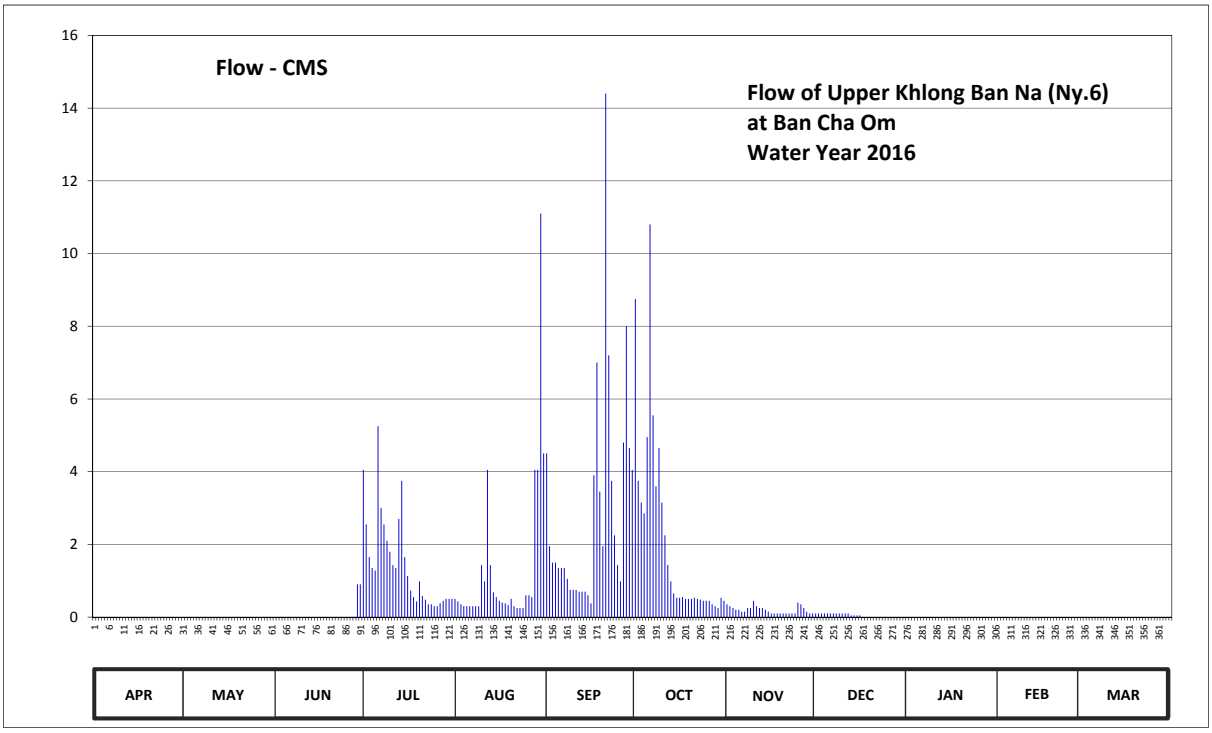
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				30.57	30.20	30.60	30.83	30.14	30.04	30.70	30.70	30.06	
2				30.47	30.17	30.43	30.55	30.12	30.04	30.70	30.70	30.05	
3				30.41	30.14	30.40	30.51	30.10	30.04	30.70	30.70	30.05	
4				30.38	30.12	30.40	30.49	30.08	30.04	30.70	30.68	30.04	
5				30.37	30.12	30.38	30.63	30.08	30.04	30.70	30.68	30.04	
6				30.65	30.12	30.38	30.91	30.06	30.04	30.70	30.68	30.04	
7			30.30	30.50	30.12	30.38	30.67	30.06	30.04	30.74	30.68	30.02	
8			30.30	30.47	30.12	30.34	30.54	30.10	30.04	30.74	30.68	30.00	
9			30.30	30.44	30.12	30.30	30.61	30.10	30.04	30.74	30.68	30.00	
10			30.30	30.42	30.39	30.30	30.51	30.18	30.04	30.74	30.68	30.00	
11			30.30	30.39	30.33	30.30	30.45	30.12	30.04	30.74	30.68	29.98	
12			30.30	30.38	30.57	30.28	30.39	30.10	30.04	30.70	30.68	29.98	
13			30.30	30.48	30.39	30.28	30.33	30.10	30.02	30.70	30.68	29.96	
14			30.30	30.55	30.27	30.28	30.26	30.08	30.02	30.70	30.64	29.96	
15			30.30	30.41	30.22	30.24	30.21	30.06	30.02	30.70	30.64	29.94	
16			30.30	30.35	30.18	30.15	30.21	30.04	30.02	30.70	30.42	29.94	
17			30.30	30.29	30.16	30.56	30.22	30.04	30.02	30.70	30.42	29.94	
18			30.30	30.22	30.15	30.75	30.20	30.04	30.10	30.70	30.30	29.94	
19			30.30	30.17	30.13	30.53	30.20	30.04	30.10	30.70	30.26	29.94	
20			30.30	30.33	30.20	30.43	30.20	30.04	30.60	30.70	30.20	29.94	
21			30.30	30.23	30.12	31.03	30.21	30.04	30.66	30.70	30.16	29.94	
22			30.30	30.19	30.10	30.76	30.20	30.04	30.66	30.70	30.10	29.94	
23			30.30	30.14	30.10	30.55	30.19	30.04	30.66	30.70	30.08	29.94	
24			30.30	30.14	30.10	30.45	30.18	30.04	30.66	30.70	30.08	29.94	
25			30.30	30.12	30.24	30.39	30.18	30.16	30.66	30.70	30.06	29.94	
26			30.30	30.12	30.24	30.33	30.18	30.14	30.70	30.70	30.06	29.94	
27			30.30	30.15	30.22	30.62	30.14	30.10	30.70	30.70	30.06	29.94	
28			30.30	30.18	30.57	30.80	30.12	30.06	30.70	30.70	30.06	29.94	
29			30.32	30.20	30.57	30.61	30.10	30.04	30.70	30.70		29.94	
30			30.32	30.20	30.92	30.57	30.21	30.04	30.70	30.70		29.92	
31				30.20	30.60		30.18		30.70	30.70		29.92	
Mean			30.30	30.33	30.26	30.46	30.35	30.08	30.29	30.71	30.44	29.97	
Max			30.32	30.65	30.92	31.03	30.91	30.18	30.70	30.74	30.70	30.06	31.03
Min			30.30	30.12	30.10	30.15	30.10	30.04	30.02	30.70	30.06	29.92	29.92

Annual Max Momentary Gage Height 31.06 m. (MSL.) , at 06.00 Hours , on Sep 21 , 2016

Zero Gage at Bottom Elevation 29.60 m. (MSL.) , River Bed 29.98 m. (MSL.)

Left Bank Elevation 33.78 m. (MSL.) ,

Right Bank Elevation 34.25 m. (MSL.) , Drainage Are 126 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1				4.05	0.50	4.50	8.75	0.35	0.10	0.00	0.00	0.00		
2				2.55	0.43	1.95	3.75	0.30	0.10	0.00	0.00	0.00		
3				1.65	0.35	1.50	3.15	0.25	0.10	0.00	0.00	0.00		
4				1.35	0.30	1.50	2.85	0.20	0.10	0.00	0.00	0.00		
5				1.28	0.30	1.35	4.95	0.20	0.10	0.00	0.00	0.00		
6				5.25	0.30	1.35	10.80	0.15	0.10	0.00	0.00	0.00		
7			0.00	3.00	0.30	1.35	5.55	0.15	0.10	0.00	0.00	0.00		
8			0.00	2.55	0.30	1.05	3.60	0.25	0.10	0.00	0.00	0.00		
9			0.00	2.10	0.30	0.75	4.65	0.25	0.10	0.00	0.00	0.00		
10			0.00	1.80	1.43	0.75	3.15	0.45	0.10	0.00	0.00	0.00		
11			0.00	1.43	0.98	0.75	2.25	0.30	0.10	0.00	0.00	0.00		
12			0.00	1.35	4.05	0.70	1.43	0.25	0.10	0.00	0.00	0.00		
13			0.00	2.70	1.43	0.70	0.98	0.25	0.05	0.00	0.00	0.00		
14			0.00	3.75	0.68	0.70	0.65	0.20	0.05	0.00	0.00	0.00		
15			0.00	1.65	0.55	0.60	0.53	0.15	0.05	0.00	0.00	0.00		
16			0.00	1.13	0.45	0.38	0.53	0.10	0.05	0.00	0.00	0.00		
17			0.00	0.73	0.40	3.90	0.55	0.10	0.00	0.00	0.00	0.00		
18			0.00	0.55	0.38	7.00	0.50	0.10	0.00	0.00	0.00	0.00		
19			0.00	0.43	0.33	3.45	0.50	0.10	0.00	0.00	0.00	0.00		
20			0.00	0.98	0.50	1.95	0.50	0.10	0.00	0.00	0.00	0.00		
21			0.00	0.58	0.30	14.40	0.53	0.10	0.00	0.00	0.00	0.00		
22			0.00	0.48	0.25	7.20	0.50	0.10	0.00	0.00	0.00	0.00		
23			0.00	0.35	0.25	3.75	0.48	0.10	0.00	0.00	0.00	0.00		
24			0.00	0.35	0.25	2.25	0.45	0.10	0.00	0.00	0.00	0.00		
25			0.00	0.30	0.60	1.43	0.45	0.40	0.00	0.00	0.00	0.00		
26			0.00	0.30	0.60	0.98	0.45	0.35	0.00	0.00	0.00	0.00		
27			0.00	0.38	0.55	4.80	0.35	0.25	0.00	0.00	0.00	0.00		
28			0.00	0.45	4.05	8.00	0.30	0.15	0.00	0.00	0.00	0.00		
29			0.90	0.50	4.05	4.65	0.25	0.10	0.00	0.00		0.00		
30			0.90	0.50	11.10	4.05	0.53	0.10	0.00	0.00		0.00		
31				0.50	4.50		0.45		0.00	0.00		0.00		
Total			1.80	44.97	40.76	87.69	64.36	5.95	1.40	0.00	0.00	0.00	246.93	CMSDAY
Mean			0.07	1.45	1.31	2.92	2.08	0.20	0.05	0.00	0.00	0.00	0.83	CMS
Max			0.90	5.25	11.10	14.40	10.80	0.45	0.10	0.00	0.00	0.00	14.40	CMS
Min			0.00	0.30	0.25	0.38	0.25	0.10	0.00	0.00	0.00	0.00	0.00	CMS
Runoff			0.16	3.89	3.52	7.58	5.56	0.51	0.12	0.00	0.00	0.00	21.33	MCM

Momentary Peak 15.30 CMS. at 31.06 m. (MSL.) at 06.00 Hours , on Sep 21 , 2016

Runoff Yield 5.37 Liters/Second/Square KM. Momentary Peak Yield 121.430 Liters/Second/Square KM.

WATER YEAR : 2016

TONLE SAP BASIN

Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (TI.3)

Lat 12 - 58 - 12 N Long 102 - 17 - 20 E

Location : on left bank downstream from the bridge of Pong Nam Ron -Wang Nam Yen Highway.

Ban Pang Ngon **Amphoe** Pong Nam Ron **Changwat** Chanthaburi

Drainge Area	71 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+190.680 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 6 meters from the top staff gage. **Elevation** +195.973 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Flot	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir.
	Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

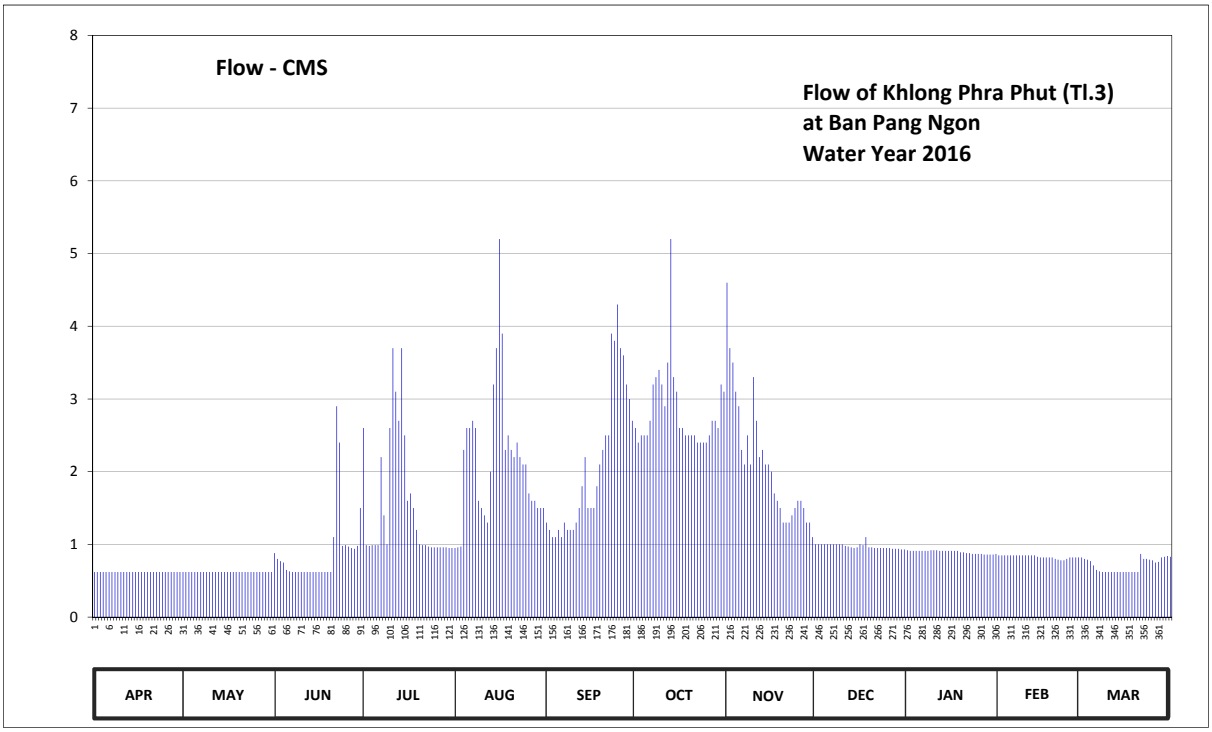
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.68	190.68	190.97	191.26	191.05	191.13	191.26	191.44	191.10	191.01	190.94	190.90	
2	190.68	190.68	190.88	191.09	191.06	191.12	191.24	191.37	191.10	191.00	190.94	190.88	
3	190.68	190.68	190.85	191.08	191.07	191.11	191.25	191.35	191.10	191.00	190.93	190.87	
4	190.68	190.68	190.82	191.09	191.23	191.11	191.25	191.31	191.10	191.00	190.93	190.85	
5	190.68	190.68	190.71	191.09	191.26	191.12	191.25	191.29	191.10	191.00	190.93	190.78	
6	190.68	190.68	190.69	191.09	191.26	191.11	191.27	191.23	191.10	191.00	190.93	190.72	
7	190.68	190.68	190.68	191.22	191.27	191.13	191.32	191.21	191.10	191.00	190.93	190.69	
8	190.68	190.68	190.68	191.14	191.26	191.12	191.33	191.25	191.10	191.00	190.93	190.68	
9	190.68	190.68	190.68	191.10	191.16	191.12	191.34	191.21	191.10	191.01	190.93	190.68	
10	190.68	190.68	190.68	191.26	191.15	191.12	191.32	191.33	191.10	191.01	190.93	190.68	
11	190.68	190.68	190.68	191.37	191.14	191.13	191.29	191.27	191.08	191.01	190.93	190.68	
12	190.68	190.68	190.68	191.31	191.13	191.15	191.35	191.22	191.07	191.00	190.93	190.68	
13	190.68	190.68	190.68	191.27	191.20	191.18	191.48	191.23	191.06	191.00	190.93	190.68	
14	190.68	190.68	190.68	191.37	191.32	191.22	191.33	191.21	191.05	191.00	190.91	190.68	
15	190.68	190.68	190.68	191.25	191.37	191.15	191.31	191.21	191.06	191.00	190.90	190.68	
16	190.68	190.68	190.68	191.16	191.48	191.15	191.26	191.20	191.10	191.00	190.90	190.68	
17	190.68	190.68	190.68	191.17	191.39	191.15	191.26	191.17	191.09	191.00	190.90	190.68	
18	190.68	190.68	190.68	191.15	191.23	191.18	191.25	191.16	191.11	191.00	190.90	190.68	
19	190.68	190.68	190.68	191.12	191.25	191.21	191.25	191.15	191.06	190.98	190.90	190.68	
20	190.68	190.68	190.68	191.10	191.23	191.23	191.25	191.13	191.06	190.98	190.88	190.68	
21	190.68	190.68	191.11	191.09	191.22	191.25	191.25	191.13	191.05	190.97	190.87	190.96	
22	190.68	190.68	191.29	191.09	191.24	191.25	191.24	191.13	191.05	190.97	190.86	190.88	
23	190.68	190.68	191.24	191.07	191.22	191.39	191.24	191.14	191.05	190.96	190.86	190.88	
24	190.68	190.68	191.08	191.06	191.21	191.38	191.24	191.15	191.05	190.96	190.88	190.87	
25	190.68	190.68	191.09	191.06	191.21	191.42	191.24	191.16	191.05	190.96	190.90	190.86	
26	190.68	190.68	191.07	191.06	191.17	191.37	191.25	191.16	191.04	190.96	190.90	190.83	
27	190.68	190.68	191.04	191.06	191.16	191.36	191.27	191.15	191.03	190.95	190.90	190.84	
28	190.68	190.68	191.03	191.06	191.16	191.32	191.27	191.13	191.03	190.95	190.90	190.90	
29	190.68	190.68	191.08	191.06	191.15	191.30	191.26	191.13	191.03	190.95		190.91	
30	190.68	190.68	191.15	191.05	191.15	191.27	191.32	191.11	191.02	190.95		190.92	
31		190.68		191.05	191.15		191.31		191.02	190.96		190.91	
Mean	190.68	190.68	190.85	191.14	191.21	191.21	191.28	191.21	191.07	190.99	190.91	190.78	
Max	190.68	190.68	191.29	191.37	191.48	191.42	191.48	191.44	191.11	191.01	190.94	190.96	191.48
Min	190.68	190.68	190.68	191.05	191.05	191.11	191.24	191.11	191.02	190.95	190.86	190.68	190.68

Annual Max Momentary Gage Height 191.58 m. (MSL.) , at 06.00 Hours , on Oct 13 , 2016

Zero Gage at Bottom Elevation 190.68 m. (MSL.) , River Bed 190.58 m. (MSL.)

Left Bank Elevation 195.64 m. (MSL.) ,

Right Bank Elevation 195.66 m. (MSL.) , Drainage Are 71 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.62	0.88	2.60	0.95	1.30	2.60	4.60	1.00	0.92	0.85	0.82	
2	0.62	0.62	0.80	0.99	0.96	1.20	2.40	3.70	1.00	0.91	0.85	0.80	
3	0.62	0.62	0.77	0.98	0.97	1.10	2.50	3.50	1.00	0.91	0.85	0.79	
4	0.62	0.62	0.75	0.99	2.30	1.10	2.50	3.10	1.00	0.91	0.85	0.77	
5	0.62	0.62	0.65	0.99	2.60	1.20	2.50	2.90	1.00	0.91	0.85	0.71	
6	0.62	0.62	0.63	0.99	2.60	1.10	2.70	2.30	1.00	0.91	0.85	0.65	
7	0.62	0.62	0.62	2.20	2.70	1.30	3.20	2.10	1.00	0.91	0.85	0.63	
8	0.62	0.62	0.62	1.40	2.60	1.20	3.30	2.50	1.00	0.91	0.85	0.62	
9	0.62	0.62	0.62	1.00	1.60	1.20	3.40	2.10	1.00	0.92	0.85	0.62	
10	0.62	0.62	0.62	2.60	1.50	1.20	3.20	3.30	1.00	0.92	0.85	0.62	
11	0.62	0.62	0.62	3.70	1.40	1.30	2.90	2.70	0.98	0.92	0.85	0.62	
12	0.62	0.62	0.62	3.10	1.30	1.50	3.50	2.20	0.97	0.91	0.85	0.62	
13	0.62	0.62	0.62	2.70	2.00	1.80	5.20	2.30	0.96	0.91	0.85	0.62	
14	0.62	0.62	0.62	3.70	3.20	2.20	3.30	2.10	0.95	0.91	0.83	0.62	
15	0.62	0.62	0.62	2.50	3.70	1.50	3.10	2.10	0.96	0.91	0.82	0.62	
16	0.62	0.62	0.62	1.60	5.20	1.50	2.60	2.00	1.00	0.91	0.82	0.62	
17	0.62	0.62	0.62	1.70	3.90	1.50	2.60	1.70	0.99	0.91	0.82	0.62	
18	0.62	0.62	0.62	1.50	2.30	1.80	2.50	1.60	1.10	0.91	0.82	0.62	
19	0.62	0.62	0.62	1.20	2.50	2.10	2.50	1.50	0.96	0.89	0.82	0.62	
20	0.62	0.62	0.62	1.00	2.30	2.30	2.50	1.30	0.96	0.89	0.80	0.62	
21	0.62	0.62	1.10	0.99	2.20	2.50	2.50	1.30	0.95	0.88	0.79	0.87	
22	0.62	0.62	2.90	0.99	2.40	2.50	2.40	1.30	0.95	0.88	0.78	0.80	
23	0.62	0.62	2.40	0.97	2.20	3.90	2.40	1.40	0.95	0.87	0.78	0.80	
24	0.62	0.62	0.98	0.96	2.10	3.80	2.40	1.50	0.95	0.87	0.80	0.79	
25	0.62	0.62	0.99	0.96	2.10	4.30	2.40	1.60	0.95	0.87	0.82	0.78	
26	0.62	0.62	0.97	0.96	1.70	3.70	2.50	1.60	0.95	0.87	0.82	0.75	
27	0.62	0.62	0.95	0.96	1.60	3.60	2.70	1.50	0.94	0.86	0.82	0.76	
28	0.62	0.62	0.94	0.96	1.60	3.20	2.70	1.30	0.94	0.86	0.82	0.82	
29	0.62	0.62	0.98	0.96	1.50	3.00	2.60	1.30	0.94	0.86		0.83	
30	0.62	0.62	1.50	0.95	1.50	2.70	3.20	1.10	0.93	0.86		0.84	
31		0.62		0.95	1.50		3.10		0.93	0.87		0.83	
Total	18.60	19.22	26.87	48.05	66.98	62.60	87.90	63.50	30.21	27.75	23.21	22.10	496.99 CMSDAY
Mean	0.62	0.62	0.90	1.55	2.16	2.09	2.84	2.12	0.97	0.90	0.83	0.71	1.36 CMS
Max	0.62	0.62	2.90	3.70	5.20	4.30	5.20	4.60	1.10	0.92	0.85	0.87	5.20 CMS
Min	0.62	0.62	0.62	0.95	0.95	1.10	2.40	1.10	0.93	0.86	0.78	0.62	0.62 CMS
Runoff	1.61	1.66	2.32	4.15	5.79	5.41	7.59	5.49	2.61	2.40	2.01	1.91	42.94 MCM

Momentary Peak 6.70 CMS. at 191.58 m. (MSL.) at 06.00 Hours, on Oct 13 , 2016

Runoff Yield 19.08 Liters/Second/Square KM. Momentary Peak Yield 93.880 Liters/Second/Square KM.

WATER YEAR : 2016

TONLE SAP BASIN

Khlong Ta Kong at Ban Khlong Ta Kong , Chanthaburi (TI.4)

Lat 12 - 55 - 02 N Long 102 - 19 - 30 E

Location : on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron.

	Ban Khlong Ta Kong	**Amphoe** Pong Nam Ron	**Changwat** Chanthaburi
Drainge Area	86 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+176.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 30 meters from the top staff gage.	**Elevation**	+186.762 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Flow effected by the local weir.		
	Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

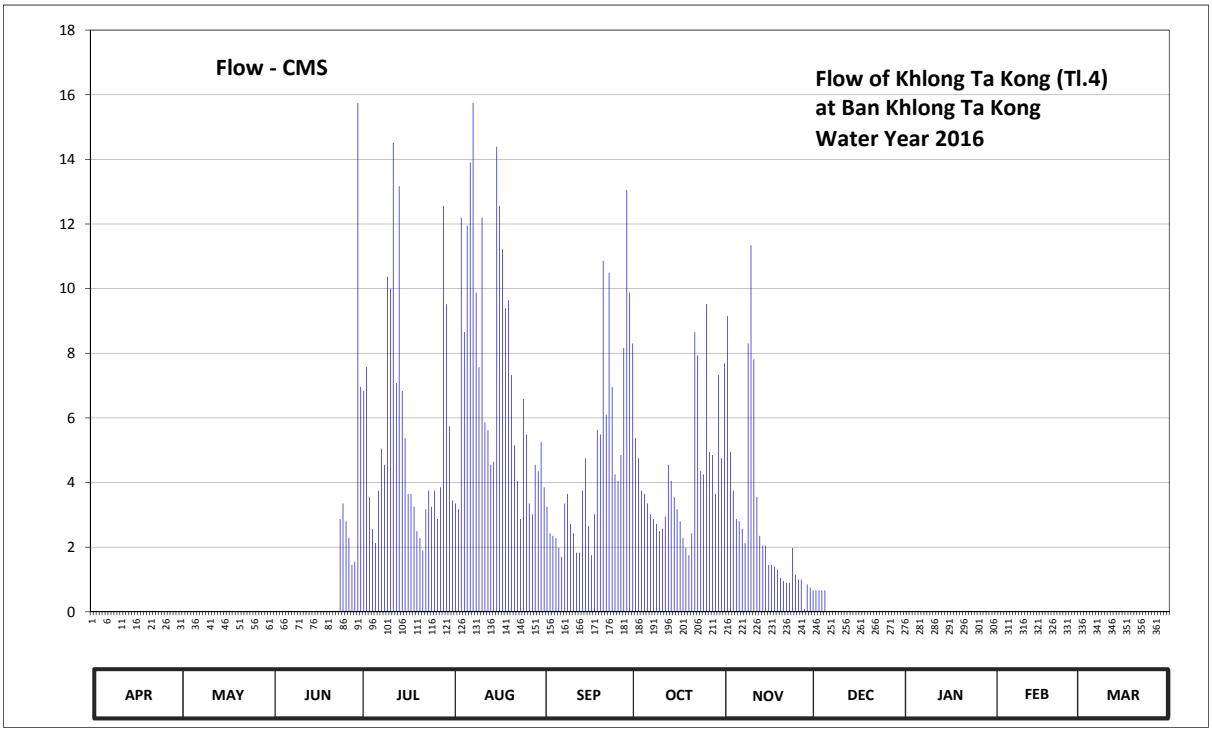
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.80	176.80	176.80	178.44	178.12	178.16	178.55	178.50	177.68	178.12	177.98		
2	176.80	176.80	176.80	178.43	178.11	178.10	178.31	178.62	177.68	178.07	177.98		
3	176.80	176.80	176.80	178.49	178.09	177.99	178.25	178.27	177.68	178.07	177.98		
4	176.80	176.80	176.80	178.13	178.87	177.98	178.15	178.15	177.68	178.03	177.96		
5	176.80	176.80	176.80	178.01	178.58	177.97	178.14	178.05	177.68	177.99	177.96		
6	176.80	176.80	176.80	177.95	178.85	177.93	178.11	178.04	177.81	177.99	177.99		
7	176.80	176.80	176.80	178.15	179.01	177.89	178.07	178.01	177.93	177.98	178.02		
8	176.80	176.80	176.80	178.28	179.15	178.11	178.05	177.95	178.14	178.00	178.07		
9	176.80	176.80	176.80	178.23	178.68	178.14	178.03	178.55	178.08	178.04	178.12		
10	176.80	176.80	176.80	178.72	178.49	178.03	178.00	178.80	178.04	178.08	178.14		
11	176.80	176.80	176.80	178.69	178.87	177.99	178.01	178.51	178.02	178.12	178.18		
12	176.80	176.80	176.80	179.06	178.35	177.91	178.06	178.13	178.00	178.13	178.20		
13	176.80	176.80	176.80	178.45	178.33	177.91	178.23	177.98	178.00	178.15	178.20		
14	176.80	176.80	176.80	178.95	178.23	178.15	178.18	177.94	178.00	178.14	178.19		
15	176.80	176.80	176.80	178.43	178.24	178.25	178.13	177.94	178.02	178.14	178.18		
16	176.80	176.80	176.80	178.31	179.05	178.02	178.09	177.84	178.05	178.14	178.17		
17	176.80	176.80	176.80	178.14	178.90	177.90	178.04	177.84	178.08	178.13	178.15		
18	176.80	176.80	176.80	178.14	178.79	178.07	177.97	177.83	178.11	178.12	178.13		
19	176.80	176.80	176.80	178.10	178.64	178.33	177.93	177.81	177.93	178.10	178.11		
20	176.80	176.80	176.80	178.00	178.66	178.32	177.90	177.76	178.02	178.08	178.08		
21	176.80	176.80	176.80	177.97	178.47	178.76	177.99	177.74	177.82	178.06	178.06		
22	176.80	176.80	176.80	177.92	178.29	178.37	178.58	177.73	177.78	178.06	178.06		
23	176.80	176.80	177.48	178.09	178.18	178.73	178.52	177.73	177.81	178.03	178.06		
24	176.80	176.80	178.05	178.15	178.05	178.44	178.21	177.93	177.85	178.01	178.06		
25	176.80	176.80	178.11	178.10	178.41	178.20	178.20	177.78	177.90	178.00	178.06		
26	176.80	176.80	178.04	178.15	178.32	178.18	178.65	177.75	177.90	177.99	178.02		
27	176.80	176.80	177.97	178.05	178.11	178.26	178.27	177.75	177.90	177.99	178.04		
28	176.80	176.80	177.84	178.16	178.07	178.54	178.26	177.56	177.90	177.98	178.04		
29	176.80	176.80	177.86	178.90	178.23	178.94	178.14	177.72	177.90	177.99			
30	176.80	176.80	179.15	178.65	178.21	178.68	178.47	177.70	178.02	178.00			
31		176.80		178.34	178.30		178.25		178.09	177.98			
Mean	176.80	176.80	177.14	178.31	178.47	178.21	178.19	178.00	177.92	178.06	178.08		
Max	176.80	176.80	179.15	179.06	179.15	178.94	178.65	178.80	178.14	178.15	178.20		179.15
Min	176.80	176.80	176.80	177.92	178.05	177.89	177.90	177.56	177.68	177.98	177.96		176.80

Annual Max Momentary Gage Height 179.90 m. (MSL.) , at 18.00 Hours , on Sep 29 , 2016

Zero Gage at Bottom Elevation 176.80 m. (MSL.) , River Bed 177.49 m. (MSL.)

Left Bank Elevation 184.71 m. (MSL.) ,

Right Bank Elevation 184.66 m. (MSL.) , Drainage Are 86 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	6.96	3.45	3.85	8.30	7.69	0.66	0.00	0.00			
2	0.00	0.00	0.00	6.83	3.35	3.25	5.37	9.15	0.66	0.00	0.00			
3	0.00	0.00	0.00	7.57	3.17	2.43	4.75	4.95	0.66	0.00	0.00			
4	0.00	0.00	0.00	3.55	12.20	2.35	3.75	3.75	0.66	0.00	0.00			
5	0.00	0.00	0.00	2.57	8.66	2.28	3.65	2.87	0.66	0.00	0.00			
6	0.00	0.00	0.00	2.13	11.95	1.98	3.35	2.80	0.00	0.00	0.00			
7	0.00	0.00	0.00	3.75	13.90	1.70	3.02	2.57	0.00	0.00	0.00			
8	0.00	0.00	0.00	5.05	15.75	3.35	2.87	2.13	0.00	0.00	0.00			
9	0.00	0.00	0.00	4.55	9.88	3.65	2.72	8.30	0.00	0.00	0.00			
10	0.00	0.00	0.00	10.37	7.57	2.72	2.50	11.34	0.00	0.00	0.00			
11	0.00	0.00	0.00	10.00	12.20	2.43	2.57	7.81	0.00	0.00	0.00			
12	0.00	0.00	0.00	14.51	5.86	1.83	2.95	3.55	0.00	0.00	0.00			
13	0.00	0.00	0.00	7.08	5.62	1.83	4.55	2.35	0.00	0.00	0.00			
14	0.00	0.00	0.00	13.17	4.55	3.75	4.05	2.05	0.00	0.00	0.00			
15	0.00	0.00	0.00	6.83	4.65	4.75	3.55	2.05	0.00	0.00	0.00			
16	0.00	0.00	0.00	5.37	14.39	2.65	3.17	1.45	0.00	0.00	0.00			
17	0.00	0.00	0.00	3.65	12.56	1.75	2.80	1.45	0.00	0.00	0.00			
18	0.00	0.00	0.00	3.65	11.22	3.02	2.28	1.40	0.00	0.00	0.00			
19	0.00	0.00	0.00	3.25	9.39	5.62	1.98	1.30	0.00	0.00	0.00			
20	0.00	0.00	0.00	2.50	9.64	5.49	1.75	1.05	0.00	0.00	0.00			
21	0.00	0.00	0.00	2.28	7.32	10.86	2.43	0.95	0.00	0.00	0.00			
22	0.00	0.00	0.00	1.90	5.15	6.10	8.66	0.90	0.00	0.00	0.00			
23	0.00	0.00	0.00	3.17	4.05	10.49	7.93	0.90	0.00	0.00	0.00			
24	0.00	0.00	2.87	3.75	2.87	6.96	4.35	1.98	0.00	0.00	0.00			
25	0.00	0.00	3.35	3.25	6.59	4.25	4.25	1.15	0.00	0.00	0.00			
26	0.00	0.00	2.80	3.75	5.49	4.05	9.52	1.00	0.00	0.00	0.00			
27	0.00	0.00	2.28	2.87	3.35	4.85	4.95	1.00	0.00	0.00	0.00			
28	0.00	0.00	1.45	3.85	3.02	8.17	4.85	0.09	0.00	0.00	0.00			
29	0.00	0.00	1.55	12.56	4.55	13.05	3.65	0.85	0.00	0.00				
30	0.00	0.00	15.75	9.52	4.35	9.88	7.32	0.75	0.00	0.00				
31		0.00		5.74	5.25		4.75		0.00	0.00				
Total	0.00	0.00	30.05	175.98	231.95	139.34	132.59	89.58	3.30	0.00	0.00		802.79	CMSDAY
Mean	0.00	0.00	1.00	5.68	7.48	4.64	4.28	2.99	0.11	0.00	0.00		2.40	CMS
Max	0.00	0.00	15.75	14.51	15.75	13.05	9.52	11.34	0.66	0.00	0.00		15.75	CMS
Min	0.00	0.00	0.00	1.90	2.87	1.70	1.75	0.09	0.00	0.00	0.00		0.00	CMS
Runoff	0.00	0.00	2.60	15.20	20.04	12.04	11.46	7.74	0.29	0.00	0.00		69.36	MCM

Momentary Peak 27.50 CMS. at 179.90 m. (MSL.) at 18.00 Hours , on Sep 29 , 2016

Runoff Yield 25.68 Liters/Second/Square KM. Momentary Peak Yield 321.110 Liters/Second/Square KM.

WATER YEAR : 2016

TONLE SAP BASIN

Khlong Thung Krang at Ban Thung Krang , Chanthaburi (Tl.6)

Lat 13 - 01 - 36 N Long 102 - 16 - 21 E

Location : on right bank at the bridge of Chanthaburi - Sa Kaeo Highway.

	Ban Thung Krang	**Amphoe** Pong Nam Ron	**Changwat** Chanthaburi
Drainge Area	42 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+182.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 20 meters from the top staff gage.	**Elevation**	+187.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

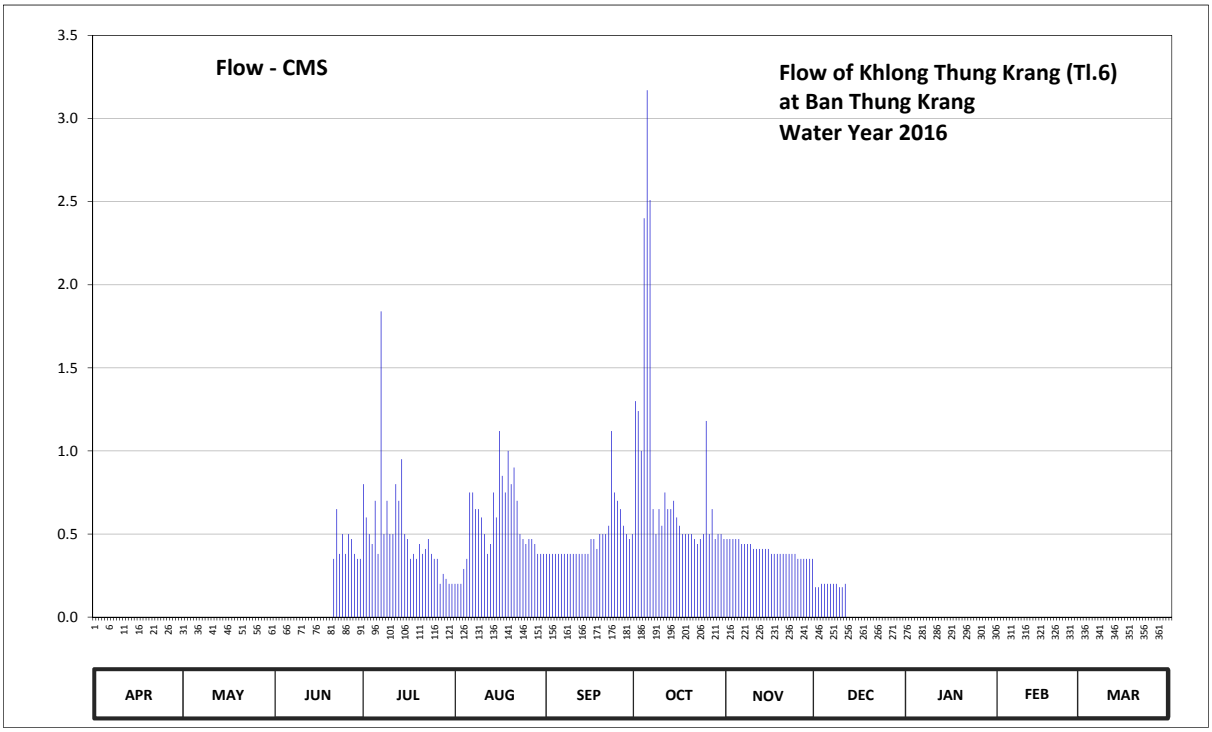
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	182.50	182.50	182.50	183.36	183.20	183.26	183.45	183.29	183.19	183.42	183.20	183.19	
2	182.50	182.50	182.50	183.32	183.20	183.26	183.44	183.29	183.19	183.43	183.20	183.19	
3	182.50	182.50	182.50	183.30	183.20	183.26	183.40	183.29	183.20	183.39	183.20	183.19	
4	182.50	182.50	182.50	183.28	183.23	183.26	183.60	183.29	183.20	183.38	183.20	183.19	
5	182.50	182.50	182.50	183.34	183.25	183.26	183.67	183.29	183.20	183.37	183.20	183.19	
6	182.50	182.50	182.50	183.26	183.35	183.26	183.61	183.28	183.20	183.36	183.20	183.19	
7	182.50	182.50	182.50	183.53	183.35	183.26	183.33	183.28	183.20	183.37	183.20	183.19	
8	182.50	182.50	182.50	183.30	183.33	183.26	183.30	183.28	183.20	183.39	183.20	183.19	
9	182.50	182.50	182.50	183.34	183.33	183.26	183.33	183.28	183.19	183.38	183.20	183.19	
10	182.50	182.50	182.50	183.30	183.32	183.26	183.31	183.27	183.19	183.38	183.20	183.19	
11	182.50	182.50	182.50	183.30	183.30	183.26	183.35	183.27	183.20	183.39	183.20	183.19	
12	182.50	182.50	182.50	183.36	183.26	183.26	183.33	183.27	183.25	183.41	183.20	183.19	
13	182.50	182.50	182.50	183.34	183.28	183.26	183.33	183.27	183.42	183.40	183.20	183.19	
14	182.50	182.50	182.50	183.39	183.35	183.26	183.34	183.27	183.40	183.41	183.20	183.19	
15	182.50	182.50	182.50	183.30	183.32	183.26	183.32	183.27	183.42	183.42	183.20	183.19	
16	182.50	182.50	182.50	183.29	183.42	183.29	183.31	183.26	183.43	183.41	183.20	183.19	
17	182.50	182.50	182.50	183.25	183.37	183.29	183.30	183.26	183.37	183.41	183.20	183.19	
18	182.50	182.50	182.50	183.26	183.35	183.27	183.30	183.26	183.38	183.41	183.20	183.19	
19	182.50	182.50	182.50	183.25	183.40	183.30	183.30	183.26	183.38	183.40	183.20	183.19	
20	182.50	182.50	182.50	183.28	183.36	183.30	183.30	183.26	183.38	183.40	183.20	183.19	
21	182.50	182.50	183.25	183.26	183.38	183.30	183.29	183.26	183.37	183.40	183.20	183.20	
22	182.50	182.50	183.33	183.27	183.34	183.31	183.28	183.26	183.37	183.30	183.20	183.35	
23	182.50	182.50	183.26	183.29	183.30	183.42	183.29	183.26	183.37	183.30	183.20	183.33	
24	182.50	182.50	183.30	183.26	183.29	183.35	183.30	183.26	183.37	183.30	183.20	183.28	
25	182.50	182.50	183.26	183.25	183.28	183.34	183.43	183.25	183.37	183.28	183.20	183.28	
26	182.50	182.50	183.30	183.25	183.29	183.33	183.30	183.25	183.38	183.27	183.20	183.29	
27	182.50	182.50	183.29	183.20	183.29	183.31	183.33	183.25	183.37	183.23	183.20	183.30	
28	182.50	182.50	183.26	183.22	183.28	183.30	183.29	183.25	183.39	183.20	183.20	183.32	
29	182.50	182.50	183.25	183.21	183.26	183.29	183.30	183.25	183.38	183.20		183.30	
30	182.50	182.50	183.25	183.20	183.26	183.30	183.30	183.25	183.37	183.20		183.20	
31		182.50		183.20	183.26		183.29		183.37	183.20		183.23	
Mean	182.50	182.50	182.76	183.29	183.30	183.29	183.36	183.27	183.31	183.35	183.20	183.22	
Max	182.50	182.50	183.33	183.53	183.42	183.42	183.67	183.29	183.43	183.43	183.20	183.35	183.67
Min	182.50	182.50	182.50	183.20	183.20	183.26	183.28	183.25	183.19	183.20	183.20	183.19	182.50

Annual Max Momentary Gage Height 183.80 m. (MSL.) , at 18.00 Hours , on Oct 4 , 2016

Zero Gage at Bottom Elevation 182.10 m. (MSL.) , River Bed 182.24 m. (MSL.)

Left Bank Elevation 185.82 m. (MSL.) ,

Right Bank Elevation 185.51 m. (MSL.) , Drainage Are 42 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.80	0.20	0.38	1.30	0.47	0.18	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.60	0.20	0.38	1.24	0.47	0.18	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.50	0.20	0.38	1.00	0.47	0.20	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.44	0.29	0.38	2.40	0.47	0.20	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.70	0.35	0.38	3.17	0.47	0.20	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.38	0.75	0.38	2.51	0.44	0.20	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.84	0.75	0.38	0.65	0.44	0.20	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.50	0.65	0.38	0.50	0.44	0.20	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.70	0.65	0.38	0.65	0.44	0.18	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.50	0.60	0.38	0.55	0.41	0.18	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.50	0.50	0.38	0.75	0.41	0.20	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.80	0.38	0.38	0.65	0.41	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.70	0.44	0.38	0.65	0.41	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.95	0.75	0.38	0.70	0.41	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.50	0.60	0.38	0.60	0.41	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.47	1.12	0.47	0.55	0.38	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.35	0.85	0.47	0.50	0.38	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.38	0.75	0.41	0.50	0.38	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.35	1.00	0.50	0.50	0.38	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.44	0.80	0.50	0.50	0.38	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.35	0.38	0.90	0.50	0.47	0.38	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.65	0.41	0.70	0.55	0.44	0.38	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.38	0.47	0.50	1.12	0.47	0.38	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.50	0.38	0.47	0.75	0.50	0.38	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.38	0.35	0.44	0.70	1.18	0.35	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.50	0.35	0.47	0.65	0.50	0.35	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.47	0.20	0.47	0.55	0.65	0.35	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.38	0.26	0.44	0.50	0.47	0.35	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.35	0.23	0.38	0.47	0.50	0.35	0.00	0.00		0.00	
30	0.00	0.00	0.35	0.20	0.38	0.50	0.50	0.35	0.00	0.00		0.00	
31		0.00		0.20	0.38		0.47		0.00	0.00		0.00	
Total	0.00	0.00	4.31	15.83	17.36	14.34	26.02	12.09	2.12	0.00	0.00	0.00	92.07 CMSDAY
Mean	0.00	0.00	0.14	0.51	0.56	0.48	0.84	0.40	0.07	0.00	0.00	0.00	0.25 CMS
Max	0.00	0.00	0.65	1.84	1.12	1.12	3.17	0.47	0.20	0.00	0.00	0.00	3.17 CMS
Min	0.00	0.00	0.00	0.20	0.20	0.38	0.44	0.35	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.37	1.37	1.50	1.24	2.25	1.04	0.18	0.00	0.00	0.00	7.95 MCM

Momentary Peak 4.80 CMS. at 183.80 m. (MSL.) at 18.00 Hours , on Oct 4 , 2016

Runoff Yield 6.04 Liters/Second/Square KM. Momentary Peak Yield 115.030 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Yai at Ban Si Bua Thong , Trat (Z.10)

Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

Ban Si Bua Thong **Amphoe** Khao Saming **Changwat** Trat

Drainge Area	779 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+1.901 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near automatic gage building. **Elevation** +13.181 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1970 to date
Rating Operation	
Period of Rating	1973 - 1978 , 1999 to date
Rated by Flot	-
Rated by Current Meter	1973 - 1978 , 1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records very good. Stage-discharge relation defined by 42 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

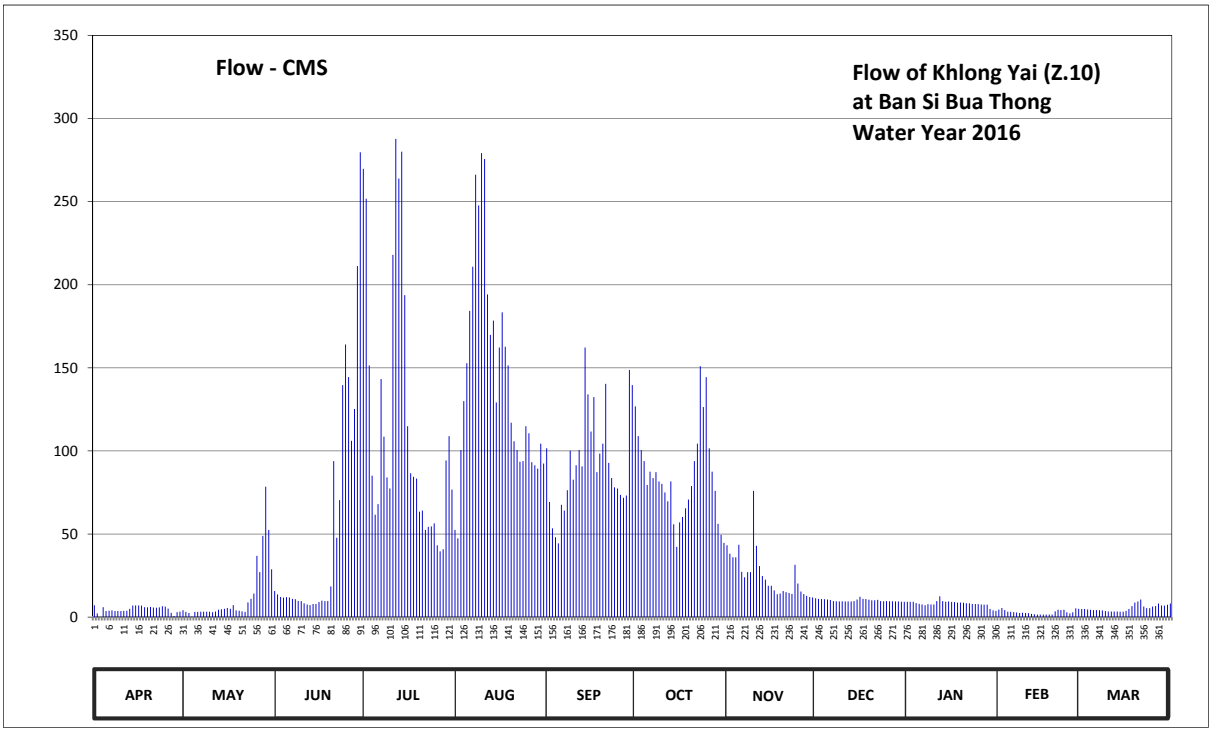
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.57	3.33	4.22	10.85	5.50	6.93	7.62	5.19	3.91	3.74	3.36	3.39	
2	3.18	3.25	4.09	10.45	5.33	6.01	7.14	5.02	3.88	3.74	3.44	3.39	
3	2.96	3.20	3.97	8.22	6.90	5.53	6.90	4.95	3.87	3.74	3.34	3.37	
4	3.48	3.02	3.94	6.46	7.70	5.35	6.71	4.95	3.86	3.68	3.26	3.35	
5	3.29	3.25	3.96	5.79	8.25	5.23	6.30	5.20	3.85	3.64	3.25	3.34	
6	3.31	3.25	3.95	5.97	8.95	5.96	6.53	4.61	3.82	3.61	3.24	3.34	
7	3.32	3.26	3.88	8.03	9.54	5.86	6.42	4.48	3.77	3.57	3.22	3.33	
8	3.29	3.26	3.86	7.13	10.77	6.21	6.52	4.60	3.76	3.62	3.20	3.32	
9	3.29	3.26	3.78	6.43	10.36	6.89	6.36	4.60	3.75	3.61	3.21	3.29	
10	3.29	3.26	3.77	6.24	11.06	6.39	6.32	6.20	3.76	3.61	3.20	3.27	
11	3.30	3.24	3.66	9.70	10.98	6.64	6.17	5.18	3.75	3.77	3.19	3.27	
12	3.31	3.27	3.61	11.25	9.17	6.90	6.02	4.75	3.75	4.00	3.15	3.27	
13	3.40	3.35	3.58	10.72	8.63	6.62	6.36	4.51	3.75	3.77	3.14	3.27	
14	3.55	3.38	3.63	11.08	8.82	8.46	5.61	4.42	3.77	3.74	3.12	3.26	
15	3.56	3.40	3.63	9.16	7.68	7.80	5.16	4.31	3.85	3.75	3.12	3.26	
16	3.56	3.44	3.72	7.31	8.46	7.22	5.65	4.31	3.98	3.73	3.12	3.30	
17	3.55	3.40	3.79	6.50	8.93	7.76	5.75	4.23	3.88	3.72	3.12	3.39	
18	3.48	3.58	3.77	6.44	8.47	6.52	5.90	4.10	3.87	3.70	3.12	3.53	
19	3.47	3.32	3.78	6.41	8.22	6.84	6.05	4.13	3.84	3.70	3.12	3.70	
20	3.49	3.31	4.30	5.84	7.37	7.01	6.28	4.22	3.81	3.69	3.28	3.75	
21	3.46	3.28	6.71	5.86	7.05	7.96	6.71	4.20	3.81	3.67	3.35	3.85	
22	3.45	3.25	5.34	5.50	6.90	6.68	7.01	4.16	3.83	3.66	3.34	3.51	
23	3.47	3.71	6.04	5.56	6.70	6.42	8.21	4.12	3.77	3.63	3.35	3.43	
24	3.52	3.88	7.94	5.57	6.71	6.26	7.61	4.78	3.76	3.63	3.23	3.43	
25	3.51	4.13	8.50	5.63	7.31	6.24	8.06	4.35	3.77	3.62	3.18	3.51	
26	3.41	4.98	8.06	5.19	7.19	6.13	6.93	4.21	3.76	3.61	3.23	3.53	
27	3.21	4.60	7.06	5.07	6.69	6.08	6.53	4.11	3.76	3.60	3.42	3.65	
28	3.05	5.38	7.58	5.11	6.64	6.12	6.20	4.02	3.75	3.60	3.40	3.56	
29	3.24	6.27	9.55	6.72	6.58	8.16	5.62	3.96	3.75	3.39		3.55	
30	3.26	5.50	11.07	7.14	7.01	7.94	5.40	3.95	3.74	3.32		3.59	
31		4.67		6.22	6.67		5.24		3.74	3.30		3.65	
Mean	3.37	3.73	5.16	7.21	7.95	6.67	6.43	4.53	3.80	3.65	3.24	3.44	
Max	3.57	6.27	11.07	11.25	11.06	8.46	8.21	6.20	3.98	4.00	3.44	3.85	11.25
Min	2.96	3.02	3.58	5.07	5.33	5.23	5.16	3.95	3.74	3.30	3.12	3.26	2.96

Annual Max Momentary Gage Height 11.45 m. (MSL.) , at 11.00 Hours, on Jul 12, 2016

Zero Gage at Bottom Elevation 1.90 m. (MSL.) , River Bed 1.82 m. (MSL.)

Left Bank Elevation 15.32 m. (MSL.) ,

Right Bank Elevation 15.93 m. (MSL.) , Drainage Are 779 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.13	4.13	15.70	269.75	52.50	101.55	126.80	43.20	11.38	9.25	4.50	4.88	
2	2.25	3.13	13.63	251.75	47.40	69.35	108.90	38.10	11.00	9.25	5.50	4.88	
3	0.00	2.50	12.13	151.40	100.50	53.40	100.50	36.00	10.88	9.25	4.25	4.63	
4	6.00	0.25	11.75	85.10	130.00	48.00	93.85	36.00	10.75	8.50	3.25	4.38	
5	3.63	3.13	12.00	61.65	152.75	44.40	79.50	43.50	10.63	8.00	3.13	4.25	
6	3.88	3.13	11.88	67.95	184.25	67.60	87.55	27.25	10.25	7.63	3.00	4.25	
7	4.00	3.25	11.00	143.20	210.80	64.10	83.70	24.00	9.63	7.13	2.75	4.13	
8	3.63	3.25	10.75	108.55	266.15	76.35	87.20	27.00	9.50	7.75	2.50	4.00	
9	3.63	3.25	9.75	84.05	247.70	100.15	81.60	27.00	9.38	7.63	2.63	3.63	
10	3.63	3.25	9.63	77.40	279.20	82.65	80.20	76.00	9.50	7.63	2.50	3.38	
11	3.75	3.00	8.25	218.00	275.60	91.40	74.95	42.90	9.38	9.63	2.38	3.38	
12	3.88	3.38	7.63	287.75	194.15	100.50	69.70	30.75	9.38	12.50	1.88	3.38	
13	5.00	4.38	7.25	263.90	169.85	90.70	81.60	24.75	9.38	9.63	1.75	3.38	
14	6.88	4.75	7.88	280.10	178.40	162.20	55.80	22.50	9.63	9.25	1.50	3.25	
15	7.00	5.00	7.88	193.70	129.20	134.00	42.30	18.85	10.63	9.38	1.50	3.25	
16	7.00	5.50	9.00	114.85	162.20	111.70	57.00	18.85	12.25	9.13	1.50	3.75	
17	6.88	5.00	9.88	86.50	183.35	132.40	60.25	16.05	11.00	9.00	1.50	4.88	
18	6.00	7.25	9.63	84.40	162.65	87.20	65.50	13.75	10.88	8.75	1.50	6.63	
19	5.88	4.00	9.75	83.35	151.40	98.40	70.75	14.13	10.50	8.75	1.50	8.75	
20	6.13	3.88	18.50	63.40	116.95	104.35	78.80	15.70	10.13	8.63	3.50	9.38	
21	5.75	3.50	93.85	64.10	105.75	140.40	93.85	15.00	10.13	8.38	4.38	10.63	
22	5.63	3.13	47.70	52.50	100.50	92.80	104.35	14.50	10.38	8.25	4.25	6.38	
23	5.88	8.88	70.40	54.30	93.50	83.70	150.95	14.00	9.63	7.88	4.38	5.38	
24	6.50	11.00	139.60	54.60	93.85	78.10	126.40	31.50	9.50	7.88	2.88	5.38	
25	6.38	14.13	164.00	56.40	114.85	77.40	144.40	20.25	9.63	7.75	2.25	6.38	
26	5.13	36.90	144.40	43.20	110.65	73.55	101.55	15.35	9.50	7.63	2.88	6.63	
27	2.63	27.00	106.10	39.60	93.15	71.80	87.55	13.88	9.50	7.50	5.25	8.13	
28	0.63	48.90	125.20	40.80	91.40	73.20	76.00	12.75	9.38	7.50	5.00	7.00	
29	3.00	78.45	211.25	94.20	89.30	148.70	56.10	12.00	9.38	4.88		6.88	
30	3.25	52.50	279.65	108.90	104.35	139.60	49.50	11.88	9.25	4.00		7.38	
31		28.75		76.70	92.45		44.70		9.25	3.75		8.13	
Total	140.96	388.55	1596.02	3662.05	4484.75	2799.65	2621.80	757.39	311.59	252.07	83.79	170.74	17269.36	CMSDAY
Mean	4.70	12.53	53.20	118.13	144.67	93.32	84.57	25.25	10.05	8.13	2.99	5.51	47.31	CMS
Max	7.13	78.45	279.65	287.75	279.20	162.20	150.95	76.00	12.25	12.50	5.50	10.63	287.75	CMS
Min	0.00	0.25	7.25	39.60	47.40	44.40	42.30	11.88	9.25	3.75	1.50	3.25	0.00	CMS
Runoff	12.18	33.57	137.90	316.40	387.48	241.89	226.52	65.44	26.92	21.78	7.24	14.75	1492.07	MCM

Momentary Peak 297.44 CMS, at 11.45 m. (MSL.), at 11.00 Hours, on Jul 12, 2016

Runoff Yield 60.74 Liters/Second/Square KM. Momentary Peak Yield 381.820 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

	Ban Khao Chik	**Amphoe** Klaeng	**Changwat** Rayong
Drainge Area	1,236 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+2.630 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the Meteorological Station.	**Elevation**	+13.420 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1965 - 1974 , 1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Flow effectedn by the concrete weir about 7 kilometers downstream and 5 kilometers above gage site. Stage-discharge relation defined by 20 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

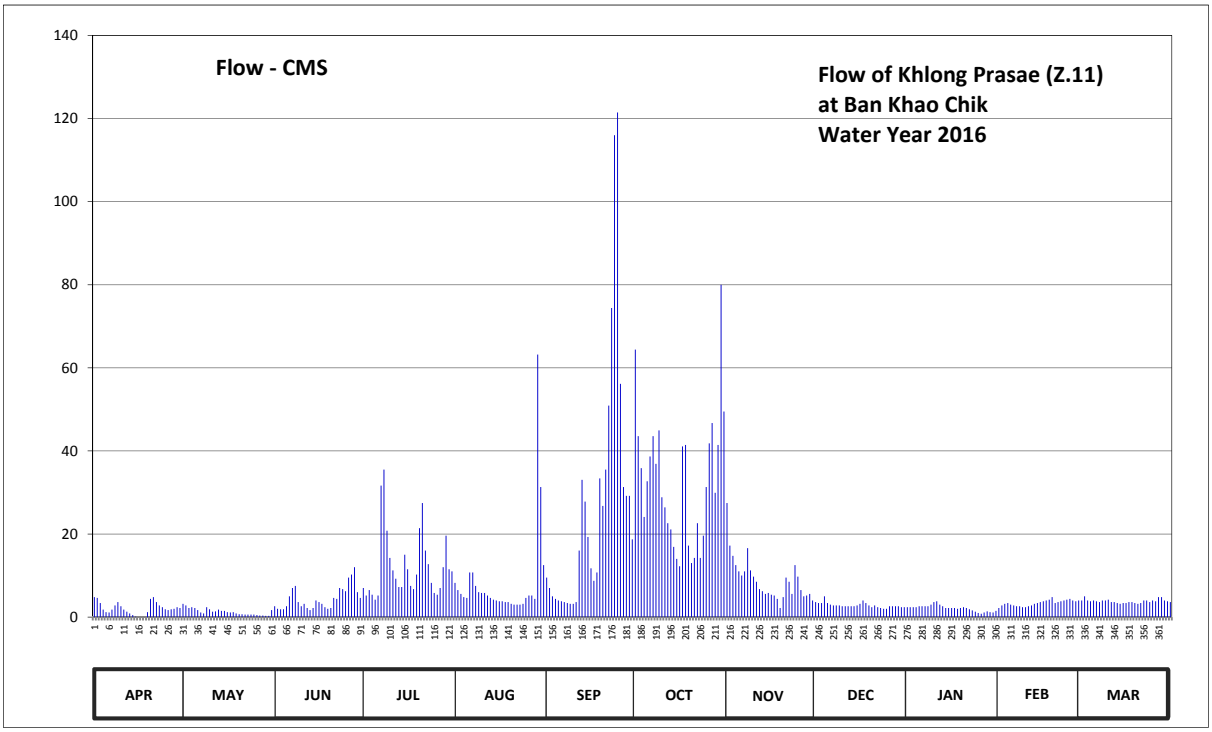
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.74	4.66	4.63	4.84	4.89	4.94	6.61	5.57	4.68	4.62	4.61	4.70	
2	4.73	4.64	4.60	4.76	4.82	4.84	6.03	5.24	4.67	4.62	4.64	4.75	
3	4.67	4.61	4.59	4.82	4.78	4.75	5.81	5.15	4.67	4.62	4.66	4.70	
4	4.58	4.62	4.59	4.77	4.74	4.72	5.47	5.06	4.75	4.62	4.67	4.69	
5	4.52	4.61	4.63	4.71	4.73	4.70	5.72	5.00	4.67	4.63	4.65	4.70	
6	4.51	4.57	4.75	4.76	4.99	4.69	5.89	4.96	4.65	4.63	4.64	4.69	
7	4.58	4.51	4.84	5.69	4.99	4.68	6.03	5.00	4.64	4.63	4.63	4.68	
8	4.64	4.49	4.86	5.80	4.86	4.67	5.84	5.22	4.64	4.63	4.63	4.70	
9	4.68	4.62	4.68	5.36	4.80	4.66	6.07	5.01	4.64	4.65	4.62	4.70	
10	4.63	4.59	4.63	5.13	4.79	4.66	5.61	4.95	4.63	4.68	4.62	4.71	
11	4.58	4.53	4.66	5.01	4.79	4.68	5.54	4.90	4.63	4.69	4.63	4.68	
12	4.53	4.54	4.61	4.93	4.76	5.20	5.42	4.83	4.63	4.65	4.64	4.68	
13	4.49	4.58	4.57	4.85	4.73	5.73	5.37	4.81	4.63	4.63	4.66	4.67	
14	4.45	4.55	4.61	4.85	4.71	5.58	5.23	4.78	4.63	4.61	4.67	4.66	
15	4.41	4.55	4.70	5.16	4.70	5.31	5.12	4.79	4.64	4.61	4.68	4.67	
16	4.38	4.52	4.68	5.02	4.69	5.03	5.05	4.77	4.66	4.61	4.69	4.67	
17	4.39	4.51	4.66	4.86	4.69	4.91	5.96	4.76	4.70	4.61	4.70	4.68	
18	4.40	4.52	4.62	4.83	4.68	4.99	5.97	4.72	4.67	4.60	4.71	4.68	
19	4.52	4.49	4.60	4.97	4.68	5.74	5.24	4.61	4.64	4.61	4.74	4.67	
20	4.72	4.47	4.61	5.38	4.66	5.55	5.08	4.74	4.62	4.62	4.67	4.66	
21	4.74	4.47	4.73	5.57	4.65	5.80	5.13	4.94	4.64	4.61	4.68	4.67	
22	4.68	4.46	4.72	5.20	4.65	6.24	5.42	4.90	4.62	4.59	4.69	4.70	
23	4.64	4.46	4.84	5.07	4.65	6.86	5.13	4.78	4.61	4.56	4.70	4.70	
24	4.62	4.46	4.83	4.89	4.66	7.85	5.32	5.06	4.60	4.53	4.71	4.68	
25	4.59	4.46	4.81	4.79	4.73	7.96	5.68	4.95	4.60	4.50	4.72	4.70	
26	4.57	4.45	4.94	4.77	4.76	6.39	5.98	4.82	4.63	4.48	4.70	4.69	
27	4.59	4.44	4.97	4.84	4.76	5.68	6.12	4.75	4.63	4.51	4.69	4.74	
28	4.60	4.44	5.04	5.04	4.72	5.62	5.64	4.76	4.63	4.54	4.70	4.74	
29	4.62	4.43	4.80	5.32	6.58	5.62	5.97	4.78	4.63	4.52		4.70	
30	4.61	4.43	4.73	5.02	5.68	5.29	7.00	4.70	4.62	4.51		4.69	
31		4.57		5.00	5.06		6.20		4.62	4.55		4.68	
Mean	4.58	4.52	4.72	5.03	4.85	5.44	5.70	4.91	4.64	4.60	4.67	4.69	
Max	4.74	4.66	5.04	5.80	6.58	7.96	7.00	5.57	4.75	4.69	4.74	4.75	7.96
Min	4.38	4.43	4.57	4.71	4.65	4.66	5.05	4.61	4.60	4.48	4.61	4.66	4.38

Annual Max Momentary Gage Height 8.27 m. (MSL.) , at 05.00 Hours, on Sep 25, 2016

Zero Gage at Bottom Elevation 2.63 m. (MSL.) , River Bed 3.50 m. (MSL.)

Left Bank Elevation 9.95 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.80	3.20	2.60	7.00	8.25	9.50	64.40	27.45	3.60	2.40	2.20	4.00	
2	4.60	2.80	2.00	5.20	6.50	7.00	43.55	17.20	3.40	2.40	2.80	5.00	
3	3.40	2.20	1.90	6.50	5.60	5.00	35.85	14.75	3.40	2.40	3.20	4.00	
4	1.80	2.40	1.90	5.40	4.80	4.40	24.10	12.50	5.00	2.40	3.40	3.80	
5	1.20	2.20	2.60	4.20	4.60	4.00	32.70	11.00	3.40	2.60	3.00	4.00	
6	1.10	1.70	5.00	5.20	10.75	3.80	38.65	10.00	3.00	2.60	2.80	3.80	
7	1.80	1.10	7.00	31.65	10.75	3.60	43.55	11.00	2.80	2.60	2.60	3.60	
8	2.80	0.90	7.50	35.50	7.50	3.40	36.90	16.60	2.80	2.60	2.60	4.00	
9	3.60	2.40	3.60	20.80	6.00	3.20	44.95	11.25	2.80	3.00	2.40	4.00	
10	2.60	1.90	2.60	14.25	5.80	3.20	28.85	9.75	2.60	3.60	2.40	4.20	
11	1.80	1.30	3.20	11.25	5.80	3.60	26.40	8.50	2.60	3.80	2.60	3.60	
12	1.30	1.40	2.20	9.25	5.20	16.00	22.60	6.75	2.60	3.00	2.80	3.60	
13	0.90	1.80	1.70	7.25	4.60	33.05	21.10	6.25	2.60	2.60	3.20	3.40	
14	0.50	1.50	2.20	7.25	4.20	27.80	16.90	5.60	2.60	2.20	3.40	3.20	
15	0.10	1.50	4.00	15.00	4.00	19.30	14.00	5.80	2.80	2.20	3.60	3.40	
16	0.00	1.20	3.60	11.50	3.80	11.75	12.25	5.40	3.20	2.20	3.80	3.40	
17	0.00	1.10	3.20	7.50	3.80	8.75	41.10	5.20	4.00	2.20	4.00	3.60	
18	0.00	1.20	2.40	6.75	3.60	10.75	41.45	4.40	3.40	2.00	4.20	3.60	
19	1.20	0.90	2.00	10.25	3.60	33.40	17.20	2.20	2.80	2.20	4.80	3.40	
20	4.40	0.70	2.20	21.40	3.20	26.75	13.00	4.80	2.40	2.40	3.40	3.20	
21	4.80	0.70	4.60	27.45	3.00	35.50	14.25	9.50	2.80	2.20	3.60	3.40	
22	3.60	0.60	4.40	16.00	3.00	50.90	22.60	8.50	2.40	1.90	3.80	4.00	
23	2.80	0.60	7.00	12.75	3.00	74.40	14.25	5.60	2.20	1.60	4.00	4.00	
24	2.40	0.60	6.75	8.25	3.20	115.98	19.60	12.50	2.00	1.30	4.20	3.60	
25	1.90	0.60	6.25	5.80	4.60	121.44	31.30	9.75	2.00	1.00	4.40	4.00	
26	1.70	0.50	9.50	5.40	5.20	56.15	41.80	6.50	2.60	0.80	4.00	3.80	
27	1.90	0.40	10.25	7.00	5.20	31.30	46.70	5.00	2.60	1.10	3.80	4.80	
28	2.00	0.40	12.00	12.00	4.40	29.20	29.90	5.20	2.60	1.40	4.00	4.80	
29	2.40	0.30	6.00	19.60	63.20	29.20	41.45	5.60	2.60	1.20		4.00	
30	2.20	0.30	4.60	11.50	31.30	18.70	80.00	4.00	2.40	1.10		3.80	
31		1.70		11.00	12.50		49.50		2.40	1.50		3.60	
Total	63.60	40.10	134.75	379.85	250.95	801.02	1010.85	268.55	88.40	66.50	95.00	118.60	3318.17 CMSDAY
Mean	2.12	1.29	4.49	12.25	8.10	26.70	32.61	8.95	2.85	2.15	3.39	3.83	9.09 CMS
Max	4.80	3.20	12.00	35.50	63.20	121.44	80.00	27.45	5.00	3.80	4.80	5.00	121.44 CMS
Min	0.00	0.30	1.70	4.20	3.00	3.20	12.25	2.20	2.00	0.80	2.20	3.20	0.00 CMS
Runoff	5.50	3.46	11.64	32.82	21.68	69.21	87.34	23.20	7.64	5.75	8.21	10.25	286.69 MCM

Momentary Peak 136.82 CMS, at 8.27 m. (MSL.), at 05.00 Hours, on Sep 25, 2016

Runoff Yield 7.36 Liters/Second/Square KM. Momentary Peak Yield 110.700 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

Ban Puk **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	647 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+6.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +14.789 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1968 to date
Rating Operation	
Period of Rating	1969 to date
Rated by Flot	-
Rated by Current Meter	1969 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

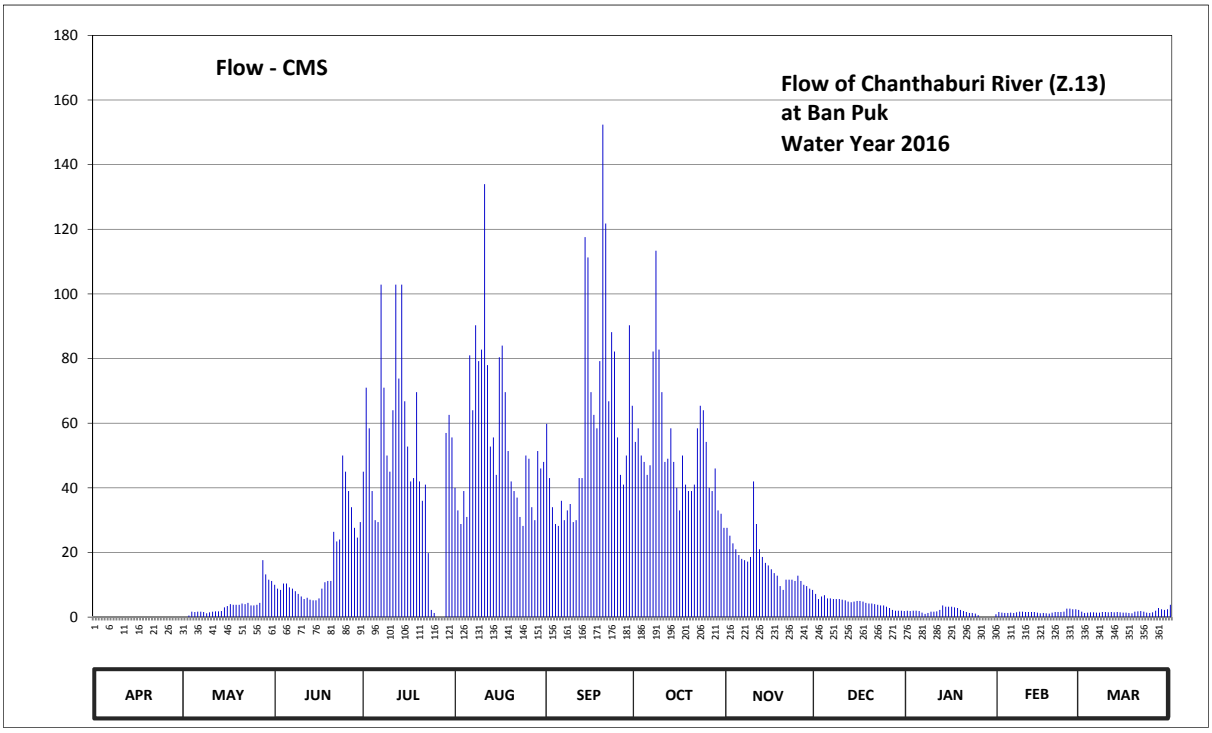
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.07	8.11	8.80	9.35	9.30	9.47	9.43	9.16	8.73	8.50	8.46	8.47	
2	8.04	8.19	8.77	9.55	9.23	9.33	9.46	9.12	8.68	8.49	8.44	8.43	
3	8.01	8.35	8.76	9.46	9.18	9.24	9.40	9.08	8.71	8.50	8.43	8.44	
4	7.97	8.47	8.81	9.29	9.29	9.18	9.38	9.05	8.72	8.50	8.43	8.45	
5	7.92	8.46	8.81	9.20	9.21	9.17	9.34	9.02	8.69	8.49	8.44	8.45	
6	7.85	8.47	8.78	9.19	9.65	9.26	9.37	9.00	8.69	8.44	8.43	8.44	
7	7.81	8.47	8.77	9.79	9.50	9.20	9.67	8.99	8.68	8.40	8.45	8.44	
8	7.76	8.46	8.75	9.55	9.73	9.23	9.84	8.98	8.68	8.43	8.47	8.46	
9	7.71	8.42	8.73	9.40	9.62	9.25	9.68	9.01	8.68	8.47	8.47	8.46	
10	7.65	8.45	8.71	9.35	9.68	9.19	9.54	9.32	8.67	8.47	8.46	8.45	
11	7.62	8.47	8.68	9.50	10.00	9.20	9.38	9.18	8.66	8.48	8.46	8.46	
12	7.67	8.48	8.70	9.79	9.60	9.33	9.39	9.05	8.64	8.51	8.46	8.45	
13	7.74	8.48	8.67	9.57	9.42	9.33	9.46	9.01	8.63	8.58	8.46	8.46	
14	7.80	8.49	8.66	9.79	9.44	9.86	9.38	8.97	8.64	8.56	8.44	8.45	
15	7.84	8.55	8.66	9.52	9.34	9.83	9.30	8.95	8.65	8.56	8.42	8.44	
16	7.87	8.57	8.69	9.42	9.64	9.54	9.23	8.92	8.65	8.56	8.43	8.44	
17	7.90	8.60	8.77	9.32	9.70	9.49	9.40	8.89	8.64	8.55	8.42	8.43	
18	7.93	8.59	8.82	9.33	9.54	9.46	9.31	8.87	8.62	8.54	8.41	8.42	
19	7.94	8.59	8.83	9.54	9.41	9.62	9.29	8.79	8.61	8.51	8.44	8.47	
20	8.04	8.59	8.83	9.32	9.32	10.23	9.29	8.76	8.61	8.49	8.46	8.48	
21	8.20	8.61	9.14	9.26	9.29	9.88	9.31	8.84	8.60	8.46	8.46	8.49	
22	8.28	8.60	9.09	9.31	9.27	9.52	9.46	8.84	8.59	8.43	8.46	8.47	
23	8.29	8.62	9.10	9.03	9.21	9.72	9.51	8.84	8.58	8.43	8.47	8.44	
24	8.26	8.58	9.40	8.51	9.17	9.67	9.50	8.83	8.58	8.41	8.53	8.43	
25	8.24	8.58	9.35	8.43	9.40	9.44	9.43	8.87	8.56	8.36	8.53	8.45	
26	8.22	8.59	9.29	7.62	9.39	9.34	9.30	8.83	8.54	8.30	8.52	8.50	
27	8.18	8.62	9.24	7.28	9.24	9.31	9.29	8.80	8.51	8.23	8.52	8.54	
28	8.13	8.99	9.16	8.23	9.20	9.40	9.36	8.79	8.50	8.17	8.51	8.52	
29	8.07	8.88	9.11	9.45	9.41	9.73	9.23	8.77	8.50	8.13		8.51	
30	8.04	8.84	9.19	9.49	9.36	9.51	9.22	8.76	8.50	8.27		8.52	
31		8.83		9.44	9.38		9.16		8.49	8.39		8.59	
Mean	7.97	8.55	8.90	9.20	9.42	9.46	9.40	8.94	8.62	8.44	8.46	8.47	
Max	8.29	8.99	9.40	9.79	10.00	10.23	9.84	9.32	8.73	8.58	8.53	8.59	10.23
Min	7.62	8.11	8.66	7.28	9.17	9.17	9.16	8.76	8.49	8.13	8.41	8.42	7.28

Annual Max Momentary Gage Height 10.65 m. (MSL.) , at 22.00 Hours, on Sep 20, 2016

Zero Gage at Bottom Elevation 6.30 m. (MSL.) , River Bed 5.97 m. (MSL.)

Left Bank Elevation 12.13 m. (MSL.) ,

Right Bank Elevation 12.74 m. (MSL.) , Drainage Are 647 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	10.00	45.00	40.00	59.80	54.20	27.60	7.20	2.00	1.60	1.70		
2	0.00	0.00	8.80	71.00	33.00	43.00	58.40	25.20	5.60	1.90	1.40	1.30		
3	0.00	0.50	8.40	58.40	28.80	34.00	50.00	22.80	6.40	2.00	1.30	1.40		
4	0.00	1.70	10.40	39.00	39.00	28.80	48.00	21.00	6.80	2.00	1.30	1.50		
5	0.00	1.60	10.40	30.00	31.00	28.20	44.00	19.20	5.80	1.90	1.40	1.50		
6	0.00	1.70	9.20	29.40	81.00	36.00	47.00	18.00	5.80	1.40	1.30	1.40		
7	0.00	1.70	8.80	102.90	64.00	30.00	82.20	17.60	5.60	1.00	1.50	1.40		
8	0.00	1.60	8.00	71.00	90.30	33.00	113.40	17.20	5.60	1.30	1.70	1.60		
9	0.00	1.20	7.20	50.00	79.20	35.00	82.80	18.60	5.60	1.70	1.70	1.60		
10	0.00	1.50	6.40	45.00	82.80	29.40	69.60	42.00	5.40	1.70	1.60	1.50		
11	0.00	1.70	5.60	64.00	134.00	30.00	48.00	28.80	5.20	1.80	1.60	1.60		
12	0.00	1.80	6.00	102.90	78.00	43.00	49.00	21.00	4.80	2.20	1.60	1.50		
13	0.00	1.80	5.40	73.80	52.80	43.00	58.40	18.60	4.60	3.60	1.60	1.60		
14	0.00	1.90	5.20	102.90	55.60	117.60	48.00	16.80	4.80	3.20	1.40	1.50		
15	0.00	3.00	5.20	66.80	44.00	111.30	40.00	16.00	5.00	3.20	1.20	1.40		
16	0.00	3.40	5.80	52.80	80.40	69.60	33.00	14.80	5.00	3.20	1.30	1.40		
17	0.00	4.00	8.80	42.00	84.00	62.60	50.00	13.60	4.80	3.00	1.20	1.30		
18	0.00	3.80	10.80	43.00	69.60	58.40	41.00	12.80	4.40	2.80	1.10	1.20		
19	0.00	3.80	11.20	69.60	51.40	79.20	39.00	9.60	4.20	2.20	1.40	1.70		
20	0.00	3.80	11.20	42.00	42.00	152.40	39.00	8.40	4.20	1.90	1.60	1.80		
21	0.00	4.20	26.40	36.00	39.00	121.80	41.00	11.60	4.00	1.60	1.60	1.90		
22	0.00	4.00	23.40	41.00	37.00	66.80	58.40	11.60	3.80	1.30	1.60	1.70		
23	0.00	4.40	24.00	19.80	31.00	88.20	65.40	11.60	3.60	1.30	1.70	1.40		
24	0.00	3.60	50.00	2.20	28.20	82.20	64.00	11.20	3.60	1.10	2.60	1.30		
25	0.00	3.60	45.00	1.30	50.00	55.60	54.20	12.80	3.20	0.60	2.60	1.50		
26	0.00	3.80	39.00	0.00	49.00	44.00	40.00	11.20	2.80	0.00	2.40	2.00		
27	0.00	4.40	34.00	0.00	34.00	41.00	39.00	10.00	2.20	0.00	2.40	2.80		
28	0.00	17.60	27.60	0.00	30.00	50.00	46.00	9.60	2.00	0.00	2.20	2.40		
29	0.00	13.20	24.60	57.00	51.40	90.30	33.00	8.80	2.00	0.00		2.20		
30	0.00	11.60	29.40	62.60	46.00	65.40	32.00	8.40	2.00	0.00		2.40		
31		11.20		55.60	48.00		27.60		1.90	0.90		3.80		
Total	0.00	122.10	486.20	1477.00	1704.50	1829.60	1595.60	496.40	137.90	50.80	45.90	53.30	7999.30	CMSDAY
Mean	0.00	3.94	16.21	47.65	54.98	60.99	51.47	16.55	4.45	1.64	1.64	1.72	21.92	CMS
Max	0.00	17.60	50.00	102.90	134.00	152.40	113.40	42.00	7.20	3.60	2.60	3.80	152.40	CMS
Min	0.00	0.00	5.20	0.00	28.20	28.20	27.60	8.40	1.90	0.00	1.10	1.20	0.00	CMS
Runoff	0.00	10.55	42.01	127.61	147.27	158.08	137.86	42.89	11.91	4.39	3.97	4.61	691.14	MCM

Momentary Peak 180.50 CMS, at 10.65 m. (MSL.), at 22.00 Hours, on Sep 20, 2016

Runoff Yield 33.87 Liters/Second/Square KM. Momentary Peak Yield 278.980 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban Chaman	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge Area	229 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+5.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 30 meters from the top staff gage.	**Elevation**	+13.690 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

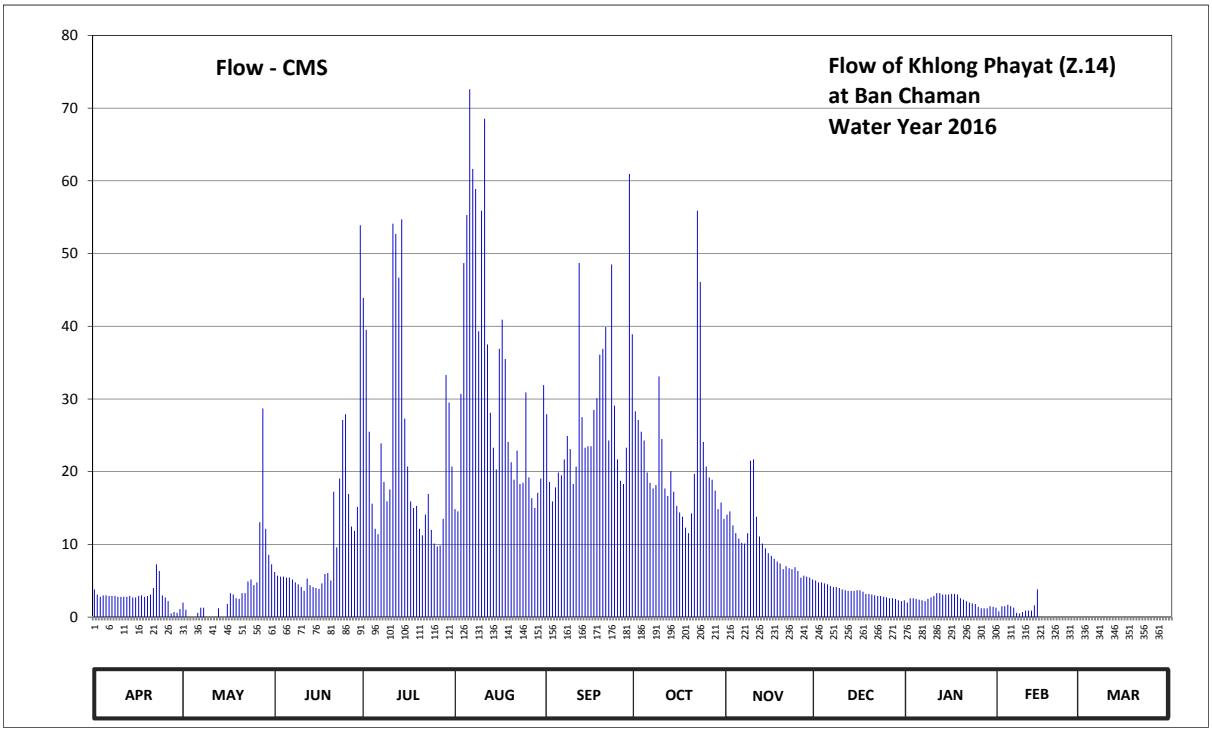
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.58	6.40	6.77	8.92	7.39	8.12	8.14	7.34	6.68	6.40	6.28	6.58	
2	6.51	6.30	6.73	8.70	7.37	7.64	8.08	7.37	6.66	6.46	6.35	6.69	
3	6.48	6.17	6.72	8.00	8.26	7.46	8.00	7.24	6.66	6.46	6.35	6.66	
4	6.50	6.08	6.72	7.44	9.16	7.59	7.94	7.17	6.65	6.45	6.37	6.66	
5	6.50	6.08	6.71	7.21	9.49	7.72	7.72	7.12	6.64	6.44	6.35	6.68	
6	6.49	6.26	6.71	7.16	10.19	7.70	7.63	7.08	6.62	6.43	6.33	6.69	
7	6.49	6.33	6.69	7.92	9.78	7.81	7.58	7.07	6.61	6.42	6.26	6.68	
8	6.49	6.33	6.66	7.64	9.66	7.97	7.61	7.17	6.61	6.45	6.25	6.70	
9	6.48	6.17	6.64	7.46	8.69	7.88	8.38	7.80	6.60	6.47	6.27	6.71	
10	6.48	6.08	6.61	7.57	9.52	7.62	7.95	7.81	6.58	6.49	6.29	6.70	
11	6.48	6.08	6.56	9.43	10.08	7.76	7.58	7.32	6.57	6.53	6.29	6.73	
12	6.48	6.08	6.70	9.36	8.60	9.16	7.51	7.14	6.56	6.53	6.29	6.72	
13	6.49	6.32	6.63	9.06	8.13	8.10	7.73	7.07	6.56	6.51	6.36	6.69	
14	6.47	6.19	6.61	9.46	7.89	7.89	7.55	7.02	6.56	6.51	6.58	6.72	
15	6.47	6.08	6.60	8.09	7.74	7.90	7.42	6.97	6.57	6.51	6.54	6.72	
16	6.49	6.38	6.59	7.76	8.57	7.90	7.36	6.94	6.57	6.52	6.57	6.69	
17	6.50	6.53	6.65	7.46	8.77	8.15	7.32	6.91	6.55	6.52	6.56	6.70	
18	6.48	6.51	6.75	7.40	8.50	8.23	7.22	6.88	6.52	6.51	6.53	6.74	
19	6.49	6.46	6.76	7.42	7.93	8.53	7.17	6.86	6.52	6.46	6.54	6.83	
20	6.51	6.45	6.68	7.21	7.79	8.57	7.35	6.80	6.51	6.44	6.57	6.83	
21	6.60	6.53	7.55	7.15	7.66	8.72	7.71	6.83	6.50	6.42	6.56	6.82	
22	6.85	6.53	7.03	7.34	7.87	7.94	9.52	6.81	6.49	6.40	6.53	6.76	
23	6.78	6.67	7.67	7.53	7.62	9.15	9.03	6.80	6.49	6.39	6.58	6.76	
24	6.50	6.69	8.08	7.20	7.63	8.18	7.93	6.82	6.48	6.38	6.61	6.79	
25	6.47	6.63	8.12	7.07	8.27	7.81	7.76	6.78	6.47	6.34	6.61	6.86	
26	6.42	6.66	7.53	7.04	7.68	7.65	7.68	6.71	6.46	6.32	6.65	6.83	
27	6.25	7.27	7.23	7.05	7.49	7.62	7.66	6.73	6.46	6.32	6.62	6.87	
28	6.27	8.16	7.19	7.30	7.40	7.89	7.56	6.72	6.45	6.32	6.58	6.77	
29	6.26	7.21	7.41	8.39	7.54	9.75	7.39	6.71	6.43	6.35		6.79	
30	6.31	6.95	9.42	8.20	7.67	8.67	7.45	6.69	6.42	6.34		6.85	
31		6.85		7.76	8.32		7.30		6.43	6.33		6.94	
Mean	6.49	6.50	7.02	7.83	8.34	8.10	7.75	7.02	6.54	6.43	6.45	6.75	
Max	6.85	8.16	9.42	9.46	10.19	9.75	9.52	7.81	6.68	6.53	6.65	6.94	10.19
Min	6.25	6.08	6.56	7.04	7.37	7.46	7.17	6.69	6.42	6.32	6.25	6.58	6.08

Annual Max Momentary Gage Height 12.21 m. (MSL.) , at 22.00 Hours, on Oct 22, 2016

Zero Gage at Bottom Elevation 5.40 m. (MSL.) , River Bed 5.90 m. (MSL.)

Left Bank Elevation 13.44 m. (MSL.) ,

Right Bank Elevation 13.58 m. (MSL.) , Drainage Are 229 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	2.00	6.21	43.90	14.85	27.90	28.30	14.10	5.04	2.00	0.80	0.00		
2	3.10	1.00	5.69	39.50	14.55	18.60	27.10	14.55	4.78	2.60	1.50	0.00		
3	2.80	0.00	5.56	25.50	30.70	15.90	25.50	12.60	4.78	2.60	1.50	0.00		
4	3.00	0.00	5.56	15.60	48.70	17.85	24.30	11.55	4.65	2.50	1.70	0.00		
5	3.00	0.00	5.43	12.15	55.30	19.90	19.90	10.80	4.52	2.40	1.50	0.00		
6	2.90	0.60	5.43	11.40	72.60	19.50	18.45	10.24	4.26	2.30	1.30	0.00		
7	2.90	1.30	5.17	23.90	61.64	21.70	17.70	10.11	4.13	2.20	0.60	0.00		
8	2.90	1.30	4.78	18.60	58.88	24.90	18.15	11.55	4.13	2.50	0.50	0.00		
9	2.80	0.00	4.52	15.90	39.30	23.10	33.10	21.50	4.00	2.70	0.70	0.00		
10	2.80	0.00	4.13	17.55	55.90	18.30	24.50	21.70	3.80	2.90	0.90	0.00		
11	2.80	0.00	3.60	54.10	68.54	20.70	17.70	13.80	3.70	3.30	0.90	0.00		
12	2.80	0.00	5.30	52.70	37.50	48.70	16.65	11.10	3.60	3.30	0.90	0.00		
13	2.90	1.20	4.39	46.70	28.10	27.50	20.10	10.11	3.60	3.10	1.60	0.00		
14	2.70	0.00	4.13	54.70	23.30	23.30	17.25	9.46	3.60	3.10	3.80	0.00		
15	2.70	0.00	4.00	27.30	20.30	23.50	15.30	8.81	3.70	3.10	0.00	0.00		
16	2.90	1.80	3.90	20.70	36.90	23.50	14.40	8.42	3.70	3.20	0.00	0.00		
17	3.00	3.30	4.65	15.90	40.90	28.50	13.80	8.03	3.50	3.20	0.00	0.00		
18	2.80	3.10	5.95	15.00	35.50	30.10	12.30	7.64	3.20	3.10	0.00	0.00		
19	2.90	2.60	6.08	15.30	24.10	36.10	11.55	7.38	3.20	2.60	0.00	0.00		
20	3.10	2.50	5.04	12.15	21.30	36.90	14.25	6.60	3.10	2.40	0.00	0.00		
21	4.00	3.30	17.25	11.25	18.90	39.90	19.70	6.99	3.00	2.20	0.00	0.00		
22	7.25	3.30	9.59	14.10	22.90	24.30	55.90	6.73	2.90	2.00	0.00	0.00		
23	6.34	4.91	19.05	16.95	18.30	48.50	46.10	6.60	2.90	1.90	0.00	0.00		
24	3.00	5.17	27.10	12.00	18.45	29.10	24.10	6.86	2.80	1.80	0.00	0.00		
25	2.70	4.39	27.90	10.11	30.90	21.70	20.70	6.34	2.70	1.40	0.00	0.00		
26	2.20	4.78	16.95	9.72	19.20	18.75	19.20	5.43	2.60	1.20	0.00	0.00		
27	0.50	13.05	12.45	9.85	16.35	18.30	18.90	5.69	2.60	1.20	0.00	0.00		
28	0.70	28.70	11.85	13.50	15.00	23.30	17.40	5.56	2.50	1.20	0.00	0.00		
29	0.60	12.15	15.15	33.30	17.10	60.95	14.85	5.43	2.30	1.50		0.00		
30	1.10	8.55	53.90	29.50	19.05	38.90	15.75	5.17	2.20	1.40		0.00		
31		7.25		20.70	31.90		13.50		2.30	1.30		0.00		
Total	86.99	116.25	310.71	719.53	1016.91	830.15	656.40	290.85	107.79	72.20	18.20	0.00	4225.98	CMSDAY
Mean	2.90	3.75	10.36	23.21	32.80	27.67	21.17	9.69	3.48	2.33	0.65	0.00	11.58	CMS
Max	7.25	28.70	53.90	54.70	72.60	60.95	55.90	21.70	5.04	3.30	3.80	0.00	72.60	CMS
Min	0.50	0.00	3.60	9.72	14.55	15.90	11.55	5.17	2.20	1.20	0.00	0.00	0.00	CMS
Runoff	7.52	10.04	26.85	62.17	87.86	71.72	56.71	25.13	9.31	6.24	1.57	0.00	365.12	MCM

Momentary Peak 136.22 CMS, at 12.21 m. (MSL.), at 22.00 Hours, on Oct 22, 2016

Runoff Yield 50.56 Liters/Second/Square KM. Momentary Peak Yield 594.850 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

Lat 12 - 47 - 15 N Long 102 - 15 - 33 E

Location : on left bank at the bridge on highway.

Ban Pong Rong Sen **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	78 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+21.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 40 meters from the top staff gage. **Elevation** +29.932 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Flot	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

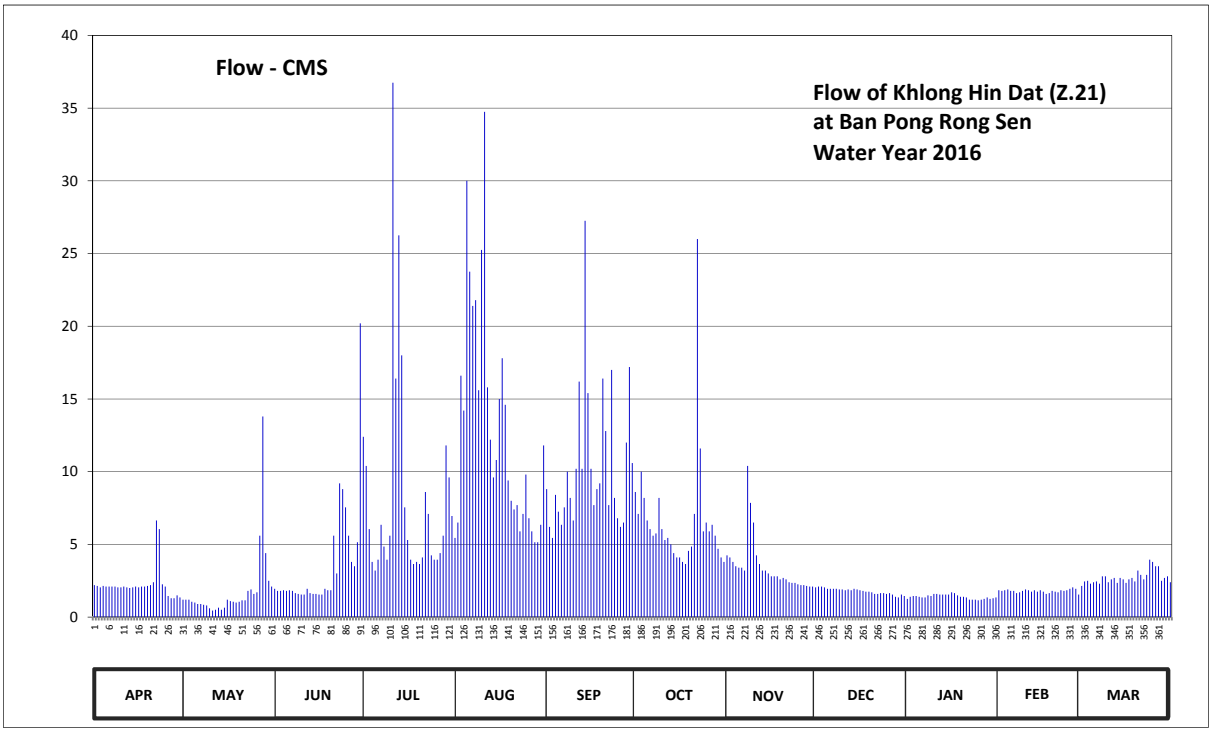
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.04	21.84	21.99	22.72	22.33	22.54	22.53	22.25	22.01	21.85	21.97	22.03	
2	22.03	21.84	21.96	22.62	22.40	22.38	22.44	22.24	22.02	21.88	21.96	22.09	
3	22.01	21.84	21.96	22.37	22.93	22.33	22.60	22.22	22.02	21.89	21.97	22.10	
4	22.03	21.81	21.97	22.22	22.81	22.52	22.51	22.20	22.01	21.89	21.98	22.06	
5	22.02	21.80	21.96	22.17	23.52	22.45	22.41	22.19	21.99	21.88	21.96	22.08	
6	22.02	21.78	21.97	22.23	23.27	22.39	22.37	22.19	21.99	21.87	21.96	22.09	
7	22.02	21.78	21.96	22.39	23.17	22.47	22.34	22.17	21.99	21.87	21.93	22.06	
8	22.02	21.77	21.93	22.29	23.19	22.60	22.35	22.62	21.99	21.90	21.94	22.13	
9	22.01	21.76	21.92	22.23	22.88	22.51	22.51	22.49	21.98	21.89	21.96	22.13	
10	22.01	21.72	21.91	22.34	23.33	22.41	22.37	22.40	21.98	21.92	21.98	22.08	
11	22.02	21.69	21.91	23.79	23.71	22.61	22.32	22.25	21.97	21.92	21.97	22.11	
12	22.01	21.70	21.99	22.92	22.89	22.91	22.33	22.21	21.98	21.91	21.95	22.12	
13	22.00	21.73	21.93	23.37	22.71	22.61	22.30	22.17	21.97	21.91	21.97	22.07	
14	22.01	21.70	21.92	23.00	22.58	23.41	22.26	22.17	21.99	21.91	21.95	22.12	
15	22.02	21.73	21.92	22.47	22.64	22.87	22.24	22.15	21.98	21.91	21.97	22.11	
16	22.01	21.84	21.91	22.32	22.85	22.61	22.24	22.13	21.97	21.94	21.95	22.07	
17	22.02	21.82	21.91	22.23	22.99	22.48	22.22	22.13	21.96	21.93	21.92	22.11	
18	22.02	21.81	21.99	22.21	22.83	22.54	22.21	22.13	21.95	21.90	21.93	22.12	
19	22.03	21.80	21.97	22.22	22.57	22.56	22.27	22.11	21.95	21.88	21.96	22.09	
20	22.04	21.81	21.97	22.21	22.50	22.92	22.29	22.12	21.94	21.88	21.95	22.17	
21	22.08	21.83	22.34	22.24	22.46	22.74	22.44	22.11	21.92	21.87	21.94	22.14	
22	22.41	21.83	22.15	22.53	22.48	22.48	23.36	22.08	21.92	21.84	21.97	22.11	
23	22.37	21.96	22.56	22.44	22.36	22.95	22.68	22.07	21.93	21.84	21.96	22.14	
24	22.05	21.98	22.54	22.25	22.44	22.51	22.36	22.07	21.93	21.84	21.97	22.23	
25	22.02	21.92	22.47	22.23	22.59	22.42	22.40	22.05	21.92	21.83	21.99	22.22	
26	21.89	21.94	22.34	22.23	22.42	22.38	22.36	22.04	21.93	21.84	22.01	22.20	
27	21.86	22.34	22.22	22.26	22.36	22.40	22.39	22.04	21.91	21.85	21.99	22.20	
28	21.86	22.79	22.20	22.34	22.31	22.70	22.34	22.03	21.88	21.87	21.91	22.10	
29	21.90	22.26	22.31	22.69	22.31	22.96	22.28	22.02	21.87	21.85		22.12	
30	21.87	22.10	23.11	22.58	22.39	22.63	22.24	22.02	21.91	21.86		22.13	
31		22.02		22.43	22.69		22.22		21.89	21.87		22.08	
Mean	22.02	21.89	22.11	22.47	22.74	22.61	22.39	22.17	21.96	21.88	21.96	22.12	
Max	22.41	22.79	23.11	23.79	23.71	23.41	23.36	22.62	22.02	21.94	22.01	22.23	23.79
Min	21.86	21.69	21.91	22.17	22.31	22.33	22.21	22.02	21.87	21.83	21.91	22.03	21.69

Annual Max Momentary Gage Height 25.30 m. (MSL.) , at 04.00 Hours, on Aug 11, 2016

Zero Gage at Bottom Elevation 21.20 m. (MSL.) , River Bed 20.63 m. (MSL.)

Left Bank Elevation 28.76 m. (MSL.) ,

Right Bank Elevation 28.69 m. (MSL.) , Drainage Are 78 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	1.20	1.95	12.40	5.45	8.80	8.60	4.25	2.05	1.25	1.85	2.15	
2	2.15	1.20	1.80	10.40	6.50	6.20	7.10	4.10	2.10	1.40	1.80	2.45	
3	2.05	1.20	1.80	6.05	16.60	5.45	10.00	3.80	2.10	1.45	1.85	2.50	
4	2.15	1.05	1.85	3.80	14.20	8.40	8.20	3.50	2.05	1.45	1.90	2.30	
5	2.10	1.00	1.80	3.20	30.00	7.25	6.65	3.40	1.95	1.40	1.80	2.40	
6	2.10	0.90	1.85	3.95	23.75	6.35	6.05	3.40	1.95	1.35	1.80	2.45	
7	2.10	0.90	1.80	6.35	21.40	7.55	5.60	3.20	1.95	1.35	1.65	2.30	
8	2.10	0.85	1.65	4.85	21.80	10.00	5.75	10.40	1.95	1.50	1.70	2.80	
9	2.05	0.80	1.60	3.95	15.60	8.20	8.20	7.85	1.90	1.45	1.80	2.80	
10	2.05	0.60	1.55	5.60	25.25	6.65	6.05	6.50	1.90	1.60	1.90	2.40	
11	2.10	0.45	1.55	36.75	34.75	10.20	5.30	4.25	1.85	1.60	1.85	2.60	
12	2.05	0.50	1.95	16.40	15.80	16.20	5.45	3.65	1.90	1.55	1.75	2.70	
13	2.00	0.65	1.65	26.25	12.20	10.20	5.00	3.20	1.85	1.55	1.85	2.35	
14	2.05	0.50	1.60	18.00	9.60	27.25	4.40	3.20	1.95	1.55	1.75	2.70	
15	2.10	0.65	1.60	7.55	10.80	15.40	4.10	3.00	1.90	1.55	1.85	2.60	
16	2.05	1.20	1.55	5.30	15.00	10.20	4.10	2.80	1.85	1.70	1.75	2.35	
17	2.10	1.10	1.55	3.95	17.80	7.70	3.80	2.80	1.80	1.65	1.60	2.60	
18	2.10	1.05	1.95	3.65	14.60	8.80	3.65	2.80	1.75	1.50	1.65	2.70	
19	2.15	1.00	1.85	3.80	9.40	9.20	4.55	2.60	1.75	1.40	1.80	2.45	
20	2.20	1.05	1.85	3.65	8.00	16.40	4.85	2.70	1.70	1.40	1.75	3.20	
21	2.40	1.15	5.60	4.10	7.40	12.80	7.10	2.60	1.60	1.35	1.70	2.90	
22	6.65	1.15	3.00	8.60	7.70	7.70	26.00	2.40	1.60	1.20	1.85	2.60	
23	6.05	1.80	9.20	7.10	5.90	17.00	11.60	2.35	1.65	1.20	1.80	2.90	
24	2.25	1.90	8.80	4.25	7.10	8.20	5.90	2.35	1.65	1.20	1.85	3.95	
25	2.10	1.60	7.55	3.95	9.80	6.80	6.50	2.25	1.60	1.15	1.95	3.80	
26	1.45	1.70	5.60	3.95	6.80	6.20	5.90	2.20	1.65	1.20	2.05	3.50	
27	1.30	5.60	3.80	4.40	5.90	6.50	6.35	2.20	1.55	1.25	1.95	3.50	
28	1.30	13.80	3.50	5.60	5.15	12.00	5.60	2.15	1.40	1.35	1.55	2.50	
29	1.50	4.40	5.15	11.80	5.15	17.20	4.70	2.10	1.35	1.25		2.70	
30	1.35	2.50	20.20	9.60	6.35	10.60	4.10	2.10	1.55	1.30		2.80	
31		2.10		6.95	11.80		3.80		1.45	1.35		2.40	
Total	68.30	55.55	107.15	256.15	407.55	311.40	204.95	104.10	55.25	43.45	50.35	84.35	1748.55 CMSDAY
Mean	2.28	1.79	3.57	8.26	13.15	10.38	6.61	3.47	1.78	1.40	1.80	2.72	4.79 CMS
Max	6.65	13.80	20.20	36.75	34.75	27.25	26.00	10.40	2.10	1.70	2.05	3.95	36.75 CMS
Min	1.30	0.45	1.55	3.20	5.15	5.45	3.65	2.10	1.35	1.15	1.55	2.15	0.45 CMS
Runoff	5.90	4.80	9.26	22.13	35.21	26.90	17.71	8.99	4.77	3.75	4.35	7.29	151.07 MCM

Momentary Peak 85.00 CMS, at 25.30 m. (MSL.), at 04.00 Hours, on Aug 11, 2016

Runoff Yield 61.42 Liters/Second/Square KM. Momentary Peak Yield 1089.740 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

Location : on right bank near Wat Khun Song.

Ban Khun Song **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	280 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+32.600 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the top staff gage. **Elevation** +40.318 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Flot	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +38.280 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

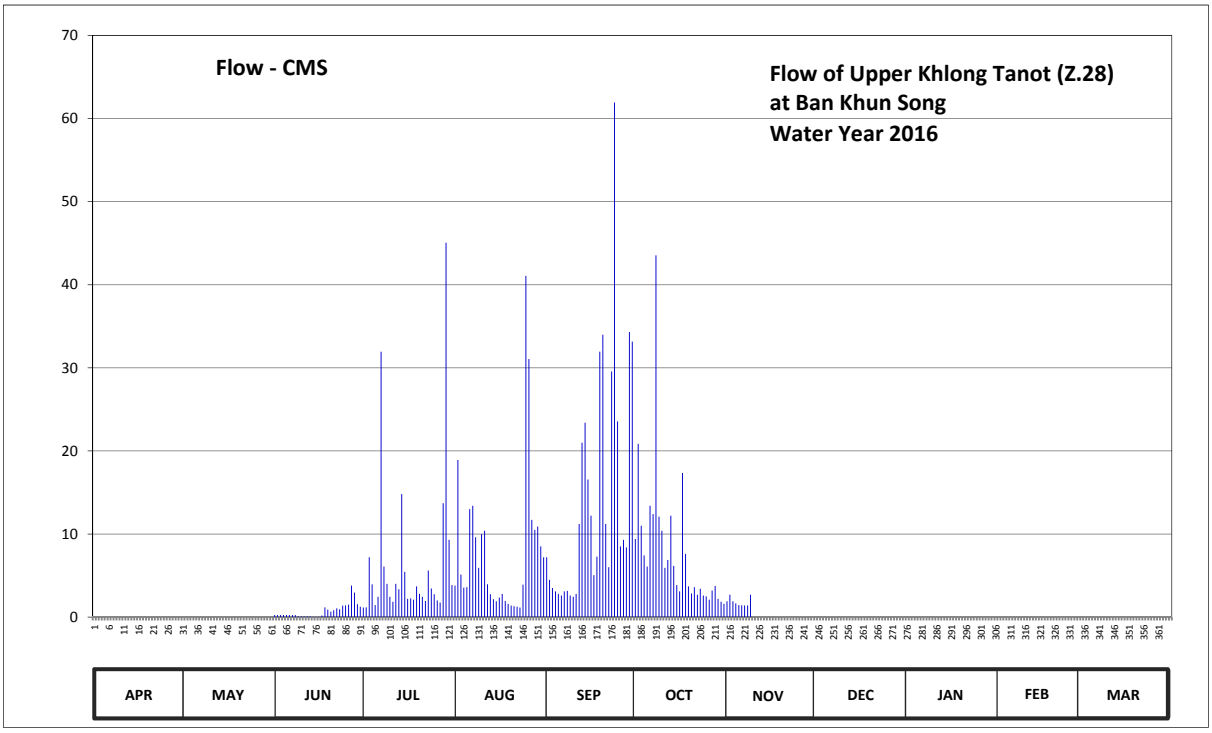
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			33.10	33.46	34.06	34.50	34.74	33.68	34.28	34.48	33.77	33.53	
2			33.10	33.47	35.60	34.16	35.75	33.84	34.28	34.43	33.75	33.45	
3			33.10	34.50	34.24	34.00	34.90	33.68	34.28	34.39	33.73	33.36	
4			33.10	34.09	34.01	33.92	34.53	33.63	34.28	34.38	33.71	33.36	
5			33.10	33.58	34.02	33.86	34.36	33.58	34.32	34.37	33.69	33.36	
6			33.10	33.79	35.10	33.82	35.14	33.57	34.68	34.37	33.66	33.36	
7			33.10	36.51	35.14	33.92	35.04	33.56	34.69	34.36	33.64	33.36	
8			33.10	34.36	34.76	33.93	37.17	33.56	34.70	34.35	33.64	33.36	
9			33.04	34.10	34.34	33.82	35.01	33.84	34.70	34.34	33.63	33.36	
10			33.04	33.79	34.80	33.79	34.84	34.89	34.70	34.33	33.62	33.36	
11			33.04	33.67	34.84	33.86	34.34	34.49	34.69	34.32	33.57	33.36	
12			33.04	34.10	34.09	34.92	34.46	34.36	34.69	34.33	33.56	33.36	
13			33.04	33.97	33.85	35.76	35.02	34.30	34.69	34.59	33.56	33.36	
14			33.01	35.28	33.73	35.94	34.37	34.29	34.68	34.65	33.55	33.36	
15			33.01	34.28	33.68	35.42	34.07	34.29	34.68	34.65	33.55	33.36	
16			33.01	33.74	33.77	35.02	33.92	34.29	34.68	34.64	33.55	33.36	
17			33.08	33.75	33.86	34.23	35.48	34.28	34.67	34.64	33.55	33.26	
18			33.47	33.72	33.69	34.51	34.55	34.28	34.66	34.63	33.54	33.19	
19			33.36	34.04	33.62	36.51	34.04	34.28	34.65	34.62	33.54	33.19	
20			33.26	33.86	33.55	36.64	33.87	34.28	34.67	34.61	33.54	33.19	
21			33.33	33.79	33.52	34.92	34.02	34.28	34.68	34.61	33.54	33.19	
22			33.42	33.69	33.50	34.35	33.84	34.41	34.67	34.59	33.54	33.19	
23			33.38	34.30	33.46	36.35	33.98	34.37	34.67	34.58	33.54	33.19	
24			33.55	33.99	34.08	38.06	33.82	34.28	34.67	34.56	33.54	33.19	
25			33.56	33.85	37.04	35.95	33.80	34.28	34.66	34.40	33.53	33.19	
26			33.60	33.70	36.45	34.65	33.72	34.28	34.66	33.81	33.53	33.19	
27			34.06	33.65	34.97	34.73	33.94	34.28	34.65	33.81	33.53	33.19	
28			33.89	35.17	34.85	34.64	34.05	34.28	34.64	33.78	33.53	33.19	
29			33.61	37.25	34.89	36.66	33.74	34.28	34.63	33.78		33.19	
30			33.50	34.73	34.65	36.59	33.67	34.28	34.61	33.79		33.19	
31				34.07	34.50		33.62		34.54	33.78		33.18	
Mean			33.27	34.20	34.41	34.98	34.45	34.13	34.60	34.35	33.59	33.29	
Max			34.06	37.25	37.04	38.06	37.17	34.89	34.70	34.65	33.77	33.53	38.06
Min			33.01	33.46	33.46	33.79	33.62	33.56	34.28	33.78	33.53	33.18	33.01

Annual Max Momentary Gage Height 38.56 m. (MSL.) , at 03.00 Hours, on Aug 26, 2016

Zero Gage at Bottom Elevation 32.60 m. (MSL.) , River Bed 31.71 m. (MSL.)

Left Bank Elevation 38.27 m. (MSL.) ,

Right Bank Elevation 38.77 m. (MSL.) , Drainage Are 280 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1			0.25	1.15	3.80	7.20	9.40	1.90	0.00	0.00	0.00	0.00		
2			0.25	1.18	18.90	4.48	20.85	2.70	0.00	0.00	0.00	0.00		
3			0.25	7.20	5.12	3.50	11.00	1.90	0.00	0.00	0.00	0.00		
4			0.25	3.95	3.55	3.10	7.44	1.65	0.00	0.00	0.00	0.00		
5			0.25	1.45	3.60	2.80	6.08	1.45	0.00	0.00	0.00	0.00		
6			0.25	2.45	13.00	2.60	13.40	1.43	0.00	0.00	0.00	0.00		
7			0.25	31.95	13.40	3.10	12.40	1.40	0.00	0.00	0.00	0.00		
8			0.25	6.08	9.60	3.15	43.53	1.40	0.00	0.00	0.00	0.00		
9			0.10	4.00	5.92	2.60	12.10	2.70	0.00	0.00	0.00	0.00		
10			0.10	2.45	10.00	2.45	10.40	0.00	0.00	0.00	0.00	0.00		
11			0.10	1.85	10.40	2.80	5.92	0.00	0.00	0.00	0.00	0.00		
12			0.10	4.00	3.95	11.20	6.88	0.00	0.00	0.00	0.00	0.00		
13			0.10	3.35	2.75	20.98	12.20	0.00	0.00	0.00	0.00	0.00		
14			0.03	14.80	2.15	23.40	6.16	0.00	0.00	0.00	0.00	0.00		
15			0.03	5.44	1.90	16.56	3.85	0.00	0.00	0.00	0.00	0.00		
16			0.03	2.20	2.35	12.20	3.10	0.00	0.00	0.00	0.00	0.00		
17			0.20	2.25	2.80	5.04	17.34	0.00	0.00	0.00	0.00	0.00		
18			1.18	2.10	1.95	7.28	7.60	0.00	0.00	0.00	0.00	0.00		
19			0.90	3.70	1.60	31.95	3.70	0.00	0.00	0.00	0.00	0.00		
20			0.65	2.80	1.38	33.98	2.85	0.00	0.00	0.00	0.00	0.00		
21			0.83	2.45	1.30	11.20	3.60	0.00	0.00	0.00	0.00	0.00		
22			1.05	1.95	1.25	6.00	2.70	0.00	0.00	0.00	0.00	0.00		
23			0.95	5.60	1.15	29.55	3.40	0.00	0.00	0.00	0.00	0.00		
24			1.38	3.45	3.90	61.92	2.60	0.00	0.00	0.00	0.00	0.00		
25			1.40	2.75	41.06	23.55	2.50	0.00	0.00	0.00	0.00	0.00		
26			1.50	2.00	31.05	8.50	2.10	0.00	0.00	0.00	0.00	0.00		
27			3.80	1.75	11.70	9.30	3.20	0.00	0.00	0.00	0.00	0.00		
28			2.95	13.70	10.50	8.40	3.75	0.00	0.00	0.00	0.00	0.00		
29			1.55	45.05	10.90	34.32	2.20	0.00	0.00	0.00		0.00		
30			1.25	9.30	8.50	33.15	1.85	0.00	0.00	0.00		0.00		
31				3.85	7.20		1.60		0.00	0.00		0.00		
Total			22.18	196.20	246.63	426.26	245.70	16.53	0.00	0.00	0.00	0.00	1153.50	CMSDAY
Mean			0.74	6.33	7.96	14.21	7.93	0.55	0.00	0.00	0.00	0.00	3.79	CMS
Max			3.80	45.05	41.06	61.92	43.53	2.70	0.00	0.00	0.00	0.00	61.92	CMS
Min			0.03	1.15	1.15	2.45	1.60	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff			1.92	16.95	21.31	36.83	21.23	1.43	0.00	0.00	0.00	0.00	99.66	MCM

Momentary Peak 73.44 CMS, at 38.56 m. (MSL.), at 03.00 Hours, on Aug 26, 2016

Runoff Yield 11.29 Liters/Second/Square KM. Momentary Peak Yield 262.290 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Sato at Ban Nong Bua , Trat (Z.30)

Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

	Ban Nong Bua	**Amphoe** Khao Saming	**Changwat** Trat
Drainge Area	316 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank next tall pole for eletric cable near dwelling.	**Elevation**	+20.777 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

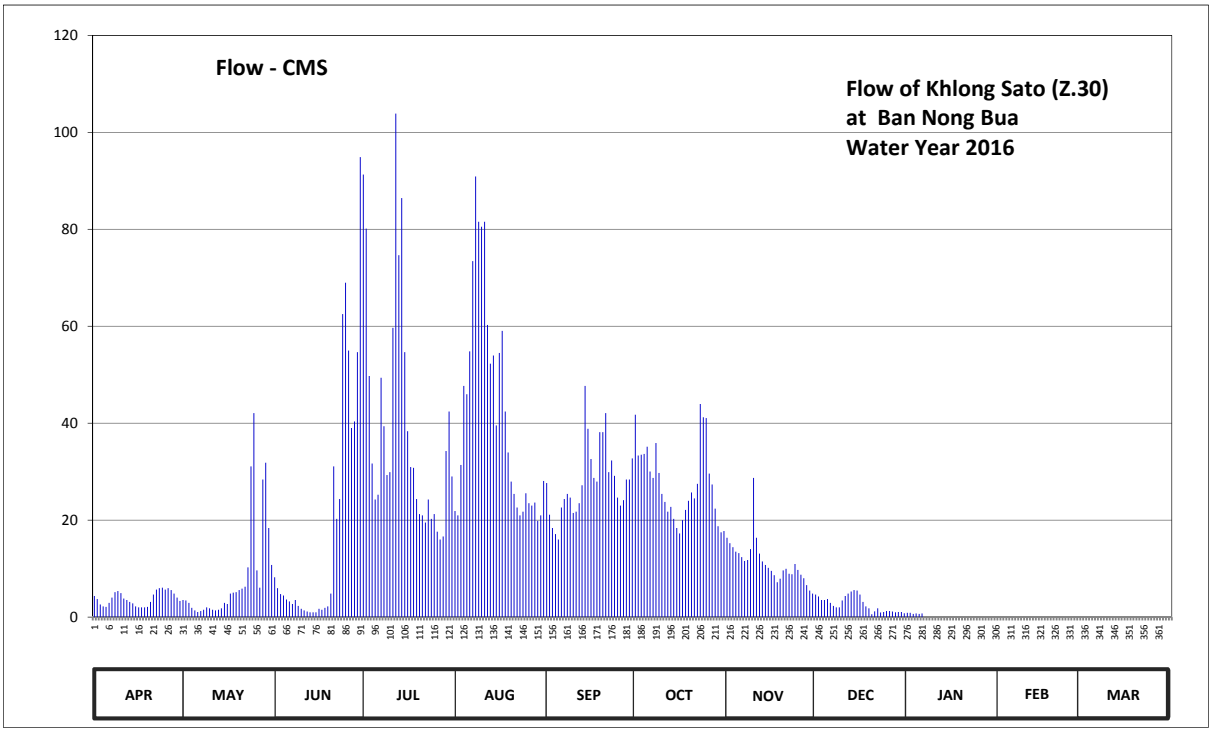
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.78	10.70	11.16	16.29	12.39	12.81	13.72	11.95	10.81	10.38	12.90	12.94	
2	10.72	10.69	10.94	15.74	12.32	12.33	13.19	11.85	10.77	10.38	12.90	12.84	
3	10.61	10.64	10.82	14.19	13.06	12.11	13.20	11.77	10.70	10.33	12.90	12.76	
4	10.57	10.54	10.79	13.08	14.07	12.01	13.21	11.68	10.70	10.35	12.89	12.68	
5	10.56	10.48	10.71	12.58	13.97	11.92	13.31	11.65	10.72	10.33	12.89	12.64	
6	10.64	10.41	10.67	12.65	14.49	12.45	12.97	11.57	10.64	10.35	12.86	12.60	
7	10.75	10.45	10.62	14.17	15.41	12.59	12.88	11.49	10.58	10.73	12.83	12.57	
8	10.86	10.50	10.70	13.58	16.27	12.66	13.36	11.51	10.55	11.74	12.82	12.55	
9	10.88	10.55	10.58	12.92	15.81	12.61	12.95	11.73	10.55	12.67	12.79	12.53	
10	10.84	10.53	10.52	12.96	15.76	12.36	12.66	12.88	10.69	13.06	12.78	12.48	
11	10.73	10.50	10.48	14.73	15.81	12.38	12.54	11.95	10.78	13.32	12.78	12.49	
12	10.70	10.48	10.43	16.85	14.76	12.52	12.38	11.64	10.83	13.48	12.73	12.49	
13	10.66	10.50	10.40	15.47	14.34	12.78	12.46	11.48	10.87	13.51	12.69	12.48	
14	10.63	10.53	10.40	16.05	14.44	14.07	12.26	11.41	10.90	13.50	12.67	12.46	
15	10.57	10.64	10.40	14.48	13.59	13.55	12.11	11.35	10.89	13.53	12.63	12.45	
16	10.55	10.62	10.52	13.52	14.47	13.14	12.02	11.29	10.81	13.51	12.61	12.47	
17	10.55	10.83	10.50	13.03	14.70	12.88	12.24	11.20	10.66	13.50	12.59	12.56	
18	10.55	10.85	10.54	13.02	13.76	12.83	12.41	11.06	10.57	13.47	12.57	12.62	
19	10.56	10.86	10.57	12.59	13.23	13.51	12.56	11.13	10.53	13.40	12.52	12.65	
20	10.66	10.90	10.83	12.34	12.83	13.51	12.68	11.30	10.32	13.30	12.48	12.73	
21	10.81	10.93	13.04	12.32	12.66	13.74	12.60	11.33	10.44	13.24	12.47	13.01	
22	10.91	10.97	12.26	12.20	12.45	12.96	12.80	11.23	10.53	13.17	12.44	13.19	
23	10.94	11.36	12.59	12.58	12.32	13.12	13.85	11.22	10.39	13.11	12.42	13.20	
24	10.95	13.04	14.87	12.26	12.38	12.91	13.69	11.43	10.41	13.11	12.55	13.12	
25	10.91	13.74	15.19	12.34	12.67	12.61	13.68	11.31	10.45	13.07	12.78	13.10	
26	10.94	11.30	14.50	12.05	12.52	12.48	12.94	11.21	10.45	13.00	13.00	13.19	
27	10.90	10.95	13.56	11.92	12.48	12.57	12.79	11.14	10.43	13.00	13.06	13.37	
28	10.83	12.86	13.64	11.97	12.53	12.86	12.43	11.00	10.40	12.98	13.03	13.49	
29	10.75	13.09	14.48	13.25	12.23	12.86	12.14	10.89	10.41	12.95		13.38	
30	10.68	12.11	16.45	13.76	12.32	13.15	12.04	10.83	10.41	12.93		13.37	
31		11.41		12.90	12.84		12.06		10.36	12.92		13.55	
Mean	10.73	11.10	11.77	13.48	13.64	12.81	12.78	11.45	10.60	12.53	12.73	12.84	
Max	10.95	13.74	16.45	16.85	16.27	14.07	13.85	12.88	10.90	13.53	13.06	13.55	16.85
Min	10.55	10.41	10.40	11.92	12.23	11.92	12.02	10.83	10.32	10.33	12.42	12.45	10.32

Annual Max Momentary Gage Height 17.22 m. (MSL.) , at 11.00 Hours, on Jul 12, 2016

Zero Gage at Bottom Elevation 9.20 m. (MSL.) , River Bed 9.18 m. (MSL.)

Left Bank Elevation 19.47 m. (MSL.) ,

Right Bank Elevation 19.49 m. (MSL.) , Drainage Are 316 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.35	3.54	8.22	91.30	21.87	27.65	41.74	16.38	4.66	0.90	0.00	0.00	
2	3.74	3.43	5.98	80.14	21.00	21.12	33.35	15.24	4.25	0.90	0.00	0.00	
3	2.62	2.93	4.76	49.73	31.40	18.38	33.50	14.43	3.54	0.65	0.00	0.00	
4	2.21	1.91	4.45	31.70	47.69	17.13	33.65	13.51	3.54	0.75	0.00	0.00	
5	2.11	1.40	3.64	24.25	45.99	16.00	35.15	13.21	3.74	0.65	0.00	0.00	
6	2.93	1.05	3.23	25.25	54.83	22.62	30.05	12.39	2.93	0.75	0.00	0.00	
7	4.04	1.25	2.72	49.39	73.45	24.37	28.70	11.58	2.31	0.00	0.00	0.00	
8	5.16	1.50	3.54	39.36	90.89	25.40	35.90	11.78	2.01	0.00	0.00	0.00	
9	5.37	2.01	2.31	29.30	81.56	24.65	29.75	14.02	2.01	0.00	0.00	0.00	
10	4.96	1.81	1.70	29.90	80.55	21.50	25.40	28.70	3.43	0.00	0.00	0.00	
11	3.84	1.50	1.40	59.66	81.56	21.75	23.75	16.38	4.35	0.00	0.00	0.00	
12	3.54	1.40	1.15	103.88	60.27	23.50	21.75	13.10	4.86	0.00	0.00	0.00	
13	3.13	1.50	1.00	74.67	52.28	27.20	22.75	11.48	5.27	0.00	0.00	0.00	
14	2.82	1.81	1.00	86.43	53.98	47.69	20.25	10.76	5.57	0.00	0.00	0.00	
15	2.21	2.93	1.00	54.66	39.53	38.85	18.38	10.15	5.47	0.00	0.00	0.00	
16	2.01	2.72	1.70	38.34	54.49	32.60	17.25	9.54	4.66	0.00	0.00	0.00	
17	2.01	4.86	1.50	30.95	59.06	28.70	20.00	8.63	3.13	0.00	0.00	0.00	
18	2.01	5.06	1.91	30.80	42.42	27.95	22.12	7.20	2.21	0.00	0.00	0.00	
19	2.11	5.16	2.21	24.37	33.95	38.17	24.00	7.91	1.81	0.00	0.00	0.00	
20	3.13	5.57	4.86	21.25	27.95	38.17	25.70	9.64	0.60	0.00	0.00	0.00	
21	4.66	5.88	31.10	21.00	25.40	42.08	24.50	9.95	1.20	0.00	0.00	0.00	
22	5.67	6.28	20.25	19.50	22.62	29.90	27.50	8.93	1.81	0.00	0.00	0.00	
23	5.98	10.25	24.37	24.25	21.00	32.30	43.95	8.83	0.95	0.00	0.00	0.00	
24	6.08	31.10	62.50	20.25	21.75	29.15	41.23	10.97	1.05	0.00	0.00	0.00	
25	5.67	42.08	68.99	21.25	25.55	24.65	41.06	9.74	1.25	0.00	0.00	0.00	
26	5.98	9.64	55.00	17.63	23.50	23.00	29.60	8.73	1.25	0.00	0.00	0.00	
27	5.57	6.08	39.02	16.00	23.00	24.12	27.35	8.01	1.15	0.00	0.00	0.00	
28	4.86	28.40	40.38	16.63	23.62	28.40	22.37	6.59	1.00	0.00	0.00	0.00	
29	4.04	31.85	54.66	34.25	19.88	28.40	18.75	5.47	1.05	0.00		0.00	
30	3.33	18.38	94.88	42.42	21.00	32.75	17.50	4.86	1.05	0.00		0.00	
31		10.76		29.00	28.10		17.75		0.80	0.00		0.00	
Total	116.14	254.04	549.43	1237.51	1310.14	838.15	854.70	338.11	82.91	4.60			5585.73 CMSDAY
Mean	3.87	8.19	18.31	39.92	42.26	27.94	27.57	11.27	2.67	0.15	0.00	0.00	15.30 CMS
Max	6.08	42.08	94.88	103.88	90.89	47.69	43.95	28.70	5.57	0.90	0.00	0.00	103.88 CMS
Min	2.01	1.05	1.00	16.00	19.88	16.00	17.25	4.86	0.60	0.00	0.00	0.00	0.00 CMS
Runoff	10.03	21.95	47.47	106.92	113.20	72.42	73.85	29.21	7.16	0.40			482.61 MCM

Momentary Peak 112.20 CMS, at 17.22 m. (MSL.), at 11.00 Hours, on Jul 12, 2016

Runoff Yield 48.43 Liters/Second/Square KM. Momentary Peak Yield 355.060 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Thapma at Ban Khao Bot , Rayong (Z.38)

Lat 12 - 44 - 09 N Long 101 - 13 - 54 E

Location : on left bank at Ban Khao Bot.

	Ban Khao Bot	**Amphoe** Mueang	**Changwat** Rayong
Drainge Area	150 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+8.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank next tall pole for eletric cable near dwelling.	**Elevation**	+13.100 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

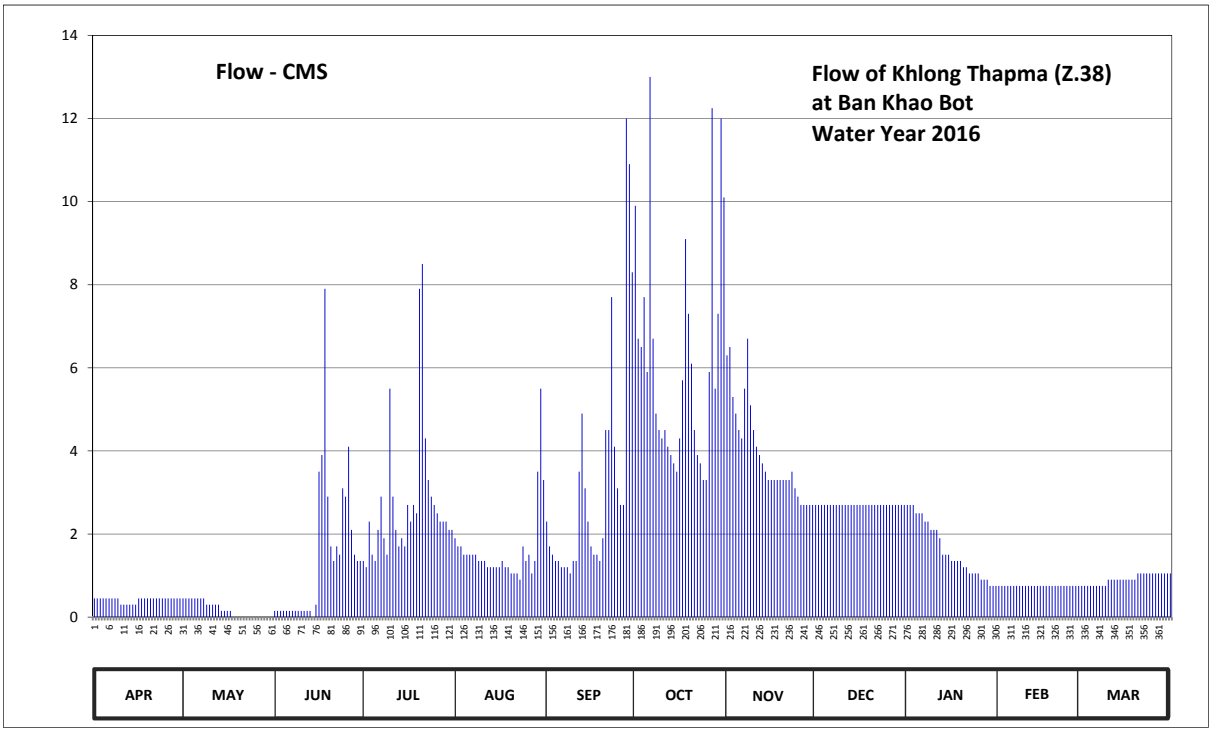
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.73	8.73	8.71	8.79	8.82	8.84	9.22	9.04	8.86	8.86	8.75	8.75	
2	8.73	8.73	8.71	8.78	8.81	8.81	9.06	9.05	8.86	8.86	8.75	8.75	
3	8.73	8.73	8.71	8.84	8.81	8.80	9.05	8.99	8.86	8.86	8.75	8.75	
4	8.73	8.73	8.71	8.80	8.80	8.79	9.11	8.97	8.86	8.85	8.75	8.75	
5	8.73	8.73	8.71	8.79	8.80	8.79	9.02	8.95	8.86	8.85	8.75	8.75	
6	8.73	8.73	8.71	8.83	8.80	8.78	9.36	8.94	8.86	8.85	8.75	8.75	
7	8.73	8.73	8.71	8.87	8.80	8.78	9.06	9.00	8.86	8.84	8.75	8.75	
8	8.73	8.73	8.71	8.82	8.80	8.78	8.97	9.06	8.86	8.84	8.75	8.75	
9	8.73	8.72	8.71	8.80	8.79	8.77	8.95	8.98	8.86	8.83	8.75	8.75	
10	8.72	8.72	8.71	9.00	8.79	8.79	8.94	8.95	8.86	8.83	8.75	8.76	
11	8.72	8.72	8.71	8.87	8.79	8.79	8.95	8.93	8.86	8.83	8.75	8.76	
12	8.72	8.72	8.71	8.83	8.78	8.90	8.93	8.92	8.86	8.82	8.75	8.76	
13	8.72	8.72	8.71	8.81	8.78	8.97	8.92	8.91	8.86	8.80	8.75	8.76	
14	8.72	8.71	8.70	8.82	8.78	8.88	8.91	8.90	8.86	8.80	8.75	8.76	
15	8.72	8.71	8.72	8.81	8.78	8.84	8.90	8.89	8.86	8.80	8.75	8.76	
16	8.73	8.71	8.90	8.86	8.78	8.81	8.94	8.89	8.86	8.79	8.75	8.76	
17	8.73	8.71	8.92	8.84	8.79	8.80	9.01	8.89	8.86	8.79	8.75	8.76	
18	8.73	8.70	9.12	8.86	8.78	8.80	9.18	8.89	8.86	8.79	8.75	8.76	
19	8.73	8.70	8.87	8.85	8.78	8.79	9.09	8.89	8.86	8.79	8.75	8.76	
20	8.73	8.70	8.81	9.12	8.77	8.82	9.03	8.89	8.86	8.78	8.75	8.77	
21	8.73	8.69	8.79	9.15	8.77	8.95	8.95	8.89	8.86	8.78	8.75	8.77	
22	8.73	8.69	8.81	8.94	8.77	8.95	8.92	8.89	8.86	8.77	8.75	8.77	
23	8.73	8.69	8.80	8.89	8.76	9.11	8.91	8.90	8.86	8.77	8.75	8.77	
24	8.73	8.69	8.88	8.87	8.81	8.93	8.89	8.88	8.86	8.77	8.75	8.77	
25	8.73	8.69	8.87	8.86	8.79	8.88	8.89	8.87	8.86	8.77	8.75	8.77	
26	8.73	8.68	8.93	8.85	8.80	8.86	9.02	8.86	8.86	8.76	8.75	8.77	
27	8.73	8.68	8.83	8.84	8.77	8.86	9.33	8.86	8.86	8.76	8.75	8.77	
28	8.73	8.68	8.80	8.84	8.79	9.32	9.00	8.86	8.86	8.76	8.75	8.77	
29	8.73	8.68	8.79	8.84	8.90	9.27	9.09	8.86	8.86	8.75		8.77	
30	8.73	8.68	8.79	8.83	9.00	9.14	9.32	8.86	8.86	8.75		8.77	
31		8.68		8.83	8.89		9.23		8.86	8.75		8.77	
Mean	8.73	8.71	8.79	8.86	8.80	8.89	9.04	8.92	8.86	8.80	8.75	8.76	
Max	8.73	8.73	9.12	9.15	9.00	9.32	9.36	9.06	8.86	8.86	8.75	8.77	9.36
Min	8.72	8.68	8.70	8.78	8.76	8.77	8.89	8.86	8.86	8.75	8.75	8.75	8.68

Annual Max Momentary Gage Height 9.74 m. (MSL.) , at 06.00 Hours, on Oct 27, 2016

Zero Gage at Bottom Elevation 8.10 m. (MSL.) , River Bed 7.70 m. (MSL.)

Left Bank Elevation 10.83 m. (MSL.) ,

Right Bank Elevation 10.85 m. (MSL.) , Drainage Are 150 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.45	0.15	1.35	1.90	2.30	9.90	6.30	2.70	2.70	0.75	0.75	
2	0.45	0.45	0.15	1.20	1.70	1.70	6.70	6.50	2.70	2.70	0.75	0.75	
3	0.45	0.45	0.15	2.30	1.70	1.50	6.50	5.30	2.70	2.70	0.75	0.75	
4	0.45	0.45	0.15	1.50	1.50	1.35	7.70	4.90	2.70	2.50	0.75	0.75	
5	0.45	0.45	0.15	1.35	1.50	1.35	5.90	4.50	2.70	2.50	0.75	0.75	
6	0.45	0.45	0.15	2.10	1.50	1.20	13.00	4.30	2.70	2.50	0.75	0.75	
7	0.45	0.45	0.15	2.90	1.50	1.20	6.70	5.50	2.70	2.30	0.75	0.75	
8	0.45	0.45	0.15	1.90	1.50	1.20	4.90	6.70	2.70	2.30	0.75	0.75	
9	0.45	0.30	0.15	1.50	1.35	1.05	4.50	5.10	2.70	2.10	0.75	0.75	
10	0.30	0.30	0.15	5.50	1.35	1.35	4.30	4.50	2.70	2.10	0.75	0.90	
11	0.30	0.30	0.15	2.90	1.35	1.35	4.50	4.10	2.70	2.10	0.75	0.90	
12	0.30	0.30	0.15	2.10	1.20	3.50	4.10	3.90	2.70	1.90	0.75	0.90	
13	0.30	0.30	0.15	1.70	1.20	4.90	3.90	3.70	2.70	1.50	0.75	0.90	
14	0.30	0.15	0.00	1.90	1.20	3.10	3.70	3.50	2.70	1.50	0.75	0.90	
15	0.30	0.15	0.30	1.70	1.20	2.30	3.50	3.30	2.70	1.50	0.75	0.90	
16	0.45	0.15	3.50	2.70	1.20	1.70	4.30	3.30	2.70	1.35	0.75	0.90	
17	0.45	0.15	3.90	2.30	1.35	1.50	5.70	3.30	2.70	1.35	0.75	0.90	
18	0.45	0.00	7.90	2.70	1.20	1.50	9.10	3.30	2.70	1.35	0.75	0.90	
19	0.45	0.00	2.90	2.50	1.20	1.35	7.30	3.30	2.70	1.35	0.75	0.90	
20	0.45	0.00	1.70	7.90	1.05	1.90	6.10	3.30	2.70	1.20	0.75	1.05	
21	0.45	0.00	1.35	8.50	1.05	4.50	4.50	3.30	2.70	1.20	0.75	1.05	
22	0.45	0.00	1.70	4.30	1.05	4.50	3.90	3.30	2.70	1.05	0.75	1.05	
23	0.45	0.00	1.50	3.30	0.90	7.70	3.70	3.50	2.70	1.05	0.75	1.05	
24	0.45	0.00	3.10	2.90	1.70	4.10	3.30	3.10	2.70	1.05	0.75	1.05	
25	0.45	0.00	2.90	2.70	1.35	3.10	3.30	2.90	2.70	1.05	0.75	1.05	
26	0.45	0.00	4.10	2.50	1.50	2.70	5.90	2.70	2.70	0.90	0.75	1.05	
27	0.45	0.00	2.10	2.30	1.05	2.70	12.25	2.70	2.70	0.90	0.75	1.05	
28	0.45	0.00	1.50	2.30	1.35	12.00	5.50	2.70	2.70	0.90	0.75	1.05	
29	0.45	0.00	1.35	2.30	3.50	10.90	7.30	2.70	2.70	0.75		1.05	
30	0.45	0.00	1.35	2.10	5.50	8.30	12.00	2.70	2.70	0.75		1.05	
31		0.00		2.10	3.30		10.10		2.70	0.75		1.05	
Total	12.60	5.70	43.10	85.30	49.90	97.80	194.05	118.20	83.70	49.85	21.00	28.35	789.55 CMSDAY
Mean	0.42	0.18	1.44	2.75	1.61	3.26	6.26	3.94	2.70	1.61	0.75	0.91	2.16 CMS
Max	0.45	0.45	7.90	8.50	5.50	12.00	13.00	6.70	2.70	2.70	0.75	1.05	13.00 CMS
Min	0.30	0.00	0.00	1.20	0.90	1.05	3.30	2.70	2.70	0.75	0.75	0.75	0.00 CMS
Runoff	1.09	0.49	3.72	7.37	4.31	8.45	16.77	10.21	7.23	4.31	1.81	2.45	68.22 MCM

Momentary Peak 22.50 CMS, at 9.74 m. (MSL.), at 06.00 Hours, on Oct 27, 2016

Runoff Yield 14.42 Liters/Second/Square KM. Momentary Peak Yield 150.000 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)

Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

Ban Prakaet **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	451 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+17.754 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 200 meters from the gage observer's house. **Elevation** +24.921 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	1996 to date.
Rating Operation	
Period of Rating	2000 to date.
Rated by Flot	-
Rated by Current Meter	2000 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

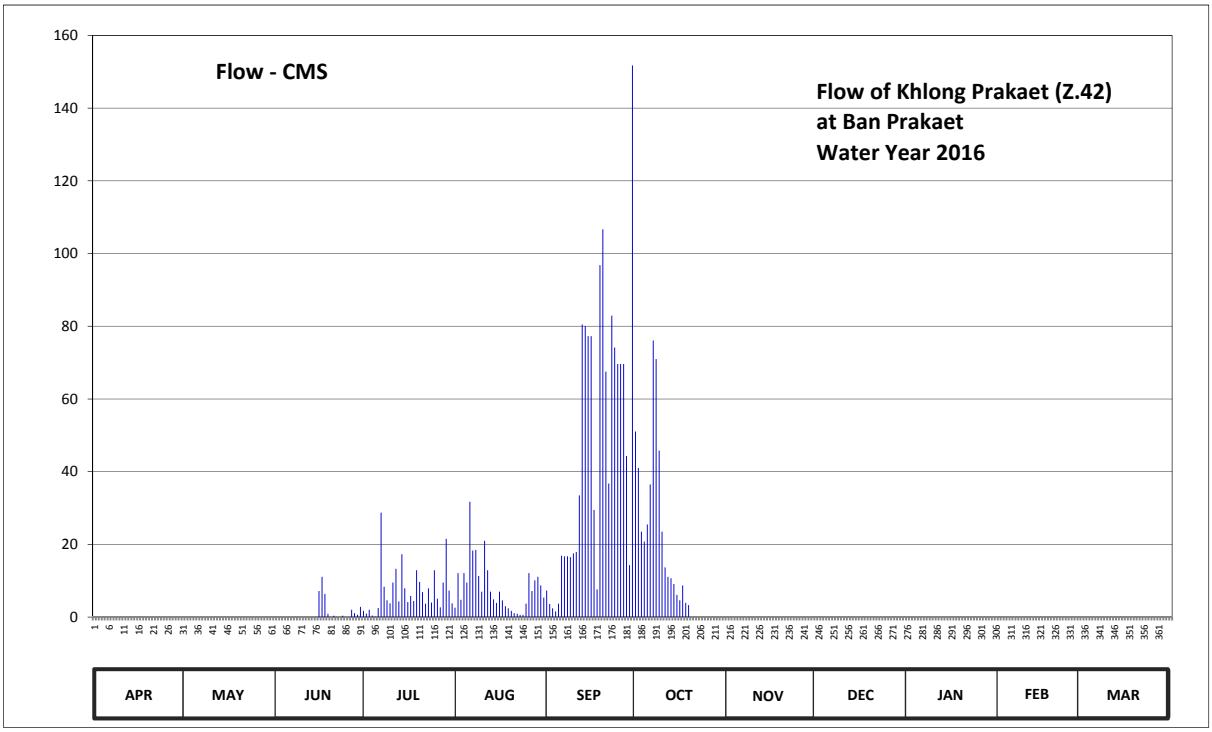
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				18.27	18.36	18.72	20.53	19.21					
2				18.19	18.98	18.46	20.20	19.22					
3				18.30	18.55	18.34	19.52	19.20					
4				18.09	18.98	18.26	19.41	19.19					
5				18.03	18.85	18.47	19.60	19.18					
6				18.35	19.85	19.22	20.04	19.17					
7				19.73	19.29	19.21	21.24	19.17					
8				18.79	19.30	19.21	21.10	19.17					
9				18.54	18.94	19.20	20.36	19.16					
10				18.48	18.70	19.25	19.52	19.16					
11				18.85	19.42	19.27	19.06	19.12					
12				19.04	19.02	19.92	18.93	19.12					
13				18.52	18.70	21.35	18.91	19.14					
14				19.24	18.56	21.34	18.83	19.14					
15				18.76	18.49	21.27	18.64	19.13					
16			18.71	18.51	18.70	21.27	18.54	19.13					
17			18.93	18.62	18.54	19.76	18.81	19.11					
18			18.66	18.53	18.40	18.74	18.49	19.10					
19			18.18	19.02	18.34	21.74	18.43	19.08					
20			18.00	18.86	18.27	21.96	18.88	19.11					
21			18.08	18.69	18.21	21.00	19.32	19.12					
22			18.01	18.47	18.18	20.05	19.33	19.13					
23			17.97	18.76	18.12	21.41	19.29	19.13					
24			18.08	18.50	18.12	21.19	19.25	19.14					
25			17.97	19.02	18.47	21.06	19.26	19.13					
26			18.01	18.57	18.98	21.06	19.25	19.12					
27			18.30	18.37	18.71	21.06	19.37	19.11					
28			18.21	18.85	18.88	20.31	19.47	19.11					
29			18.13	19.44	18.93	19.09	19.29	19.11					
30			18.38	18.72	18.81	22.85	19.25	19.10					
31				18.48	18.59		19.22						
Mean			18.24	18.66	18.72	20.13	19.40	19.14					
Max			18.93	19.73	19.85	22.85	21.24	19.22					22.85
Min			17.97	18.03	18.12	18.26	18.43	19.08					17.97

Annual Max Momentary Gage Height 23.32 m. (MSL.) , at 17.00 Hours, on Sep 30, 2016

Zero Gage at Bottom Elevation 17.75 m. (MSL.) , River Bed 17.13 m. (MSL.)

Left Bank Elevation 24.92 m. (MSL.) ,

Right Bank Elevation 24.88 m. (MSL.) , Drainage Are 451 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				1.70	2.60	7.30	51.05	0.00					
2				0.95	12.10	3.60	41.00	0.00					
3				2.00	4.75	2.40	23.50	0.00					
4				0.45	12.10	1.60	20.75	0.00					
5				0.15	9.50	3.70	25.50	0.00					
6				2.50	31.75	16.90	36.50	0.00					
7				28.75	18.30	16.70	76.10	0.00					
8				8.35	18.50	16.70	71.00	0.00					
9				4.60	11.30	16.50	45.80	0.00					
10				3.80	7.00	17.50	23.50	0.00					
11				9.50	21.00	17.90	13.70	0.00					
12				13.30	12.90	33.50	11.10	0.00					
13				4.30	7.00	80.50	10.70	0.00					
14				17.30	4.90	80.10	9.10	0.00					
15				7.90	3.90	77.30	6.10	0.00					
16			7.15	4.15	7.00	77.30	4.60	0.00					
17			11.10	5.80	4.60	29.50	8.70	0.00					
18			6.40	4.45	3.00	7.60	3.90	0.00					
19			0.90	12.90	2.40	96.80	3.30	0.00					
20			0.00	9.70	1.70	106.70	0.00	0.00					
21			0.40	6.85	1.10	67.50	0.00	0.00					
22			0.05	3.70	0.90	36.75	0.00	0.00					
23			0.00	7.90	0.60	82.90	0.00	0.00					
24			0.40	4.00	0.60	74.15	0.00	0.00					
25			0.00	12.90	3.70	69.60	0.00	0.00					
26			0.05	5.05	12.10	69.60	0.00	0.00					
27			2.00	2.70	7.15	69.60	0.00	0.00					
28			1.10	9.50	10.10	44.30	0.00	0.00					
29			0.65	21.50	11.10	14.30	0.00	0.00					
30			2.80	7.30	8.70	151.75	0.00	0.00					
31				3.80	5.35		0.00						
Total			33.00	227.75	257.70	1390.55	485.90						2394.90 CMSDAY
Mean			2.20	7.35	8.31	46.35	15.67	0.00					14.26 CMS
Max			11.10	28.75	31.75	151.75	76.10	0.00					151.75 CMS
Min			0.00	0.15	0.60	1.60	0.00	0.00					0.00 CMS
Runoff			2.85	19.68	22.27	120.14	41.98						206.92 MCM

Momentary Peak 177.60 CMS, at 23.32 m. (MSL.), at 17.00 Hours, on Sep 30, 2016

Runoff Yield 14.55 Liters/Second/Square KM. Momentary Peak Yield 393.790 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Aeng at Ban Kho Lae , Trat (Z.45)

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

Ban Kho Lae **Amphoe** Bo Rai **Changwat** Trat

Drainge Area	58 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+30.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 15 meters from the top staff gage. **Elevation** +36.550 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

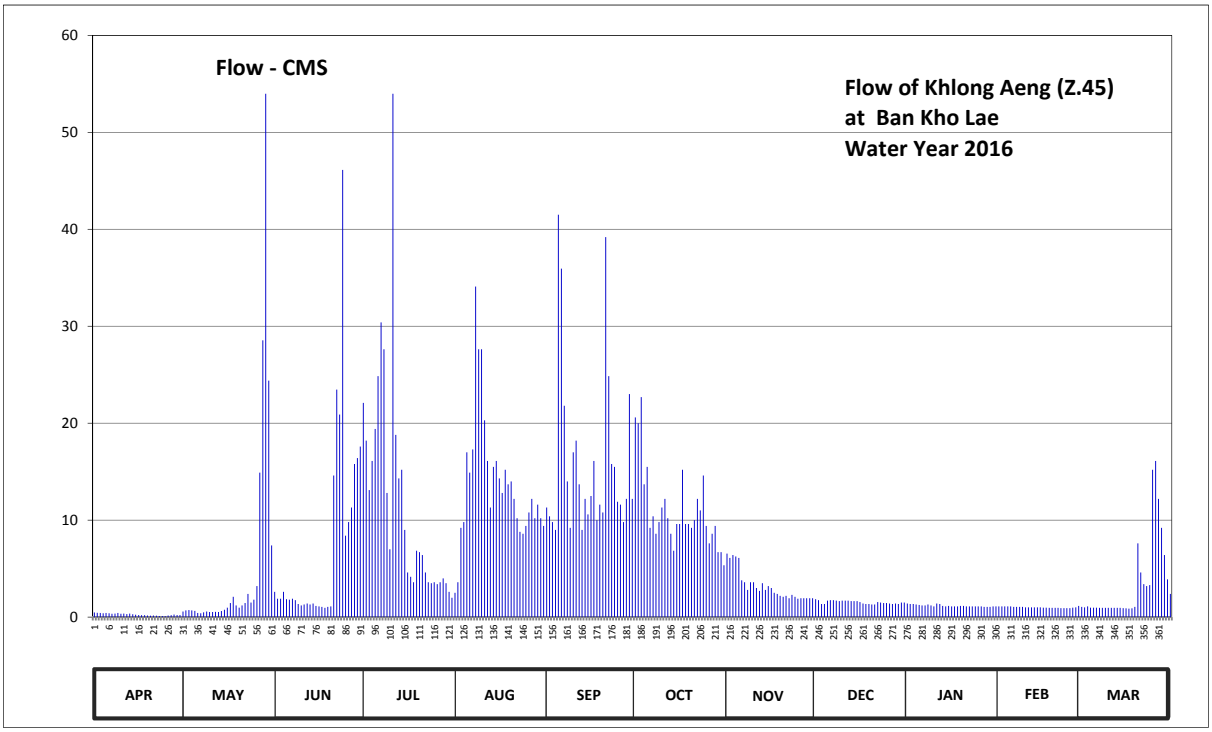
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.29	30.33	30.76	31.67	30.75	31.31	31.62	31.07	30.67	30.58	30.52	30.51	
2	30.28	30.38	30.68	31.54	30.86	31.27	31.60	31.04	30.65	30.57	30.52	30.50	
3	30.27	30.39	30.68	31.37	31.21	31.24	31.69	31.06	30.57	30.57	30.52	30.52	
4	30.26	30.38	30.76	31.47	31.24	31.20	31.39	31.05	30.57	30.56	30.52	30.49	
5	30.27	30.36	30.67	31.58	31.50	32.10	31.45	31.04	30.64	30.55	30.52	30.49	
6	30.26	30.27	30.66	31.74	31.43	31.98	31.21	30.88	30.65	30.54	30.51	30.49	
7	30.24	30.26	30.68	31.86	31.51	31.66	31.27	30.86	30.65	30.54	30.51	30.48	
8	30.25	30.30	30.65	31.80	31.94	31.40	31.18	30.78	30.64	30.56	30.51	30.48	
9	30.27	30.33	30.57	31.36	31.80	31.21	31.24	30.86	30.63	30.54	30.51	30.48	
10	30.24	30.31	30.54	31.10	31.80	31.50	31.31	30.86	30.64	30.52	30.50	30.48	
11	30.25	30.31	30.56	32.37	31.61	31.54	31.34	30.80	30.64	30.58	30.50	30.48	
12	30.23	30.32	30.58	31.56	31.47	31.39	31.26	30.77	30.64	30.57	30.50	30.48	
13	30.25	30.31	30.56	31.41	31.31	31.20	31.18	30.85	30.63	30.53	30.50	30.48	
14	30.22	30.35	30.58	31.44	31.45	31.34	31.09	30.78	30.63	30.52	30.50	30.48	
15	30.20	30.40	30.53	31.20	31.47	31.28	31.23	30.82	30.63	30.53	30.50	30.47	
16	30.19	30.49	30.52	30.94	31.41	31.35	31.23	30.80	30.61	30.52	30.49	30.46	
17	30.18	30.59	30.51	30.91	31.36	31.47	31.44	30.75	30.58	30.52	30.49	30.45	
18	30.18	30.71	30.48	30.86	31.44	31.25	31.23	30.74	30.57	30.52	30.48	30.46	
19	30.17	30.54	30.51	31.09	31.39	31.32	31.23	30.72	30.57	30.53	30.48	30.51	
20	30.16	30.49	30.52	31.08	31.40	31.29	31.21	30.71	30.56	30.53	30.48	31.13	
21	30.17	30.54	31.42	31.06	31.34	32.05	31.25	30.72	30.56	30.52	30.48	30.94	
22	30.16	30.59	31.71	30.94	31.26	31.74	31.34	30.69	30.61	30.52	30.47	30.84	
23	30.15	30.74	31.63	30.86	31.19	31.46	31.30	30.73	30.60	30.52	30.47	30.82	
24	30.15	30.60	32.20	30.85	31.18	31.45	31.42	30.71	30.59	30.52	30.47	30.83	
25	30.14	30.66	31.17	30.86	31.22	31.33	31.22	30.68	30.59	30.52	30.47	31.44	
26	30.17	30.82	31.24	30.84	31.29	31.32	31.13	30.69	30.58	30.52	30.49	31.47	
27	30.18	31.43	31.31	30.86	31.34	31.24	31.18	30.69	30.57	30.51	30.50	31.34	
28	30.21	31.82	31.46	30.90	31.26	31.34	31.22	30.69	30.58	30.51	30.53	31.21	
29	30.19	32.37	31.48	30.85	31.32	31.70	31.08	30.69	30.57	30.51		31.06	
30	30.19	31.73	31.52	30.76	31.26	31.34	31.08	30.69	30.60	30.52		30.89	
31		31.12		30.70	31.22		30.99		30.60	30.52		30.74	
Mean	30.21	30.65	30.90	31.22	31.36	31.44	31.28	30.81	30.61	30.53	30.50	30.71	
Max	30.29	32.37	32.20	32.37	31.94	32.10	31.69	31.07	30.67	30.58	30.53	31.47	32.37
Min	30.14	30.26	30.48	30.70	30.75	31.20	30.99	30.68	30.56	30.51	30.47	30.45	30.14

Annual Max Momentary Gage Height 32.90 m. (MSL.) , at 12.00 Hours, on Jul 11, 2016

Zero Gage at Bottom Elevation 30.00 m. (MSL.) , River Bed 29.55 m. (MSL.)

Left Bank Elevation 34.84 m. (MSL.) ,

Right Bank Elevation 34.81 m. (MSL.) , Drainage Are 58 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.47	0.57	2.60	22.10	2.50	11.30	20.60	6.55	1.85	1.40	1.10	1.05		
2	0.45	0.70	1.90	18.20	3.60	10.40	20.00	6.10	1.75	1.35	1.10	1.00		
3	0.42	0.72	1.90	13.10	9.20	9.80	22.70	6.40	1.35	1.35	1.10	1.10		
4	0.40	0.70	2.60	16.10	9.80	9.00	13.70	6.25	1.35	1.30	1.10	0.97		
5	0.42	0.65	1.85	19.40	17.00	41.50	15.50	6.10	1.70	1.25	1.10	0.97		
6	0.40	0.42	1.80	24.85	14.90	35.95	9.20	3.80	1.75	1.20	1.05	0.97		
7	0.35	0.40	1.90	30.40	17.30	21.80	10.40	3.60	1.75	1.20	1.05	0.95		
8	0.37	0.50	1.75	27.62	34.10	14.00	8.60	2.80	1.70	1.30	1.05	0.95		
9	0.42	0.57	1.35	12.80	27.62	9.20	9.80	3.60	1.65	1.20	1.05	0.95		
10	0.35	0.52	1.20	7.00	27.62	17.00	11.30	3.60	1.70	1.10	1.00	0.95		
11	0.37	0.52	1.30	53.99	20.30	18.20	12.20	3.00	1.70	1.40	1.00	0.95		
12	0.32	0.55	1.40	18.80	16.10	13.70	10.20	2.70	1.70	1.35	1.00	0.95		
13	0.37	0.52	1.30	14.30	11.30	9.00	8.60	3.50	1.65	1.15	1.00	0.95		
14	0.30	0.62	1.40	15.20	15.50	12.20	6.85	2.80	1.65	1.10	1.00	0.95		
15	0.25	0.75	1.15	9.00	16.10	10.60	9.60	3.20	1.65	1.15	1.00	0.92		
16	0.22	0.97	1.10	4.60	14.30	12.50	9.60	3.00	1.55	1.10	0.97	0.90		
17	0.20	1.45	1.05	4.15	12.80	16.10	15.20	2.50	1.40	1.10	0.97	0.87		
18	0.20	2.10	0.95	3.60	15.20	10.00	9.60	2.40	1.35	1.10	0.95	0.90		
19	0.17	1.20	1.05	6.85	13.70	11.60	9.60	2.20	1.35	1.15	0.95	1.05		
20	0.15	0.97	1.10	6.70	14.00	10.80	9.20	2.10	1.30	1.15	0.95	7.60		
21	0.17	1.20	14.60	6.40	12.20	39.19	10.00	2.20	1.30	1.10	0.95	4.60		
22	0.15	1.45	23.46	4.60	10.20	24.85	12.20	1.95	1.55	1.10	0.92	3.40		
23	0.12	2.40	20.90	3.60	8.80	15.80	11.00	2.30	1.50	1.10	0.92	3.20		
24	0.12	1.50	46.12	3.50	8.60	15.50	14.60	2.10	1.45	1.10	0.92	3.30		
25	0.10	1.80	8.40	3.60	9.40	11.90	9.40	1.90	1.45	1.10	0.92	15.20		
26	0.17	3.20	9.80	3.40	10.80	11.60	7.60	1.95	1.40	1.10	0.97	16.10		
27	0.20	14.90	11.30	3.60	12.20	9.80	8.60	1.95	1.35	1.05	1.00	12.20		
28	0.27	28.55	15.80	4.00	10.20	12.20	9.40	1.95	1.40	1.05	1.15	9.20		
29	0.22	53.99	16.40	3.50	11.60	23.00	6.70	1.95	1.35	1.05		6.40		
30	0.22	24.39	17.60	2.60	10.20	12.20	6.70	1.95	1.50	1.10		3.90		
31		7.40		2.00	9.40		5.35		1.50	1.10		2.40		
Total	8.34	156.18	215.03	369.56	426.54	480.69	344.00	96.40	47.60	36.35	28.24	105.80	2314.73	CMSDAY
Mean	0.28	5.04	7.17	11.92	13.76	16.02	11.10	3.21	1.54	1.17	1.01	3.41	6.34	CMS
Max	0.47	53.99	46.12	53.99	34.10	41.50	22.70	6.55	1.85	1.40	1.15	16.10	53.99	CMS
Min	0.10	0.40	0.95	2.00	2.50	9.00	5.35	1.90	1.30	1.05	0.92	0.87	0.10	CMS
Runoff	0.72	13.49	18.58	31.93	36.85	41.53	29.72	8.33	4.11	3.14	2.44	9.14	199.99	MCM

Momentary Peak 85.00 CMS, at 32.90 m. (MSL.), at 12.00 Hours, on Jul 11, 2016

Runoff Yield 109.34 Liters/Second/Square KM. Momentary Peak Yield 1465.520 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Sano at Ban Nonthee , Trat (Z.46)

Lat 12 - 31 - 05 N Long 102 - 35 - 00 E

Location : on right bank at Ban Nonthee.

	Ban Nonthee	**Amphoe** Bo Rai	**Changwat** Trat
Drainge Area	92 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+19.128 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 50 meters from the top staff gage.	**Elevation**	+27.928 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

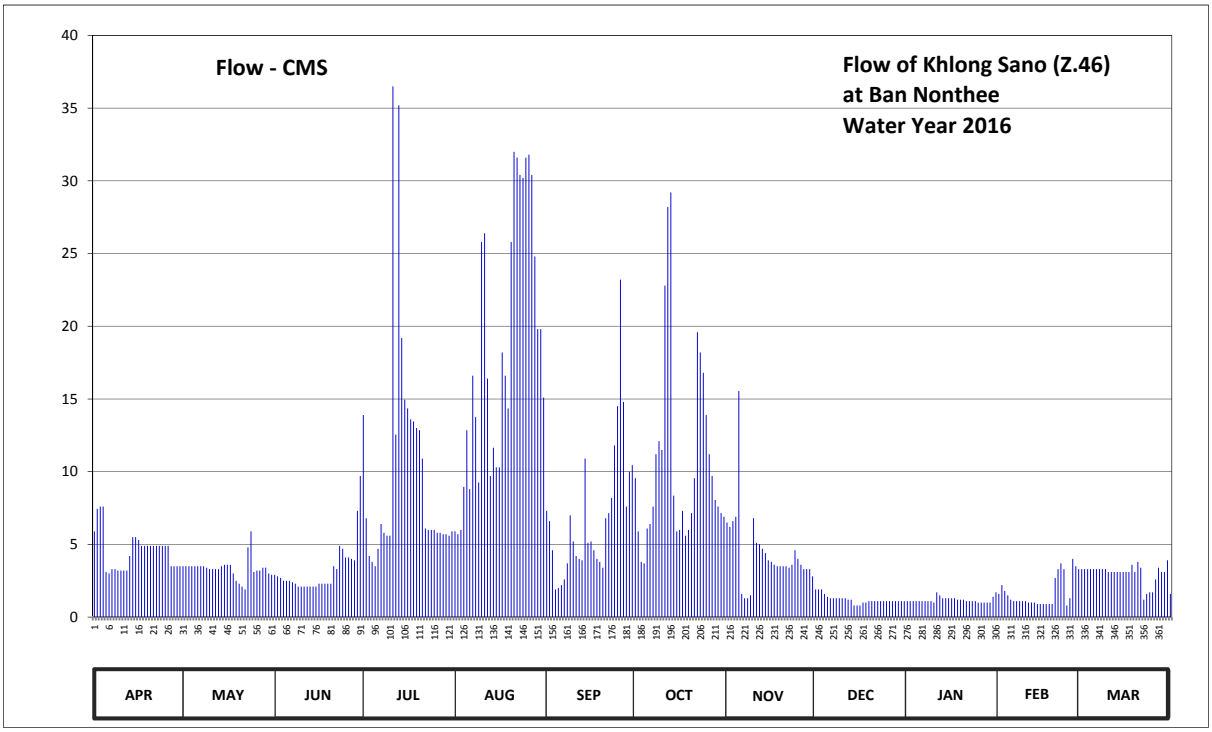
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.39	20.15	20.09	20.96	20.39	20.52	20.67	20.45	19.99	19.91	19.96	20.13	
2	20.53	20.15	20.08	20.48	20.37	20.46	20.39	20.42	19.99	19.91	20.02	20.13	
3	20.54	20.15	20.07	20.22	20.40	20.26	20.18	20.46	19.99	19.91	19.98	20.13	
4	20.54	20.15	20.05	20.18	20.63	19.99	20.17	20.49	19.96	19.91	19.95	20.13	
5	20.11	20.15	20.05	20.15	20.89	20.00	20.41	21.07	19.94	19.91	19.92	20.13	
6	20.10	20.15	20.05	20.27	20.62	20.02	20.44	19.96	19.93	19.91	19.91	20.13	
7	20.13	20.15	20.04	20.44	21.13	20.06	20.54	19.93	19.93	19.91	19.91	20.13	
8	20.13	20.15	20.03	20.38	20.95	20.17	20.78	19.93	19.93	19.91	19.91	20.13	
9	20.12	20.14	20.01	20.36	20.65	20.50	20.84	19.95	19.93	19.91	19.91	20.13	
10	20.12	20.13	20.01	20.36	21.59	20.32	20.80	20.48	19.93	19.90	19.91	20.11	
11	20.12	20.13	20.01	22.12	21.62	20.22	21.44	20.31	19.93	19.97	19.90	20.11	
12	20.12	20.13	20.01	20.87	21.12	20.20	21.71	20.30	19.92	19.95	19.90	20.11	
13	20.22	20.13	20.01	22.06	20.68	20.19	21.76	20.27	19.92	19.93	19.90	20.11	
14	20.35	20.15	20.01	21.26	20.81	20.76	20.59	20.24	19.88	19.93	19.89	20.11	
15	20.35	20.16	20.01	21.03	20.72	20.31	20.39	20.19	19.88	19.93	19.89	20.11	
16	20.33	20.16	20.03	20.99	20.72	20.32	20.40	20.18	19.88	19.93	19.89	20.11	
17	20.29	20.16	20.03	20.94	21.21	20.26	20.52	20.16	19.90	19.93	19.89	20.11	
18	20.29	20.10	20.03	20.93	21.13	20.20	20.36	20.15	19.90	19.92	19.89	20.16	
19	20.29	20.05	20.03	20.90	20.99	20.18	20.40	20.15	19.91	19.92	19.89	20.11	
20	20.29	20.03	20.03	20.89	21.59	20.14	20.51	20.15	19.91	19.92	20.07	20.18	
21	20.29	20.01	20.15	20.76	21.90	20.48	20.67	20.15	19.91	19.91	20.13	20.14	
22	20.29	19.99	20.13	20.41	21.88	20.51	21.28	20.14	19.91	19.91	20.17	19.92	
23	20.29	20.28	20.29	20.40	21.82	20.58	21.21	20.16	19.91	19.91	20.13	19.96	
24	20.29	20.39	20.27	20.40	21.81	20.82	21.14	20.26	19.91	19.91	19.88	19.97	
25	20.29	20.11	20.21	20.40	21.88	21.00	20.96	20.20	19.91	19.90	19.93	19.97	
26	20.29	20.12	20.21	20.38	21.89	21.46	20.78	20.16	19.91	19.90	20.20	20.06	
27	20.15	20.12	20.20	20.38	21.82	21.02	20.68	20.13	19.91	19.90	20.15	20.14	
28	20.15	20.14	20.19	20.37	21.54	20.54	20.57	20.13	19.91	19.90	20.13	20.11	
29	20.15	20.14	20.52	20.37	21.29	20.70	20.54	20.13	19.91	19.90		20.11	
30	20.15	20.10	20.68	20.36	21.29	20.73	20.51	20.08	19.91	19.94		20.19	
31		20.09		20.39	21.04		20.49		19.91	19.97		19.96	
Mean	20.26	20.13	20.12	20.66	21.17	20.43	20.71	20.23	19.92	19.92	19.97	20.10	
Max	20.54	20.39	20.68	22.12	21.90	21.46	21.76	21.07	19.99	19.97	20.20	20.19	22.12
Min	20.10	19.99	20.01	20.15	20.37	19.99	20.17	19.93	19.88	19.90	19.88	19.92	19.88

Annual Max Momentary Gage Height 23.49 m. (MSL.) , at 18.00 Hours, on Jul 11, 2016

Zero Gage at Bottom Elevation 19.13 m. (MSL.) , River Bed 19.05 m. (MSL.)

Left Bank Elevation 28.25 m. (MSL.) ,

Right Bank Elevation 27.87 m. (MSL.) , Drainage Are 92 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.90	3.50	2.90	13.90	5.90	7.30	9.55	6.50	1.90	1.10	1.60	3.30		
2	7.45	3.50	2.80	6.80	5.70	6.60	5.90	6.20	1.90	1.10	2.20	3.30		
3	7.60	3.50	2.70	4.20	6.00	4.60	3.80	6.60	1.90	1.10	1.80	3.30		
4	7.60	3.50	2.50	3.80	8.95	1.90	3.70	6.90	1.60	1.10	1.50	3.30		
5	3.10	3.50	2.50	3.50	12.85	2.00	6.10	15.55	1.40	1.10	1.20	3.30		
6	3.00	3.50	2.50	4.70	8.80	2.20	6.40	1.60	1.30	1.10	1.10	3.30		
7	3.30	3.50	2.40	6.40	16.60	2.60	7.60	1.30	1.30	1.10	1.10	3.30		
8	3.30	3.50	2.30	5.80	13.75	3.70	11.20	1.30	1.30	1.10	1.10	3.30		
9	3.20	3.40	2.10	5.60	9.25	7.00	12.10	1.50	1.30	1.10	1.10	3.30		
10	3.20	3.30	2.10	5.60	25.80	5.20	11.50	6.80	1.30	1.00	1.10	3.10		
11	3.20	3.30	2.10	36.50	26.40	4.20	22.80	5.10	1.30	1.70	1.00	3.10		
12	3.20	3.30	2.10	12.55	16.40	4.00	28.20	5.00	1.20	1.50	1.00	3.10		
13	4.20	3.30	2.10	35.20	9.70	3.90	29.20	4.70	1.20	1.30	1.00	3.10		
14	5.50	3.50	2.10	19.20	11.65	10.90	8.35	4.40	0.80	1.30	0.90	3.10		
15	5.50	3.60	2.10	14.95	10.30	5.10	5.90	3.90	0.80	1.30	0.90	3.10		
16	5.30	3.60	2.30	14.35	10.30	5.20	6.00	3.80	0.80	1.30	0.90	3.10		
17	4.90	3.60	2.30	13.60	18.20	4.60	7.30	3.60	1.00	1.30	0.90	3.10		
18	4.90	3.00	2.30	13.45	16.60	4.00	5.60	3.50	1.00	1.20	0.90	3.60		
19	4.90	2.50	2.30	13.00	14.35	3.80	6.00	3.50	1.10	1.20	0.90	3.10		
20	4.90	2.30	2.30	12.85	25.80	3.40	7.15	3.50	1.10	1.20	2.70	3.80		
21	4.90	2.10	3.50	10.90	32.00	6.80	9.55	3.50	1.10	1.10	3.30	3.40		
22	4.90	1.90	3.30	6.10	31.60	7.15	19.60	3.40	1.10	1.10	3.70	1.20		
23	4.90	4.80	4.90	6.00	30.40	8.20	18.20	3.60	1.10	1.10	3.30	1.60		
24	4.90	5.90	4.70	6.00	30.20	11.80	16.80	4.60	1.10	1.10	0.80	1.70		
25	4.90	3.10	4.10	6.00	31.60	14.50	13.90	4.00	1.10	1.00	1.30	1.70		
26	4.90	3.20	4.10	5.80	31.80	23.20	11.20	3.60	1.10	1.00	4.00	2.60		
27	3.50	3.20	4.00	5.80	30.40	14.80	9.70	3.30	1.10	1.00	3.50	3.40		
28	3.50	3.40	3.90	5.70	24.80	7.60	8.05	3.30	1.10	1.00	3.30	3.10		
29	3.50	3.40	7.30	5.70	19.80	10.00	7.60	3.30	1.10	1.00		3.10		
30	3.50	3.00	9.70	5.60	19.80	10.45	7.15	2.80	1.10	1.40		3.90		
31		2.90		5.90	15.10		6.90		1.10	1.70		1.60		
Total	137.55	103.60	96.30	315.45	570.80	206.70	333.00	130.65	37.60	36.70	48.10	92.30	2108.75	CMSDAY
Mean	4.59	3.34	3.21	10.18	18.41	6.89	10.74	4.35	1.21	1.18	1.72	2.98	5.78	CMS
Max	7.60	5.90	9.70	36.50	32.00	23.20	29.20	15.55	1.90	1.70	4.00	3.90	36.50	CMS
Min	3.00	1.90	2.10	3.50	5.70	1.90	3.70	1.30	0.80	1.00	0.80	1.20	0.80	CMS
Runoff	11.88	8.95	8.32	27.25	49.32	17.86	28.77	11.29	3.25	3.17	4.16	7.97	182.20	MCM

Momentary Peak 72.49 CMS, at 23.49 m. (MSL.), at 18.00 Hours, on Jul 11, 2016

Runoff Yield 62.80 Liters/Second/Square KM. Momentary Peak Yield 787.930 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47A)

Lat 12 - 20 - 00 N Long 102 - 38 - 37 E

Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

Ban Khlong Khwang **Amphoe** Mueang **Changwat** Trat

Drainge Area	27 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+18.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	3-time daily readings at 06.00,12.00 and 18.00 hours. **Elevation** +23.608 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2011 to date
Rating Operation	
Period of Rating	2011 to date
Rated by Flot	-
Rated by Current Meter	2011 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

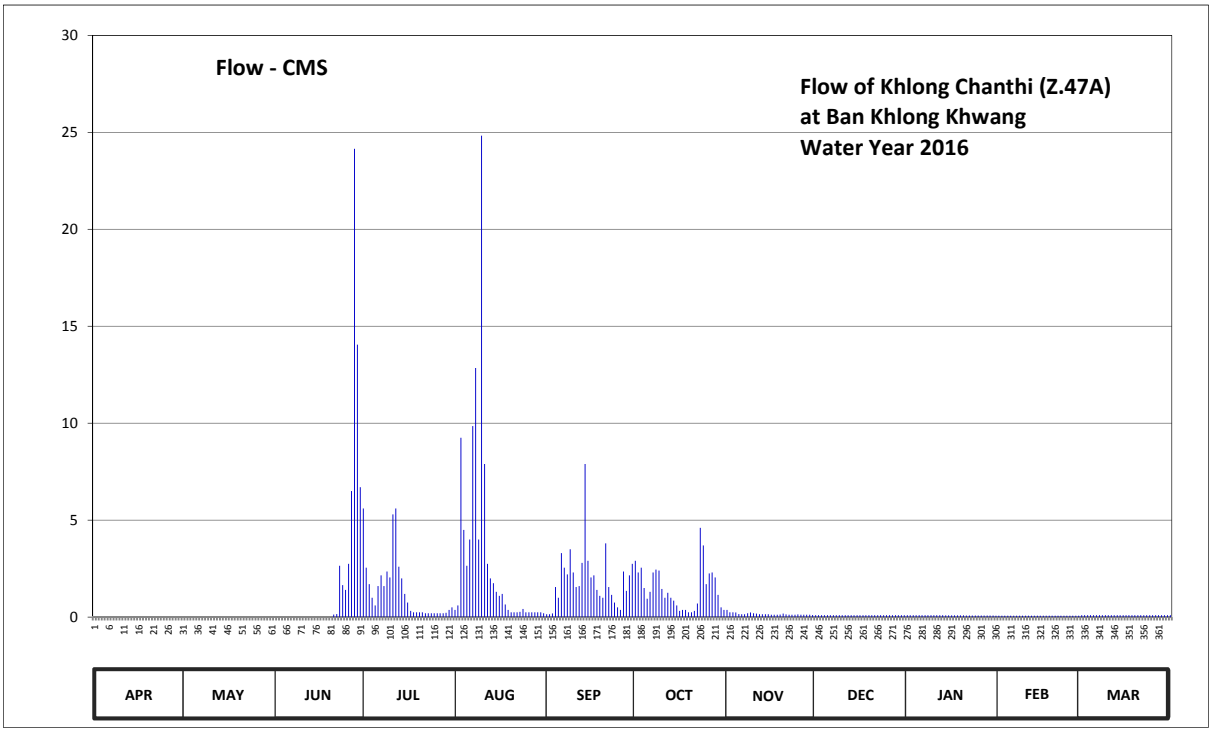
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				19.46	18.65	18.50	19.18	18.65	18.40	18.40	18.35	18.40	
2				19.11	18.72	18.50	19.06	18.60	18.40	18.40	18.35	18.40	
3				18.94	19.75	18.54	19.11	18.60	18.40	18.40	18.35	18.40	
4				18.80	19.35	18.91	18.90	18.59	18.40	18.40	18.35	18.40	
5				18.72	19.13	18.80	18.79	18.51	18.40	18.40	18.35	18.40	
6				18.92	19.30	19.23	18.86	18.50	18.40	18.40	18.35	18.40	
7				19.03	19.79	19.11	19.06	18.50	18.40	18.40	18.35	18.40	
8				18.92	19.99	19.04	19.09	18.55	18.40	18.40	18.35	18.40	
9				19.07	19.30	19.25	19.08	18.59	18.40	18.40	18.35	18.40	
10				19.01	20.67	19.06	18.89	18.55	18.40	18.40	18.35	18.40	
11				19.43	19.66	18.91	18.80	18.53	18.40	18.40	18.35	18.40	
12				19.46	19.15	18.92	18.85	18.50	18.40	18.40	18.35	18.40	
13				19.12	19.00	19.16	18.80	18.50	18.40	18.40	18.35	18.40	
14				19.00	18.95	19.66	18.77	18.50	18.40	18.39	18.35	18.40	
15				18.84	18.86	19.18	18.72	18.50	18.40	18.39	18.35	18.40	
16				18.75	18.82	19.01	18.63	18.45	18.40	18.39	18.35	18.40	
17				18.63	18.84	19.03	18.65	18.45	18.40	18.39	18.35	18.40	
18				18.60	18.73	18.88	18.65	18.45	18.40	18.38	18.35	18.40	
19				18.60	18.65	18.82	18.60	18.47	18.40	18.38	18.35	18.40	
20			18.15	18.60	18.60	18.80	18.60	18.53	18.40	18.38	18.35	18.40	
21			18.47	18.60	18.60	19.28	18.63	18.48	18.40	18.37	18.35	18.40	
22			18.51	18.55	18.60	18.91	18.74	18.45	18.40	18.37	18.35	18.40	
23			19.13	18.55	18.61	18.83	19.36	18.45	18.40	18.37	18.35	18.40	
24			18.93	18.55	18.67	18.75	19.27	18.45	18.40	18.37	18.35	18.40	
25			18.88	18.55	18.60	18.70	18.94	18.49	18.40	18.37	18.35	18.40	
26			19.15	18.55	18.60	18.65	19.05	18.45	18.40	18.37	18.35	18.40	
27			19.55	18.55	18.60	19.07	19.06	18.45	18.40	18.37	18.35	18.40	
28			20.64	18.55	18.60	18.87	19.01	18.45	18.40	18.36	18.35	18.40	
29			20.07	18.57	18.60	19.03	18.83	18.45	18.40	18.36		18.40	
30			19.57	18.65	18.60	19.15	18.70	18.43	18.40	18.36		18.40	
31				18.70	18.55		18.65		18.40	18.35		18.40	
Mean			19.19	18.82	18.99	18.95	18.88	18.50	18.40	18.38	18.35	18.40	
Max			20.64	19.46	20.67	19.66	19.36	18.65	18.40	18.40	18.35	18.40	20.67
Min			18.15	18.55	18.55	18.50	18.60	18.43	18.40	18.35	18.35	18.40	18.15

Annual Max Momentary Gage Height 22.15 m. (MSL.) , at 06.00 Hours, on Aug 10, 2016

Zero Gage at Bottom Elevation 18.00 m. (MSL.) , River Bed 18.47 m. (MSL.)

Left Bank Elevation 23.67 m. (MSL.) ,

Right Bank Elevation 23.14 m. (MSL.) , Drainage Are 27 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1				5.60	0.37	0.15	2.90	0.37	0.10	0.10	0.07	0.10		
2				2.55	0.60	0.15	2.30	0.25	0.10	0.10	0.07	0.10		
3				1.70	9.25	0.19	2.55	0.25	0.10	0.10	0.07	0.10		
4				1.00	4.50	1.55	1.50	0.24	0.10	0.10	0.07	0.10		
5				0.60	2.65	1.00	0.95	0.16	0.10	0.10	0.07	0.10		
6				1.60	4.00	3.30	1.30	0.15	0.10	0.10	0.07	0.10		
7				2.15	9.85	2.55	2.30	0.15	0.10	0.10	0.07	0.10		
8				1.60	12.85	2.20	2.45	0.20	0.10	0.10	0.07	0.10		
9				2.35	4.00	3.50	2.40	0.24	0.10	0.10	0.07	0.10		
10				2.05	24.83	2.30	1.45	0.20	0.10	0.10	0.07	0.10		
11				5.30	7.90	1.55	1.00	0.18	0.10	0.10	0.07	0.10		
12				5.60	2.75	1.60	1.25	0.15	0.10	0.10	0.07	0.10		
13				2.60	2.00	2.80	1.00	0.15	0.10	0.10	0.07	0.10		
14				2.00	1.75	7.90	0.85	0.15	0.10	0.09	0.07	0.10		
15				1.20	1.30	2.90	0.60	0.15	0.10	0.09	0.07	0.10		
16				0.75	1.10	2.05	0.32	0.12	0.10	0.09	0.07	0.10		
17				0.32	1.20	2.15	0.37	0.12	0.10	0.09	0.07	0.10		
18				0.25	0.65	1.40	0.37	0.12	0.10	0.09	0.07	0.10		
19				0.25	0.37	1.10	0.25	0.13	0.10	0.09	0.07	0.10		
20			0.00	0.25	0.25	1.00	0.25	0.18	0.10	0.09	0.07	0.10		
21			0.13	0.25	0.25	3.80	0.32	0.14	0.10	0.08	0.07	0.10		
22			0.16	0.20	0.25	1.55	0.70	0.12	0.10	0.08	0.07	0.10		
23			2.65	0.20	0.27	1.15	4.60	0.12	0.10	0.08	0.07	0.10		
24			1.65	0.20	0.42	0.75	3.70	0.12	0.10	0.08	0.07	0.10		
25			1.40	0.20	0.25	0.50	1.70	0.14	0.10	0.08	0.07	0.10		
26			2.75	0.20	0.25	0.37	2.25	0.12	0.10	0.08	0.07	0.10		
27			6.50	0.20	0.25	2.35	2.30	0.12	0.10	0.08	0.07	0.10		
28			24.15	0.20	0.25	1.35	2.05	0.12	0.10	0.08	0.07	0.10		
29			14.05	0.22	0.25	2.15	1.15	0.12	0.10	0.08		0.10		
30			6.70	0.37	0.25	2.75	0.50	0.11	0.10	0.08		0.10		
31				0.50	0.20		0.37		0.10	0.07		0.10		
Total			60.14	42.46	95.06	58.06	46.00	4.89	3.10	2.80	1.96	3.10	317.57	CMSDAY
Mean			5.47	1.37	3.07	1.94	1.48	0.16	0.10	0.09	0.07	0.10	1.11	CMS
Max			24.15	5.60	24.83	7.90	4.60	0.37	0.10	0.10	0.07	0.10	24.83	CMS
Min			0.00	0.20	0.20	0.15	0.25	0.11	0.10	0.07	0.07	0.10	0.00	CMS
Runoff			5.20	3.67	8.21	5.02	3.97	0.42	0.27	0.24	0.17	0.27	27.44	MCM

Momentary Peak 62.00 CMS, at 22.15 m. (MSL.), at 06.00 Hours, on Aug 10, 2016

Runoff Yield 32.22 Liters/Second/Square KM. Momentary Peak Yield 2296.300 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Pran Bun at Ban Khlong Yai Tai , Chanthaburi (Z.52)

Lat 13 - 05 - 10 N Long 101 - 56 - 25 E

Location : on left bank at Ban Khlong Yai Tai.

	Ban Khlong Yai Tai	**Amphoe** Kaeng Hang Maeo	**Changwat** Chanthaburi
Drainge Area	60 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+37.740 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+42.415 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00,12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 41.170 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

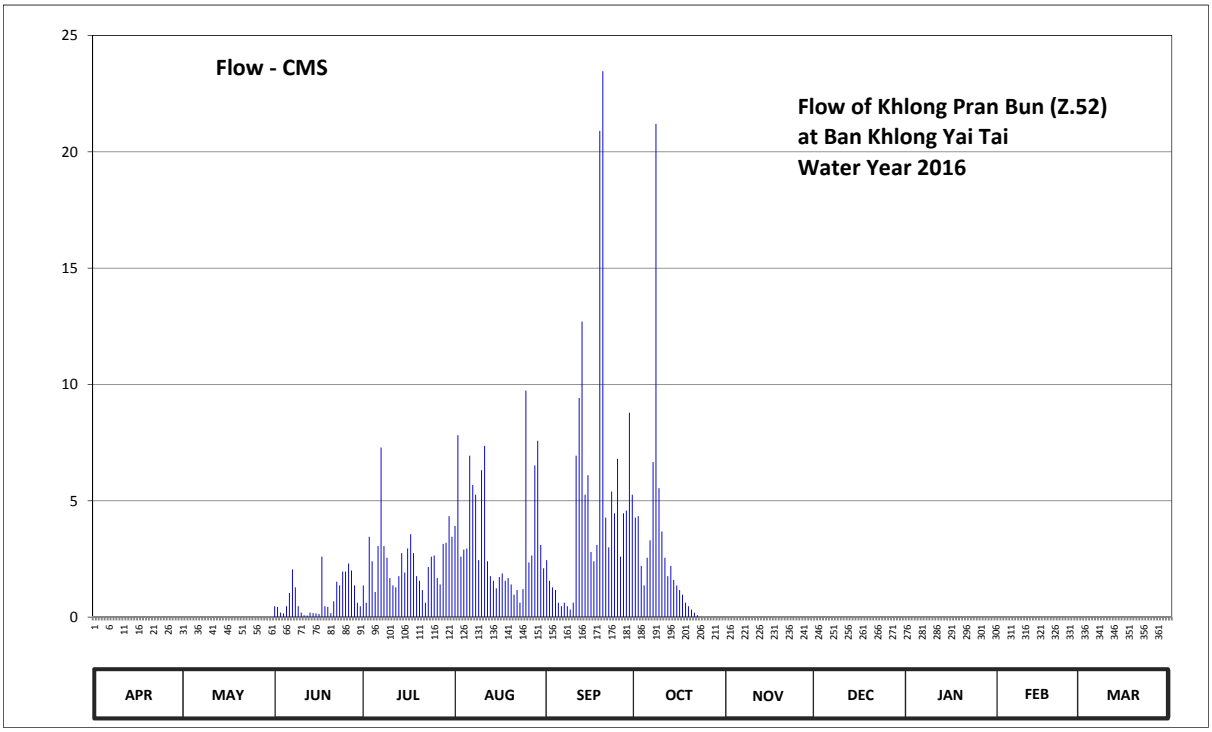
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			38.69	38.94	39.47	39.19	39.53	38.69					
2			38.68	38.74	40.04	38.99	39.54	38.69					
3			38.59	39.39	39.22	38.92	39.14	38.69					
4			38.57	39.18	39.28	38.89	38.94	38.69					
5			38.69	38.87	39.29	38.74	39.21	38.69					
6			38.86	39.31	39.92	38.69	39.36	38.69					
7			39.11	39.97	39.74	38.74	39.88	38.74					
8			38.92	39.31	39.68	38.69	41.26	38.84					
9			38.69	39.21	39.19	38.64	39.72	38.69					
10			38.59	39.02	39.83	38.74	39.43	38.69					
11			38.52	38.94	39.98	39.92	39.21	38.69					
12			38.51	38.92	39.18	40.24	39.04	38.69					
13			38.59	39.04	39.04	40.58	39.14	38.69					
14			38.58	39.25	38.99	39.68	39.00	38.69					
15			38.57	39.08	38.91	39.80	38.94	38.69					
16			38.56	39.29	39.03	39.26	38.89	38.69					
17			39.22	39.41	39.07	39.18	38.84	38.69					
18			38.69	39.25	38.99	39.32	38.74	38.69					
19			38.68	39.04	39.02	41.24	38.69	38.69					
20			38.58	38.99	38.95	41.41	38.64	38.69					
21			38.76	38.89	38.84	39.53	38.59	38.79					
22			38.98	38.74	38.89	39.30	38.52	38.79					
23			38.94	39.13	38.74	39.70	38.39	38.78					
24			39.09	39.22	38.90	39.56	38.34	38.74					
25			39.09	39.23	40.28	39.90	38.34	38.69					
26			39.16	39.02	39.17	39.22	38.34	38.69					
27			39.10	38.95	39.23	39.56	38.34	38.69					
28			38.94	39.33	39.86	39.58	38.34	38.69					
29			38.74	39.34	40.01	40.16	38.34	38.69					
30			38.69	39.54	39.32	39.68	38.34	38.69					
31				39.39	39.12		38.34						
Mean			38.78	39.16	39.33	39.50	38.95	38.71					
Max			39.22	39.97	40.28	41.41	41.26	38.84					41.41
Min			38.51	38.74	38.74	38.64	38.34	38.69					38.34

Annual Max Momentary Gage Height 41.51 m. (MSL.) , at 06.00 Hours, on Sep 20, 2016

Zero Gage at Bottom Elevation 37.74 m. (MSL.) , River Bed 38.51 m. (MSL.)

Left Bank Elevation 41.18 m. (MSL.) ,

Right Bank Elevation 41.16 m. (MSL.) , Drainage Are 60 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			0.47	1.36	3.92	2.45	4.28	0.00					
2			0.44	0.62	7.82	1.56	4.34	0.00					
3			0.19	3.45	2.60	1.28	2.20	0.00					
4			0.16	2.40	2.90	1.16	1.36	0.00					
5			0.47	1.08	2.95	0.62	2.55	0.00					
6			1.04	3.05	6.94	0.47	3.30	0.00					
7			2.05	7.29	5.68	0.62	6.66	0.00					
8			1.28	3.05	5.26	0.47	21.20	0.00					
9			0.47	2.55	2.45	0.32	5.54	0.00					
10			0.19	1.68	6.31	0.62	3.68	0.00					
11			0.08	1.36	7.36	6.94	2.55	0.00					
12			0.07	1.28	2.40	9.42	1.76	0.00					
13			0.19	1.76	1.76	12.70	2.20	0.00					
14			0.17	2.75	1.56	5.26	1.60	0.00					
15			0.16	1.92	1.24	6.10	1.36	0.00					
16			0.14	2.95	1.72	2.80	1.16	0.00					
17			2.60	3.56	1.88	2.40	0.96	0.00					
18			0.47	2.75	1.56	3.10	0.62	0.00					
19			0.44	1.76	1.68	20.90	0.47	0.00					
20			0.17	1.56	1.40	23.46	0.32	0.00					
21			0.68	1.16	0.96	4.28	0.19	0.00					
22			1.52	0.62	1.16	3.00	0.08	0.00					
23			1.36	2.15	0.62	5.40	0.00	0.00					
24			1.96	2.60	1.20	4.46	0.00	0.00					
25			1.96	2.65	9.74	6.80	0.00	0.00					
26			2.30	1.68	2.35	2.60	0.00	0.00					
27			2.00	1.40	2.65	4.46	0.00	0.00					
28			1.36	3.15	6.52	4.58	0.00	0.00					
29			0.62	3.20	7.58	8.78	0.00	0.00					
30			0.47	4.34	3.10	5.26	0.00	0.00					
31				3.45	2.10		0.00						
Total			25.48	74.58	107.37	152.27	68.38						428.08 CMSDAY
Mean			0.85	2.41	3.46	5.08	2.21	0.00					2.34 CMS
Max			2.60	7.29	9.74	23.46	21.20	0.00					23.46 CMS
Min			0.07	0.62	0.62	0.32	0.00	0.00					0.00 CMS
Runoff			2.20	6.44	9.28	13.16	5.91						36.99 MCM

Momentary Peak 25.07 CMS, at 41.51 m. (MSL.), at 06.00 Hours, on Sep 20, 2016

Runoff Yield 19.55 Liters/Second/Square KM. Momentary Peak Yield 417.830 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Chanthaburi River at Ban Thung Ta In , Chanthaburi (Z.53)

Lat 12 - 50 - 23 N Long 102 - 05 - 04 E

Location : on left bank at the bridge on highway.

	Ban Thung Ta In	**Amphoe** Khao Kitchakut	**Changwat** Chanthaburi
Drainge Area	475 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+14.260 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+21.404 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 20.350 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

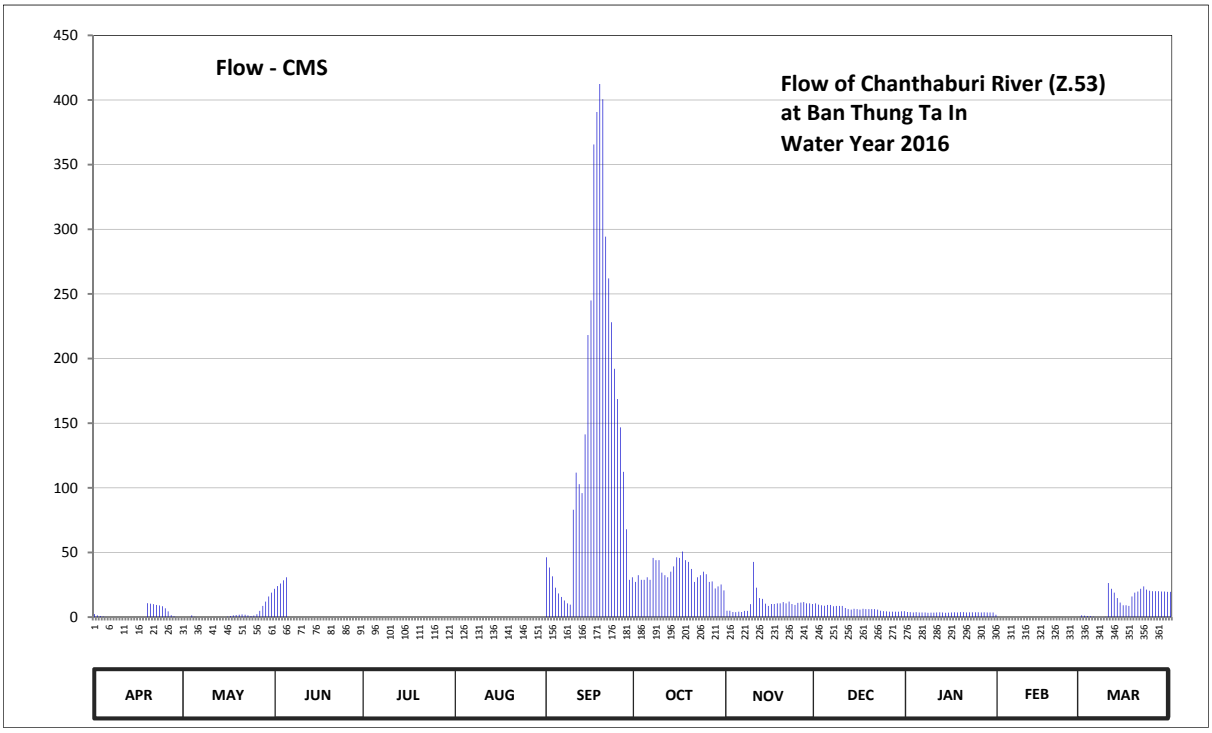
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.23	14.40	16.13			16.74	16.28	15.45	15.73	15.40	14.26	15.06	
2	15.08	14.38	16.20			16.56	16.41	15.45	15.68	15.38	14.26	15.02	
3	14.98	14.36	16.25			16.39	16.32	15.39	15.66	15.36	14.26	14.97	
4	14.89	15.06	16.31			16.16	16.32	15.38	15.64	15.38	14.26	14.94	
5	14.82	14.86	16.37			16.01	16.37	15.41	15.67	15.36	14.26	14.87	
6	14.74	14.66	14.26			15.92	16.32	15.40	15.67	15.36	14.26	14.78	
7	14.66	14.66	14.26			15.83	16.73	15.44	15.62	15.36	14.26	14.72	
8	14.60	14.66				15.73	16.69	15.44	15.63	15.33	14.26	14.69	
9	14.55	14.66				15.68	16.69	15.70	15.63	15.35	14.26	14.84	
10	14.49	14.66	14.26			17.50	16.46	16.66	15.63	15.34	14.26	16.26	
11	14.46	14.41	14.26			17.98	16.41	16.16	15.55	15.36	14.26	16.13	
12	14.44	14.51	14.26			17.84	16.37	15.89	15.51	15.37	14.26	16.03	
13	14.42	14.61	14.26			17.73	16.48	15.87	15.49	15.36	14.26	15.89	
14	14.40	14.70	14.26			18.42	16.58	15.72	15.52	15.33	14.26	15.76	
15	14.38	14.79	14.26			19.38	16.74	15.63	15.51	15.35	14.26	15.66	
16	14.36	14.88	14.26			19.66	16.73	15.71	15.49	15.36	14.26	15.66	
17	14.34	14.97	14.26			20.73	16.84	15.71	15.52	15.37	14.26	15.63	
18	14.32	15.06	14.26			20.94	16.69	15.73	15.51	15.36	14.26	15.93	
19	15.74	15.12	14.26			21.11	16.66	15.73	15.51	15.38	14.26	16.03	
20	15.72	15.18	14.26			21.02	16.53	15.78	15.51	15.38	14.26	16.06	
21	15.70	15.21	14.26			20.13	16.28	15.73	15.51	15.36	14.26	16.13	
22	15.67	15.18	14.26			19.83	16.37	15.80	15.49	15.37	14.26	16.19	
23	15.65	15.08	14.26			19.49	16.41	15.71	15.45	15.37	14.26	16.11	
24	15.62	14.98	14.26			19.09	16.48	15.67	15.43	15.37	14.26	16.08	
25	15.54	15.05	14.26			18.82	16.43	15.75	15.42	15.37	14.26	16.07	
26	15.42	15.22	14.26			18.50	16.28	15.76	15.41	15.36	14.26	16.07	
27	15.09	15.44	14.26			17.99	16.29	15.78	15.41	15.37	14.26	16.07	
28	14.93	15.63	14.26			17.21	16.14	15.73	15.41	15.36	14.26	16.06	
29	14.69	15.80	14.26			16.32	16.19	15.73	15.41	15.36		16.06	
30	14.69	15.93	14.26			16.37	16.23	15.71	15.42	15.36		16.05	
31		16.03					16.09		15.43	15.16		16.05	
Mean	14.92	14.97	14.62			18.04	16.45	15.70	15.53	15.36	14.26	15.67	
Max	15.74	16.03	16.37			21.11	16.84	16.66	15.73	15.40	14.26	16.26	21.11
Min	14.32	14.36	14.26			15.68	16.09	15.38	15.41	15.16	14.26	14.69	14.26

Annual Max Momentary Gage Height 21.31 m. (MSL.) , at 19.00 Hours, on Sep 19, 2016

Zero Gage at Bottom Elevation 14.26 m. (MSL.) , River Bed 13.15 m. (MSL.)

Left Bank Elevation 20.34 m. (MSL.) ,

Right Bank Elevation 20.66 m. (MSL.) , Drainage Are 475 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	0.00	21.90			46.30	27.20	5.00	10.60	4.00	0.00	1.30	
2	1.40	0.00	24.00			38.40	32.40	5.00	9.60	3.80	0.00	1.10	
3	0.90	0.00	26.00			31.60	28.80	3.90	9.20	3.60	0.00	0.85	
4	0.45	1.30	28.40			22.80	28.80	3.80	8.80	3.80	0.00	0.70	
5	0.10	0.30	30.80			18.30	30.80	4.20	9.40	3.60	0.00	0.35	
6	0.00	0.00	0.00			15.60	28.80	4.00	9.40	3.60	0.00	0.00	
7	0.00	0.00	0.00			12.90	45.85	4.80	8.40	3.60	0.00	0.00	
8	0.00	0.00				10.60	44.05	4.80	8.60	3.30	0.00	0.00	
9	0.00	0.00				9.60	44.05	10.00	8.60	3.50	0.00	0.20	
10	0.00	0.00	0.00			83.00	34.40	42.70	8.60	3.40	0.00	26.40	
11	0.00	0.00	0.00			111.73	32.40	22.80	7.00	3.60	0.00	21.90	
12	0.00	0.00	0.00			102.87	30.80	14.70	6.20	3.70	0.00	18.90	
13	0.00	0.00	0.00			95.90	35.20	14.10	5.80	3.60	0.00	14.70	
14	0.00	0.00	0.00			141.35	39.20	10.40	6.40	3.30	0.00	11.20	
15	0.00	0.00	0.00			218.20	46.30	8.60	6.20	3.50	0.00	9.20	
16	0.00	0.40	0.00			245.00	45.85	10.20	5.80	3.60	0.00	9.20	
17	0.00	0.85	0.00			365.60	50.80	10.20	6.40	3.70	0.00	8.60	
18	0.00	1.30	0.00			390.80	44.05	10.60	6.20	3.60	0.00	15.90	
19	10.80	1.60	0.00			412.41	42.70	10.60	6.20	3.80	0.00	18.90	
20	10.40	1.90	0.00			400.62	37.20	11.60	6.20	3.80	0.00	19.80	
21	10.00	2.10	0.00			294.30	27.20	10.60	6.20	3.60	0.00	21.90	
22	9.40	1.90	0.00			262.00	30.80	12.00	5.80	3.70	0.00	23.70	
23	9.00	1.40	0.00			228.10	32.40	10.20	5.00	3.70	0.00	21.30	
24	8.40	0.90	0.00			192.13	35.20	9.40	4.60	3.70	0.00	20.40	
25	6.80	1.25	0.00			168.73	33.20	11.00	4.40	3.70	0.00	20.10	
26	4.40	2.20	0.00			146.75	27.20	11.20	4.20	3.60	0.00	20.10	
27	1.45	4.80	0.00			112.37	27.60	11.60	4.20	3.70	0.00	20.10	
28	0.65	8.60	0.00			68.00	22.20	10.60	4.20	3.60	0.00	19.80	
29	0.00	12.00	0.00			28.80	23.70	10.60	4.20	3.60		19.80	
30	0.00	15.90	0.00			30.80	25.20	10.20	4.40	3.60		19.50	
31		18.90					20.70		4.60	1.80		19.50	
Total	76.45	77.60	131.10			4305.56	1055.05	319.40	205.40	110.70		405.40	6686.66 CMSDAY
Mean	2.55	2.50	4.68			143.52	34.03	10.65	6.63	3.57	0.00	13.08	22.21 CMS
Max	10.80	18.90	30.80			412.41	50.80	42.70	10.60	4.00	0.00	26.40	412.41 CMS
Min	0.00	0.00	0.00			9.60	20.70	3.80	4.20	1.80	0.00	0.00	0.00 CMS
Runoff	6.61	6.70	11.33			372.00	91.16	27.60	17.75	9.56		35.03	577.73 MCM

Momentary Peak 438.61 CMS, at 21.31 m. (MSL.), at 19.00 Hours, on Sep 19, 2016

Runoff Yield 38.57 Liters/Second/Square KM. Momentary Peak Yield 923.390 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Chanthaburi River at Ban Wang Cha Ai , Chanthaburi (Z.55)

Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

Location : on left bank at the bridge on highway.

Ban Bang Cha Ai **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	957 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+1.739 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +9.723 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00,12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Flot	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

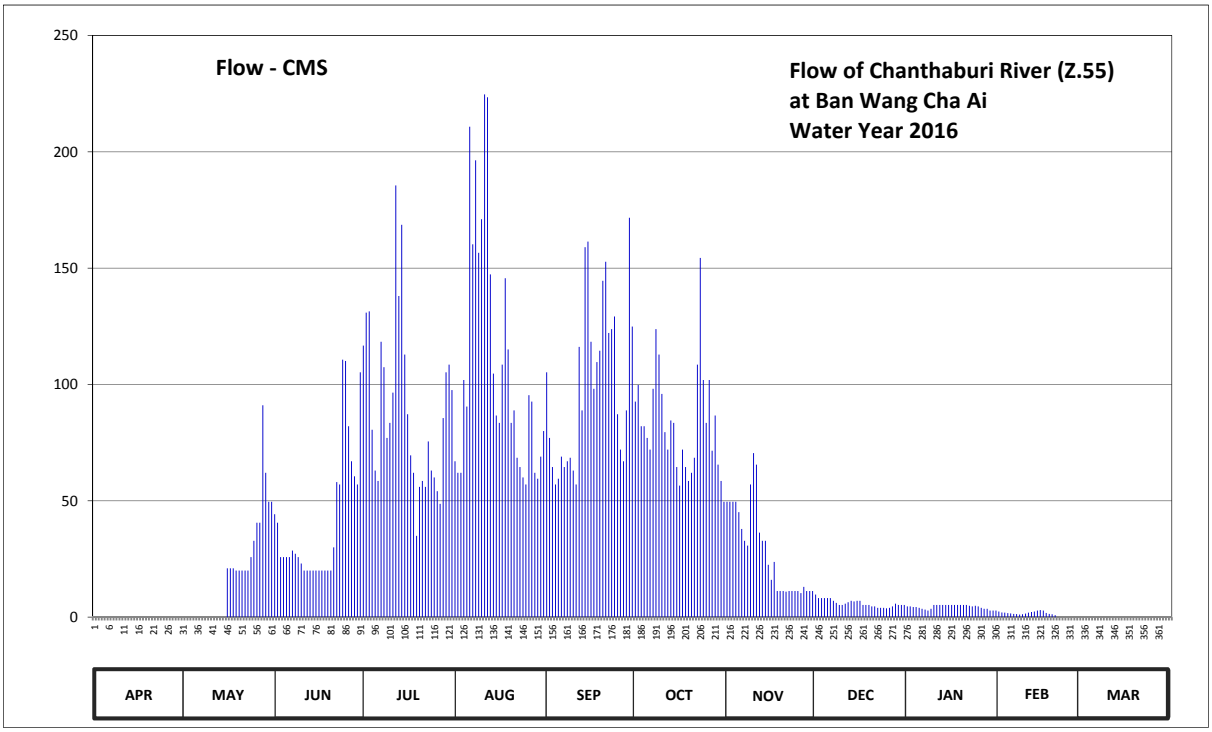
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.98	3.54	3.28	4.58	3.64	4.37	4.14	3.34	2.69	2.52	2.42	2.74	
2	2.98	3.34	3.24	4.84	3.54	3.84	4.27	3.34	2.64	2.52	2.40	2.94	
3	2.98	2.87	3.04	4.85	3.54	3.59	3.94	3.34	2.64	2.51	2.39	2.91	
4	2.98	2.64	3.04	3.91	4.31	3.44	3.94	3.34	2.64	2.51	2.37	2.84	
5	2.98	2.64	3.04	3.56	4.10	3.49	3.84	3.29	2.64	2.50	2.36	2.84	
6	2.98	2.62	3.04	3.47	6.21	3.68	3.74	3.21	2.64	2.48	2.34	2.84	
7	2.98	2.54	3.08	4.61	5.37	3.59	4.24	3.14	2.60	2.46	2.33	2.81	
8	2.98	2.48	3.06	4.41	5.97	3.64	4.71	3.11	2.57	2.44	2.31	2.74	
9	2.98	2.24	3.04	3.84	5.31	3.67	4.51	3.44	2.54	2.48	2.32	2.74	
10	2.98	1.99	3.00	3.97	5.55	3.56	4.20	3.71	2.54	2.54	2.35	2.54	
11	2.98	1.94	2.94	4.21	6.44	3.44	3.89	3.61	2.56	2.54	2.39	2.54	
12	2.98	1.89	2.94	5.79	6.42	4.57	3.74	3.19	2.58	2.54	2.41	2.54	
13	2.98	1.89	2.94	4.97	5.14	4.07	3.99	3.14	2.60	2.54	2.42	2.54	
14	2.98	1.94	2.94	5.51	4.36	5.35	3.97	3.14	2.59	2.54	2.44	2.54	
15	2.94	2.04	2.94	4.51	4.03	5.39	3.59	2.99	2.60	2.54	2.45	2.54	
16	2.94	2.96	2.94	4.04	3.97	4.61	3.43	2.86	2.60	2.54	2.44	2.54	
17	2.94	2.96	2.94	3.69	4.43	4.24	3.74	3.01	2.54	2.54	2.38	2.59	
18	2.94	2.96	2.94	3.54	5.11	4.45	3.59	2.74	2.54	2.54	2.34	2.61	
19	2.94	2.94	2.94	3.17	4.55	4.54	3.47	2.74	2.54	2.54	2.32	2.74	
20	2.94	2.94	2.94	3.42	3.97	5.09	3.54	2.74	2.52	2.54	2.28	3.24	
21	2.94	2.94	3.10	3.47	4.07	5.24	3.67	2.73	2.52	2.54	2.20	3.54	
22	2.94	2.94	3.46	3.42	3.67	4.68	4.43	2.74	2.50	2.53	2.15	3.54	
23	2.94	2.94	3.44	3.81	3.59	4.71	5.27	2.74	2.50	2.52	2.22	2.84	
24	2.94	3.04	4.47	3.56	3.50	4.81	4.31	2.74	2.50	2.53	2.20	2.84	
25	2.94	3.14	4.46	3.50	3.44	4.04	3.97	2.74	2.49	2.52	2.21	2.84	
26	2.94	3.24	3.94	3.39	4.19	3.74	4.31	2.71	2.50	2.50	2.21	2.84	
27	2.94	3.24	3.64	3.33	4.14	3.64	3.73	2.80	2.52	2.48	2.22	2.85	
28	2.89	4.11	3.51	4.01	3.54	4.07	4.03	2.74	2.56	2.48	2.22	2.84	
29	2.89	3.54	3.44	4.37	3.49	5.56	3.61	2.74	2.54	2.44		3.64	
30	2.89	3.34	4.37	4.43	3.68	4.73	3.47	2.74	2.54	2.44		2.64	
31		3.34		4.23	3.90		3.34		2.54	2.44		2.64	
Mean	2.95	2.81	3.27	4.08	4.42	4.26	3.96	3.03	2.57	2.51	2.32	2.82	
Max	2.98	4.11	4.47	5.79	6.44	5.56	5.27	3.71	2.69	2.54	2.45	3.64	6.44
Min	2.89	1.89	2.94	3.17	3.44	3.44	3.34	2.71	2.49	2.44	2.15	2.54	1.89

Annual Max Momentary Gage Height 6.54 m. (MSL.) , at 06.00 Hours, on Aug 6, 2016

Zero Gage at Bottom Elevation 1.74 m. (MSL.) , River Bed -1.52 m. (MSL.)

Left Bank Elevation 8.51 m. (MSL.) ,

Right Bank Elevation 9.17 m. (MSL.) , Drainage Are 957 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	44.20	116.68	67.00	105.21	92.65	49.60	9.70	4.60	2.40	0.00	
2	0.00	0.00	40.60	130.88	62.00	77.00	99.75	49.60	8.20	4.60	2.00	0.00	
3	0.00	0.00	25.80	131.42	62.00	64.50	82.00	49.60	8.20	4.30	1.90	0.00	
4	0.00	0.00	25.80	80.50	101.93	57.00	82.00	49.60	8.20	4.30	1.70	0.00	
5	0.00	0.00	25.80	63.00	90.46	59.50	77.00	45.10	8.20	4.00	1.60	0.00	
6	0.00	0.00	25.80	58.50	210.79	69.00	72.00	37.90	8.20	3.60	1.40	0.00	
7	0.00	0.00	28.60	118.32	160.21	64.50	98.11	32.80	7.00	3.20	1.30	0.00	
8	0.00	0.00	27.20	107.39	196.34	67.00	123.78	30.70	6.10	2.80	1.10	0.00	
9	0.00	0.00	25.80	77.00	156.60	68.50	112.85	57.00	5.20	3.60	1.20	0.00	
10	0.00	0.00	23.00	83.50	171.05	63.00	95.92	70.50	5.20	5.20	1.50	0.00	
11	0.00	0.00	20.00	96.47	224.64	57.00	79.50	65.50	5.80	5.20	1.90	0.00	
12	0.00	0.00	20.00	185.50	223.43	116.13	72.00	36.30	6.40	5.20	2.20	0.00	
13	0.00	0.00	20.00	137.98	147.26	88.82	84.50	32.80	7.00	5.20	2.40	0.00	
14	0.00	0.00	20.00	168.64	104.66	159.01	83.50	32.80	6.70	5.20	2.80	0.00	
15	0.00	0.00	20.00	112.85	86.64	161.42	64.50	22.50	7.00	5.20	3.00	0.00	
16	0.00	21.00	20.00	87.18	83.50	118.32	56.50	16.00	7.00	5.20	2.80	0.00	
17	0.00	21.00	20.00	69.50	108.48	98.11	72.00	23.70	5.20	5.20	1.80	0.00	
18	0.00	21.00	20.00	62.00	145.62	109.58	64.50	11.20	5.20	5.20	1.40	0.00	
19	0.00	20.00	20.00	34.90	115.04	114.49	58.50	11.20	5.20	5.20	1.20	0.00	
20	0.00	20.00	20.00	56.00	83.50	144.53	62.00	11.20	4.60	5.20	0.80	0.00	
21	0.00	20.00	30.00	58.50	88.82	152.72	68.50	10.90	4.60	5.20	0.00	0.00	
22	0.00	20.00	58.00	56.00	68.50	122.14	108.48	11.20	4.00	4.90	0.00	0.00	
23	0.00	20.00	57.00	75.50	64.50	123.78	154.36	11.20	4.00	4.60	0.00	0.00	
24	0.00	25.80	110.67	63.00	60.00	129.24	101.93	11.20	4.00	4.90	0.00	0.00	
25	0.00	32.80	110.12	60.00	57.00	87.18	83.50	11.20	3.80	4.60	0.00	0.00	
26	0.00	40.60	82.00	54.10	95.38	72.00	101.93	10.30	4.00	4.00	0.00	0.00	
27	0.00	40.60	67.00	48.70	92.65	67.00	71.50	13.00	4.60	3.60	0.00	0.00	
28	0.00	91.01	60.50	85.55	62.00	88.82	86.64	11.20	5.80	3.60	0.00	0.00	
29	0.00	62.00	57.00	105.21	59.50	171.65	65.50	11.20	5.20	2.80		0.00	
30	0.00	49.60	105.21	108.48	69.00	124.87	58.50	11.20	5.20	2.80		0.00	
31		49.60		97.56	80.00		49.60		5.20	2.80		0.00	
Total	0.00	555.01	1230.10	2790.81	3398.50	3002.02	2584.00	848.20	184.70	136.00	36.40	0.00	14765.74	CMSDAY
Mean	0.00	17.90	41.00	90.03	109.63	100.07	83.35	28.27	5.96	4.39	1.30	0.00	40.45	CMS
Max	0.00	91.01	110.67	185.50	224.64	171.65	154.36	70.50	9.70	5.20	3.00	0.00	224.64	CMS
Min	0.00	0.00	20.00	34.90	57.00	57.00	49.60	10.30	3.80	2.80	0.00	0.00	0.00	CMS
Runoff	0.00	47.95	106.28	241.13	293.63	259.37	223.26	73.28	15.96	11.75	3.14	0.00	1275.76	MCM

Momentary Peak 230.66 CMS, at 6.54 m. (MSL.), at 06.00 Hours, on Aug 6, 2016

Runoff Yield 42.32 Liters/Second/Square KM. Momentary Peak Yield 241.280 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Thung Plae at Ban Ta Bok Tia , Chanthaburi (Z.56)

Lat 12 - 49 - 09 N Long 102 - 14 - 20 E

Location : on left bank at the bridge on highway.

	Ban Ta Bok Tia	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge Area	100 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+24.743 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+32.738 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

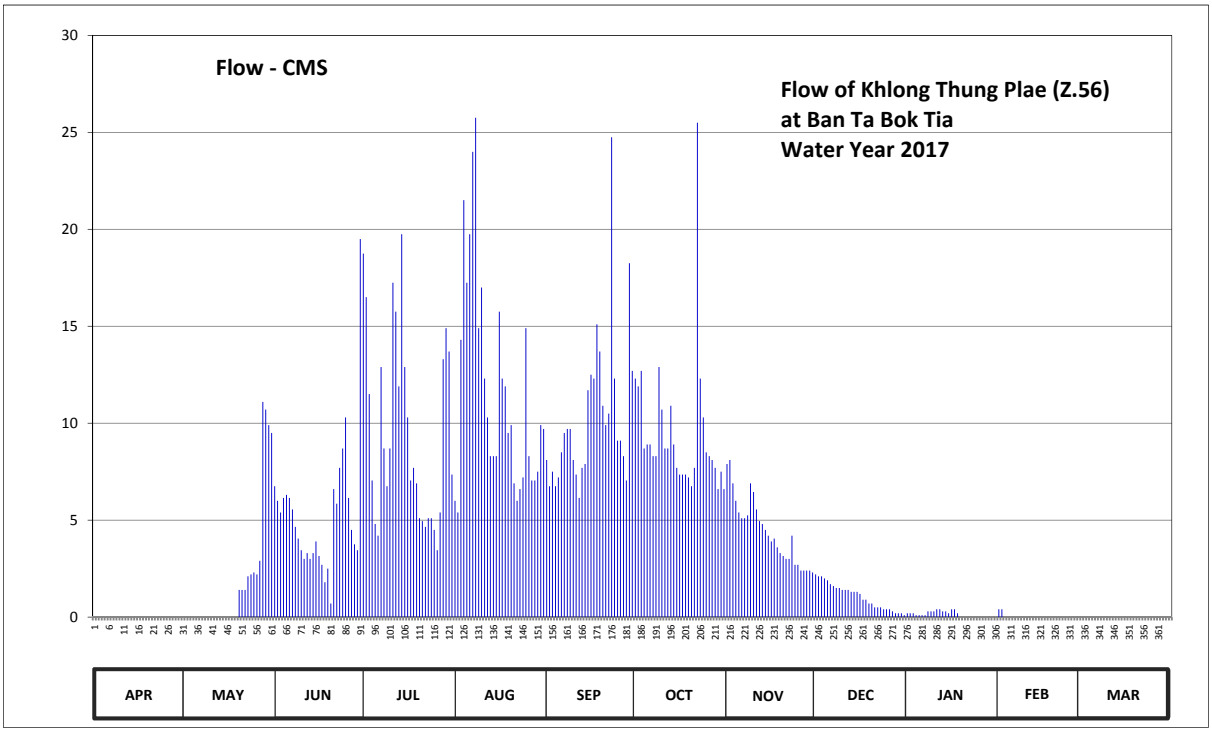
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.74	24.74	25.45	26.03	25.40	25.53	25.74	25.52	25.12	24.92	24.94	25.47	
2	24.74	24.74	25.40	25.94	25.36	25.45	25.72	25.53	25.11	24.92	24.94	25.53	
3	24.74	24.74	25.36	25.70	25.84	25.50	25.76	25.46	25.11	24.92	24.87	25.54	
4	24.74	24.74	25.41	25.47	26.14	25.45	25.56	25.40	25.10	24.91	24.84	25.54	
5	24.74	24.74	25.42	25.32	25.97	25.48	25.57	25.36	25.09	24.91	24.84	25.58	
6	24.74	24.74	25.41	25.28	26.07	25.55	25.57	25.34	25.07	24.91	24.84	25.57	
7	24.74	24.74	25.37	25.77	26.24	25.60	25.54	25.34	25.06	24.91	25.17	25.59	
8	24.74	24.74	25.31	25.56	26.31	25.61	25.54	25.35	25.05	24.93	25.31	25.62	
9	24.74	24.74	25.27	25.45	25.87	25.61	25.77	25.46	25.05	24.93	25.27	25.62	
10	24.74	24.74	25.23	25.56	25.96	25.53	25.66	25.43	25.04	24.93	25.24	25.64	
11	24.74	24.74	25.20	25.97	25.74	25.49	25.56	25.37	25.04	24.94	25.24	25.61	
12	24.74	24.74	25.22	25.91	25.64	25.41	25.56	25.33	25.04	24.94	25.54	25.61	
13	24.74	24.74	25.20	25.72	25.54	25.51	25.67	25.32	25.03	24.93	25.64	25.60	
14	24.74	24.74	25.22	26.07	25.54	25.52	25.57	25.30	25.03	24.93	25.64	25.60	
15	24.74	24.74	25.26	25.77	25.54	25.71	25.51	25.28	25.03	24.92	25.64	25.60	
16	24.74	24.74	25.21	25.64	25.91	25.75	25.49	25.26	25.02	24.94	25.64	25.64	
17	24.74	24.74	25.17	25.47	25.74	25.74	25.49	25.27	24.99	24.94	25.64	25.70	
18	24.74	24.74	25.08	25.51	25.72	25.88	25.49	25.24	24.99	24.92	25.64	25.72	
19	24.74	24.74	25.15	25.46	25.60	25.81	25.48	25.22	24.97	24.89	25.63	25.11	
20	24.74	25.04	24.97	25.34	25.62	25.67	25.45	25.21	24.97	24.89	25.63	25.01	
21	24.74	25.04	25.44	25.33	25.46	25.62	25.51	25.20	24.95	24.84	25.63	24.97	
22	24.74	25.04	25.39	25.31	25.40	25.65	26.30	25.20	24.95	24.79	25.64	24.95	
23	24.74	25.11	25.51	25.34	25.44	26.27	25.74	25.28	24.95	24.77	25.64	24.93	
24	24.74	25.12	25.56	25.34	25.48	25.74	25.64	25.17	24.94	24.77	25.48	24.90	
25	24.74	25.13	25.64	25.30	25.87	25.58	25.55	25.17	24.94	24.77	25.47	24.87	
26	24.74	25.12	25.41	25.23	25.54	25.58	25.54	25.14	24.94	24.77	25.44	24.88	
27	24.74	25.19	25.30	25.36	25.47	25.54	25.53	25.14	24.93	24.79	25.41	24.98	
28	24.74	25.68	25.25	25.79	25.47	25.47	25.51	25.14	24.92	24.77	25.35	24.96	
29	24.74	25.66	25.23	25.87	25.50	26.01	25.44	25.14	24.92	24.76		24.92	
30	24.74	25.62	26.06	25.81	25.62	25.76	25.50	25.13	24.92	24.79		25.02	
31		25.60		25.49	25.61		25.44		24.91	24.77		24.97	
Mean	24.74	24.95	25.34	25.58	25.70	25.63	25.59	25.29	25.01	24.87	25.36	25.33	
Max	24.74	25.68	26.06	26.07	26.31	26.27	26.30	25.53	25.12	24.94	25.64	25.72	26.31
Min	24.74	24.74	24.97	25.23	25.36	25.41	25.44	25.13	24.91	24.76	24.84	24.87	24.74

Annual Max Momentary Gage Height 27.24 m. (MSL.) , at 18.00 Hours, on Oct 22, 2016

Zero Gage at Bottom Elevation 24.74 m. (MSL.) , River Bed 24.72 m. (MSL.)

Left Bank Elevation 31.64 m. (MSL.) ,

Right Bank Elevation 30.89 m. (MSL.) , Drainage Are 100 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.75	18.75	6.00	8.10	12.30	7.90	2.20	0.20	0.40	0.00	
2	0.00	0.00	6.00	16.50	5.40	6.75	11.90	8.10	2.10	0.20	0.40	0.00	
3	0.00	0.00	5.40	11.50	14.30	7.50	12.70	6.90	2.10	0.20	0.00	0.00	
4	0.00	0.00	6.15	7.05	21.50	6.75	8.70	6.00	2.00	0.10	0.00	0.00	
5	0.00	0.00	6.30	4.80	17.25	7.20	8.90	5.40	1.90	0.10	0.00	0.00	
6	0.00	0.00	6.15	4.20	19.75	8.50	8.90	5.10	1.70	0.10	0.00	0.00	
7	0.00	0.00	5.55	12.90	24.00	9.50	8.30	5.10	1.60	0.10	0.00	0.00	
8	0.00	0.00	4.65	8.70	25.75	9.70	8.30	5.25	1.50	0.30	0.00	0.00	
9	0.00	0.00	4.05	6.75	14.90	9.70	12.90	6.90	1.50	0.30	0.00	0.00	
10	0.00	0.00	3.45	8.70	17.00	8.10	10.70	6.45	1.40	0.30	0.00	0.00	
11	0.00	0.00	3.00	17.25	12.30	7.35	8.70	5.55	1.40	0.40	0.00	0.00	
12	0.00	0.00	3.30	15.75	10.30	6.15	8.70	4.95	1.40	0.40	0.00	0.00	
13	0.00	0.00	3.00	11.90	8.30	7.70	10.90	4.80	1.30	0.30	0.00	0.00	
14	0.00	0.00	3.30	19.75	8.30	7.90	8.90	4.50	1.30	0.30	0.00	0.00	
15	0.00	0.00	3.90	12.90	8.30	11.70	7.70	4.20	1.30	0.20	0.00	0.00	
16	0.00	0.00	3.15	10.30	15.75	12.50	7.35	3.90	1.20	0.40	0.00	0.00	
17	0.00	0.00	2.70	7.05	12.30	12.30	7.35	4.05	0.90	0.40	0.00	0.00	
18	0.00	0.00	1.80	7.70	11.90	15.10	7.35	3.60	0.90	0.20	0.00	0.00	
19	0.00	0.00	2.50	6.90	9.50	13.70	7.20	3.30	0.70	0.00	0.00	0.00	
20	0.00	1.40	0.70	5.10	9.90	10.90	6.75	3.15	0.70	0.00	0.00	0.00	
21	0.00	1.40	6.60	4.95	6.90	9.90	7.70	3.00	0.50	0.00	0.00	0.00	
22	0.00	1.40	5.85	4.65	6.00	10.50	25.50	3.00	0.50	0.00	0.00	0.00	
23	0.00	2.10	7.70	5.10	6.60	24.75	12.30	4.20	0.50	0.00	0.00	0.00	
24	0.00	2.20	8.70	5.10	7.20	12.30	10.30	2.70	0.40	0.00	0.00	0.00	
25	0.00	2.30	10.30	4.50	14.90	9.10	8.50	2.70	0.40	0.00	0.00	0.00	
26	0.00	2.20	6.15	3.45	8.30	9.10	8.30	2.40	0.40	0.00	0.00	0.00	
27	0.00	2.90	4.50	5.40	7.05	8.30	8.10	2.40	0.30	0.00	0.00	0.00	
28	0.00	11.10	3.75	13.30	7.05	7.05	7.70	2.40	0.20	0.00	0.00	0.00	
29	0.00	10.70	3.45	14.90	7.50	18.25	6.60	2.40	0.20	0.00		0.00	
30	0.00	9.90	19.50	13.70	9.90	12.70	7.50	2.30	0.20	0.00		0.00	
31		9.50		7.35	9.70		6.60		0.10	0.00		0.00	
Total	0.00	57.10	158.30	296.85	363.80	309.05	293.60	132.60	32.80	4.50	0.80	0.00	1649.40	CMSDAY
Mean	0.00	1.84	5.28	9.58	11.74	10.30	9.47	4.42	1.06	0.15	0.03	0.00	4.52	CMS
Max	0.00	11.10	19.50	19.75	25.75	24.75	25.50	8.10	2.20	0.40	0.40	0.00	25.75	CMS
Min	0.00	0.00	0.70	3.45	5.40	6.15	6.60	2.30	0.10	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	4.93	13.68	25.65	31.43	26.70	25.37	11.46	2.83	0.39	0.07	0.00	142.51	MCM

Momentary Peak 55.40 CMS, at 27.24 m. (MSL.), at 18.00 Hours, on Oct 22, 2016

Runoff Yield 45.19 Liters/Second/Square KM. Momentary Peak Yield 554.000 Liters/Second/Square KM.

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Nak at Ban Bo Rai , Trat (Z.59)

Lat 12 - 21 - 45 N Long 102 - 32 - 38 E

Location : on left bank at the bridge on highway.

	Ban Bo Rai	**Amphoe** Bo Rai	**Changwat** Trat
Drainge Area	87 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+16.570 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +25.570 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

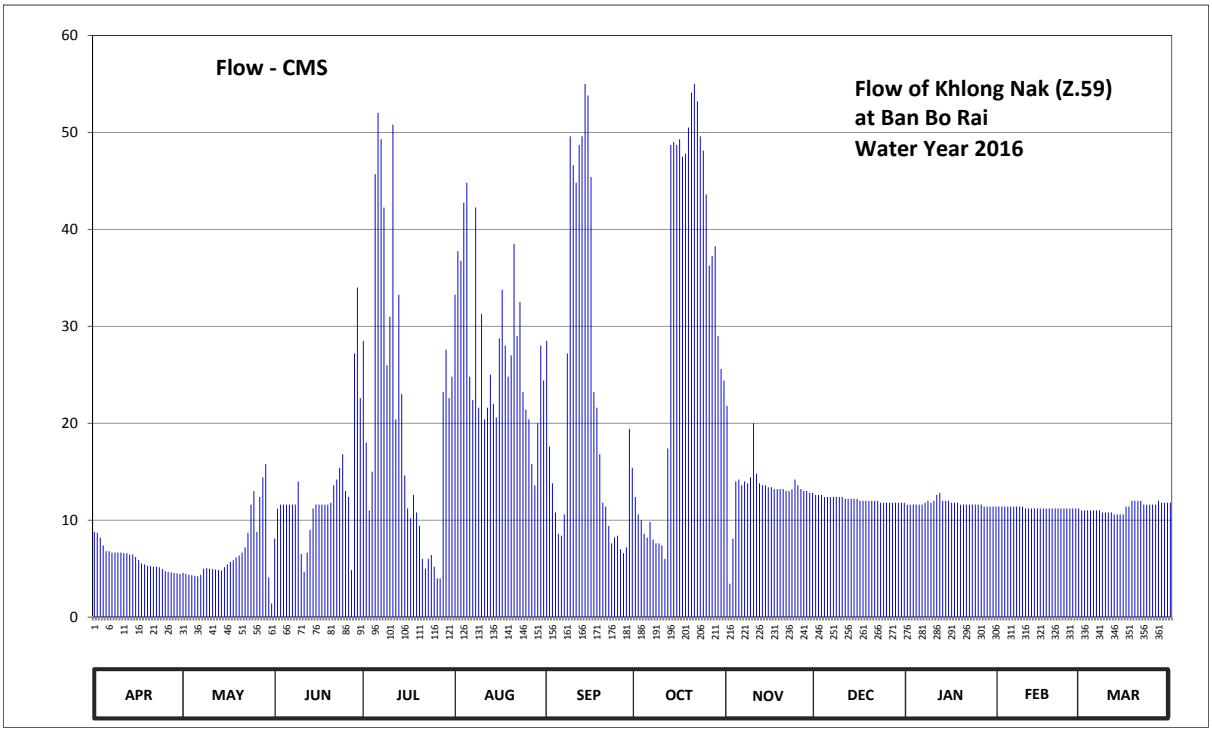
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.68	21.01	21.61	21.22	21.41	21.22	20.42	20.89	21.93	21.88	21.87	21.85	
2	21.67	20.99	21.86	20.70	21.59	20.68	20.33	20.79	21.93	21.88	21.87	21.85	
3	21.62	20.97	21.88	20.35	21.55	20.49	20.30	21.61	21.93	21.88	21.87	21.85	
4	21.54	20.96	21.88	20.55	21.79	20.34	20.23	22.00	21.92	21.88	21.87	21.85	
5	21.46	20.95	21.88	21.89	21.86	20.23	20.21	22.01	21.92	21.88	21.87	21.85	
6	21.46	20.94	21.88	22.10	21.04	20.22	20.29	21.98	21.92	21.88	21.87	21.85	
7	21.43	20.97	21.88	22.01	20.92	20.33	20.20	22.00	21.92	21.89	21.87	21.85	
8	21.43	21.10	21.88	21.77	21.77	21.16	20.18	21.99	21.92	21.90	21.87	21.84	
9	21.43	21.11	22.00	21.10	20.88	22.02	20.18	22.02	21.92	21.89	21.87	21.84	
10	21.43	21.10	21.40	21.32	21.33	21.92	20.17	22.20	21.92	21.90	21.86	21.84	
11	21.42	21.09	21.03	22.06	20.82	21.86	20.10	22.04	21.91	21.93	21.86	21.84	
12	21.42	21.08	21.43	20.82	20.88	21.99	20.67	21.99	21.91	21.94	21.86	21.83	
13	21.39	21.07	21.70	21.41	21.05	22.02	21.99	21.98	21.91	21.90	21.86	21.83	
14	21.39	21.06	21.86	20.95	20.90	22.20	22.00	21.98	21.91	21.90	21.86	21.83	
15	21.34	21.13	21.88	20.53	20.83	22.16	21.99	21.97	21.91	21.90	21.86	21.83	
16	21.28	21.19	21.88	20.36	21.23	21.88	22.01	21.97	21.90	21.89	21.86	21.87	
17	21.21	21.24	21.88	20.31	21.43	20.96	21.95	21.96	21.90	21.89	21.86	21.87	
18	21.19	21.27	21.88	20.43	21.20	20.88	21.96	21.96	21.90	21.89	21.86	21.90	
19	21.16	21.33	21.88	20.34	21.04	20.64	22.05	21.96	21.90	21.88	21.86	21.90	
20	21.15	21.37	21.89	20.27	21.15	20.39	22.17	21.96	21.90	21.88	21.86	21.90	
21	21.14	21.43	21.98	20.10	21.62	20.37	22.20	21.95	21.90	21.88	21.86	21.90	
22	21.14	21.52	22.01	20.05	21.24	20.27	22.14	21.95	21.90	21.88	21.86	21.88	
23	21.13	21.67	22.07	20.10	21.38	20.18	22.02	21.96	21.89	21.88	21.86	21.88	
24	21.09	21.88	22.12	20.12	20.96	20.21	21.97	22.01	21.89	21.88	21.86	21.88	
25	21.05	21.95	21.95	20.06	20.87	20.22	21.82	21.98	21.89	21.88	21.86	21.88	
26	21.03	21.68	21.92	20.00	20.82	20.15	21.53	21.96	21.89	21.88	21.86	21.88	
27	21.02	21.92	21.07	20.00	20.59	20.13	21.57	21.95	21.89	21.87	21.86	21.90	
28	21.01	22.02	21.16	20.96	20.48	20.16	21.61	21.95	21.89	21.87	21.86	21.89	
29	21.00	22.09	21.44	21.18	20.80	20.77	21.24	21.94	21.89	21.87		21.89	
30	20.99	20.92	20.93	20.93	21.20	20.57	21.08	21.94	21.89	21.87		21.89	
31		20.38		21.04	21.02		21.02		21.89	21.87		21.89	
Mean	21.29	21.27	21.74	20.81	21.15	20.89	21.21	21.90	21.91	21.89	21.86	21.87	
Max	21.68	22.09	22.12	22.10	21.86	22.20	22.20	22.20	21.93	21.94	21.87	21.90	22.20
Min	20.99	20.38	20.93	20.00	20.48	20.13	20.10	20.79	21.89	21.87	21.86	21.83	20.00

Annual Max Momentary Gage Height 22.48 m. (MSL.) , at 06.00 Hours, on Nov 10, 2016

Zero Gage at Bottom Elevation 16.57 m. (MSL.) , River Bed 16.53 m. (MSL.)

Left Bank Elevation 24.70 m. (MSL.) ,

Right Bank Elevation 24.72 m. (MSL.) , Drainage Area 87 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.80	4.55	8.10	28.50	33.25	28.50	12.40	21.80	12.60	11.60	11.40	11.00	
2	8.70	4.45	11.20	18.00	37.75	17.60	10.60	3.45	12.60	11.60	11.40	11.00	
3	8.20	4.35	11.60	11.00	36.75	13.80	10.00	8.10	12.60	11.60	11.40	11.00	
4	7.40	4.30	11.60	15.00	42.75	10.80	8.60	14.00	12.40	11.60	11.40	11.00	
5	6.80	4.25	11.60	45.70	44.80	8.60	8.20	14.20	12.40	11.60	11.40	11.00	
6	6.80	4.20	11.60	52.00	24.80	8.40	9.80	13.60	12.40	11.60	11.40	11.00	
7	6.65	4.35	11.60	49.30	22.40	10.60	8.00	14.00	12.40	11.80	11.40	11.00	
8	6.65	5.00	11.60	42.25	42.25	27.20	7.60	13.80	12.40	12.00	11.40	10.80	
9	6.65	5.05	14.00	26.00	21.60	49.60	7.60	14.40	12.40	11.80	11.40	10.80	
10	6.65	5.00	6.50	31.00	31.25	46.60	7.40	20.00	12.40	12.00	11.20	10.80	
11	6.60	4.95	4.65	50.80	20.40	44.80	6.00	14.80	12.20	12.60	11.20	10.80	
12	6.60	4.90	6.65	20.40	21.60	48.70	17.40	13.80	12.20	12.80	11.20	10.60	
13	6.45	4.85	9.00	33.25	25.00	49.60	48.70	13.60	12.20	12.00	11.20	10.60	
14	6.45	4.80	11.20	23.00	22.00	55.00	49.00	13.60	12.20	12.00	11.20	10.60	
15	6.20	5.15	11.60	14.60	20.60	53.80	48.70	13.40	12.20	12.00	11.20	10.60	
16	5.90	5.45	11.60	11.20	28.75	45.40	49.30	13.40	12.00	11.80	11.20	11.40	
17	5.55	5.70	11.60	10.20	33.75	23.20	47.50	13.20	12.00	11.80	11.20	11.40	
18	5.45	5.85	11.60	12.60	28.00	21.60	47.80	13.20	12.00	11.80	11.20	12.00	
19	5.30	6.15	11.60	10.80	24.80	16.80	50.50	13.20	12.00	11.60	11.20	12.00	
20	5.25	6.35	11.80	9.40	27.00	11.80	54.10	13.20	12.00	11.60	11.20	12.00	
21	5.20	6.65	13.60	6.00	38.50	11.40	55.00	13.00	12.00	11.60	11.20	12.00	
22	5.20	7.20	14.20	5.00	29.00	9.40	53.20	13.00	12.00	11.60	11.20	11.60	
23	5.15	8.70	15.40	6.00	32.50	7.60	49.60	13.20	11.80	11.60	11.20	11.60	
24	4.95	11.60	16.80	6.40	23.20	8.20	48.10	14.20	11.80	11.60	11.20	11.60	
25	4.75	13.00	13.00	5.20	21.40	8.40	43.60	13.60	11.80	11.60	11.20	11.60	
26	4.65	8.80	12.40	4.00	20.40	7.00	36.25	13.20	11.80	11.60	11.20	11.60	
27	4.60	12.40	4.85	4.00	15.80	6.60	37.25	13.00	11.80	11.40	11.20	12.00	
28	4.55	14.40	27.20	23.20	13.60	7.20	38.25	13.00	11.80	11.40	11.20	11.80	
29	4.50	15.80	34.00	27.60	20.00	19.40	29.00	12.80	11.80	11.40		11.80	
30	4.45	4.10	22.60	22.60	28.00	15.40	25.60	12.80	11.80	11.40		11.80	
31		1.40		24.80	24.40		24.40		11.80	11.40		11.80	
Total	181.05	203.70	384.75	649.80	856.30	693.00	949.45	404.55	375.80	363.80	315.40	350.60	5728.20 CMSDAY
Mean	6.03	6.57	12.82	20.96	27.62	23.10	30.63	13.49	12.12	11.74	11.26	11.31	15.69 CMS
Max	8.80	15.80	34.00	52.00	44.80	55.00	55.00	21.80	12.60	12.80	11.40	12.00	55.00 CMS
Min	4.45	1.40	4.65	4.00	13.60	6.60	6.00	3.45	11.80	11.40	11.20	10.60	1.40 CMS
Runoff	15.64	17.60	33.24	56.14	73.98	59.88	82.03	34.95	32.47	31.43	27.25	30.29	494.92 MCM

Momentary Peak 43.20 CMS, at 22.48 m. (MSL.), at 06.00 Hours, on Nov 10, 2016

Runoff Yield 180.39 Liters/Second/Square KM. Momentary Peak Yield 496.550 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban Khai	**Amphoe** Ban Khai	**Changwat** Rayong
Drainge Area	1,220 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+7.000 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2015 to date		
Rating Operation			
Period of Rating	2015 to date		
Rated by Flot	-		
Rated by Current Meter	2015 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 3 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

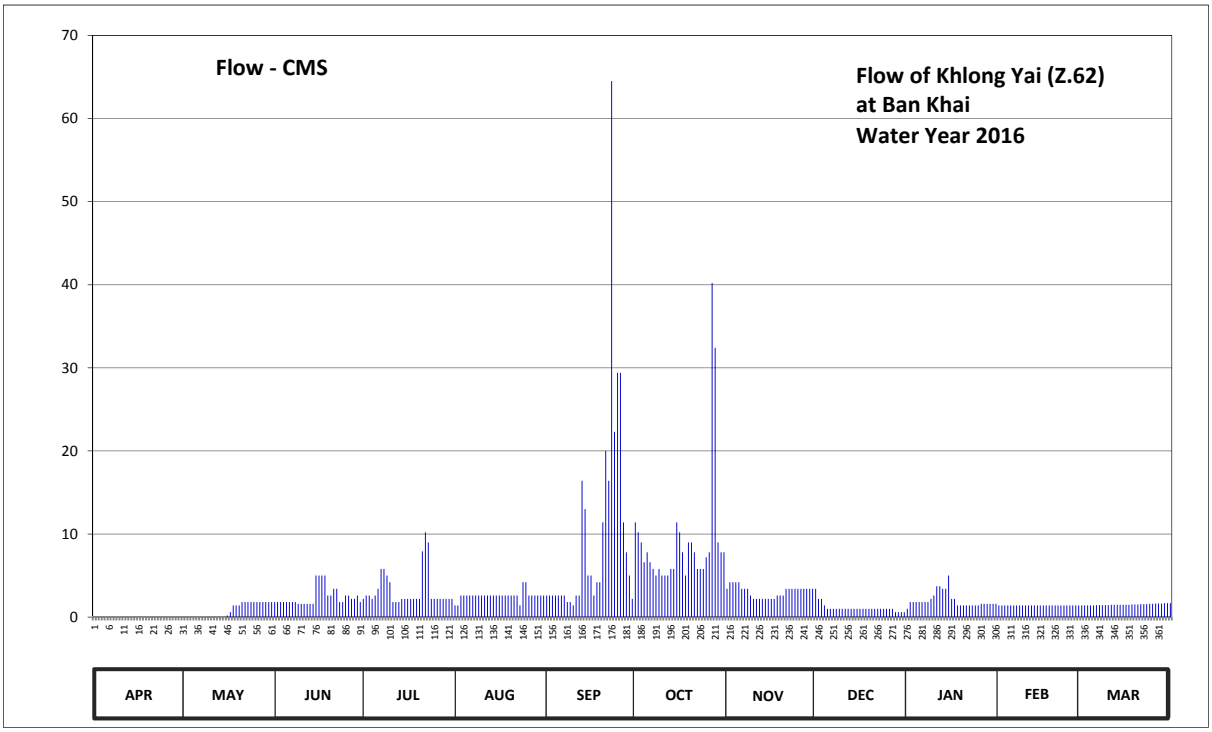
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.60	2.40	2.50	2.30	2.60	3.50	2.70	2.70	2.20	2.30	2.30	
2	1.00	1.60	2.40	2.60	2.30	2.60	3.40	2.80	2.50	2.40	2.30	2.30	
3	1.00	1.60	2.40	2.60	2.60	2.60	3.30	2.80	2.50	2.40	2.30	2.30	
4	1.00	1.50	2.40	2.50	2.60	2.60	3.10	2.80	2.30	2.40	2.30	2.30	
5	1.00	1.50	2.40	2.60	2.60	2.60	3.20	2.80	2.20	2.40	2.30	2.30	
6	1.00	1.50	2.40	2.70	2.60	2.60	3.10	2.70	2.20	2.40	2.30	2.31	
7	1.00	1.50	2.40	3.00	2.60	2.60	3.00	2.70	2.20	2.40	2.30	2.31	
8	1.00	1.60	2.40	3.00	2.60	2.40	2.90	2.70	2.20	2.40	2.30	2.31	
9	1.00	1.60	2.35	2.90	2.60	2.40	3.00	2.60	2.20	2.50	2.30	2.31	
10	1.00	1.60	2.35	2.80	2.60	2.30	2.90	2.50	2.20	2.60	2.30	2.31	
11	1.00	1.75	2.35	2.40	2.60	2.60	2.90	2.50	2.20	2.74	2.30	2.32	
12	1.00	1.75	2.35	2.40	2.60	2.60	2.90	2.50	2.20	2.74	2.30	2.32	
13	1.00	1.75	2.35	2.40	2.60	3.80	3.00	2.50	2.20	2.70	2.30	2.32	
14	1.00	1.75	2.35	2.50	2.60	3.60	3.00	2.50	2.20	2.70	2.30	2.32	
15	1.00	1.75	2.90	2.50	2.60	2.90	3.50	2.50	2.20	2.90	2.30	2.32	
16	1.00	1.90	2.90	2.50	2.60	2.90	3.40	2.50	2.20	2.50	2.30	2.32	
17	1.00	2.10	2.90	2.50	2.60	2.60	3.20	2.50	2.20	2.50	2.30	2.32	
18	1.00	2.30	2.90	2.50	2.60	2.80	2.90	2.60	2.20	2.30	2.30	2.33	
19	1.00	2.30	2.60	2.50	2.60	2.80	3.30	2.60	2.20	2.30	2.30	2.33	
20	1.00	2.30	2.60	2.50	2.60	3.50	3.30	2.60	2.20	2.30	2.30	2.33	
21	1.00	2.40	2.70	3.21	2.60	4.00	3.20	2.70	2.20	2.30	2.30	2.34	
22	1.00	2.40	2.70	3.40	2.60	3.80	3.00	2.70	2.20	2.30	2.30	2.34	
23	1.00	2.40	2.40	3.30	2.30	5.30	3.00	2.70	2.20	2.30	2.30	2.34	
24	1.00	2.40	2.40	2.50	2.80	4.10	3.00	2.70	2.20	2.30	2.30	2.35	
25	1.00	2.40	2.60	2.50	2.80	4.40	3.15	2.70	2.20	2.30	2.30	2.35	
26	1.00	2.40	2.60	2.50	2.60	4.40	3.20	2.70	2.20	2.35	2.30	2.36	
27	1.15	2.40	2.50	2.50	2.60	3.50	4.75	2.70	2.20	2.35	2.30	2.36	
28	1.15	2.40	2.50	2.50	2.60	3.20	4.50	2.70	2.10	2.35	2.30	2.36	
29	1.15	2.40	2.60	2.50	2.60	2.90	3.30	2.70	2.10	2.35		2.37	
30	1.15	2.40	2.40	2.50	2.60	2.50	3.20	2.70	2.10	2.35		2.37	
31		2.40		2.50	2.60		3.20		2.10	2.35		2.37	
Mean	1.02	1.99	2.52	2.64	2.58	3.12	3.24	2.65	2.23	2.43	2.30	2.33	
Max	1.15	2.40	2.90	3.40	2.80	5.30	4.75	2.80	2.70	2.90	2.30	2.37	5.30
Min	1.00	1.50	2.35	2.40	2.30	2.30	2.90	2.50	2.10	2.20	2.30	2.30	1.00

Annual Max Momentary Gage Height 5.30 m. (MSL.) , at 06.00 Hours, on Sep 23, 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.18 m. (MSL.)

Left Bank Elevation 7.44 m. (MSL.) ,

Right Bank Elevation 7.15 m. (MSL.) , Drainage Are 1,220 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.80	2.20	1.40	2.60	11.40	3.40	3.40	1.00	1.40	1.40		
2	0.00	0.00	1.80	2.60	1.40	2.60	10.20	4.20	2.20	1.80	1.40	1.40		
3	0.00	0.00	1.80	2.60	2.60	2.60	9.00	4.20	2.20	1.80	1.40	1.40		
4	0.00	0.00	1.80	2.20	2.60	2.60	6.60	4.20	1.40	1.80	1.40	1.40		
5	0.00	0.00	1.80	2.60	2.60	2.60	7.80	4.20	1.00	1.80	1.40	1.40		
6	0.00	0.00	1.80	3.40	2.60	2.60	6.60	3.40	1.00	1.80	1.40	1.44		
7	0.00	0.00	1.80	5.80	2.60	2.60	5.80	3.40	1.00	1.80	1.40	1.44		
8	0.00	0.00	1.80	5.80	2.60	1.80	5.00	3.40	1.00	1.80	1.40	1.44		
9	0.00	0.00	1.60	5.00	2.60	1.80	5.80	2.60	1.00	2.20	1.40	1.44		
10	0.00	0.00	1.60	4.20	2.60	1.40	5.00	2.20	1.00	2.60	1.40	1.44		
11	0.00	0.00	1.60	1.80	2.60	2.60	5.00	2.20	1.00	3.72	1.40	1.48		
12	0.00	0.00	1.60	1.80	2.60	2.60	5.00	2.20	1.00	3.72	1.40	1.48		
13	0.00	0.00	1.60	1.80	2.60	16.40	5.80	2.20	1.00	3.40	1.40	1.48		
14	0.00	0.00	1.60	2.20	2.60	13.00	5.80	2.20	1.00	3.40	1.40	1.48		
15	0.00	0.00	5.00	2.20	2.60	5.00	11.40	2.20	1.00	5.00	1.40	1.48		
16	0.00	0.20	5.00	2.20	2.60	5.00	10.20	2.20	1.00	2.20	1.40	1.48		
17	0.00	0.60	5.00	2.20	2.60	2.60	7.80	2.20	1.00	2.20	1.40	1.48		
18	0.00	1.40	5.00	2.20	2.60	4.20	5.00	2.60	1.00	1.40	1.40	1.52		
19	0.00	1.40	2.60	2.20	2.60	4.20	9.00	2.60	1.00	1.40	1.40	1.52		
20	0.00	1.40	2.60	2.20	2.60	11.40	9.00	2.60	1.00	1.40	1.40	1.52		
21	0.00	1.80	3.40	7.92	2.60	20.00	7.80	3.40	1.00	1.40	1.40	1.56		
22	0.00	1.80	3.40	10.20	2.60	16.40	5.80	3.40	1.00	1.40	1.40	1.56		
23	0.00	1.80	1.80	9.00	1.40	64.50	5.80	3.40	1.00	1.40	1.40	1.56		
24	0.00	1.80	1.80	2.20	4.20	22.30	5.80	3.40	1.00	1.40	1.40	1.60		
25	0.00	1.80	2.60	2.20	4.20	29.40	7.20	3.40	1.00	1.40	1.40	1.60		
26	0.00	1.80	2.60	2.20	2.60	29.40	7.80	3.40	1.00	1.60	1.40	1.64		
27	0.00	1.80	2.20	2.20	2.60	11.40	40.20	3.40	1.00	1.60	1.40	1.64		
28	0.00	1.80	2.20	2.20	2.60	7.80	32.40	3.40	0.60	1.60	1.40	1.64		
29	0.00	1.80	2.60	2.20	2.60	5.00	9.00	3.40	0.60	1.60		1.68		
30	0.00	1.80	1.80	2.20	2.60	2.20	7.80	3.40	0.60	1.60		1.68		
31		1.80		2.20	2.60		7.80		0.60	1.60		1.68		
Total	0.00	24.80	73.60	101.92	80.20	298.60	284.60	92.40	34.60	62.84	39.20	46.96	1139.72	CMSDAY
Mean	0.00	0.80	2.45	3.29	2.59	9.95	9.18	3.08	1.12	2.03	1.40	1.51	3.12	CMS
Max	0.00	1.80	5.00	10.20	4.20	64.50	40.20	4.20	3.40	5.00	1.40	1.68	64.50	CMS
Min	0.00	0.00	1.60	1.80	1.40	1.40	5.00	2.20	0.60	1.00	1.40	1.40	0.00	CMS
Runoff	0.00	2.14	6.36	8.81	6.93	25.80	24.59	7.98	2.99	5.43	3.39	4.06	98.47	MCM

Momentary Peak 64.50 CMS, at 5.30 m. (MSL.), at 06.00 Hours, on Sep 23, 2016

Runoff Yield 2.56 Liters/Second/Square KM. Momentary Peak Yield 52.870 Liters/Second/Square KM.

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

Ban Song Phi Nong **Amphoe** Kaeng Krachan **Changwat** Phetchaburi

Drainge Area 2,220 sq.km.

Type of Gage Water - stage recorder

Zero Gage at Bottom +40.998 m. (MSL.)

Bench Mark B.M.-H.D.

Location BM On left bank about 24 meters from the top staff gage. **Elevation** +50.534 m. (MSL.)

Gage Reading Frequency Recording

Basis of Mean Daily Gage Height Arithmetic mean of 24 readings

Period of Available Gage Records 1930 - 1942 , 1954 to date

Rating Operation

Period of Rating 1954 - 1959 , 1968 to date

Rated by Flot -

Rated by Current Meter 1954 - 1959 , 1968 to date

Stability of Channel Regimes Stable.

Overbank Flow Conditions No overbank flow.

General Description Records good. Flow regulated by Kaeng Krachan Reservoir.
Stage-discharge relation defined by 16 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

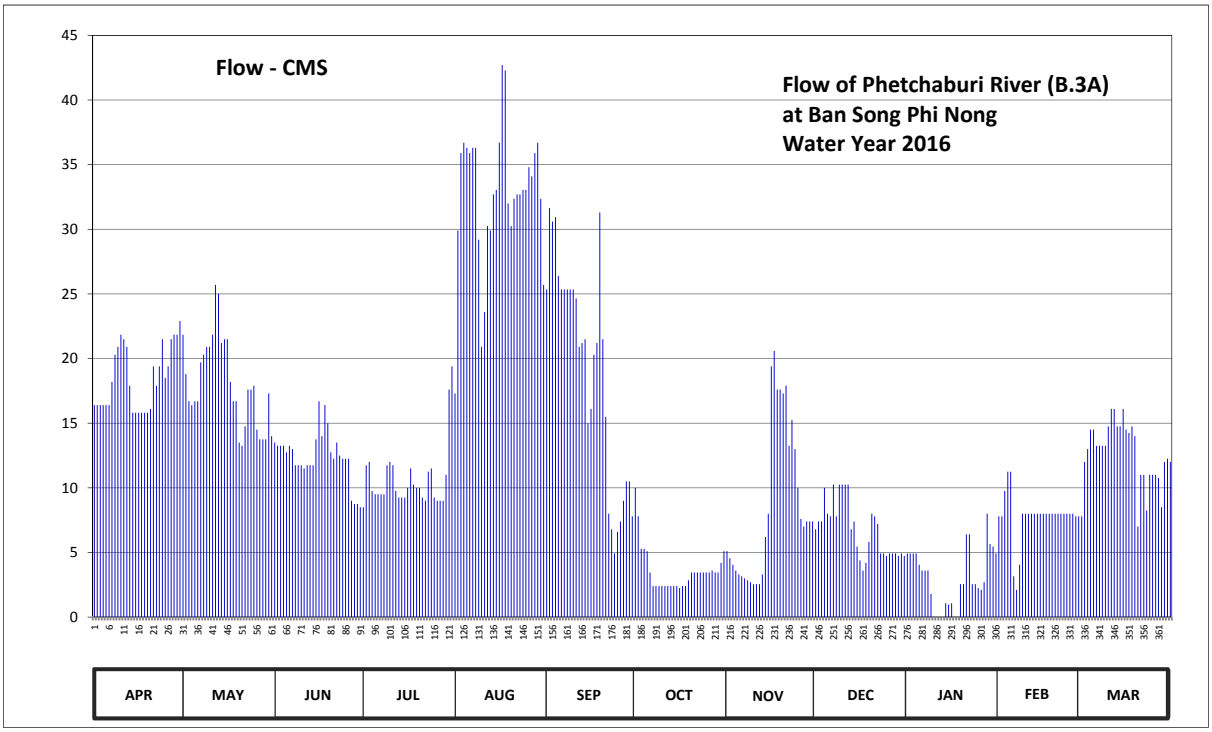
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.03	42.21	41.92	41.72	42.06	42.31	41.78	41.55	41.64	41.54	41.69	41.69	
2	42.03	42.11	41.91	41.85	42.44	42.49	41.69	41.52	41.67	41.54	41.69	41.86	
3	42.03	42.04	41.91	41.86	42.61	42.46	41.56	41.49	41.67	41.54	41.77	41.90	
4	42.03	42.03	41.91	41.77	42.63	42.47	41.56	41.46	41.78	41.54	41.83	41.96	
5	42.03	42.04	41.89	41.76	42.62	42.34	41.55	41.44	41.70	41.49	41.83	41.96	
6	42.03	42.04	41.91	41.76	42.61	42.31	41.45	41.43	41.69	41.46	41.43	41.91	
7	42.09	42.14	41.90	41.76	42.62	42.31	41.38	41.42	41.79	41.46	41.36	41.91	
8	42.16	42.16	41.85	41.76	42.62	42.31	41.38	41.41	41.69	41.46	41.49	41.91	
9	42.18	42.18	41.85	41.85	42.42	42.31	41.38	41.40	41.79	41.34	41.70	41.91	
10	42.21	42.18	41.85	41.86	42.18	42.31	41.38	41.39	41.79	41.20	41.70	41.97	
11	42.20	42.21	41.84	41.85	42.26	42.29	41.38	41.39	41.79	41.20	41.70	42.02	
12	42.18	42.32	41.85	41.77	42.45	42.18	41.38	41.39	41.79	41.20	41.70	42.02	
13	42.08	42.30	41.85	41.75	42.44	42.19	41.38	41.44	41.64	41.20	41.70	41.97	
14	42.01	42.19	41.85	41.75	42.52	42.20	41.38	41.61	41.67	41.29	41.70	41.97	
15	42.01	42.20	41.93	41.75	42.53	41.98	41.38	41.70	41.57	41.28	41.70	42.02	
16	42.01	42.20	42.04	41.78	42.63	42.02	41.37	42.13	41.51	41.29	41.70	41.96	
17	42.01	42.09	41.94	41.84	42.78	42.16	41.38	42.17	41.46	41.20	41.70	41.95	
18	42.01	42.04	42.03	41.79	42.77	42.19	41.38	42.07	41.50	41.20	41.70	41.97	
19	42.01	42.04	41.98	41.78	42.50	42.48	41.41	42.07	41.59	41.39	41.70	41.94	
20	42.02	41.92	41.89	41.78	42.45	42.20	41.45	42.06	41.70	41.39	41.70	41.65	
21	42.13	41.91	41.87	41.75	42.51	42.00	41.45	42.08	41.69	41.62	41.70	41.82	
22	42.08	41.97	41.92	41.74	42.52	41.70	41.45	41.91	41.66	41.62	41.70	41.82	
23	42.13	42.07	41.88	41.83	42.52	41.64	41.45	41.99	41.54	41.39	41.70	41.71	
24	42.20	42.07	41.87	41.84	42.53	41.54	41.45	41.90	41.54	41.39	41.70	41.82	
25	42.10	42.08	41.87	41.75	42.53	41.63	41.45	41.78	41.53	41.37	41.70	41.82	
26	42.13	41.96	41.87	41.74	42.58	41.67	41.45	41.68	41.54	41.36	41.70	41.82	
27	42.20	41.93	41.74	41.74	42.56	41.74	41.46	41.65	41.54	41.40	41.69	41.81	
28	42.21	41.93	41.73	41.74	42.61	41.80	41.45	41.67	41.54	41.70	41.69	41.72	
29	42.21	41.93	41.73	41.82	42.63	41.80	41.45	41.67	41.53	41.58		41.86	
30	42.24	42.06	41.72	42.07	42.51	41.69	41.50	41.67	41.54	41.57		41.87	
31		41.94		42.13	42.32		41.55		41.53	41.54		41.86	
Mean	42.10	42.08	41.88	41.80	42.51	42.09	41.46	41.68	41.63	41.41	41.68	41.88	
Max	42.24	42.32	42.04	42.13	42.78	42.49	41.78	42.17	41.79	41.70	41.83	42.02	42.78
Min	42.01	41.91	41.72	41.72	42.06	41.54	41.37	41.39	41.46	41.20	41.36	41.65	41.20

Annual Max Momentary Gage Height 42.78 m. (MSL.) , at 01.00 Hours , on Aug 17 , 2016

Zero Gage at Bottom Elevation 41.00 m. (MSL.) , River Bed 40.63 m. (MSL.)

Left Bank Elevation 48.86 m. (MSL.) ,

Right Bank Elevation 48.81 m. (MSL.) , Drainage Are 2,220 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.40	21.85	13.50	8.50	17.30	25.35	10.00	5.10	6.80	4.92	7.80	7.80	
2	16.40	18.80	13.25	11.75	29.90	31.65	7.80	4.56	7.40	4.92	7.80	12.00	
3	16.40	16.70	13.25	12.00	35.90	30.60	5.28	4.05	7.40	4.92	9.75	13.00	
4	16.40	16.40	13.25	9.75	36.70	30.95	5.28	3.60	10.00	4.92	11.25	14.50	
5	16.40	16.70	12.75	9.50	36.30	26.40	5.10	3.30	8.00	4.05	11.25	14.50	
6	16.40	16.70	13.25	9.50	35.90	25.35	3.45	3.15	7.80	3.60	3.15	13.25	
7	18.20	19.70	13.00	9.50	36.30	25.35	2.40	3.00	10.25	3.60	2.10	13.25	
8	20.30	20.30	11.75	9.50	36.30	25.35	2.40	2.85	7.80	3.60	4.05	13.25	
9	20.90	20.90	11.75	11.75	29.20	25.35	2.40	2.70	10.25	1.80	8.00	13.25	
10	21.85	20.90	11.75	12.00	20.90	25.35	2.40	2.55	10.25	0.00	8.00	14.75	
11	21.50	21.85	11.50	11.75	23.60	24.65	2.40	2.55	10.25	0.00	8.00	16.10	
12	20.90	25.70	11.75	9.75	30.25	20.90	2.40	2.55	10.25	0.00	8.00	16.10	
13	17.90	25.00	11.75	9.25	29.90	21.20	2.40	3.30	6.80	0.00	8.00	14.75	
14	15.80	21.20	11.75	9.25	32.70	21.50	2.40	6.20	7.40	1.08	8.00	14.75	
15	15.80	21.50	13.75	9.25	33.05	15.00	2.40	8.00	5.46	0.96	8.00	16.10	
16	15.80	21.50	16.70	10.00	36.70	16.10	2.25	19.40	4.38	1.08	8.00	14.50	
17	15.80	18.20	14.00	11.50	42.70	20.30	2.40	20.60	3.60	0.00	8.00	14.25	
18	15.80	16.70	16.40	10.25	42.30	21.20	2.40	17.60	4.20	0.00	8.00	14.75	
19	15.80	16.70	15.00	10.00	32.00	31.30	2.85	17.60	5.82	2.55	8.00	14.00	
20	16.10	13.50	12.75	10.00	30.25	21.50	3.45	17.30	8.00	2.55	8.00	7.00	
21	19.40	13.25	12.25	9.25	32.35	15.50	3.45	17.90	7.80	6.40	8.00	11.00	
22	17.90	14.75	13.50	9.00	32.70	8.00	3.45	13.25	7.20	6.40	8.00	11.00	
23	19.40	17.60	12.50	11.25	32.70	6.80	3.45	15.25	4.92	2.55	8.00	8.25	
24	21.50	17.60	12.25	11.50	33.05	4.92	3.45	13.00	4.92	2.55	8.00	11.00	
25	18.50	17.90	12.25	9.25	33.05	6.60	3.45	10.00	4.74	2.25	8.00	11.00	
26	19.40	14.50	12.25	9.00	34.80	7.40	3.45	7.60	4.92	2.10	8.00	11.00	
27	21.50	13.75	9.00	9.00	34.10	9.00	3.60	7.00	4.92	2.70	7.80	10.75	
28	21.85	13.75	8.75	9.00	35.90	10.50	3.45	7.40	4.92	8.00	7.80	8.50	
29	21.85	13.75	8.75	11.00	36.70	10.50	3.45	7.40	4.74	5.64		12.00	
30	22.90	17.30	8.50	17.60	32.35	7.80	4.20	7.40	4.92	5.46		12.25	
31		14.00		19.40	25.70		5.10		4.74	4.92		12.00	
Total	555.05	558.95	372.85	330.00	1011.55	572.37	112.36	256.16	210.85	93.52	216.75	390.60	4681.01 CMSDAY
Mean	18.50	18.03	12.43	10.65	32.63	19.08	3.62	8.54	6.80	3.02	7.74	12.60	12.82 CMS
Max	22.90	25.70	16.70	19.40	42.70	31.65	10.00	20.60	10.25	8.00	11.25	16.10	42.70 CMS
Min	15.80	13.25	8.50	8.50	17.30	4.92	2.25	2.55	3.60	0.00	2.10	7.00	0.00 CMS
Runoff	47.96	48.29	32.21	28.51	87.40	49.45	9.71	22.13	18.22	8.08	18.73	33.75	404.44 MCM

Momentary Peak 42.70 CMS. at 42.78 m. (MSL.) at 01.00 Hours , on Aug 17 , 2016

Runoff Yield 5.72 Liters/Second/Square KM. Momentary Peak Yield 19.030 Liters/Second/Square KM.

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Huai Phak at Ban Prong Khae , Phetchaburi (B.8A)

Lat 12 - 48 - 50 N Long 99 - 42 - 16 E

Location : on left bank at Ban Prong Khae.

	Ban Prong Khae	**Amphoe** Tha Yang	**Changwat** Phetchaburi
Drainge Area	301 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+39.177 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of gage observer's house.	**Elevation**	+47.485 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

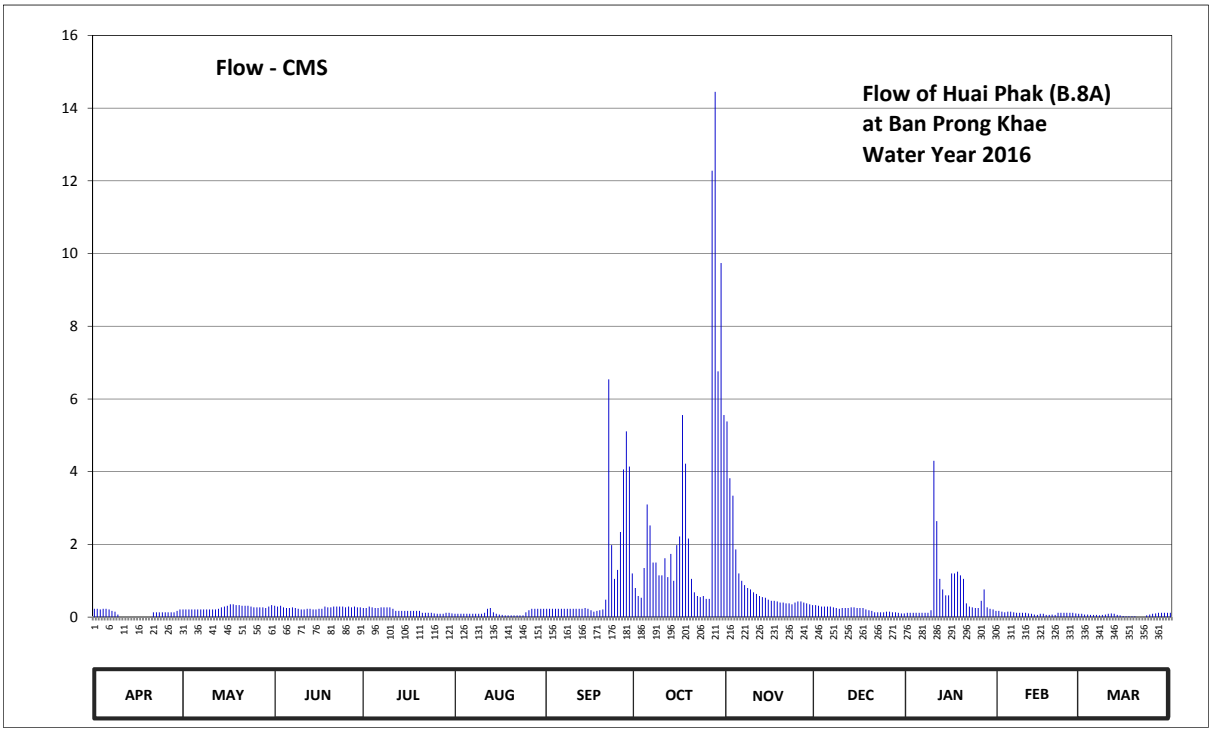
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.44	39.43	39.48	39.45	39.36	39.44	39.65	40.32	39.49	39.38	39.41	39.36	
2	39.44	39.43	39.47	39.45	39.36	39.44	39.59	40.14	39.48	39.38	39.40	39.35	
3	39.43	39.43	39.48	39.47	39.36	39.44	39.57	40.08	39.47	39.38	39.39	39.35	
4	39.44	39.43	39.46	39.46	39.36	39.44	39.77	39.86	39.47	39.38	39.40	39.34	
5	39.44	39.43	39.45	39.45	39.36	39.44	40.05	39.74	39.47	39.38	39.40	39.34	
6	39.43	39.43	39.45	39.45	39.36	39.44	39.97	39.70	39.47	39.38	39.39	39.34	
7	39.41	39.43	39.46	39.46	39.36	39.44	39.80	39.67	39.46	39.38	39.38	39.33	
8	39.40	39.43	39.45	39.46	39.36	39.44	39.80	39.65	39.45	39.38	39.38	39.34	
9	39.35	39.43	39.44	39.46	39.36	39.44	39.73	39.64	39.44	39.42	39.38	39.35	
10	39.28	39.43	39.43	39.46	39.36	39.44	39.73	39.62	39.45	40.20	39.38	39.36	
11	39.28	39.43	39.43	39.44	39.38	39.44	39.82	39.61	39.45	39.99	39.37	39.37	
12	39.28	39.43	39.44	39.41	39.44	39.44	39.72	39.59	39.45	39.71	39.36	39.36	
13	39.28	39.44	39.44	39.41	39.45	39.44	39.84	39.58	39.46	39.64	39.35	39.34	
14	39.28	39.46	39.43	39.41	39.39	39.45	39.70	39.57	39.46	39.60	39.34	39.33	
15	39.28	39.47	39.43	39.41	39.36	39.44	39.88	39.55	39.45	39.60	39.36	39.32	
16	39.28	39.48	39.44	39.41	39.35	39.42	39.92	39.54	39.45	39.74	39.36	39.31	
17	39.28	39.50	39.44	39.41	39.34	39.40	40.34	39.54	39.45	39.74	39.34	39.31	
18	39.28	39.50	39.47	39.41	39.33	39.41	40.19	39.53	39.43	39.75	39.34	39.31	
19	39.28	39.49	39.46	39.41	39.33	39.42	39.91	39.52	39.42	39.73	39.35	39.31	
20	39.30	39.49	39.46	39.41	39.33	39.43	39.71	39.52	39.41	39.71	39.34	39.30	
21	39.39	39.48	39.47	39.38	39.33	39.55	39.62	39.51	39.39	39.51	39.38	39.30	
22	39.39	39.48	39.47	39.38	39.33	40.44	39.59	39.51	39.39	39.47	39.38	39.30	
23	39.39	39.48	39.47	39.38	39.33	39.88	39.58	39.50	39.39	39.46	39.38	39.33	
24	39.39	39.47	39.47	39.38	39.33	39.71	39.59	39.52	39.39	39.45	39.38	39.35	
25	39.39	39.46	39.46	39.37	39.39	39.76	39.56	39.53	39.40	39.45	39.38	39.36	
26	39.39	39.46	39.47	39.36	39.42	39.94	39.56	39.53	39.40	39.54	39.38	39.37	
27	39.39	39.46	39.46	39.36	39.44	40.17	40.92	39.52	39.39	39.64	39.37	39.38	
28	39.39	39.46	39.47	39.36	39.44	40.29	41.07	39.51	39.39	39.46	39.36	39.38	
29	39.41	39.45	39.46	39.38	39.44	40.18	40.46	39.50	39.38	39.44		39.38	
30	39.43	39.47	39.46	39.38	39.44	39.74	40.72	39.49	39.37	39.43		39.38	
31		39.49		39.37	39.44		40.34		39.37	39.41		39.38	
Mean	39.36	39.46	39.46	39.41	39.38	39.61	39.93	39.64	39.43	39.55	39.37	39.34	
Max	39.44	39.50	39.48	39.47	39.45	40.44	41.07	40.32	39.49	40.20	39.41	39.38	41.07
Min	39.28	39.43	39.43	39.36	39.33	39.40	39.56	39.49	39.37	39.38	39.34	39.30	39.28

Annual Max Momentary Gage Height 41.76 m. (MSL.) , at 17.00 Hours , on Oct 27 , 2016

Zero Gage at Bottom Elevation 39.18 m. (MSL.) , River Bed 39.27 m. (MSL.)

Left Bank Elevation 45.12 m. (MSL.) ,

Right Bank Elevation 44.21 m. (MSL.) , Drainage Are 301 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	0.21	0.31	0.25	0.09	0.23	0.80	5.38	0.33	0.12	0.17	0.09	
2	0.23	0.21	0.29	0.25	0.09	0.23	0.58	3.82	0.31	0.12	0.15	0.07	
3	0.21	0.21	0.31	0.29	0.09	0.23	0.53	3.34	0.29	0.12	0.13	0.07	
4	0.23	0.21	0.27	0.27	0.09	0.23	1.35	1.86	0.29	0.12	0.15	0.06	
5	0.23	0.21	0.25	0.25	0.09	0.23	3.10	1.20	0.29	0.12	0.15	0.06	
6	0.21	0.21	0.25	0.25	0.09	0.23	2.52	1.00	0.29	0.12	0.13	0.06	
7	0.17	0.21	0.27	0.27	0.09	0.23	1.50	0.88	0.27	0.12	0.12	0.05	
8	0.15	0.21	0.25	0.27	0.09	0.23	1.50	0.80	0.25	0.12	0.12	0.06	
9	0.07	0.21	0.23	0.27	0.09	0.23	1.15	0.76	0.23	0.19	0.12	0.07	
10	0.00	0.21	0.21	0.27	0.09	0.23	1.15	0.68	0.25	4.30	0.12	0.09	
11	0.00	0.21	0.21	0.23	0.12	0.23	1.62	0.64	0.25	2.64	0.10	0.10	
12	0.00	0.21	0.23	0.17	0.23	0.23	1.10	0.58	0.25	1.05	0.09	0.09	
13	0.00	0.23	0.23	0.17	0.25	0.23	1.74	0.55	0.27	0.76	0.07	0.06	
14	0.00	0.27	0.21	0.17	0.13	0.25	1.00	0.53	0.27	0.60	0.06	0.05	
15	0.00	0.29	0.21	0.17	0.09	0.23	1.98	0.48	0.25	0.60	0.09	0.03	
16	0.00	0.31	0.23	0.17	0.07	0.19	2.22	0.45	0.25	1.20	0.09	0.02	
17	0.00	0.35	0.23	0.17	0.06	0.15	5.56	0.45	0.25	1.20	0.06	0.02	
18	0.00	0.35	0.29	0.17	0.05	0.17	4.22	0.43	0.21	1.25	0.06	0.02	
19	0.00	0.33	0.27	0.17	0.05	0.19	2.16	0.40	0.19	1.15	0.07	0.02	
20	0.00	0.33	0.27	0.17	0.05	0.21	1.05	0.40	0.17	1.05	0.06	0.00	
21	0.13	0.31	0.29	0.12	0.05	0.48	0.68	0.38	0.13	0.38	0.12	0.00	
22	0.13	0.31	0.29	0.12	0.05	6.54	0.58	0.38	0.13	0.29	0.12	0.00	
23	0.13	0.31	0.29	0.12	0.05	1.98	0.55	0.35	0.13	0.27	0.12	0.05	
24	0.13	0.29	0.29	0.12	0.05	1.05	0.58	0.40	0.13	0.25	0.12	0.07	
25	0.13	0.27	0.27	0.10	0.13	1.30	0.50	0.43	0.15	0.25	0.12	0.09	
26	0.13	0.27	0.29	0.09	0.19	2.34	0.50	0.43	0.15	0.45	0.12	0.10	
27	0.13	0.27	0.27	0.09	0.23	4.06	12.28	0.40	0.13	0.76	0.10	0.12	
28	0.13	0.27	0.29	0.09	0.23	5.11	14.45	0.38	0.13	0.27	0.09	0.12	
29	0.17	0.25	0.27	0.12	0.23	4.14	6.76	0.35	0.12	0.23		0.12	
30	0.21	0.29	0.27	0.12	0.23	1.20	9.74	0.33	0.10	0.21		0.12	
31		0.33		0.10	0.23		5.56		0.10	0.17		0.12	
Total	3.15	8.15	7.84	5.59	3.67	32.58	89.01	28.46	6.56	20.48	3.02	2.00	210.51	CMSDAY
Mean	0.10	0.26	0.26	0.18	0.12	1.09	2.87	0.95	0.21	0.66	0.11	0.06	0.58	CMS
Max	0.23	0.35	0.31	0.29	0.25	6.54	14.45	5.38	0.33	4.30	0.17	0.12	14.45	CMS
Min	0.00	0.21	0.21	0.09	0.05	0.15	0.50	0.33	0.10	0.12	0.06	0.00	0.00	CMS
Runoff	0.27	0.70	0.68	0.48	0.32	2.81	7.69	2.46	0.57	1.77	0.26	0.17	18.19	MCM

Momentary Peak 30.06 CMS. at 41.76 m. (MSL.) at 17.00 Hours , on Oct 27 , 2016

Runoff Yield 1.92 Liters/Second/Square KM. Momentary Peak Yield 99.870 Liters/Second/Square KM.

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

	Ban Sarahed	**Amphoe** Tha Yang	**Changwat** Phetchaburi
Drainge Area	2,617 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+25.317 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +32.512 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

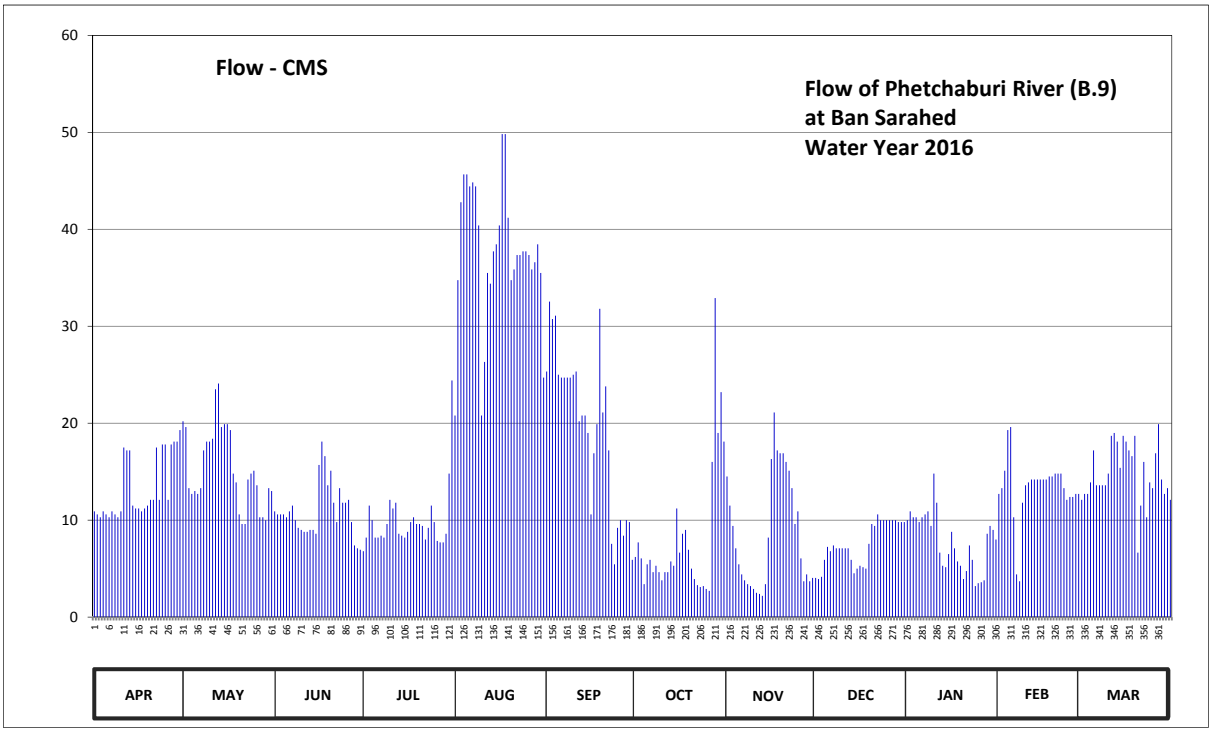
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.23	27.54	27.23	27.02	27.56	27.71	26.98	27.35	26.82	27.20	27.29	27.27	
2	27.22	27.52	27.22	27.11	27.98	27.92	27.08	27.25	26.81	27.23	27.31	27.29	
3	27.21	27.31	27.22	27.25	28.19	27.87	26.97	27.17	26.83	27.21	27.37	27.29	
4	27.23	27.29	27.22	27.20	28.26	27.88	26.76	27.04	26.96	27.21	27.51	27.33	
5	27.22	27.30	27.21	27.11	28.26	27.70	26.93	26.93	27.05	27.19	27.52	27.44	
6	27.21	27.29	27.23	27.11	28.23	27.69	26.96	26.85	27.02	27.21	27.21	27.32	
7	27.23	27.31	27.25	27.12	28.24	27.69	26.87	26.80	27.06	27.22	26.85	27.32	
8	27.22	27.44	27.20	27.11	28.23	27.69	26.92	26.76	27.04	27.23	26.79	27.32	
9	27.21	27.47	27.16	27.18	28.13	27.69	26.87	26.74	27.04	27.17	27.26	27.32	
10	27.23	27.47	27.15	27.27	27.56	27.70	26.80	26.71	27.04	27.36	27.32	27.36	
11	27.45	27.48	27.14	27.24	27.74	27.71	26.87	26.67	27.04	27.26	27.33	27.49	
12	27.44	27.65	27.14	27.26	28.00	27.54	26.87	26.66	27.04	27.01	27.34	27.50	
13	27.44	27.67	27.15	27.13	27.97	27.56	26.95	26.64	26.96	26.92	27.34	27.47	
14	27.25	27.52	27.15	27.12	28.06	27.56	26.92	26.76	26.86	26.91	27.34	27.38	
15	27.24	27.53	27.13	27.11	28.08	27.50	27.24	27.11	26.90	27.00	27.34	27.49	
16	27.24	27.53	27.39	27.14	28.13	27.22	27.01	27.41	26.92	27.14	27.34	27.47	
17	27.23	27.51	27.47	27.19	28.36	27.43	27.13	27.57	26.91	27.04	27.34	27.44	
18	27.24	27.36	27.42	27.21	28.36	27.53	27.15	27.44	26.90	26.95	27.35	27.42	
19	27.25	27.33	27.32	27.18	28.15	27.90	27.03	27.43	27.07	26.92	27.35	27.49	
20	27.27	27.22	27.37	27.18	27.98	27.57	26.90	27.43	27.18	26.81	27.36	27.01	
21	27.27	27.18	27.26	27.17	28.01	27.66	26.81	27.40	27.17	26.88	27.36	27.25	
22	27.45	27.18	27.19	27.10	28.05	27.44	26.75	27.37	27.22	27.06	27.36	27.40	
23	27.27	27.34	27.31	27.16	28.05	27.07	26.73	27.31	27.20	26.96	27.31	27.21	
24	27.46	27.36	27.26	27.25	28.06	26.93	26.74	27.18	27.20	26.74	27.27	27.33	
25	27.46	27.37	27.26	27.19	28.06	27.16	26.71	27.23	27.20	26.77	27.28	27.31	
26	27.27	27.32	27.27	27.09	28.05	27.20	26.69	26.97	27.20	26.78	27.28	27.43	
27	27.46	27.21	27.19	27.08	28.01	27.12	27.40	26.79	27.20	26.80	27.29	27.53	
28	27.47	27.21	27.06	27.08	28.03	27.20	27.93	26.85	27.20	27.13	27.29	27.34	
29	27.47	27.20	27.04	27.13	28.08	27.19	27.50	26.79	27.19	27.17		27.29	
30	27.51	27.31	27.03	27.36	28.00	26.96	27.64	26.82	27.19	27.15		27.31	
31		27.30		27.68	27.69		27.47		27.19	27.10		27.27	
Mean	27.31	27.38	27.22	27.18	28.05	27.50	27.02	27.05	27.05	27.06	27.30	27.36	
Max	27.51	27.67	27.47	27.68	28.36	27.92	27.93	27.57	27.22	27.36	27.52	27.53	28.36
Min	27.21	27.18	27.03	27.02	27.56	26.93	26.69	26.64	26.81	26.74	26.79	27.01	26.64

Annual Max Momentary Gage Height 28.36 m. (MSL.) , at 06.00 Hours , on Aug 17 , 2016

Zero Gage at Bottom Elevation 25.32 m. (MSL.) , River Bed 25.05 m. (MSL.)

Left Bank Elevation 32.37 m. (MSL.) ,

Right Bank Elevation 32.34 m. (MSL.) , Drainage Are 2,617 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.90	20.20	10.90	6.80	20.80	25.33	6.20	14.50	4.04	10.00	12.70	12.10	
2	10.60	19.60	10.60	8.20	34.76	32.54	7.70	11.50	3.92	10.90	13.30	12.70	
3	10.30	13.30	10.60	11.50	42.80	30.75	6.05	9.40	4.16	10.30	15.10	12.70	
4	10.90	12.70	10.60	10.00	45.66	31.10	3.40	7.10	5.90	10.30	19.30	13.90	
5	10.60	13.00	10.30	8.20	45.66	25.00	5.45	5.45	7.25	9.80	19.60	17.20	
6	10.30	12.70	10.90	8.20	44.43	24.70	5.90	4.40	6.80	10.30	10.30	13.60	
7	10.90	13.30	11.50	8.40	44.84	24.70	4.64	3.80	7.40	10.60	4.40	13.60	
8	10.60	17.20	10.00	8.20	44.43	24.70	5.30	3.40	7.10	10.90	3.70	13.60	
9	10.30	18.10	9.20	9.60	40.40	24.70	4.64	3.20	7.10	9.40	11.80	13.60	
10	10.90	18.10	9.00	12.10	20.80	25.00	3.80	2.90	7.10	14.80	13.60	14.80	
11	17.50	18.40	8.80	11.20	26.32	25.33	4.64	2.50	7.10	11.80	13.90	18.70	
12	17.20	23.50	8.80	11.80	35.50	20.20	4.64	2.40	7.10	6.65	14.20	19.00	
13	17.20	24.10	9.00	8.60	34.39	20.80	5.75	2.20	5.90	5.30	14.20	18.10	
14	11.50	19.60	9.00	8.40	37.72	20.80	5.30	3.40	4.52	5.15	14.20	15.40	
15	11.20	19.90	8.60	8.20	38.46	19.00	11.20	8.20	5.00	6.50	14.20	18.70	
16	11.20	19.90	15.70	8.80	40.40	10.60	6.65	16.30	5.30	8.80	14.20	18.10	
17	10.90	19.30	18.10	9.80	49.82	16.90	8.60	21.10	5.15	7.10	14.20	17.20	
18	11.20	14.80	16.60	10.30	49.82	19.90	9.00	17.20	5.00	5.75	14.50	16.60	
19	11.50	13.90	13.60	9.60	41.20	31.80	6.95	16.90	7.55	5.30	14.50	18.70	
20	12.10	10.60	15.10	9.60	34.76	21.10	5.00	16.90	9.60	3.92	14.80	6.65	
21	12.10	9.60	11.80	9.40	35.87	23.80	3.92	16.00	9.40	4.76	14.80	11.50	
22	17.50	9.60	9.80	8.00	37.35	17.20	3.30	15.10	10.60	7.40	14.80	16.00	
23	12.10	14.20	13.30	9.20	37.35	7.55	3.10	13.30	10.00	5.90	13.30	10.30	
24	17.80	14.80	11.80	11.50	37.72	5.45	3.20	9.60	10.00	3.20	12.10	13.90	
25	17.80	15.10	11.80	9.80	37.72	9.20	2.90	10.90	10.00	3.50	12.40	13.30	
26	12.10	13.60	12.10	7.85	37.35	10.00	2.70	6.05	10.00	3.60	12.40	16.90	
27	17.80	10.30	9.80	7.70	35.87	8.40	16.00	3.70	10.00	3.80	12.70	19.90	
28	18.10	10.30	7.40	7.70	36.61	10.00	32.91	4.40	10.00	8.60	12.70	14.20	
29	18.10	10.00	7.10	8.60	38.46	9.80	19.00	3.70	9.80	9.40		12.70	
30	19.30	13.30	6.95	14.80	35.50	5.90	23.20	4.04	9.80	9.00		13.30	
31		13.00		24.40	24.70		18.10		9.80	8.00		12.10	
Total	400.50	476.00	328.75	306.45	1167.47	582.25	249.14	259.54	232.39	240.73	371.90	459.05	5074.17 CMSDAY
Mean	13.35	15.35	10.96	9.89	37.66	19.41	8.04	8.65	7.50	7.77	13.28	14.81	13.90 CMS
Max	19.30	24.10	18.10	24.40	49.82	32.54	32.91	21.10	10.60	14.80	19.60	19.90	49.82 CMS
Min	10.30	9.60	6.95	6.80	20.80	5.45	2.70	2.20	3.92	3.20	3.70	6.65	2.20 CMS
Runoff	34.60	41.13	28.40	26.48	100.87	50.31	21.53	22.42	20.08	20.80	32.13	39.66	438.41 MCM

Momentary Peak 49.82 CMS. at 28.36 m. (MSL.) at 06.00 Hours , on Aug 17 , 2016

Runoff Yield 5.31 Liters/Second/Square KM. Momentary Peak Yield 19.040 Liters/Second/Square KM.

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

Location : on left bank at the bridge of Ban Tha Yang.

	Ban Tha Yang	**Amphoe** Tha Yang	**Changwat** Phetchaburi
Drainge Area	4,076 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+5.625 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 2 meters from the top staff gage.	**Elevation**	+15.068 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1985 to date		
Rated by Flot	-		
Rated by Current Meter	1985 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phet Dam.		
	Stage-discharge relation defined by 39 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

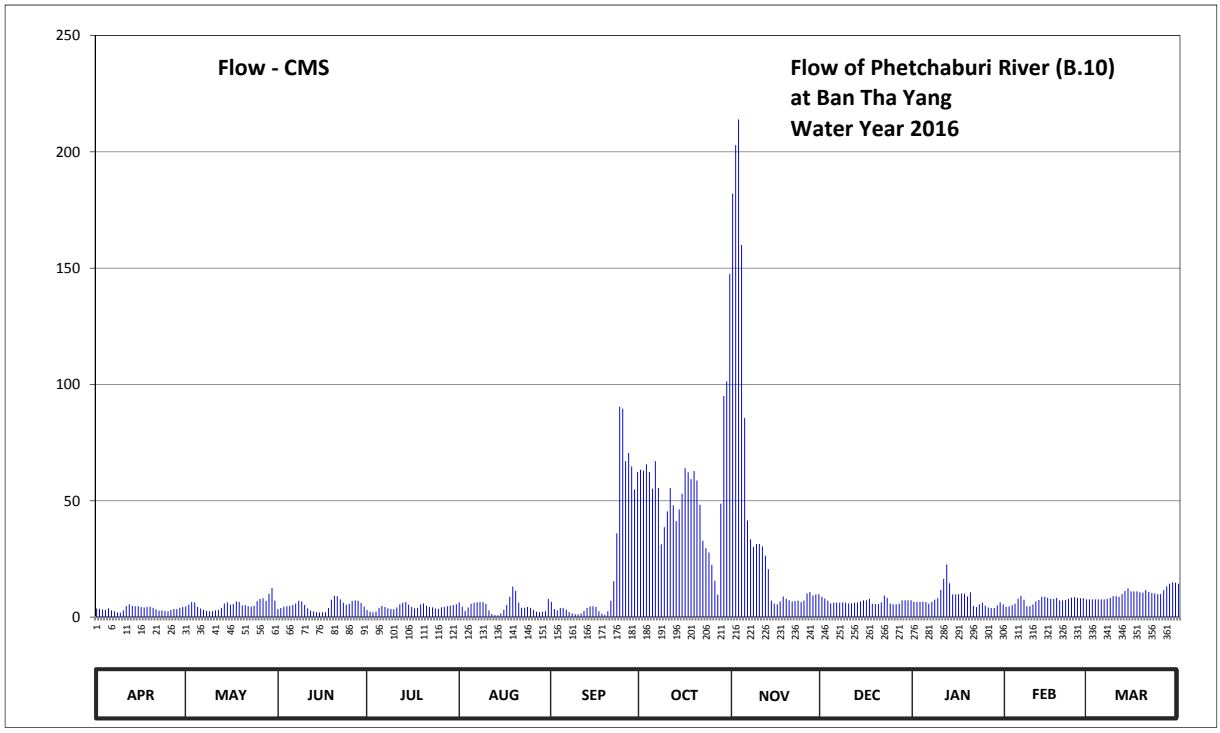
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.67	6.76	6.64	6.60	6.91	6.93	9.31	11.96	6.28	6.14	5.94	6.21	
2	6.66	6.83	6.69	6.46	6.75	6.64	9.30	12.37	6.23	6.13	5.96	6.21	
3	6.63	6.92	6.75	6.41	6.54	6.56	9.39	12.57	6.17	6.14	6.01	6.21	
4	6.61	6.91	6.77	6.48	6.72	6.69	9.28	11.51	6.09	6.14	6.08	6.21	
5	6.68	6.74	6.79	6.70	6.86	6.70	9.04	9.52	6.11	6.13	6.23	6.21	
6	6.58	6.67	6.81	6.78	6.90	6.62	9.43	7.92	6.11	6.08	6.31	6.21	
7	6.51	6.61	6.87	6.73	6.91	6.44	9.05	7.57	6.11	6.14	6.20	6.22	
8	6.40	6.54	6.96	6.68	6.92	6.31	8.17	7.41	6.12	6.20	5.97	6.25	
9	6.38	6.50	6.94	6.65	6.92	6.24	8.46	7.47	6.11	6.24	5.97	6.30	
10	6.58	6.51	6.82	6.64	6.86	6.24	8.71	7.47	6.09	6.48	6.04	6.30	
11	6.78	6.58	6.68	6.71	6.58	6.30	8.48	7.42	6.09	6.72	6.15	6.28	
12	6.84	6.61	6.56	6.84	6.26	6.54	8.18	7.22	6.11	7.03	6.19	6.36	
13	6.78	6.70	6.48	6.90	6.14	6.69	7.91	6.93	6.12	6.63	6.28	6.45	
14	6.77	6.87	6.42	6.92	6.12	6.76	8.11	6.17	6.15	6.35	6.28	6.52	
15	6.77	6.91	6.40	6.83	6.31	6.77	8.38	6.08	6.18	6.35	6.25	6.44	
16	6.73	6.83	6.41	6.73	6.62	6.74	8.80	6.05	6.18	6.36	6.22	6.44	
17	6.71	6.85	6.43	6.68	6.82	6.51	8.74	6.15	6.22	6.38	6.22	6.44	
18	6.74	6.94	6.69	6.70	7.08	6.29	8.63	6.29	6.08	6.37	6.25	6.41	
19	6.75	6.92	7.00	6.84	7.33	6.21	8.76	6.22	6.06	6.29	6.18	6.40	
20	6.70	6.80	7.11	6.87	7.24	6.50	8.61	6.18	6.06	6.41	6.18	6.48	
21	6.63	6.81	7.10	6.79	6.90	6.96	8.19	6.15	6.12	5.98	6.19	6.42	
22	6.56	6.77	7.01	6.74	6.70	7.45	7.54	6.16	6.32	5.93	6.22	6.39	
23	6.57	6.75	6.90	6.72	6.70	8.36	7.38	6.17	6.25	6.05	6.26	6.38	
24	6.53	6.78	6.83	6.67	6.73	10.06	7.29	6.13	6.08	6.11	6.27	6.36	
25	6.50	6.95	6.86	6.66	6.70	10.04	7.02	6.17	6.05	5.99	6.25	6.36	
26	6.61	7.02	6.96	6.72	6.61	9.43	6.68	6.38	6.05	5.91	6.24	6.47	
27	6.65	7.04	6.98	6.74	6.47	9.53	6.34	6.42	6.07	5.89	6.24	6.56	
28	6.64	6.96	6.97	6.77	6.42	9.36	8.21	6.32	6.18	5.89	6.21	6.62	
29	6.70	7.17	6.89	6.79	6.46	9.03	9.83	6.35	6.18	6.00		6.65	
30	6.73	7.30	6.75	6.81	6.51	9.28	10.01	6.36	6.18	6.12		6.64	
31		6.97		6.84	7.02		11.21		6.18	6.05		6.62	
Mean	6.65	6.82	6.78	6.72	6.71	7.34	8.53	7.44	6.14	6.21	6.17	6.39	
Max	6.84	7.30	7.11	6.92	7.33	10.06	11.21	12.57	6.32	7.03	6.31	6.65	12.57
Min	6.38	6.50	6.40	6.41	6.12	6.21	6.34	6.05	6.05	5.89	5.94	6.21	5.89

Annual Max Momentary Gage Height 12.66 m. (MSL.) , at 12.00 Hours , on Nov 3 , 2016

Zero Gage at Bottom Elevation 5.63 m. (MSL.) , River Bed 4.47 m. (MSL.)

Left Bank Elevation 15.29 m. (MSL.) ,

Right Bank Elevation 15.28 m. (MSL.) , Drainage Are 4,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.70	4.60	3.40	3.00	6.33	6.59	63.30	182.00	8.70	6.60	4.40	7.65	
2	3.60	5.36	3.90	2.30	4.50	3.40	63.00	202.85	7.95	6.45	4.60	7.65	
3	3.30	6.46	4.50	2.05	2.70	2.80	65.70	213.85	7.05	6.60	5.10	7.65	
4	3.10	6.33	4.70	2.40	4.20	3.90	62.40	159.95	5.90	6.60	5.80	7.65	
5	3.80	4.40	4.90	4.00	5.72	4.00	55.20	85.60	6.15	6.45	7.95	7.65	
6	2.90	3.70	5.12	4.80	6.20	3.20	67.05	41.50	6.15	5.80	9.15	7.65	
7	2.55	3.10	5.84	4.30	6.33	2.20	55.50	33.40	6.15	6.60	7.50	7.80	
8	2.00	2.70	6.98	3.80	6.46	1.55	31.28	30.20	6.30	7.50	4.70	8.25	
9	1.90	2.50	6.72	3.50	6.46	1.20	38.62	31.40	6.15	8.10	4.70	9.00	
10	2.90	2.55	5.24	3.40	5.72	1.20	45.48	31.40	5.90	11.70	5.40	9.00	
11	4.80	2.90	3.80	4.10	2.90	1.50	55.50	30.40	5.90	16.40	6.75	8.70	
12	5.48	3.10	2.80	5.48	1.30	2.70	48.00	26.40	6.15	22.60	7.35	9.90	
13	4.80	4.00	2.40	6.20	0.88	3.90	41.25	20.60	6.30	14.60	8.70	11.25	
14	4.70	5.84	2.10	6.46	0.84	4.60	46.25	7.05	6.75	9.75	8.70	12.40	
15	4.70	6.33	2.00	5.36	1.55	4.70	53.00	5.80	7.20	9.75	8.25	11.10	
16	4.30	5.36	2.05	4.30	3.20	4.40	64.00	5.50	7.20	9.90	7.80	11.10	
17	4.10	5.60	2.15	3.80	5.24	2.55	62.20	6.75	7.80	10.20	7.80	11.10	
18	4.40	6.72	3.90	4.00	8.70	1.45	59.25	8.85	5.80	10.05	8.25	10.65	
19	4.50	6.46	7.50	5.48	13.10	1.05	62.80	7.80	5.60	8.85	7.20	10.50	
20	4.00	5.00	9.15	5.84	11.30	2.50	58.75	7.20	5.60	10.65	7.20	11.70	
21	3.30	5.12	9.00	4.90	6.20	6.98	48.25	6.75	6.30	4.80	7.35	10.80	
22	2.80	4.70	7.65	4.40	4.00	15.50	32.80	6.90	9.30	4.30	7.80	10.35	
23	2.85	4.50	6.20	4.20	4.00	36.00	29.60	7.05	8.25	5.50	8.40	10.20	
24	2.65	4.80	5.36	3.70	4.30	90.40	27.80	6.45	5.80	6.15	8.55	9.90	
25	2.50	6.85	5.72	3.60	4.00	89.60	22.40	7.05	5.50	4.90	8.25	9.90	
26	3.10	7.80	6.98	4.20	3.10	67.05	15.60	10.20	5.50	4.10	8.10	11.55	
27	3.50	8.10	7.24	4.40	2.35	70.55	9.60	10.80	5.70	3.90	8.10	13.20	
28	3.40	6.98	7.11	4.70	2.10	64.80	48.75	9.30	7.20	3.90	7.65	14.40	
29	4.00	10.05	6.08	4.90	2.30	54.90	95.05	9.75	7.20	5.00		15.00	
30	4.30	12.50	4.50	5.12	2.55	62.40	101.35	9.90	7.20	6.30		14.80	
31		7.11		5.48	7.80		147.40		7.20	5.50		14.40	
Total	107.93	171.52	154.99	134.17	146.33	617.57	1677.13	1222.65	205.85	249.50	201.50	322.85	5211.99 CMSDAY
Mean	3.60	5.53	5.17	4.33	4.72	20.59	54.10	40.76	6.64	8.05	7.20	10.41	14.28 CMS
Max	5.48	12.50	9.15	6.46	13.10	90.40	147.40	213.85	9.30	22.60	9.15	15.00	213.85 CMS
Min	1.90	2.50	2.00	2.05	0.84	1.05	9.60	5.50	5.50	3.90	4.40	7.65	0.84 CMS
Runoff	9.33	14.82	13.39	11.59	12.64	53.36	144.90	105.64	17.79	21.56	17.41	27.89	450.32 MCM

Momentary Peak 218.80 CMS. at 12.66 m. (MSL.) at 12.00 Hours , on Nov 3 , 2016

Runoff Yield 3.47 Liters/Second/Square KM. Momentary Peak Yield 53.220 Liters/Second/Square KM.

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Cha Prong , Phetchaburi (B.11)

Lat 13 - 10 - 23 N Long 99 - 41 - 00 E

Location : on right bank at the bridge of Ban Cha Prong.

Ban Cha Prong **Amphoe** Nong Ya Plong **Changwat** Phetchaburi

Drainge Area	460 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+72.272 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 45 meters from the top staff gage. **Elevation** +78.722 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

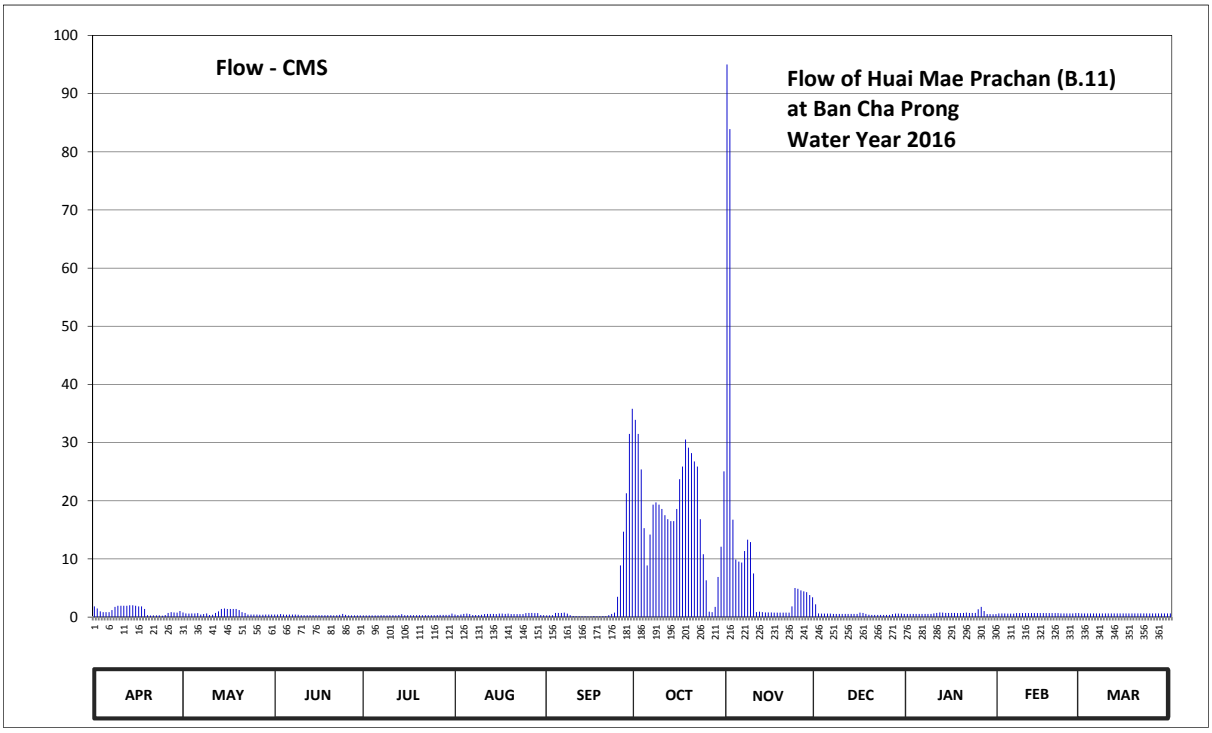
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.55	71.40	71.31	71.25	71.31	71.25	73.05	73.90	71.59	71.34	71.36	71.36	
2	71.51	71.36	71.31	71.25	71.28	71.25	73.00	73.77	71.36	71.34	71.36	71.36	
3	71.43	71.35	71.33	71.25	71.31	71.26	72.84	72.52	71.35	71.34	71.36	71.36	
4	71.41	71.36	71.31	71.25	71.34	71.38	72.45	72.17	71.35	71.34	71.35	71.36	
5	71.41	71.36	71.30	71.25	71.35	71.38	72.11	72.15	71.35	71.34	71.35	71.36	
6	71.41	71.37	71.31	71.25	71.33	71.38	72.18	72.14	71.35	71.34	71.35	71.36	
7	71.47	71.31	71.31	71.26	71.28	71.39	72.33	72.25	71.34	71.34	71.37	71.36	
8	71.54	71.33	71.31	71.26	71.28	71.35	72.34	72.35	71.34	71.34	71.37	71.36	
9	71.56	71.36	71.30	71.25	71.28	71.27	72.33	72.33	71.34	71.34	71.37	71.36	
10	71.56	71.28	71.27	71.26	71.30	71.20	72.31	72.02	71.34	71.36	71.37	71.36	
11	71.56	71.30	71.26	71.26	71.33	71.18	72.28	71.41	71.34	71.38	71.37	71.36	
12	71.56	71.38	71.26	71.25	71.34	71.17	72.26	71.42	71.34	71.40	71.37	71.36	
13	71.57	71.43	71.26	71.28	71.34	71.17	72.25	71.41	71.34	71.39	71.37	71.36	
14	71.57	71.50	71.26	71.32	71.34	71.17	72.25	71.40	71.34	71.38	71.37	71.36	
15	71.56	71.51	71.26	71.27	71.33	71.16	72.31	71.40	71.34	71.38	71.37	71.36	
16	71.55	71.50	71.27	71.27	71.35	71.16	72.44	71.40	71.39	71.38	71.37	71.36	
17	71.55	71.50	71.26	71.27	71.35	71.19	72.49	71.39	71.38	71.38	71.37	71.36	
18	71.50	71.50	71.26	71.27	71.34	71.17	72.59	71.39	71.34	71.37	71.37	71.36	
19	71.26	71.50	71.26	71.26	71.35	71.17	72.56	71.39	71.30	71.37	71.37	71.36	
20	71.23	71.47	71.26	71.27	71.33	71.18	72.54	71.39	71.29	71.38	71.37	71.36	
21	71.25	71.41	71.25	71.27	71.33	71.18	72.51	71.39	71.29	71.39	71.37	71.36	
22	71.25	71.38	71.26	71.27	71.33	71.26	72.49	71.39	71.29	71.38	71.36	71.36	
23	71.25	71.31	71.29	71.27	71.33	71.34	72.26	71.55	71.29	71.38	71.36	71.36	
24	71.22	71.31	71.34	71.27	71.33	71.39	72.06	71.85	71.29	71.38	71.36	71.36	
25	71.28	71.31	71.29	71.27	71.37	71.72	71.86	71.84	71.29	71.49	71.36	71.36	
26	71.38	71.31	71.25	71.28	71.38	72.11	71.42	71.82	71.29	71.54	71.36	71.36	
27	71.41	71.30	71.25	71.29	71.38	72.42	71.41	71.81	71.33	71.44	71.37	71.36	
28	71.40	71.30	71.25	71.29	71.37	72.71	71.54	71.80	71.35	71.33	71.37	71.36	
29	71.39	71.31	71.25	71.29	71.37	73.00	71.98	71.75	71.35	71.33		71.36	
30	71.44	71.31	71.25	71.29	71.28	73.09	72.29	71.71	71.35	71.32		71.36	
31		71.31		71.35	71.26		72.83		71.34	71.33		71.36	
Mean	71.43	71.38	71.28	71.27	71.33	71.50	72.31	71.88	71.34	71.37	71.36	71.36	
Max	71.57	71.51	71.34	71.35	71.38	73.09	73.05	73.90	71.59	71.54	71.37	71.36	73.90
Min	71.22	71.28	71.25	71.25	71.26	71.16	71.41	71.39	71.29	71.32	71.35	71.36	71.16

Annual Max Momentary Gage Height 74.57 m. (MSL.) , at 19.00 Hours , on Nov 1 , 2016

Zero Gage at Bottom Elevation 72.27 m. (MSL.) , River Bed 70.31 m. (MSL.)

Left Bank Elevation 79.26 m. (MSL.) ,

Right Bank Elevation 79.12 m. (MSL.) , Drainage Are 460 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.85	0.80	0.44	0.30	0.44	0.30	33.90	95.00	2.21	0.56	0.64	0.64		
2	1.49	0.64	0.44	0.30	0.36	0.30	31.50	83.90	0.64	0.56	0.64	0.64		
3	0.98	0.60	0.52	0.30	0.44	0.32	25.40	16.74	0.60	0.56	0.64	0.64		
4	0.86	0.64	0.44	0.30	0.56	0.72	15.30	9.89	0.60	0.56	0.60	0.64		
5	0.86	0.64	0.40	0.30	0.60	0.72	8.87	9.55	0.60	0.56	0.60	0.64		
6	0.86	0.68	0.44	0.30	0.52	0.72	14.20	9.38	0.60	0.56	0.60	0.64		
7	1.22	0.44	0.44	0.32	0.36	0.76	19.34	11.35	0.56	0.56	0.68	0.64		
8	1.76	0.52	0.44	0.32	0.36	0.60	19.72	13.30	0.56	0.56	0.68	0.64		
9	1.94	0.64	0.40	0.30	0.36	0.34	19.34	12.90	0.56	0.56	0.68	0.64		
10	1.94	0.36	0.34	0.32	0.40	0.20	18.58	7.50	0.56	0.64	0.68	0.64		
11	1.94	0.40	0.32	0.32	0.52	0.16	17.52	0.86	0.56	0.72	0.68	0.64		
12	1.94	0.72	0.32	0.30	0.56	0.14	16.84	0.92	0.56	0.80	0.68	0.64		
13	2.03	0.98	0.32	0.36	0.56	0.14	16.50	0.86	0.56	0.76	0.68	0.64		
14	2.03	1.40	0.32	0.48	0.56	0.14	16.50	0.80	0.56	0.72	0.68	0.64		
15	1.94	1.49	0.32	0.34	0.52	0.12	18.58	0.80	0.56	0.72	0.68	0.64		
16	1.85	1.40	0.34	0.34	0.60	0.12	23.72	0.80	0.76	0.72	0.68	0.64		
17	1.85	1.40	0.32	0.34	0.60	0.18	25.87	0.76	0.72	0.72	0.68	0.64		
18	1.40	1.40	0.32	0.34	0.56	0.14	30.53	0.76	0.56	0.68	0.68	0.64		
19	0.32	1.40	0.32	0.32	0.60	0.14	29.12	0.76	0.40	0.68	0.68	0.64		
20	0.26	1.22	0.32	0.34	0.52	0.16	28.18	0.76	0.38	0.72	0.68	0.64		
21	0.30	0.86	0.30	0.34	0.52	0.16	26.77	0.76	0.38	0.76	0.68	0.64		
22	0.30	0.72	0.32	0.34	0.52	0.32	25.87	0.76	0.38	0.72	0.64	0.64		
23	0.30	0.44	0.38	0.34	0.52	0.56	16.84	1.85	0.38	0.72	0.64	0.64		
24	0.24	0.44	0.56	0.34	0.52	0.76	10.80	5.00	0.38	0.72	0.64	0.64		
25	0.36	0.44	0.38	0.34	0.68	3.50	6.32	4.86	0.38	1.34	0.64	0.64		
26	0.72	0.44	0.30	0.36	0.72	8.87	0.92	4.58	0.38	1.76	0.64	0.64		
27	0.86	0.40	0.30	0.38	0.72	14.70	0.86	4.44	0.52	1.04	0.68	0.64		
28	0.80	0.40	0.30	0.38	0.68	21.30	1.76	4.30	0.60	0.52	0.68	0.64		
29	0.76	0.44	0.30	0.38	0.68	31.50	6.90	3.80	0.60	0.52		0.64		
30	1.04	0.44	0.30	0.38	0.36	35.82	12.11	3.40	0.60	0.48		0.64		
31		0.44		0.60	0.32		25.05		0.56	0.52		0.64		
Total	35.00	23.23	10.96	10.72	16.24	123.91	563.71	311.34	18.27	22.02	18.48	19.84	1173.72	CMSDAY
Mean	1.17	0.75	0.37	0.35	0.52	4.13	18.18	10.38	0.59	0.71	0.66	0.64	3.22	CMS
Max	2.03	1.49	0.56	0.60	0.72	35.82	33.90	95.00	2.21	1.76	0.68	0.64	95.00	CMS
Min	0.24	0.36	0.30	0.30	0.32	0.12	0.86	0.76	0.38	0.48	0.60	0.64	0.12	CMS
Runoff	3.02	2.01	0.95	0.93	1.40	10.71	48.70	26.90	1.58	1.90	1.60	1.71	101.41	MCM

Momentary Peak 159.44 CMS. at 74.57 m. (MSL.) at 19.00 Hours , on Nov 1 , 2016

Runoff Yield 6.99 Liters/Second/Square KM. Momentary Peak Yield 346.610 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	Ban Klang	**Amphoe** Thap Sakae	**Changwat** Prachuap Khiri Khan
Drainge Area	125 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+6.843 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+12.220 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +10.850 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

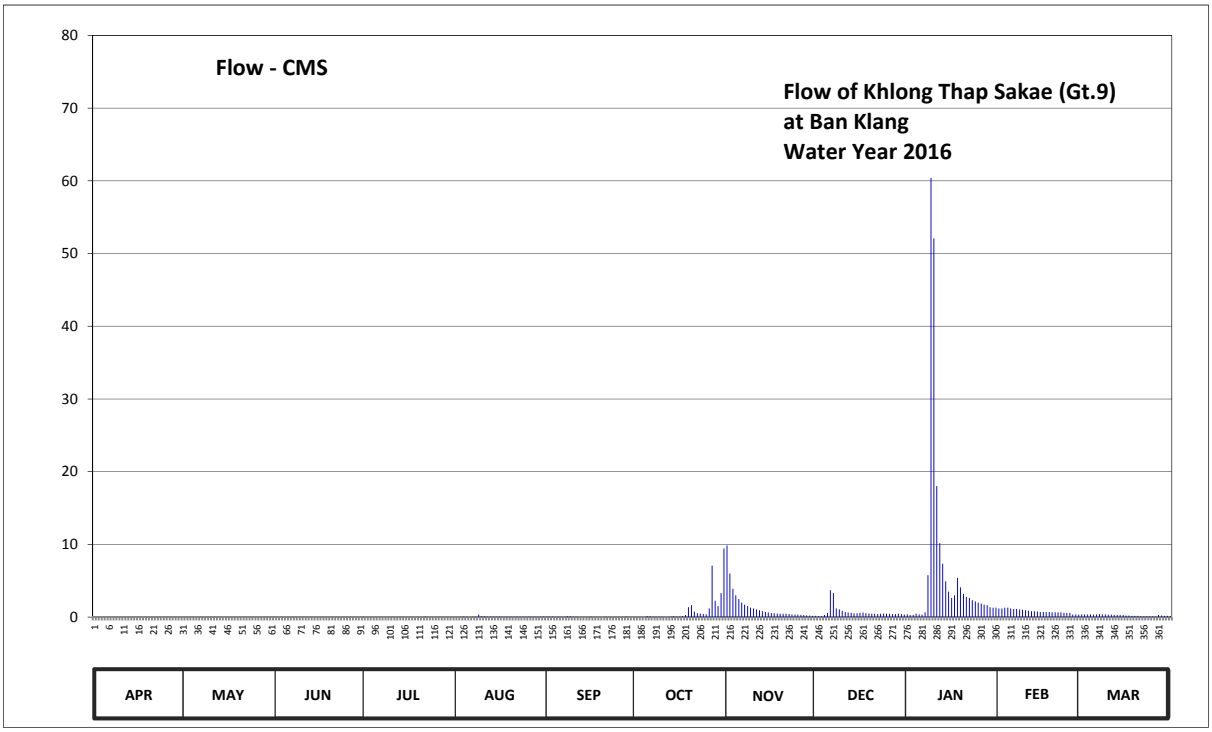
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.09	7.03	6.94	7.11	7.09	7.12	7.09	8.19	7.15	7.21	7.38	7.21	
2	7.09	7.03	6.94	7.08	7.09	7.12	7.09	7.90	7.14	7.18	7.38	7.21	
3	7.09	7.02	6.94	7.07	7.11	7.12	7.09	7.71	7.13	7.19	7.40	7.21	
4	7.09	6.98	6.94	7.07	7.12	7.11	7.09	7.62	7.19	7.23	7.40	7.21	
5	7.09	6.94	6.93	7.07	7.11	7.11	7.14	7.56	7.26	7.21	7.38	7.20	
6	7.09	6.93	6.93	7.07	7.10	7.11	7.13	7.50	7.69	7.20	7.37	7.21	
7	7.09	6.91	6.93	7.07	7.11	7.11	7.11	7.46	7.65	7.29	7.37	7.22	
8	7.09	6.91	6.91	7.08	7.11	7.14	7.11	7.43	7.38	7.88	7.36	7.21	
9	7.09	6.91	6.90	7.09	7.20	7.13	7.11	7.40	7.36	10.35	7.35	7.21	
10	7.09	6.91	6.89	7.09	7.14	7.11	7.11	7.38	7.33	10.06	7.34	7.20	
11	7.09	6.92	6.89	7.09	7.13	7.11	7.10	7.36	7.30	8.67	7.33	7.20	
12	7.08	6.94	6.89	7.09	7.12	7.10	7.10	7.34	7.28	8.21	7.32	7.19	
13	7.08	6.94	6.89	7.09	7.12	7.10	7.12	7.32	7.27	8.01	7.32	7.19	
14	7.08	6.94	6.89	7.08	7.12	7.10	7.14	7.30	7.25	7.81	7.31	7.19	
15	7.08	6.93	6.89	7.07	7.12	7.10	7.12	7.28	7.25	7.67	7.30	7.18	
16	7.08	6.93	6.89	7.07	7.12	7.11	7.12	7.26	7.27	7.58	7.30	7.16	
17	7.08	6.93	7.04	7.09	7.11	7.10	7.14	7.25	7.28	7.62	7.30	7.16	
18	7.08	6.93	7.04	7.10	7.11	7.10	7.18	7.24	7.25	7.85	7.30	7.15	
19	7.08	6.93	7.04	7.08	7.11	7.10	7.41	7.23	7.24	7.73	7.29	7.15	
20	7.08	6.92	7.04	7.08	7.11	7.10	7.45	7.23	7.23	7.64	7.29	7.15	
21	7.08	6.92	7.04	7.08	7.11	7.11	7.31	7.23	7.23	7.60	7.29	7.13	
22	7.08	6.92	7.02	7.12	7.11	7.10	7.25	7.22	7.22	7.58	7.29	7.13	
23	7.08	6.92	7.00	7.08	7.11	7.10	7.24	7.21	7.23	7.54	7.27	7.13	
24	7.08	6.92	7.03	7.09	7.11	7.10	7.22	7.20	7.24	7.52	7.26	7.13	
25	7.08	6.92	7.07	7.09	7.11	7.10	7.21	7.20	7.23	7.50	7.26	7.13	
26	7.08	6.92	7.08	7.08	7.11	7.09	7.38	7.19	7.23	7.48	7.20	7.12	
27	7.08	6.92	7.08	7.08	7.11	7.09	7.99	7.18	7.22	7.46	7.21	7.19	
28	7.08	6.92	7.07	7.08	7.11	7.12	7.53	7.17	7.22	7.45	7.20	7.16	
29	7.08	6.92	7.08	7.08	7.11	7.10	7.43	7.16	7.24	7.41		7.15	
30	7.08	6.92	7.09	7.08	7.12	7.09	7.65	7.15	7.22	7.40		7.15	
31		6.92		7.08	7.12		8.16		7.20	7.40		7.14	
Mean	7.08	6.94	6.98	7.08	7.12	7.11	7.27	7.36	7.27	7.74	7.31	7.17	
Max	7.09	7.03	7.09	7.12	7.20	7.14	8.16	8.19	7.69	10.35	7.40	7.22	10.35
Min	7.08	6.91	6.89	7.07	7.09	7.09	7.09	7.15	7.13	7.18	7.20	7.12	6.89

Annual Max Momentary Gage Height 12.41 m. (MSL.) , at 15.00 Hours , on Jan 9, 2017

Zero Gage at Bottom Elevation 6.84 m. (MSL.) , River Bed 6.99 m. (MSL.)

Left Bank Elevation 11.29 m. (MSL.) ,

Right Bank Elevation 10.84 m. (MSL.) , Drainage Are 125 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.04	0.00	0.07	0.00	9.86	0.18	0.38	1.18	0.38	
2	0.00	0.00	0.00	0.00	0.00	0.07	0.00	6.00	0.14	0.28	1.18	0.38	
3	0.00	0.00	0.00	0.00	0.04	0.07	0.00	3.90	0.11	0.31	1.30	0.38	
4	0.00	0.00	0.00	0.00	0.07	0.04	0.00	3.00	0.31	0.45	1.30	0.38	
5	0.00	0.00	0.00	0.00	0.04	0.04	0.14	2.48	0.56	0.38	1.18	0.35	
6	0.00	0.00	0.00	0.00	0.00	0.04	0.11	2.00	3.70	0.35	1.12	0.38	
7	0.00	0.00	0.00	0.00	0.04	0.04	0.04	1.72	3.30	0.66	1.12	0.42	
8	0.00	0.00	0.00	0.00	0.04	0.14	0.04	1.51	1.18	5.76	1.06	0.38	
9	0.00	0.00	0.00	0.00	0.35	0.11	0.04	1.30	1.06	60.40	1.00	0.38	
10	0.00	0.00	0.00	0.00	0.14	0.04	0.04	1.18	0.88	52.08	0.94	0.35	
11	0.00	0.00	0.00	0.00	0.11	0.04	0.00	1.06	0.70	18.03	0.88	0.35	
12	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.94	0.63	10.16	0.82	0.31	
13	0.00	0.00	0.00	0.00	0.07	0.00	0.07	0.82	0.59	7.34	0.82	0.31	
14	0.00	0.00	0.00	0.00	0.07	0.00	0.14	0.70	0.52	4.92	0.76	0.31	
15	0.00	0.00	0.00	0.00	0.07	0.00	0.07	0.63	0.52	3.50	0.70	0.28	
16	0.00	0.00	0.00	0.00	0.07	0.04	0.07	0.56	0.59	2.64	0.70	0.21	
17	0.00	0.00	0.00	0.00	0.04	0.00	0.14	0.52	0.63	3.00	0.70	0.21	
18	0.00	0.00	0.00	0.00	0.04	0.00	0.28	0.49	0.52	5.40	0.70	0.18	
19	0.00	0.00	0.00	0.00	0.04	0.00	1.37	0.45	0.49	4.10	0.66	0.18	
20	0.00	0.00	0.00	0.00	0.04	0.00	1.65	0.45	0.45	3.20	0.66	0.18	
21	0.00	0.00	0.00	0.00	0.04	0.04	0.76	0.45	0.45	2.80	0.66	0.11	
22	0.00	0.00	0.00	0.07	0.04	0.00	0.52	0.42	0.42	2.64	0.66	0.11	
23	0.00	0.00	0.00	0.00	0.04	0.00	0.49	0.38	0.45	2.32	0.59	0.11	
24	0.00	0.00	0.00	0.00	0.04	0.00	0.42	0.35	0.49	2.16	0.56	0.11	
25	0.00	0.00	0.00	0.00	0.04	0.00	0.38	0.35	0.45	2.00	0.56	0.11	
26	0.00	0.00	0.00	0.00	0.04	0.00	1.18	0.31	0.45	1.86	0.35	0.07	
27	0.00	0.00	0.00	0.00	0.04	0.00	7.08	0.28	0.42	1.72	0.38	0.31	
28	0.00	0.00	0.00	0.00	0.04	0.07	2.24	0.24	0.42	1.65	0.35	0.21	
29	0.00	0.00	0.00	0.00	0.04	0.00	1.51	0.21	0.49	1.37		0.18	
30	0.00	0.00	0.00	0.00	0.07	0.00	3.30	0.18	0.42	1.30		0.18	
31		0.00		0.00	0.07		9.44		0.35	1.30		0.14	
Total	0.00	0.00	0.00	0.11	1.84	0.85	31.52	42.74	21.87	204.46	22.89	7.94	334.22 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.06	0.03	1.02	1.42	0.71	6.60	0.82	0.26	0.92 CMS
Max	0.00	0.00	0.00	0.07	0.35	0.14	9.44	9.86	3.70	60.40	1.30	0.42	60.40 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.11	0.28	0.35	0.07	0.00 CMS
Runoff	0.00	0.00	0.00	0.01	0.16	0.07	2.72	3.69	1.89	17.67	1.98	0.69	28.88 MCM

Momentary Peak 127.15 CMS. at 12.41 m. (MSL.) at 15.00 Hours , on Jan 9, 2017

Runoff Yield 7.33 Liters/Second/Square KM. Momentary Peak Yield 1017.200 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

Ban Nong Ya Plong **Amphoe** Bang Saphan **Changwat** Prachuap Khiri Khan

Drainge Area	113 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+25.364 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +30.364 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Flot	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	Overbank flow starts at elevation +28.580 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

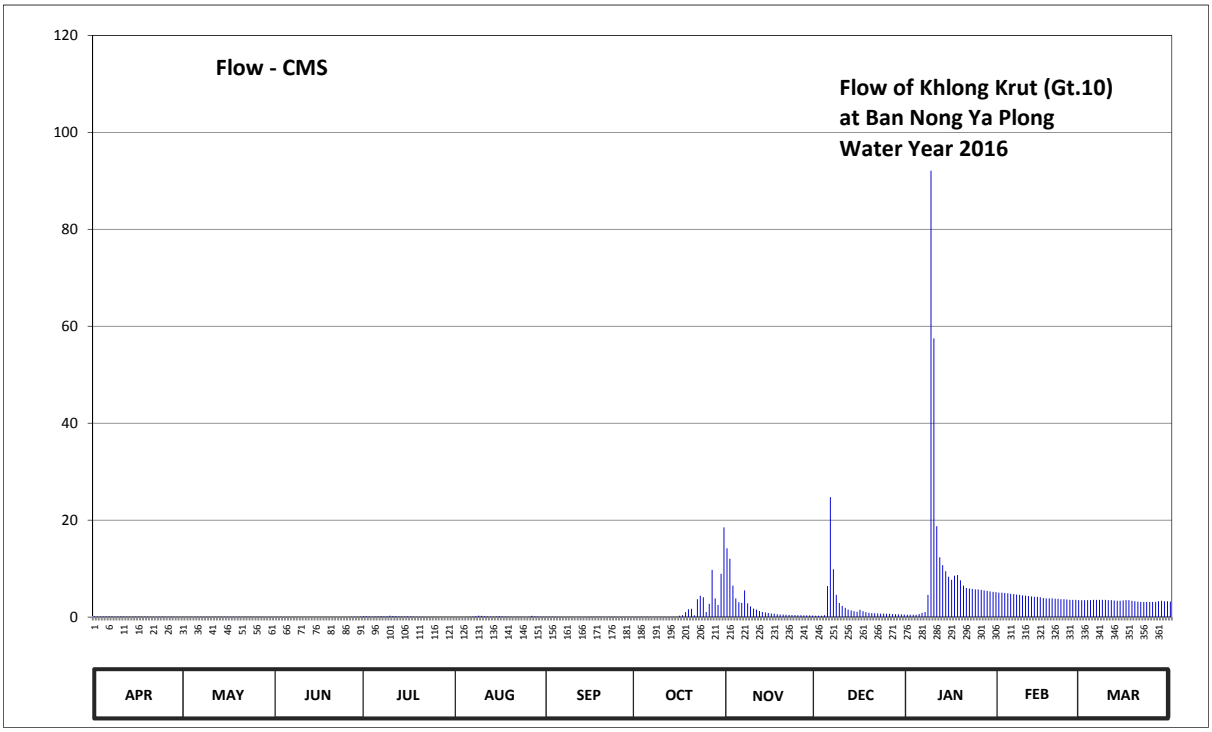
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.67	23.57	23.54	23.69	23.51	23.56	23.54	25.51	23.80	23.90	24.77	24.57	
2	23.64	23.57	23.54	23.71	23.51	23.55	23.53	25.37	23.78	23.90	24.77	24.57	
3	23.64	23.57	23.54	23.62	23.50	23.55	23.58	24.92	23.78	23.89	24.76	24.57	
4	23.63	23.57	23.54	23.59	23.50	23.55	23.57	24.62	23.85	23.90	24.75	24.57	
5	23.63	23.57	23.54	23.62	23.52	23.54	23.55	24.51	24.91	23.94	24.74	24.58	
6	23.62	23.57	23.52	23.67	23.56	23.53	23.54	24.49	25.97	24.03	24.73	24.58	
7	23.62	23.57	23.50	23.70	23.60	23.53	23.54	24.82	25.22	24.09	24.72	24.58	
8	23.61	23.56	23.50	23.67	23.67	23.54	23.53	24.47	24.71	24.71	24.71	24.58	
9	23.61	23.56	23.51	23.66	23.78	23.53	23.53	24.34	24.48	27.56	24.70	24.58	
10	23.62	23.57	23.50	23.78	23.76	23.53	23.53	24.25	24.36	26.90	24.69	24.57	
11	23.62	23.56	23.50	23.74	23.68	23.51	23.53	24.21	24.28	25.73	24.68	24.57	
12	23.60	23.55	23.50	23.68	23.62	23.52	23.52	24.14	24.21	25.39	24.67	24.56	
13	23.59	23.55	23.50	23.64	23.59	23.51	23.54	24.09	24.17	25.28	24.66	24.55	
14	23.59	23.56	23.50	23.63	23.60	23.52	23.57	24.05	24.13	25.19	24.66	24.55	
15	23.60	23.56	23.50	23.64	23.63	23.52	23.57	24.02	24.10	25.10	24.65	24.56	
16	23.59	23.57	23.50	23.65	23.68	23.58	23.79	23.98	24.20	25.04	24.63	24.57	
17	23.59	23.56	23.50	23.62	23.63	23.58	23.84	23.96	24.13	25.12	24.62	24.57	
18	23.59	23.56	23.50	23.59	23.60	23.57	24.07	23.93	24.07	25.13	24.62	24.55	
19	23.59	23.57	23.50	23.57	23.59	23.55	24.22	23.91	24.03	25.03	24.62	24.54	
20	23.57	23.56	23.50	23.56	23.57	23.54	24.24	23.91	24.01	24.92	24.61	24.53	
21	23.58	23.57	23.50	23.55	23.57	23.53	23.83	23.89	24.00	24.87	24.61	24.52	
22	23.58	23.56	23.50	23.53	23.57	23.54	24.60	23.88	23.99	24.86	24.60	24.52	
23	23.58	23.58	23.50	23.53	23.55	23.55	24.69	23.87	23.98	24.85	24.60	24.52	
24	23.59	23.58	23.51	23.53	23.54	23.55	24.65	23.86	23.98	24.84	24.59	24.52	
25	23.58	23.58	23.51	23.52	23.54	23.54	24.08	23.85	23.96	24.84	24.58	24.52	
26	23.58	23.58	23.51	23.52	23.55	23.52	24.45	23.84	23.96	24.83	24.58	24.52	
27	23.59	23.55	23.55	23.51	23.77	23.52	25.21	23.83	23.94	24.82	24.58	24.54	
28	23.58	23.54	23.56	23.51	23.64	23.53	24.62	23.83	23.93	24.81	24.57	24.55	
29	23.56	23.54	23.58	23.51	23.60	23.52	24.40	23.83	23.93	24.80		24.54	
30	23.55	23.54	23.60	23.51	23.58	23.53	25.15	23.81	23.92	24.79		24.54	
31		23.54		23.51	23.57		25.72		23.91	24.78		24.53	
Mean	23.60	23.56	23.52	23.61	23.60	23.54	24.02	24.20	24.18	24.90	24.66	24.55	
Max	23.67	23.58	23.60	23.78	23.78	23.58	25.72	25.51	25.97	27.56	24.77	24.58	27.56
Min	23.55	23.54	23.50	23.51	23.50	23.51	23.52	23.81	23.78	23.89	24.57	24.52	23.50

Annual Max Momentary Gage Height 29.56 m. (MSL.) , at 15.00 Hours , on Jan 9 , 2017

Zero Gage at Bottom Elevation 25.36 m. (MSL.) , River Bed 24.58 m. (MSL.)

Left Bank Elevation 28.66 m. (MSL.) ,

Right Bank Elevation 28.57 m. (MSL.) , Drainage Are 113 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.07	0.04	0.19	0.01	0.06	0.04	14.20	0.30	0.50	5.06	3.49		
2	0.14	0.07	0.04	0.21	0.01	0.05	0.03	12.05	0.28	0.50	5.06	3.49		
3	0.14	0.07	0.04	0.12	0.00	0.05	0.08	6.50	0.28	0.48	4.98	3.49		
4	0.13	0.07	0.04	0.09	0.00	0.05	0.07	3.86	0.40	0.50	4.90	3.49		
5	0.13	0.07	0.04	0.12	0.02	0.04	0.05	3.07	6.40	0.62	4.82	3.56		
6	0.12	0.07	0.02	0.17	0.06	0.03	0.04	2.95	24.75	0.89	4.74	3.56		
7	0.12	0.07	0.00	0.20	0.10	0.03	0.04	5.50	9.88	1.07	4.66	3.56		
8	0.11	0.06	0.00	0.17	0.17	0.04	0.03	2.85	4.58	4.58	4.58	3.56		
9	0.11	0.06	0.01	0.16	0.28	0.03	0.03	2.20	2.90	92.10	4.50	3.56		
10	0.12	0.07	0.00	0.28	0.26	0.03	0.03	1.75	2.30	57.50	4.42	3.49		
11	0.12	0.06	0.00	0.24	0.18	0.01	0.03	1.55	1.90	18.75	4.34	3.49		
12	0.10	0.05	0.00	0.18	0.12	0.02	0.02	1.26	1.55	12.35	4.26	3.42		
13	0.09	0.05	0.00	0.14	0.09	0.01	0.04	1.07	1.38	10.72	4.18	3.35		
14	0.09	0.06	0.00	0.13	0.10	0.02	0.07	0.95	1.22	9.47	4.18	3.35		
15	0.10	0.06	0.00	0.14	0.13	0.02	0.07	0.86	1.10	8.30	4.10	3.42		
16	0.09	0.07	0.00	0.15	0.18	0.08	0.29	0.74	1.50	7.70	3.94	3.49		
17	0.09	0.06	0.00	0.12	0.13	0.08	0.38	0.68	1.22	8.56	3.86	3.49		
18	0.09	0.06	0.00	0.09	0.10	0.07	1.01	0.59	1.01	8.69	3.86	3.35		
19	0.09	0.07	0.00	0.07	0.09	0.05	1.60	0.53	0.89	7.60	3.86	3.28		
20	0.07	0.06	0.00	0.06	0.07	0.04	1.70	0.53	0.83	6.50	3.78	3.21		
21	0.08	0.07	0.00	0.05	0.07	0.03	0.36	0.48	0.80	6.00	3.78	3.14		
22	0.08	0.06	0.00	0.03	0.07	0.04	3.70	0.46	0.77	5.90	3.70	3.14		
23	0.08	0.08	0.00	0.03	0.05	0.05	4.42	0.44	0.74	5.80	3.70	3.14		
24	0.09	0.08	0.01	0.03	0.04	0.05	4.10	0.42	0.74	5.70	3.63	3.14		
25	0.08	0.08	0.01	0.02	0.04	0.04	1.04	0.40	0.68	5.70	3.56	3.14		
26	0.08	0.08	0.01	0.02	0.05	0.02	2.75	0.38	0.68	5.60	3.56	3.14		
27	0.09	0.05	0.05	0.01	0.27	0.02	9.74	0.36	0.62	5.50	3.56	3.28		
28	0.08	0.04	0.06	0.01	0.14	0.03	3.86	0.36	0.59	5.40	3.49	3.35		
29	0.06	0.04	0.08	0.01	0.10	0.02	2.50	0.36	0.59	5.30		3.28		
30	0.05	0.04	0.10	0.01	0.08	0.03	8.95	0.32	0.56	5.22		3.28		
31		0.04		0.01	0.07		18.50		0.53	5.14		3.21		
Total	2.99	1.94	0.55	3.26	3.08	1.14	65.57	67.67	71.97	318.64	117.06	104.34	758.21	CMSDAY
Mean	0.10	0.06	0.02	0.11	0.10	0.04	2.12	2.26	2.32	10.28	4.18	3.37	2.08	CMS
Max	0.17	0.08	0.10	0.28	0.28	0.08	18.50	14.20	24.75	92.10	5.06	3.56	92.10	CMS
Min	0.05	0.04	0.00	0.01	0.00	0.01	0.02	0.32	0.28	0.48	3.49	3.14	0.00	CMS
Runoff	0.26	0.17	0.05	0.28	0.27	0.10	5.67	5.85	6.22	27.53	10.11	9.01	65.51	MCM

Momentary Peak 313.60 CMS. at 29.56 m. (MSL.) at 15.00 Hours , on Jan 9, 2017

Runoff Yield 18.38 Liters/Second/Square KM. Momentary Peak Yield 2775.220 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	Ban Chang Laek	**Amphoe** Bang Saphan Noi	**Changwat** Prachuap Khiri Khan
Drainge Area	61 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+36.375 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+45.340 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +39.390 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

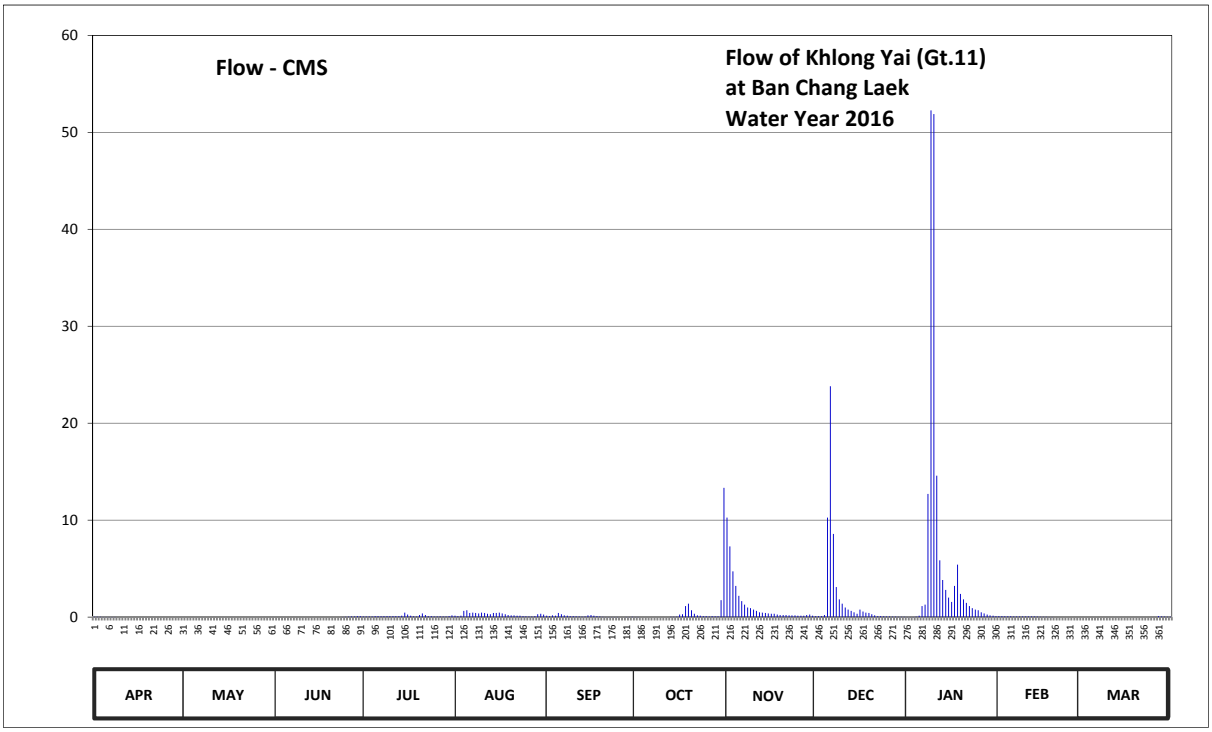
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.83	36.74	36.77	36.87	36.91	36.91	36.82	37.78	36.90	36.82	36.89	36.78	
2	36.83	36.74	36.77	36.87	36.89	36.90	36.81	37.60	36.89	36.82	36.89	36.78	
3	36.83	36.74	36.78	36.86	36.91	36.92	36.80	37.43	36.89	36.81	36.88	36.78	
4	36.82	36.74	36.78	36.86	37.02	36.91	36.79	37.31	36.93	36.85	36.88	36.78	
5	36.82	36.74	36.78	36.89	37.03	36.98	36.78	37.21	37.78	36.91	36.88	36.78	
6	36.81	36.74	36.77	36.89	36.98	36.95	36.78	37.15	38.37	37.09	36.87	36.77	
7	36.81	36.74	36.77	36.88	36.99	36.92	36.80	37.11	37.68	37.11	36.87	36.77	
8	36.81	36.74	36.76	36.89	36.98	36.91	36.80	37.07	37.30	37.90	36.87	36.77	
9	36.77	36.74	36.76	36.89	36.97	36.90	36.80	37.06	37.17	39.28	36.86	36.77	
10	36.77	36.75	36.76	36.90	36.99	36.90	36.80	37.04	37.12	39.27	36.86	36.77	
11	36.77	36.75	36.76	36.90	36.98	36.88	36.79	37.02	37.07	37.99	36.86	36.77	
12	36.77	36.75	36.76	36.90	36.96	36.86	36.78	37.00	37.04	37.51	36.86	36.77	
13	36.76	36.75	36.76	36.90	36.95	36.85	36.83	36.99	37.02	37.36	36.86	36.76	
14	36.76	36.76	36.76	36.91	36.98	36.86	36.84	36.98	37.00	37.27	36.85	36.76	
15	36.76	36.75	36.76	36.99	36.98	36.92	36.85	36.97	36.96	37.19	36.84	36.75	
16	36.76	36.75	36.76	36.94	36.99	36.93	36.94	36.96	37.04	37.14	36.83	36.75	
17	36.76	36.75	36.76	36.91	36.97	36.91	36.95	36.96	37.01	37.31	36.83	36.77	
18	36.76	36.75	36.76	36.88	36.95	36.89	37.09	36.94	36.99	37.48	36.82	36.77	
19	36.76	36.75	36.76	36.86	36.93	36.86	37.12	36.93	36.98	37.23	36.81	36.76	
20	36.76	36.75	36.76	36.93	36.92	36.83	37.03	36.93	36.95	37.17	36.79	36.75	
21	36.75	36.75	36.76	36.97	36.92	36.82	36.96	36.93	36.92	37.13	36.79	36.75	
22	36.75	36.75	36.76	36.93	36.91	36.82	36.92	36.92	36.90	37.09	36.78	36.75	
23	36.75	36.76	36.77	36.90	36.91	36.81	36.91	36.92	36.89	37.06	36.78	36.75	
24	36.75	36.76	36.81	36.89	36.90	36.81	36.90	36.92	36.88	37.04	36.78	36.75	
25	36.75	36.77	36.83	36.87	36.88	36.81	36.89	36.91	36.87	37.03	36.78	36.75	
26	36.75	36.77	36.85	36.86	36.87	36.80	36.87	36.91	36.86	37.00	36.78	36.75	
27	36.75	36.77	36.86	36.88	36.86	36.80	36.89	36.91	36.85	36.97	36.78	36.90	
28	36.75	36.77	36.86	36.87	36.90	36.81	36.88	36.93	36.85	36.94	36.78	36.87	
29	36.75	36.77	36.89	36.87	36.95	36.81	36.88	36.94	36.84	36.92		36.85	
30	36.74	36.77	36.89	36.90	36.96	36.83	37.16	36.91	36.84	36.91		36.84	
31		36.77		36.92	36.94		37.93		36.83	36.90		36.83	
Mean	36.77	36.75	36.79	36.90	36.94	36.87	36.92	37.05	37.05	37.27	36.83	36.78	
Max	36.83	36.77	36.89	36.99	37.03	36.98	37.93	37.78	38.37	39.28	36.89	36.90	39.28
Min	36.74	36.74	36.76	36.86	36.86	36.80	36.78	36.91	36.83	36.81	36.78	36.75	36.74

Annual Max Momentary Gage Height 39.79 m. (MSL.) , at 09.00 Hours , on Jan 10, 2017

Zero Gage at Bottom Elevation 36.38 m. (MSL.) , River Bed 37.53 m. (MSL.)

Left Bank Elevation 39.38 m. (MSL.) ,

Right Bank Elevation 40.42 m. (MSL.) , Drainage Are 61 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.00	0.00	0.07	0.14	0.14	0.02	10.26	0.10	0.02	0.09	0.00		
2	0.03	0.00	0.00	0.07	0.09	0.10	0.01	7.30	0.09	0.02	0.09	0.00		
3	0.03	0.00	0.00	0.06	0.14	0.18	0.00	4.72	0.09	0.01	0.08	0.00		
4	0.02	0.00	0.00	0.06	0.64	0.14	0.00	3.22	0.22	0.05	0.08	0.00		
5	0.02	0.00	0.00	0.09	0.71	0.42	0.00	2.20	10.26	0.14	0.08	0.00		
6	0.01	0.00	0.00	0.09	0.42	0.30	0.00	1.65	23.82	1.13	0.07	0.00		
7	0.01	0.00	0.00	0.08	0.46	0.18	0.00	1.29	8.58	1.29	0.07	0.00		
8	0.01	0.00	0.00	0.09	0.42	0.14	0.00	0.99	3.10	12.70	0.07	0.00		
9	0.00	0.00	0.00	0.09	0.38	0.10	0.00	0.92	1.83	52.26	0.06	0.00		
10	0.00	0.00	0.00	0.10	0.46	0.10	0.00	0.78	1.38	51.89	0.06	0.00		
11	0.00	0.00	0.00	0.10	0.42	0.08	0.00	0.64	0.99	14.59	0.06	0.00		
12	0.00	0.00	0.00	0.10	0.34	0.06	0.00	0.50	0.78	5.86	0.06	0.00		
13	0.00	0.00	0.00	0.10	0.30	0.05	0.03	0.46	0.64	3.82	0.06	0.00		
14	0.00	0.00	0.00	0.14	0.42	0.06	0.04	0.42	0.50	2.80	0.05	0.00		
15	0.00	0.00	0.00	0.46	0.42	0.18	0.05	0.38	0.34	2.01	0.04	0.00		
16	0.00	0.00	0.00	0.26	0.46	0.22	0.26	0.34	0.78	1.56	0.03	0.00		
17	0.00	0.00	0.00	0.14	0.38	0.14	0.30	0.34	0.57	3.22	0.03	0.00		
18	0.00	0.00	0.00	0.08	0.30	0.09	1.13	0.26	0.46	5.42	0.02	0.00		
19	0.00	0.00	0.00	0.06	0.22	0.06	1.38	0.22	0.42	2.40	0.01	0.00		
20	0.00	0.00	0.00	0.22	0.18	0.03	0.71	0.22	0.30	1.83	0.00	0.00		
21	0.00	0.00	0.00	0.38	0.18	0.02	0.34	0.22	0.18	1.47	0.00	0.00		
22	0.00	0.00	0.00	0.22	0.14	0.02	0.18	0.18	0.10	1.13	0.00	0.00		
23	0.00	0.00	0.00	0.10	0.14	0.01	0.14	0.18	0.09	0.92	0.00	0.00		
24	0.00	0.00	0.01	0.09	0.10	0.01	0.10	0.18	0.08	0.78	0.00	0.00		
25	0.00	0.00	0.03	0.07	0.08	0.01	0.09	0.14	0.07	0.71	0.00	0.00		
26	0.00	0.00	0.05	0.06	0.07	0.00	0.07	0.14	0.06	0.50	0.00	0.00		
27	0.00	0.00	0.06	0.08	0.06	0.00	0.09	0.14	0.05	0.38	0.00	0.10		
28	0.00	0.00	0.06	0.07	0.10	0.01	0.08	0.22	0.05	0.26	0.00	0.07		
29	0.00	0.00	0.09	0.07	0.30	0.01	0.08	0.26	0.04	0.18		0.05		
30	0.00	0.00	0.09	0.10	0.34	0.03	1.74	0.14	0.04	0.14		0.04		
31		0.00		0.18	0.26		13.33		0.03	0.10		0.03		
Total	0.16	0.00	0.39	3.88	9.07	2.89	20.17	38.91	56.04	169.59	1.11	0.29	302.50	CMSDAY
Mean	0.01	0.00	0.01	0.13	0.29	0.10	0.65	1.30	1.81	5.47	0.04	0.01	0.83	CMS
Max	0.03	0.00	0.09	0.46	0.71	0.42	13.33	10.26	23.82	52.26	0.09	0.10	52.26	CMS
Min	0.00	0.00	0.00	0.06	0.06	0.00	0.00	0.14	0.03	0.01	0.00	0.00	0.00	CMS
Runoff	0.01	0.00	0.03	0.34	0.78	0.25	1.74	3.36	4.84	14.65	0.10	0.03	26.14	MCM

Momentary Peak 71.80 CMS. at 39.79 m. (MSL.) at 09.00 Hours , on Jan 10, 2017

Runoff Yield 13.59 Liters/Second/Square KM. Momentary Peak Yield 1177.050 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Huai Sai at Ban Suan Son Huai Sai , Prachuap Khiri Khan (Gt.15)

Lat 11 - 40 - 33 N Long 99 - 41 - 44 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 342, Huai Sai.

Ban Suan Son Huai Sai **Amphoe** Mueang **Changwat** Prachuap Khiri Khan

Drainge Area	25 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+15.860 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +22.383 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

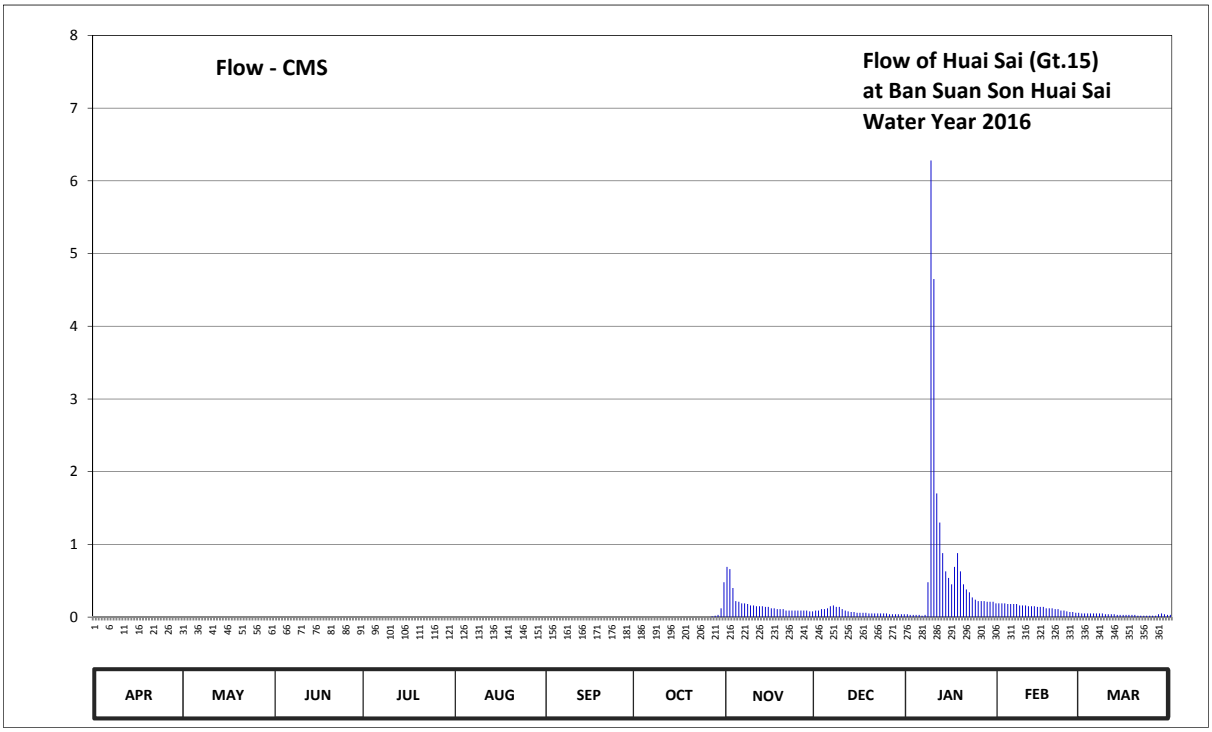
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.55	15.51	15.51	15.51	15.51	15.51	15.51	16.08	15.81	15.71	15.88	15.75	
2	15.54	15.51	15.51	15.51	15.51	15.51	15.51	16.07	15.81	15.70	15.88	15.75	
3	15.54	15.51	15.51	15.51	15.51	15.51	15.51	15.98	15.82	15.70	15.88	15.74	
4	15.54	15.51	15.51	15.51	15.51	15.51	15.51	15.90	15.82	15.69	15.87	15.74	
5	15.54	15.51	15.51	15.51	15.51	15.51	15.51	15.89	15.83	15.69	15.87	15.73	
6	15.54	15.51	15.51	15.51	15.51	15.51	15.51	15.88	15.85	15.68	15.87	15.73	
7	15.53	15.51	15.51	15.51	15.51	15.51	15.51	15.88	15.86	15.69	15.87	15.73	
8	15.53	15.51	15.51	15.51	15.51	15.51	15.51	15.87	15.84	16.01	15.86	15.73	
9	15.53	15.51	15.51	15.51	15.51	15.51	15.51	15.86	15.84	16.79	15.86	15.72	
10	15.53	15.51	15.51	15.51	15.51	15.51	15.51	15.86	15.82	16.65	15.86	15.72	
11	15.52	15.51	15.51	15.51	15.51	15.51	15.51	15.85	15.81	16.30	15.85	15.71	
12	15.52	15.51	15.51	15.51	15.51	15.51	15.51	15.85	15.80	16.22	15.85	15.71	
13	15.52	15.51	15.51	15.51	15.51	15.51	15.51	15.85	15.79	16.13	15.85	15.70	
14	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.84	15.78	16.06	15.84	15.70	
15	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.84	15.77	16.03	15.84	15.70	
16	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.83	15.77	16.00	15.84	15.69	
17	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.83	15.76	16.08	15.83	15.69	
18	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.82	15.76	16.13	15.83	15.69	
19	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.82	15.75	16.06	15.83	15.69	
20	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.82	15.75	16.00	15.82	15.68	
21	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.81	15.74	15.97	15.82	15.68	
22	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.81	15.74	15.95	15.81	15.68	
23	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.81	15.74	15.92	15.81	15.67	
24	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.81	15.73	15.91	15.80	15.67	
25	15.51	15.51	15.51	15.51	15.51	15.51	15.52	15.81	15.73	15.90	15.79	15.66	
26	15.51	15.51	15.51	15.51	15.51	15.51	15.60	15.81	15.72	15.90	15.78	15.66	
27	15.51	15.51	15.51	15.51	15.51	15.51	15.65	15.81	15.72	15.90	15.77	15.72	
28	15.51	15.51	15.51	15.51	15.51	15.51	15.68	15.81	15.72	15.89	15.76	15.73	
29	15.51	15.51	15.51	15.51	15.51	15.51	15.69	15.80	15.71	15.89		15.72	
30	15.51	15.51	15.51	15.51	15.51	15.51	15.83	15.80	15.71	15.89		15.70	
31		15.51		15.51	15.51		16.01		15.71	15.88		15.70	
Mean	15.52	15.51	15.51	15.51	15.51	15.51	15.56	15.86	15.77	15.98	15.84	15.71	
Max	15.55	15.51	15.51	15.51	15.51	15.51	16.01	16.08	15.86	16.79	15.88	15.75	16.79
Min	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.80	15.71	15.68	15.76	15.66	15.51

Annual Max Momentary Gage Height 17.44 m. (MSL.) , at 15.00 Hours , on Jan 9, 2017

Zero Gage at Bottom Elevation 15.86 m. (MSL.) , River Bed 23.63 m. (MSL.)

Left Bank Elevation 21.16 m. (MSL.) ,

Right Bank Elevation 21.22 m. (MSL.) , Drainage Are 25 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

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	0.69	0.09	0.04	0.19	0.05	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.09	0.03	0.19	0.05	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.11	0.03	0.19	0.05	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.11	0.03	0.18	0.05	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.12	0.03	0.18	0.05	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.15	0.02	0.18	0.05	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.16	0.03	0.18	0.05	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.14	0.48	0.16	0.05	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.14	6.28	0.16	0.04	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.11	4.65	0.16	0.04	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.09	1.70	0.15	0.04	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.08	1.30	0.15	0.04	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.07	0.88	0.15	0.03	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.07	0.63	0.14	0.03	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.06	0.54	0.14	0.03	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.45	0.14	0.03	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.69	0.12	0.03	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.88	0.12	0.03	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.05	0.63	0.12	0.03	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.05	0.45	0.11	0.02	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.38	0.11	0.02	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.34	0.09	0.02	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.27	0.09	0.02	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.24	0.08	0.02	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.22	0.07	0.02	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.22	0.07	0.02	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.04	0.22	0.06	0.04	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.04	0.21	0.06	0.05	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.04	0.21		0.04	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.04	0.21		0.03	
31		0.00		0.00	0.00		0.48		0.04	0.19		0.03	
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.66	5.24	2.36	22.48	3.74	1.10	35.58 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17	0.08	0.73	0.13	0.04	0.10 CMS
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.69	0.16	6.28	0.19	0.05	6.28 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.02	0.06	0.02	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.45	0.20	1.94	0.32	0.10	3.07 MCM

Momentary Peak 18.12 CMS. at 17.44 m. (MSL.) at 15.00 Hours , on Jan 9, 2017

Runoff Yield 3.90 Liters/Second/Square KM. Momentary Peak Yield 724.800 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Huai Yang at Ban Huai Yang , Prachuap Khiri Khan (Gt.17)

Lat 11 - 36 - 48 N Long 99 - 40 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 349.

Ban Huai Yang **Amphoe** Thap Sakae **Changwat** Prachuap Khiri Khan

Drainge Area	48 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.619 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +6.367 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

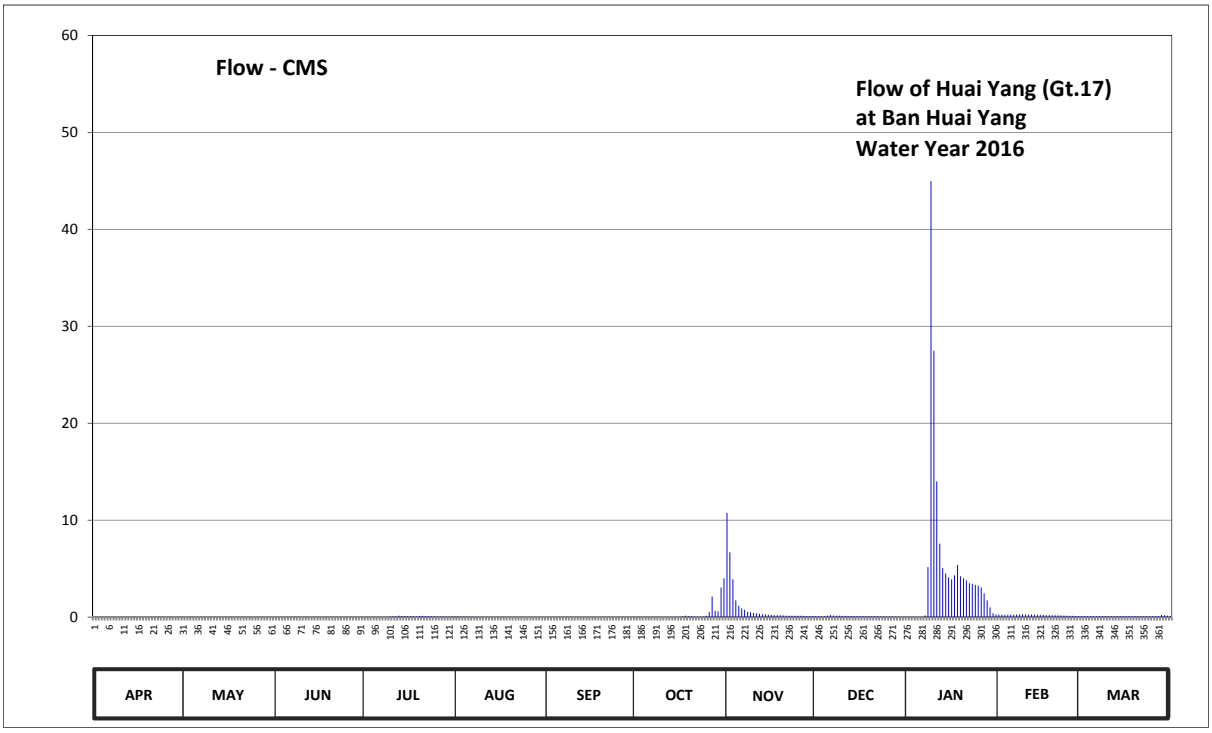
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.71	0.67	0.67	0.79	0.69	0.70	2.09	0.82	0.76	0.95	0.82	
2	0.72	0.71	0.67	0.67	0.79	0.69	0.70	1.79	0.81	0.76	0.94	0.82	
3	0.72	0.71	0.67	0.67	0.78	0.69	0.69	1.54	0.80	0.76	0.94	0.82	
4	0.72	0.71	0.67	0.67	0.78	0.69	0.69	1.29	0.80	0.75	0.94	0.82	
5	0.72	0.71	0.67	0.67	0.77	0.68	0.69	1.21	0.85	0.75	0.93	0.82	
6	0.72	0.70	0.67	0.70	0.77	0.68	0.69	1.16	0.91	0.76	0.93	0.82	
7	0.72	0.70	0.67	0.74	0.76	0.68	0.69	1.13	0.87	0.88	0.95	0.82	
8	0.72	0.70	0.67	0.72	0.76	0.67	0.69	1.08	0.85	1.66	0.97	0.81	
9	0.72	0.70	0.67	0.73	0.75	0.67	0.69	1.06	0.85	3.57	0.98	0.81	
10	0.72	0.70	0.67	0.78	0.75	0.67	0.69	1.04	0.84	2.97	0.97	0.81	
11	0.72	0.70	0.67	0.79	0.75	0.67	0.69	1.03	0.84	2.30	0.96	0.81	
12	0.72	0.70	0.67	0.80	0.74	0.67	0.69	1.01	0.83	1.86	0.95	0.81	
13	0.72	0.70	0.67	0.85	0.74	0.66	0.69	0.98	0.83	1.65	0.95	0.81	
14	0.72	0.70	0.67	0.83	0.74	0.66	0.69	0.97	0.82	1.60	0.94	0.81	
15	0.72	0.69	0.67	0.82	0.73	0.66	0.69	0.95	0.82	1.56	0.94	0.81	
16	0.72	0.69	0.67	0.81	0.73	0.67	0.70	0.94	0.82	1.54	0.93	0.81	
17	0.72	0.69	0.67	0.80	0.72	0.67	0.78	0.92	0.81	1.58	0.92	0.81	
18	0.72	0.69	0.67	0.80	0.72	0.68	0.86	0.90	0.81	1.68	0.91	0.81	
19	0.71	0.69	0.67	0.79	0.72	0.69	0.82	0.89	0.81	1.57	0.90	0.81	
20	0.71	0.69	0.67	0.83	0.72	0.70	0.80	0.88	0.80	1.55	0.89	0.81	
21	0.71	0.68	0.67	0.84	0.71	0.69	0.78	0.87	0.80	1.53	0.89	0.80	
22	0.71	0.68	0.67	0.82	0.71	0.69	0.77	0.86	0.80	1.50	0.88	0.80	
23	0.71	0.68	0.67	0.82	0.71	0.69	0.76	0.86	0.79	1.49	0.87	0.80	
24	0.71	0.68	0.67	0.81	0.71	0.69	0.77	0.85	0.79	1.48	0.86	0.80	
25	0.71	0.68	0.67	0.80	0.71	0.69	0.86	0.85	0.78	1.47	0.85	0.80	
26	0.71	0.67	0.67	0.79	0.71	0.69	1.07	0.85	0.78	1.45	0.84	0.80	
27	0.71	0.67	0.67	0.79	0.70	0.69	1.34	0.84	0.78	1.38	0.83	0.82	
28	0.71	0.67	0.67	0.78	0.70	0.70	1.11	0.83	0.77	1.29	0.82	0.92	
29	0.71	0.67	0.67	0.77	0.70	0.70	1.10	0.83	0.77	1.18		0.89	
30	0.71	0.67	0.67	0.77	0.70	0.70	1.45	0.82	0.76	1.03		0.86	
31		0.67		0.79	0.70		1.55		0.76	0.96		0.84	
Mean	0.72	0.69	0.67	0.77	0.73	0.68	0.84	1.04	0.81	1.46	0.92	0.82	
Max	0.72	0.71	0.67	0.85	0.79	0.70	1.55	2.09	0.91	3.57	0.98	0.92	3.57
Min	0.71	0.67	0.67	0.67	0.70	0.66	0.69	0.82	0.76	0.75	0.82	0.80	0.66

Annual Max Momentary Gage Height 4.98 m. (MSL.) , at 18.00 Hours , on Jan 9, 2017

Zero Gage at Bottom Elevation 0.62 m. (MSL.) , River Bed 1.03 m. (MSL.)

Left Bank Elevation 5.23 m. (MSL.) ,

Right Bank Elevation 5.25 m. (MSL.) , Drainage Are 48 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.06	0.00	0.00	10.75	0.10	0.02	0.26	0.10		
2	0.00	0.00	0.00	0.00	0.06	0.00	0.00	6.68	0.09	0.02	0.25	0.10		
3	0.00	0.00	0.00	0.00	0.05	0.00	0.00	3.90	0.08	0.02	0.25	0.10		
4	0.00	0.00	0.00	0.00	0.05	0.00	0.00	1.73	0.08	0.00	0.25	0.10		
5	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.17	0.14	0.00	0.24	0.10		
6	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.90	0.21	0.02	0.24	0.10		
7	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.75	0.16	0.18	0.26	0.10		
8	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.54	0.14	5.16	0.28	0.09		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.14	44.98	0.30	0.09		
10	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.43	0.13	27.48	0.28	0.09		
11	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.40	0.13	14.00	0.27	0.09		
12	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.35	0.12	7.58	0.26	0.09		
13	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.30	0.12	5.05	0.26	0.09		
14	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.28	0.10	4.50	0.25	0.09		
15	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.26	0.10	4.10	0.25	0.09		
16	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.25	0.10	3.90	0.24	0.09		
17	0.00	0.00	0.00	0.08	0.00	0.00	0.05	0.22	0.09	4.30	0.22	0.09		
18	0.00	0.00	0.00	0.08	0.00	0.00	0.15	0.20	0.09	5.38	0.21	0.09		
19	0.00	0.00	0.00	0.06	0.00	0.00	0.10	0.19	0.09	4.20	0.20	0.09		
20	0.00	0.00	0.00	0.12	0.00	0.00	0.08	0.18	0.08	4.00	0.19	0.09		
21	0.00	0.00	0.00	0.13	0.00	0.00	0.05	0.16	0.08	3.80	0.19	0.08		
22	0.00	0.00	0.00	0.10	0.00	0.00	0.03	0.15	0.08	3.50	0.18	0.08		
23	0.00	0.00	0.00	0.10	0.00	0.00	0.02	0.15	0.06	3.41	0.16	0.08		
24	0.00	0.00	0.00	0.09	0.00	0.00	0.03	0.14	0.06	3.32	0.15	0.08		
25	0.00	0.00	0.00	0.08	0.00	0.00	0.15	0.14	0.05	3.23	0.14	0.08		
26	0.00	0.00	0.00	0.06	0.00	0.00	0.52	0.14	0.05	3.05	0.13	0.08		
27	0.00	0.00	0.00	0.06	0.00	0.00	2.12	0.13	0.05	2.44	0.12	0.10		
28	0.00	0.00	0.00	0.05	0.00	0.00	0.65	0.12	0.03	1.73	0.10	0.22		
29	0.00	0.00	0.00	0.03	0.00	0.00	0.60	0.12	0.03	1.00		0.19		
30	0.00	0.00	0.00	0.03	0.00	0.00	3.05	0.10	0.02	0.40		0.15		
31		0.00		0.06	0.00		4.00		0.02	0.27		0.13		
Total	0.00	0.00	0.00	1.77	0.32	0.00	11.60	31.32	2.82	161.04	6.13	3.14	218.14	CMSDAY
Mean	0.00	0.00	0.00	0.06	0.01	0.00	0.37	1.04	0.09	5.19	0.22	0.10	0.60	CMS
Max	0.00	0.00	0.00	0.14	0.06	0.00	4.00	10.75	0.21	44.98	0.30	0.22	44.98	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.00	0.10	0.08	0.00	CMS
Runoff	0.00	0.00	0.00	0.15	0.03	0.00	1.00	2.71	0.24	13.91	0.53	0.27	18.85	MCM

Momentary Peak 111.48 CMS. at 4.98 m. (MSL.) at 18.00 Hours , on Jan 9, 2017

Runoff Yield 12.45 Liters/Second/Square KM. Momentary Peak Yield 2322.500 Liters/Second/Square KM.

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)

Lat 11 - 26 - 48 N Long 99 - 34 - 09 E

Location : on left bank at the bridge of Phet Kasem Highway.

Ban Cha Kra Bon **Amphoe** Thap Sakae **Changwat** Prachuap Khiri Khan

Drainge Area	88 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+11.715 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +17.228 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	Overbank flow starts at elevation +16.730 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

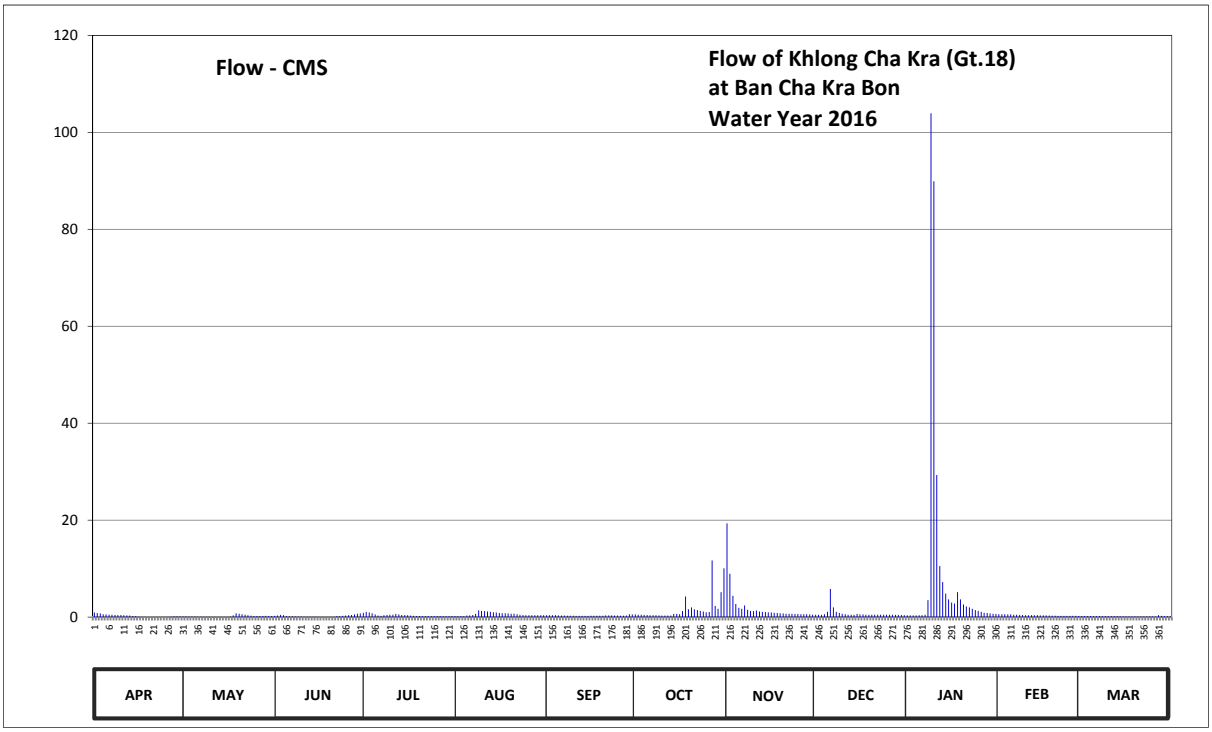
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.79	12.57	12.62	12.78	12.59	12.67	12.71	13.86	12.70	12.65	12.72	12.61	
2	12.77	12.56	12.64	12.82	12.59	12.67	12.70	13.41	12.70	12.65	12.72	12.61	
3	12.75	12.55	12.69	12.79	12.60	12.67	12.70	13.16	12.69	12.65	12.72	12.61	
4	12.72	12.55	12.66	12.76	12.60	12.66	12.69	13.02	12.72	12.65	12.71	12.61	
5	12.71	12.55	12.59	12.71	12.64	12.65	12.68	12.94	12.82	12.66	12.71	12.60	
6	12.70	12.54	12.58	12.64	12.65	12.64	12.67	12.92	13.25	12.67	12.70	12.60	
7	12.70	12.54	12.58	12.62	12.68	12.64	12.67	12.99	12.95	12.70	12.70	12.60	
8	12.69	12.53	12.56	12.66	12.73	12.63	12.66	12.90	12.82	13.10	12.69	12.60	
9	12.68	12.53	12.55	12.69	12.88	12.63	12.65	12.86	12.77	15.73	12.68	12.59	
10	12.68	12.53	12.55	12.70	12.86	12.63	12.64	12.85	12.74	15.51	12.67	12.59	
11	12.67	12.52	12.54	12.70	12.85	12.62	12.64	12.87	12.72	14.20	12.67	12.59	
12	12.65	12.52	12.54	12.73	12.83	12.62	12.64	12.83	12.70	13.48	12.66	12.59	
13	12.64	12.52	12.53	12.71	12.82	12.62	12.64	12.82	12.70	13.33	12.66	12.59	
14	12.61	12.51	12.53	12.68	12.80	12.62	12.73	12.81	12.69	13.19	12.66	12.58	
15	12.59	12.51	12.53	12.68	12.79	12.62	12.73	12.80	12.73	13.11	12.65	12.57	
16	12.53	12.51	12.52	12.67	12.77	12.63	12.72	12.79	12.71	13.05	12.65	12.56	
17	12.51	12.55	12.52	12.64	12.76	12.63	12.85	12.78	12.71	13.03	12.65	12.56	
18	12.49	12.65	12.52	12.62	12.76	12.63	13.15	12.77	12.70	13.21	12.64	12.56	
19	12.48	12.76	12.51	12.61	12.75	12.63	12.91	12.76	12.70	13.11	12.63	12.56	
20	12.47	12.74	12.51	12.61	12.74	12.63	12.95	12.75	12.70	13.01	12.63	12.56	
21	12.47	12.72	12.52	12.60	12.74	12.65	12.91	12.74	12.70	12.97	12.62	12.56	
22	12.47	12.70	12.59	12.59	12.72	12.65	12.89	12.74	12.70	12.95	12.62	12.56	
23	12.46	12.66	12.60	12.59	12.70	12.65	12.86	12.74	12.70	12.92	12.62	12.56	
24	12.46	12.63	12.62	12.59	12.68	12.64	12.83	12.73	12.70	12.89	12.62	12.56	
25	12.46	12.61	12.64	12.60	12.67	12.64	12.80	12.73	12.70	12.86	12.62	12.56	
26	12.51	12.61	12.67	12.61	12.67	12.63	12.81	12.72	12.70	12.82	12.62	12.55	
27	12.55	12.61	12.68	12.61	12.67	12.63	13.53	12.72	12.70	12.78	12.62	12.67	
28	12.58	12.61	12.71	12.60	12.66	12.64	12.98	12.72	12.69	12.77	12.61	12.62	
29	12.58	12.62	12.74	12.60	12.67	12.72	12.92	12.71	12.69	12.75		12.59	
30	12.57	12.61	12.75	12.60	12.67	12.71	13.21	12.70	12.68	12.74		12.59	
31		12.61		12.61	12.67		13.46		12.67	12.73		12.58	
Mean	12.60	12.59	12.59	12.66	12.72	12.64	12.84	12.87	12.74	13.12	12.66	12.59	
Max	12.79	12.76	12.75	12.82	12.88	12.72	13.53	13.86	13.25	15.73	12.72	12.67	15.73
Min	12.46	12.51	12.51	12.59	12.59	12.62	12.64	12.70	12.67	12.65	12.61	12.55	12.46

Annual Max Momentary Gage Height 17.53 m. (MSL.) , at 15.00 Hours , on Jan 9, 2017

Zero Gage at Bottom Elevation 11.72 m. (MSL.) , River Bed 12.30 m. (MSL.)

Left Bank Elevation 16.72 m. (MSL.) ,

Right Bank Elevation 17.22 m. (MSL.) , Drainage Are 88 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	0.14	0.26	0.90	0.18	0.41	0.55	19.34	0.50	0.35	0.60	0.23		
2	0.85	0.12	0.32	1.10	0.18	0.41	0.50	8.93	0.50	0.35	0.60	0.23		
3	0.75	0.10	0.47	0.95	0.20	0.41	0.50	4.40	0.47	0.35	0.60	0.23		
4	0.60	0.10	0.38	0.80	0.20	0.38	0.47	2.70	0.60	0.35	0.55	0.23		
5	0.55	0.10	0.18	0.55	0.32	0.35	0.44	1.90	1.10	0.38	0.55	0.20		
6	0.50	0.08	0.16	0.32	0.35	0.32	0.41	1.70	5.80	0.41	0.50	0.20		
7	0.50	0.08	0.16	0.26	0.44	0.32	0.41	2.40	2.00	0.50	0.50	0.20		
8	0.47	0.06	0.12	0.38	0.65	0.29	0.38	1.50	1.10	3.50	0.47	0.20		
9	0.44	0.06	0.10	0.47	1.40	0.29	0.35	1.30	0.85	103.95	0.44	0.18		
10	0.44	0.06	0.10	0.50	1.30	0.29	0.32	1.25	0.70	89.92	0.41	0.18		
11	0.41	0.04	0.08	0.50	1.25	0.26	0.32	1.35	0.60	29.30	0.41	0.18		
12	0.35	0.04	0.08	0.65	1.15	0.26	0.32	1.15	0.50	10.54	0.38	0.18		
13	0.32	0.04	0.06	0.55	1.10	0.26	0.32	1.10	0.50	7.23	0.38	0.18		
14	0.23	0.02	0.06	0.44	1.00	0.26	0.65	1.05	0.47	4.85	0.38	0.16		
15	0.18	0.02	0.06	0.44	0.95	0.26	0.65	1.00	0.65	3.65	0.35	0.14		
16	0.06	0.02	0.04	0.41	0.85	0.29	0.60	0.95	0.55	3.00	0.35	0.12		
17	0.02	0.10	0.04	0.32	0.80	0.29	1.25	0.90	0.55	2.80	0.35	0.12		
18	0.00	0.35	0.04	0.26	0.80	0.29	4.25	0.85	0.50	5.16	0.32	0.12		
19	0.00	0.80	0.02	0.23	0.75	0.29	1.60	0.80	0.50	3.65	0.29	0.12		
20	0.00	0.70	0.02	0.23	0.70	0.29	2.00	0.75	0.50	2.60	0.29	0.12		
21	0.00	0.60	0.04	0.20	0.70	0.35	1.60	0.70	0.50	2.20	0.26	0.12		
22	0.00	0.50	0.18	0.18	0.60	0.35	1.45	0.70	0.50	2.00	0.26	0.12		
23	0.00	0.38	0.20	0.18	0.50	0.35	1.30	0.70	0.50	1.70	0.26	0.12		
24	0.00	0.29	0.26	0.18	0.44	0.32	1.15	0.65	0.50	1.45	0.26	0.12		
25	0.00	0.23	0.32	0.20	0.41	0.32	1.00	0.65	0.50	1.30	0.26	0.12		
26	0.02	0.23	0.41	0.23	0.41	0.29	1.05	0.60	0.50	1.10	0.26	0.10		
27	0.10	0.23	0.44	0.23	0.41	0.29	11.69	0.60	0.50	0.90	0.26	0.41		
28	0.16	0.23	0.55	0.20	0.38	0.32	2.30	0.60	0.47	0.85	0.23	0.26		
29	0.16	0.26	0.70	0.20	0.41	0.60	1.70	0.55	0.47	0.75		0.18		
30	0.14	0.23	0.75	0.20	0.41	0.55	5.16	0.50	0.44	0.70		0.18		
31		0.23		0.23	0.41		10.08		0.41	0.65		0.16		
Total	8.20	6.44	6.60	12.49	19.65	9.96	54.77	61.57	24.23	286.44	10.77	5.41	506.53	CMSDAY
Mean	0.27	0.21	0.22	0.40	0.63	0.33	1.77	2.05	0.78	9.24	0.38	0.17	1.39	CMS
Max	0.95	0.80	0.75	1.10	1.40	0.60	11.69	19.34	5.80	103.95	0.60	0.41	103.95	CMS
Min	0.00	0.02	0.02	0.18	0.18	0.26	0.32	0.50	0.41	0.35	0.23	0.10	0.00	CMS
Runoff	0.71	0.56	0.57	1.08	1.70	0.86	4.73	5.32	2.09	24.75	0.93	0.47	43.76	MCM

Momentary Peak 248.20 CMS. at 17.53 m. (MSL.) at 15.00 Hours , on Jan 9, 2017

Runoff Yield 15.77 Liters/Second/Square KM. Momentary Peak Yield 2820.450 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban Wang Phai	**Amphoe** Mueang	**Changwat** Chumphon
Drainge Area	296 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+2.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 3.30 meters from the top staff gage.	**Elevation**	+10.624 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1991 to date		
Rating Operation			
Period of Rating	1991 to date		
Rated by Flot	-		
Rated by Current Meter	1991 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 9.300 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

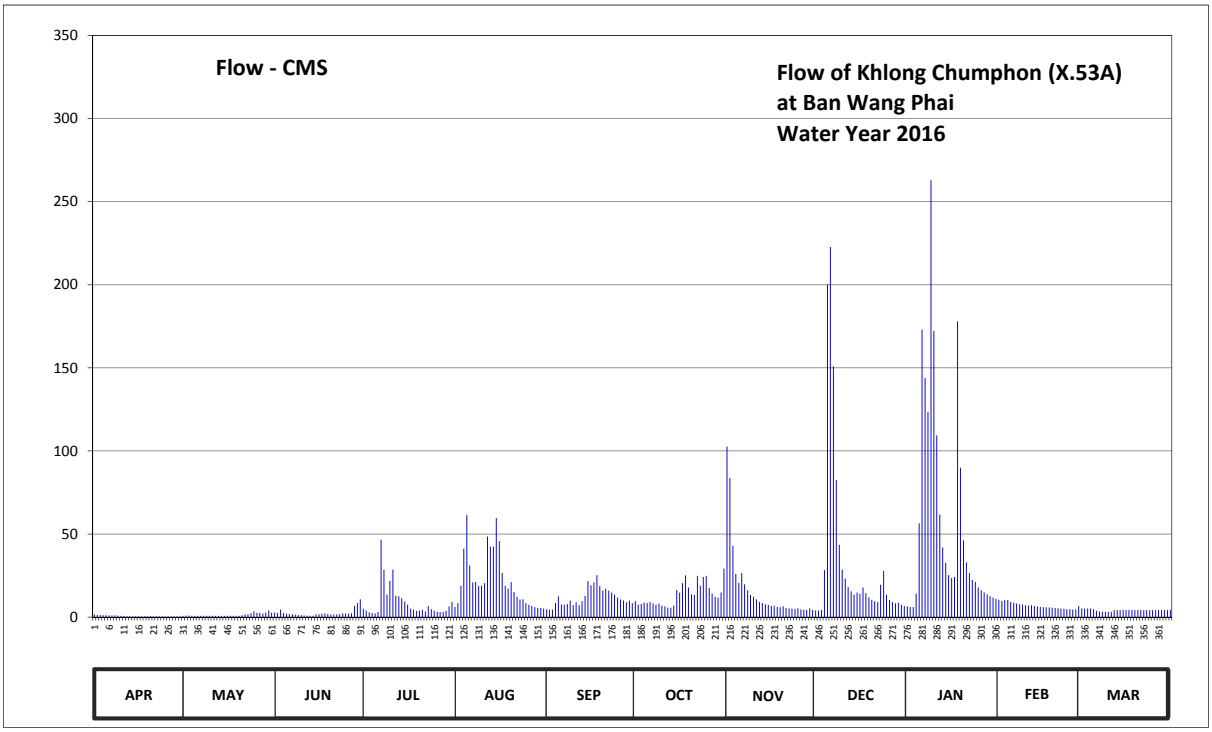
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.19	2.10	2.35	2.58	2.69	2.55	3.01	7.89	2.48	2.72	3.07	2.61	
2	2.17	2.11	2.31	2.47	2.91	2.52	2.82	7.24	2.47	2.69	3.02	2.60	
3	2.16	2.12	2.53	2.36	3.72	2.53	2.85	5.20	2.51	2.69	3.05	2.60	
4	2.14	2.10	2.31	2.31	5.11	2.91	2.92	4.20	4.35	3.35	3.06	2.60	
5	2.14	2.10	2.25	2.28	6.24	3.23	2.91	3.84	9.33	5.96	2.96	2.55	
6	2.13	2.10	2.23	2.39	4.52	2.83	2.96	4.24	9.51	9.05	2.92	2.46	
7	2.13	2.10	2.21	5.41	3.86	2.81	2.89	3.78	8.77	8.67	2.88	2.42	
8	2.13	2.10	2.18	4.36	3.88	2.85	2.82	3.51	7.19	8.34	2.84	2.41	
9	2.12	2.10	2.16	3.31	3.71	3.03	2.88	3.29	5.24	9.72	2.82	2.40	
10	2.10	2.10	2.14	3.92	3.72	2.79	2.77	3.21	4.37	9.04	2.78	2.40	
11	2.08	2.10	2.13	4.37	3.83	2.95	2.72	3.09	4.01	8.06	2.77	2.40	
12	2.07	2.10	2.11	3.25	5.52	2.78	2.66	2.97	3.66	6.25	2.78	2.50	
13	2.07	2.10	2.11	3.23	5.17	3.00	2.65	2.91	3.45	5.15	2.75	2.50	
14	2.06	2.10	2.11	3.14	5.18	3.25	2.77	2.84	3.31	4.61	2.72	2.50	
15	2.06	2.10	2.20	2.99	6.13	3.91	3.53	2.80	3.41	4.15	2.70	2.50	
16	2.06	2.10	2.21	2.82	5.36	3.74	3.40	2.75	3.34	4.03	2.68	2.50	
17	2.06	2.10	2.26	2.59	4.24	3.86	3.83	2.76	3.64	4.08	2.67	2.50	
18	2.06	2.10	2.28	2.54	3.71	4.15	4.14	2.69	3.37	9.11	2.66	2.50	
19	2.06	2.10	2.23	2.45	3.59	3.71	3.64	2.68	3.18	7.47	2.65	2.50	
20	2.07	2.10	2.20	2.47	3.87	3.50	3.33	2.72	3.07	5.39	2.63	2.50	
21	2.06	2.14	2.19	2.52	3.43	3.58	3.30	2.64	3.00	4.63	2.61	2.50	
22	2.06	2.21	2.20	2.42	3.21	3.49	4.12	2.60	2.95	4.23	2.59	2.50	
23	2.06	2.21	2.22	2.74	3.08	3.40	3.72	2.58	3.76	3.96	2.58	2.50	
24	2.06	2.29	2.27	2.56	3.09	3.31	4.08	2.57	4.32	3.88	2.56	2.50	
25	2.06	2.43	2.27	2.45	2.90	3.17	4.12	2.61	3.30	3.64	2.55	2.50	
26	2.06	2.32	2.26	2.40	2.81	3.08	3.62	2.54	3.07	3.51	2.53	2.50	
27	2.06	2.33	2.29	2.38	2.74	3.04	3.36	2.52	2.96	3.41	2.54	2.50	
28	2.06	2.27	2.75	2.39	2.68	2.95	3.21	2.51	2.89	3.32	2.75	2.50	
29	2.06	2.35	2.90	2.46	2.64	3.03	3.17	2.60	2.92	3.24		2.50	
30	2.06	2.47	3.09	2.72	2.63	2.90	3.41	2.51	2.81	3.17		2.50	
31		2.34		2.98	2.59		4.41		2.75	3.11		2.50	
Mean	2.09	2.17	2.30	2.88	3.83	3.16	3.29	3.34	4.04	5.18	2.75	2.50	
Max	2.19	2.47	3.09	5.41	6.24	4.15	4.41	7.89	9.51	9.72	3.07	2.61	9.72
Min	2.06	2.10	2.11	2.28	2.59	2.52	2.65	2.51	2.47	2.69	2.53	2.40	2.06

Annual Max Momentary Gage Height 9.97 m. (MSL.) , at 11.00 Hours , on Jan 9 , 2017

Zero Gage at Bottom Elevation 2.00 m. (MSL.) , River Bed 1.85 m. (MSL.)

Left Bank Elevation 9.34 m. (MSL.) ,

Right Bank Elevation 9.29 m. (MSL.) , Drainage Are 296 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.52	0.80	2.80	5.00	6.10	4.70	9.63	102.62	4.00	6.42	10.41	5.30	
2	1.36	0.88	2.48	3.90	8.51	4.40	7.52	83.79	3.90	6.10	9.76	5.20	
3	1.28	0.96	4.50	2.88	18.88	4.50	7.85	42.80	4.30	6.10	10.15	5.20	
4	1.12	0.80	2.48	2.48	41.18	8.51	8.62	26.00	28.25	14.05	10.28	5.20	
5	1.12	0.80	2.00	2.24	61.52	12.49	8.51	20.60	200.30	56.48	9.06	4.70	
6	1.04	0.80	1.84	3.12	31.04	7.63	9.06	26.60	222.70	173.00	8.62	3.80	
7	1.04	0.80	1.68	46.58	20.90	7.41	8.29	19.72	150.90	143.90	8.18	3.40	
8	1.04	0.80	1.44	28.40	21.20	7.85	7.52	16.13	82.47	123.40	7.74	3.30	
9	0.96	0.80	1.28	13.53	18.74	9.89	8.18	13.27	43.52	262.80	7.52	3.20	
10	0.80	0.80	1.12	21.80	18.88	7.19	6.97	12.23	28.55	172.20	7.08	3.20	
11	0.64	0.80	1.04	28.55	20.45	8.95	6.42	10.67	23.15	109.40	6.97	3.20	
12	0.56	0.80	0.88	12.75	48.56	7.08	5.80	9.17	18.08	61.70	7.08	4.20	
13	0.56	0.80	0.88	12.49	42.26	9.50	5.70	8.51	15.35	41.90	6.75	4.20	
14	0.48	0.80	0.88	11.32	42.44	12.75	6.97	7.74	13.53	32.57	6.42	4.20	
15	0.48	0.80	1.60	9.39	59.54	21.65	16.39	7.30	14.83	25.25	6.20	4.20	
16	0.48	0.80	1.68	7.52	45.68	19.16	14.70	6.75	13.92	23.45	6.00	4.20	
17	0.48	0.80	2.08	5.10	26.60	20.90	20.45	6.86	17.82	24.20	5.90	4.20	
18	0.48	0.80	2.24	4.60	18.74	25.25	25.10	6.10	14.31	178.00	5.80	4.20	
19	0.48	0.80	1.84	3.70	17.17	18.74	17.82	6.00	11.84	89.96	5.70	4.20	
20	0.56	0.80	1.60	3.90	21.05	16.00	13.79	6.42	10.41	46.22	5.50	4.20	
21	0.48	1.12	1.52	4.40	15.09	17.04	13.40	5.60	9.50	32.91	5.30	4.20	
22	0.48	1.68	1.60	3.40	12.23	15.87	24.80	5.20	8.95	26.45	5.10	4.20	
23	0.48	1.68	1.76	6.64	10.54	14.70	18.88	5.00	19.44	22.40	5.00	4.20	
24	0.48	2.32	2.16	4.80	10.67	13.53	24.20	4.90	27.80	21.20	4.80	4.20	
25	0.48	3.50	2.16	3.70	8.40	11.71	24.80	5.30	13.40	17.82	4.70	4.20	
26	0.48	2.56	2.08	3.20	7.41	10.54	17.56	4.60	10.41	16.13	4.50	4.20	
27	0.48	2.64	2.32	3.04	6.64	10.02	14.18	4.40	9.06	14.83	4.60	4.20	
28	0.48	2.16	6.75	3.12	6.00	8.95	12.23	4.30	8.29	13.66	6.75	4.20	
29	0.48	2.80	8.40	3.80	5.60	9.89	11.71	5.20	8.62	12.62		4.20	
30	0.48	3.90	10.67	6.42	5.50	8.40	14.83	4.30	7.41	11.71		4.20	
31		2.72		9.28	5.10		29.17		6.75	10.93		4.20	
Total	21.28	43.32	75.76	281.05	682.62	355.20	421.05	488.08	1051.76	1797.76	191.87	129.70	5539.45 CMSDAY
Mean	0.71	1.40	2.53	9.07	22.02	11.84	13.58	16.27	33.93	57.99	6.85	4.18	15.18 CMS
Max	1.52	3.90	10.67	46.58	61.52	25.25	29.17	102.62	222.70	262.80	10.41	5.30	262.80 CMS
Min	0.48	0.80	0.88	2.24	5.10	4.40	5.70	4.30	3.90	6.10	4.50	3.20	0.48 CMS
Runoff	1.84	3.74	6.55	24.28	58.98	30.69	36.38	42.17	90.87	155.33	16.58	11.21	478.61 MCM

Momentary Peak 340.00 CMS. at 9.97m. (MSL.) at 11.00 Hours , on Jan 9 , 2017

Runoff Yield 51.24 Liters/Second/Square KM. Momentary Peak Yield 1147.870 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

	Ban Tha Yai **Amphoe** Lan Saka **Changwat** Nakhon Si Thammar
Drainge Area	105 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 63.60 meters from fourth staff gage. **Elevation** +24.748 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1971 , 1989 to date
Rated by Flot	-
Rated by Current Meter	1967 - 1971 , 1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

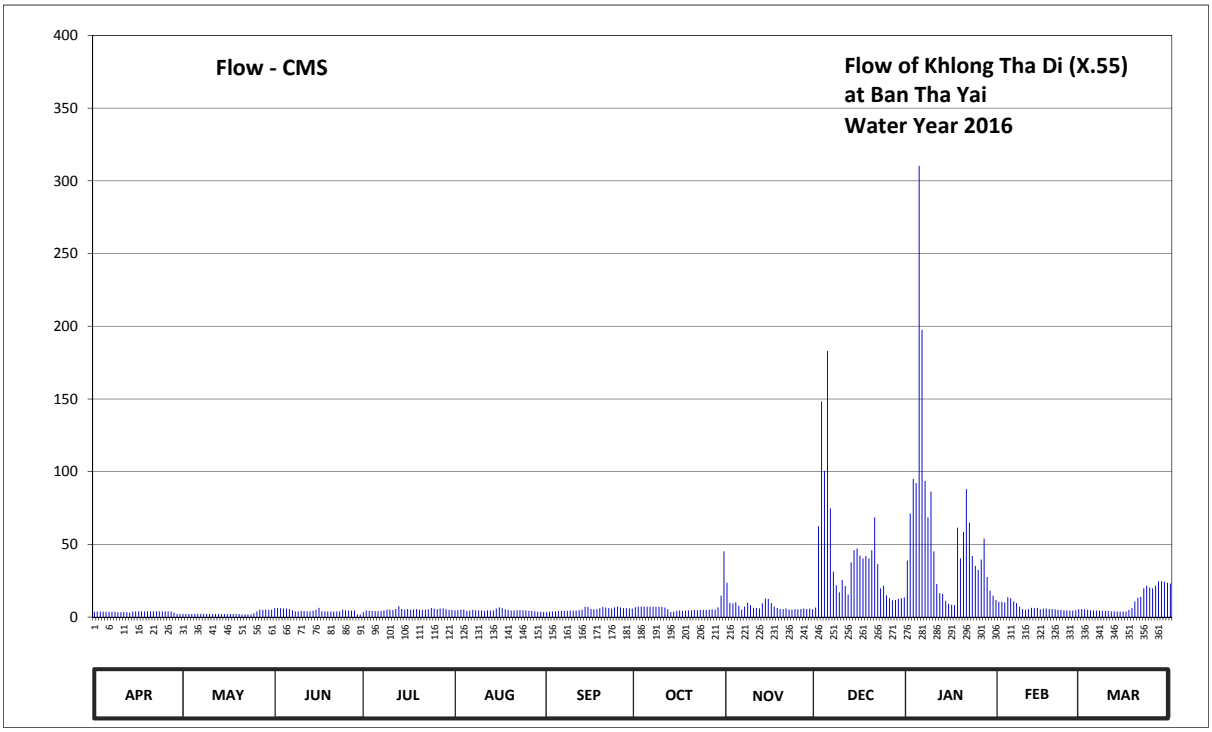
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.98	17.88	18.14	17.97	18.05	17.97	18.19	18.89	18.17	19.32	18.40	18.10	
2	17.99	17.88	18.15	18.04	18.05	17.99	18.22	18.36	19.85	20.02	18.40	18.09	
3	17.99	17.88	18.14	18.02	18.08	18.00	18.22	18.35	21.07	20.40	18.38	18.07	
4	17.99	17.88	18.13	18.01	18.08	18.00	18.22	18.38	20.48	20.36	18.53	18.05	
5	17.98	17.88	18.13	18.01	18.02	18.02	18.21	18.25	21.45	22.44	18.50	18.04	
6	17.98	17.88	18.10	18.01	18.03	18.02	18.21	18.08	20.08	21.58	18.41	18.03	
7	17.98	17.88	18.04	18.01	18.07	18.02	18.21	18.22	19.13	20.38	18.36	18.03	
8	17.98	17.88	18.00	18.04	18.05	18.02	18.20	18.37	18.83	19.97	18.22	18.02	
9	17.96	17.88	18.00	18.08	18.04	18.03	18.20	18.28	18.66	20.27	18.10	18.02	
10	17.96	17.88	18.02	18.08	18.04	18.03	18.20	18.16	18.95	19.48	18.07	18.01	
11	17.96	17.88	18.01	18.06	18.02	18.03	18.17	18.15	18.81	18.86	18.10	18.00	
12	17.96	17.88	18.00	18.11	18.04	18.05	18.09	18.13	18.60	18.64	18.16	18.00	
13	17.94	17.88	18.00	18.23	18.03	18.08	17.97	18.35	19.29	18.62	18.14	17.99	
14	17.99	17.87	18.03	18.11	18.04	18.20	17.98	18.49	19.50	18.43	18.16	17.99	
15	18.00	17.87	18.07	18.08	18.12	18.20	18.02	18.48	19.53	18.33	18.09	17.99	
16	18.00	17.87	18.16	18.10	18.18	18.11	18.03	18.36	19.41	18.30	18.12	17.99	
17	18.00	17.88	18.00	18.07	18.14	18.09	18.02	18.22	19.36	18.28	18.13	18.06	
18	18.00	17.87	18.00	18.09	18.09	18.10	18.03	18.15	19.40	19.83	18.11	18.14	
19	18.00	17.87	18.00	18.10	18.06	18.14	18.04	18.10	19.36	19.36	18.10	18.41	
20	18.00	17.87	17.99	18.08	18.03	18.20	18.04	18.10	19.50	19.77	18.09	18.51	
21	18.00	17.86	17.99	18.07	18.04	18.17	18.06	18.13	19.97	20.30	18.07	18.54	
22	18.00	17.86	17.99	18.08	18.05	18.14	18.05	18.08	19.26	19.90	18.06	18.76	
23	18.00	17.86	18.00	18.09	18.05	18.12	18.06	18.08	18.76	19.40	18.05	18.82	
24	18.00	17.86	18.08	18.15	18.05	18.18	18.06	18.10	18.82	19.23	18.04	18.78	
25	18.00	17.91	18.05	18.12	18.04	18.22	18.06	18.09	18.58	19.16	18.03	18.76	
26	18.00	18.00	18.03	18.10	18.02	18.18	18.07	18.11	18.50	19.34	18.03	18.82	
27	18.00	18.07	18.03	18.13	18.01	18.14	18.09	18.13	18.44	19.68	18.05	18.92	
28	17.94	18.07	18.03	18.13	18.00	18.14	18.08	18.11	18.45	19.02	18.10	18.92	
29	17.88	18.08	17.86	18.10	17.98	18.13	18.18	18.12	18.48	18.71		18.91	
30	17.88	18.07	17.86	18.06	17.98	18.12	18.57	18.09	18.50	18.57		18.89	
31		18.08		18.06	17.97		19.48		18.52	18.45		18.87	
Mean	17.98	17.91	18.03	18.08	18.05	18.09	18.17	18.23	19.22	19.50	18.18	18.34	
Max	18.00	18.08	18.16	18.23	18.18	18.22	19.48	18.89	21.45	22.44	18.53	18.92	22.44
Min	17.88	17.86	17.86	17.97	17.97	17.97	17.97	18.08	18.17	18.28	18.03	17.99	17.86

Annual Max Momentary Gage Height 23.58 m. (MSL.) , at 09.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 17.31 m. (MSL.)

Left Bank Elevation 24.16 m. (MSL.) ,

Right Bank Elevation 24.58 m. (MSL.) , Drainage Are 105 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.70	2.20	6.10	3.55	4.75	3.55	6.85	23.70	6.55	38.80	10.50	5.50	
2	3.85	2.20	6.25	4.60	4.75	3.85	7.30	9.70	62.50	71.20	10.50	5.35	
3	3.85	2.20	6.10	4.30	5.20	4.00	7.30	9.50	148.30	95.00	10.10	5.05	
4	3.85	2.20	5.95	4.15	5.20	4.00	7.30	10.10	100.60	92.20	13.75	4.75	
5	3.70	2.20	5.95	4.15	4.30	4.30	7.15	7.75	183.00	310.40	13.00	4.60	
6	3.70	2.20	5.50	4.15	4.45	4.30	7.15	5.20	74.80	197.60	10.75	4.45	
7	3.70	2.20	4.60	4.15	5.05	4.30	7.15	7.30	31.20	93.60	9.70	4.45	
8	3.70	2.20	4.00	4.60	4.75	4.30	7.00	9.90	21.90	68.50	7.30	4.30	
9	3.40	2.20	4.00	5.20	4.60	4.45	7.00	8.20	17.00	86.20	5.50	4.30	
10	3.40	2.20	4.30	5.20	4.60	4.45	7.00	6.40	25.50	45.20	5.05	4.15	
11	3.40	2.20	4.15	4.90	4.30	4.45	6.55	6.25	21.30	22.80	5.50	4.00	
12	3.40	2.20	4.00	5.65	4.60	4.75	5.35	5.95	15.50	16.50	6.40	4.00	
13	3.10	2.20	4.00	7.45	4.45	5.20	3.55	9.50	37.60	16.00	6.10	3.85	
14	3.85	2.05	4.45	5.65	4.60	7.00	3.70	12.75	46.00	11.25	6.40	3.85	
15	4.00	2.05	5.05	5.20	5.80	7.00	4.30	12.50	47.20	9.10	5.35	3.85	
16	4.00	2.05	6.40	5.50	6.70	5.65	4.45	9.70	42.40	8.50	5.80	3.85	
17	4.00	2.20	4.00	5.05	6.10	5.35	4.30	7.30	40.40	8.20	5.95	4.90	
18	4.00	2.05	4.00	5.35	5.35	5.50	4.45	6.25	42.00	61.50	5.65	6.10	
19	4.00	2.05	4.00	5.50	4.90	6.10	4.60	5.50	40.40	40.40	5.50	10.75	
20	4.00	2.05	3.85	5.20	4.45	7.00	4.60	5.50	46.00	58.50	5.35	13.25	
21	4.00	1.90	3.85	5.05	4.60	6.55	4.90	5.95	68.50	88.00	5.05	14.00	
22	4.00	1.90	3.85	5.20	4.75	6.10	4.75	5.20	36.40	65.00	4.90	19.80	
23	4.00	1.90	4.00	5.35	4.75	5.80	4.90	5.20	19.80	42.00	4.75	21.60	
24	4.00	1.90	5.20	6.25	4.75	6.70	4.90	5.50	21.60	35.20	4.60	20.40	
25	4.00	2.65	4.75	5.80	4.60	7.30	4.90	5.35	15.00	32.40	4.45	19.80	
26	4.00	4.00	4.45	5.50	4.30	6.70	5.05	5.65	13.00	39.60	4.45	21.60	
27	4.00	5.05	4.45	5.95	4.15	6.10	5.35	5.95	11.50	54.00	4.75	24.60	
28	3.10	5.05	4.45	5.95	4.00	6.10	5.20	5.65	11.75	27.60	5.50	24.60	
29	2.20	5.20	1.90	5.50	3.70	5.95	6.70	5.80	12.50	18.30		24.30	
30	2.20	5.05	1.90	4.90	3.70	5.80	14.75	5.35	13.00	14.75		23.70	
31		5.20		4.90	3.55		45.20		13.50	11.75		23.10	
Total	110.10	82.90	135.45	159.85	145.75	162.60	223.65	234.55	1286.70	1780.05	192.60	342.80	4857.00	CMSDAY
Mean	3.67	2.67	4.51	5.16	4.70	5.42	7.21	7.82	41.51	57.42	6.88	11.06	13.31	CMS
Max	4.00	5.20	6.40	7.45	6.70	7.30	45.20	23.70	183.00	310.40	13.75	24.60	310.40	CMS
Min	2.20	1.90	1.90	3.55	3.55	3.55	3.55	5.20	6.55	8.20	4.45	3.85	1.90	CMS
Runoff	9.51	7.16	11.70	13.81	12.59	14.05	19.32	20.27	111.17	153.80	16.64	29.62	419.64	MCM

Momentary Peak 539.20 CMS. at 23.58 m. (MSL.) at 09.00 Hours , on Jan 5 , 2017

Runoff Yield 126.73 Liters/Second/Square KM. Momentary Peak Yield 5135.240 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

Lat 10 - 39 - 51 N Long 99 - 10 - 26 E

Location : on left bank near the Land Cooperation Office.

Ban Tha Sae **Amphoe** Tha Sae **Changwat** Chumphon

Drainge Area	946 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+6.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 6 meters from the top staff gage. **Elevation** +19.207 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1974 - 1975 , 1982 to date
Rated by Flot	-
Rated by Current Meter	1974 - 1975 , 1982 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

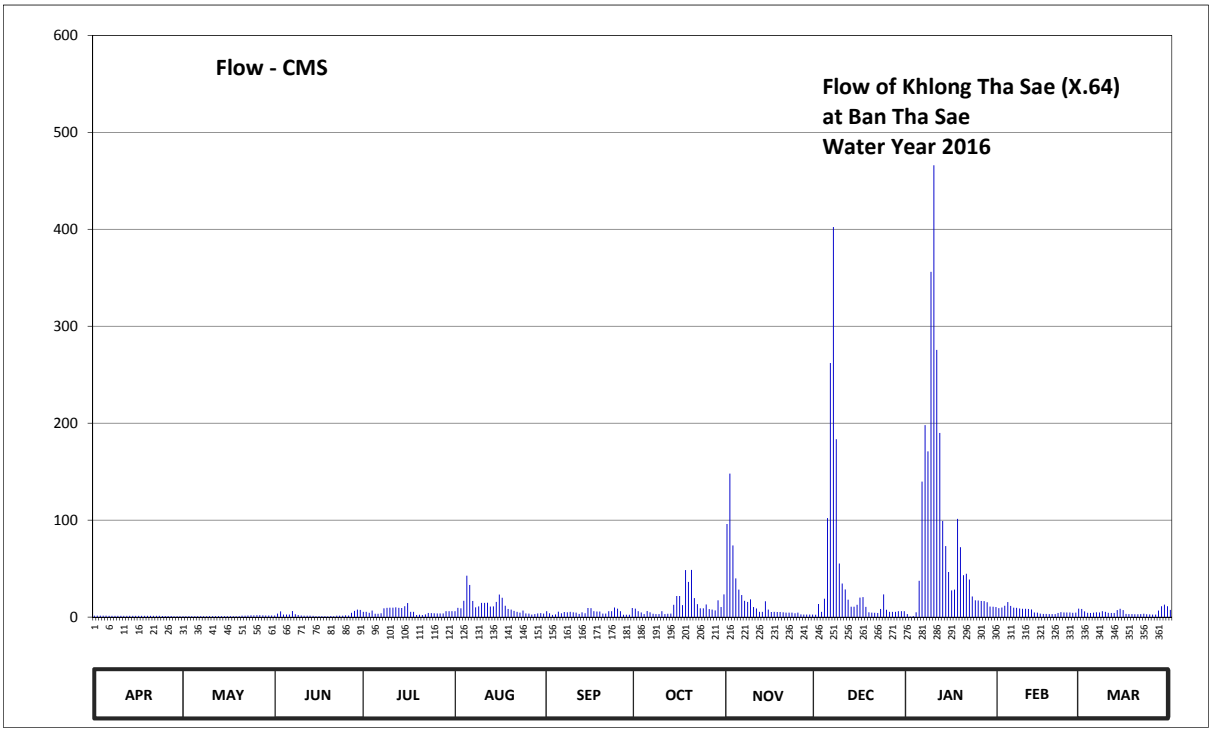
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.64	7.60	7.66	8.00	8.04	8.04	8.22	11.97	7.75	7.81	8.25	8.19	
2	7.64	7.60	7.87	8.00	8.27	7.90	8.04	13.44	8.50	7.57	8.29	8.03	
3	7.64	7.60	8.03	7.93	8.24	7.73	7.95	11.23	8.00	7.61	8.41	7.93	
4	7.64	7.60	7.76	8.08	8.67	7.78	7.82	9.82	8.77	7.96	8.60	7.92	
5	7.64	7.60	7.76	7.85	9.96	8.01	8.05	9.24	12.16	9.70	8.40	7.94	
6	7.63	7.60	7.76	7.85	9.48	7.89	7.96	8.96	15.44	13.23	8.28	7.96	
7	7.63	7.60	8.05	7.89	8.66	7.99	7.84	8.67	16.64	14.50	8.27	7.95	
8	7.63	7.60	7.80	8.24	8.30	7.96	7.82	8.61	14.21	13.96	8.23	8.04	
9	7.63	7.60	7.72	8.27	8.37	8.00	7.82	8.74	10.53	16.34	8.20	8.00	
10	7.63	7.60	7.66	8.28	8.56	7.96	8.04	8.33	9.56	16.97	8.20	7.93	
11	7.63	7.60	7.64	8.28	8.56	7.94	7.82	8.23	9.25	15.59	8.19	7.92	
12	7.63	7.60	7.64	8.30	8.57	7.83	7.84	8.00	8.72	14.34	8.16	7.92	
13	7.63	7.60	7.64	8.27	8.36	7.96	7.86	8.00	8.35	12.07	7.95	8.12	
14	7.63	7.60	7.63	8.26	8.37	7.89	8.46	8.64	8.35	11.21	7.94	8.21	
15	7.63	7.60	7.60	8.38	8.61	8.26	8.91	8.15	8.46	10.15	7.86	8.12	
16	7.63	7.60	7.60	8.55	8.99	8.25	8.91	7.98	8.83	9.20	7.83	7.83	
17	7.63	7.60	7.60	8.00	8.82	8.04	8.44	8.00	8.86	9.24	7.83	7.81	
18	7.63	7.60	7.60	8.00	8.41	8.02	10.25	7.98	8.34	12.14	7.82	7.81	
19	7.63	7.60	7.58	7.71	8.19	8.02	9.64	7.98	7.96	11.17	7.82	7.80	
20	7.63	7.60	7.62	7.74	8.15	7.86	10.26	7.96	7.94	9.99	7.81	7.80	
21	7.63	7.64	7.60	7.72	8.06	7.86	8.81	7.94	7.93	10.06	7.92	7.81	
22	7.63	7.64	7.64	7.78	8.00	8.04	8.49	7.94	7.92	9.76	7.97	7.84	
23	7.63	7.67	7.64	7.92	7.94	8.04	8.24	7.94	8.19	8.89	7.95	7.79	
24	7.61	7.68	7.64	7.91	8.08	8.29	8.24	7.90	9.00	8.69	7.95	7.78	
25	7.61	7.68	7.68	7.90	7.88	8.22	8.48	7.94	8.14	8.68	7.95	7.77	
26	7.61	7.70	7.66	7.88	7.86	8.04	8.18	7.78	8.00	8.66	7.93	7.77	
27	7.61	7.70	7.93	7.88	7.76	7.74	8.15	7.76	8.00	8.65	7.94	8.08	
28	7.60	7.68	8.06	7.88	7.81	7.74	8.09	7.76	8.00	8.59	8.22	8.38	
29	7.60	7.66	8.15	8.04	7.88	7.74	8.69	7.76	8.04	8.36		8.47	
30	7.60	7.66	8.13	8.04	7.91	8.26	8.33	7.76	8.04	8.35		8.38	
31		7.66		8.04	7.86		9.00		8.04	8.33		8.13	
Mean	7.63	7.62	7.74	8.03	8.34	7.98	8.41	8.61	9.22	10.57	8.08	7.98	
Max	7.64	7.70	8.15	8.55	9.96	8.29	10.26	13.44	16.64	16.97	8.60	8.47	16.97
Min	7.60	7.60	7.58	7.71	7.76	7.73	7.82	7.76	7.75	7.57	7.81	7.77	7.57

Annual Max Momentary Gage Height 17.27 m. (MSL.) , at 05.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 6.00 m. (MSL.) , River Bed 6.08 m. (MSL.)

Left Bank Elevation 18.73 m. (MSL.) ,

Right Bank Elevation 18.28 m. (MSL.) , Drainage Are 946 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.00	1.60	5.50	6.10	6.10	8.80	96.10	2.50	3.10	9.25	8.35	
2	1.40	1.00	3.70	5.50	9.55	4.00	6.10	148.10	13.50	0.70	9.85	5.95	
3	1.40	1.00	5.95	4.45	9.10	2.30	4.75	73.90	5.50	1.10	11.70	4.45	
4	1.40	1.00	2.60	6.70	16.90	2.80	3.20	39.90	18.90	4.90	15.50	4.30	
5	1.40	1.00	2.60	3.50	42.70	5.65	6.25	28.30	102.10	37.50	11.50	4.60	
6	1.30	1.00	2.60	3.50	33.10	3.90	4.90	22.70	262.10	139.70	9.70	4.90	
7	1.30	1.00	6.25	3.90	16.70	5.35	3.40	16.90	402.40	198.00	9.55	4.75	
8	1.30	1.00	3.00	9.10	10.00	4.90	3.20	15.70	183.50	171.00	8.95	6.10	
9	1.30	1.00	2.20	9.55	11.05	5.50	3.20	18.30	55.25	356.20	8.50	5.50	
10	1.30	1.00	1.60	9.70	14.70	4.90	6.10	10.45	34.70	466.10	8.50	4.45	
11	1.30	1.00	1.40	9.70	14.70	4.60	3.20	8.95	28.50	275.60	8.35	4.30	
12	1.30	1.00	1.40	10.00	14.90	3.30	3.40	5.50	17.90	190.00	7.90	4.30	
13	1.30	1.00	1.40	9.55	10.90	4.90	3.60	5.50	10.75	99.10	4.75	7.30	
14	1.30	1.00	1.30	9.40	11.05	3.90	12.70	16.30	10.75	73.30	4.60	8.65	
15	1.30	1.00	1.00	11.20	15.70	9.40	21.70	7.75	12.70	46.50	3.60	7.30	
16	1.30	1.00	1.00	14.50	23.30	9.25	21.70	5.20	20.10	27.50	3.30	3.30	
17	1.30	1.00	1.00	5.50	19.90	6.10	12.30	5.50	20.70	28.30	3.30	3.10	
18	1.30	1.00	1.00	5.50	11.70	5.80	48.50	5.20	10.60	101.40	3.20	3.10	
19	1.30	1.00	0.80	2.10	8.35	5.80	36.30	5.20	4.90	72.10	3.20	3.00	
20	1.30	1.00	1.20	2.40	7.75	3.60	48.70	4.90	4.60	43.30	3.10	3.00	
21	1.30	1.40	1.00	2.20	6.40	3.60	19.70	4.60	4.45	44.70	4.30	3.10	
22	1.30	1.40	1.40	2.80	5.50	6.10	13.30	4.60	4.30	38.70	5.05	3.40	
23	1.30	1.70	1.40	4.30	4.60	6.10	9.10	4.60	8.35	21.30	4.75	2.90	
24	1.10	1.80	1.40	4.15	6.70	9.85	9.10	4.00	23.50	17.30	4.75	2.80	
25	1.10	1.80	1.80	4.00	3.80	8.80	13.10	4.60	7.60	17.10	4.75	2.70	
26	1.10	2.00	1.60	3.80	3.60	6.10	8.20	2.80	5.50	16.70	4.45	2.70	
27	1.10	2.00	4.45	3.80	2.60	2.40	7.75	2.60	5.50	16.50	4.60	6.70	
28	1.00	1.80	6.40	3.80	3.10	2.40	6.85	2.60	5.50	15.30	8.80	11.20	
29	1.00	1.60	7.75	6.10	3.80	2.40	17.30	2.60	6.10	10.90		12.90	
30	1.00	1.60	7.45	6.10	4.15	9.40	10.45	2.60	6.10	10.75		11.20	
31		1.60		6.10	3.60		23.50		6.10	10.45		7.45	
Total	37.80	38.70	78.25	188.40	356.00	159.20	400.35	575.95	1304.95	2555.10	189.75	167.75	6052.20	CMSDAY
Mean	1.26	1.25	2.61	6.08	11.48	5.31	12.91	19.20	42.10	82.42	6.78	5.41	16.58	CMS
Max	1.40	2.00	7.75	14.50	42.70	9.85	48.70	148.10	402.40	466.10	15.50	12.90	466.10	CMS
Min	1.00	1.00	0.80	2.10	2.60	2.30	3.20	2.60	2.50	0.70	3.10	2.70	0.70	CMS
Runoff	3.27	3.34	6.76	16.28	30.76	13.75	34.59	49.76	112.75	220.76	16.39	14.49	522.91	MCM

Momentary Peak 545.90 CMS. at 17.27 m. (MSL.) at 05.00 Hours , on Jan 10 , 2017

Runoff Yield 17.53 Liters/Second/Square KM. Momentary Peak Yield 577.060 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

Ban Wang Kong **Amphoe** Mueang **Changwat** Nakhon Si Thammar

Drainge Area	36 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10 meters from the top staff gage. **Elevation** +21.985 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1971 , 1980 , 1989 to date
Rated by Flot	-
Rated by Current Meter	1967 - 1971 , 1980 , 1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 21.080 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

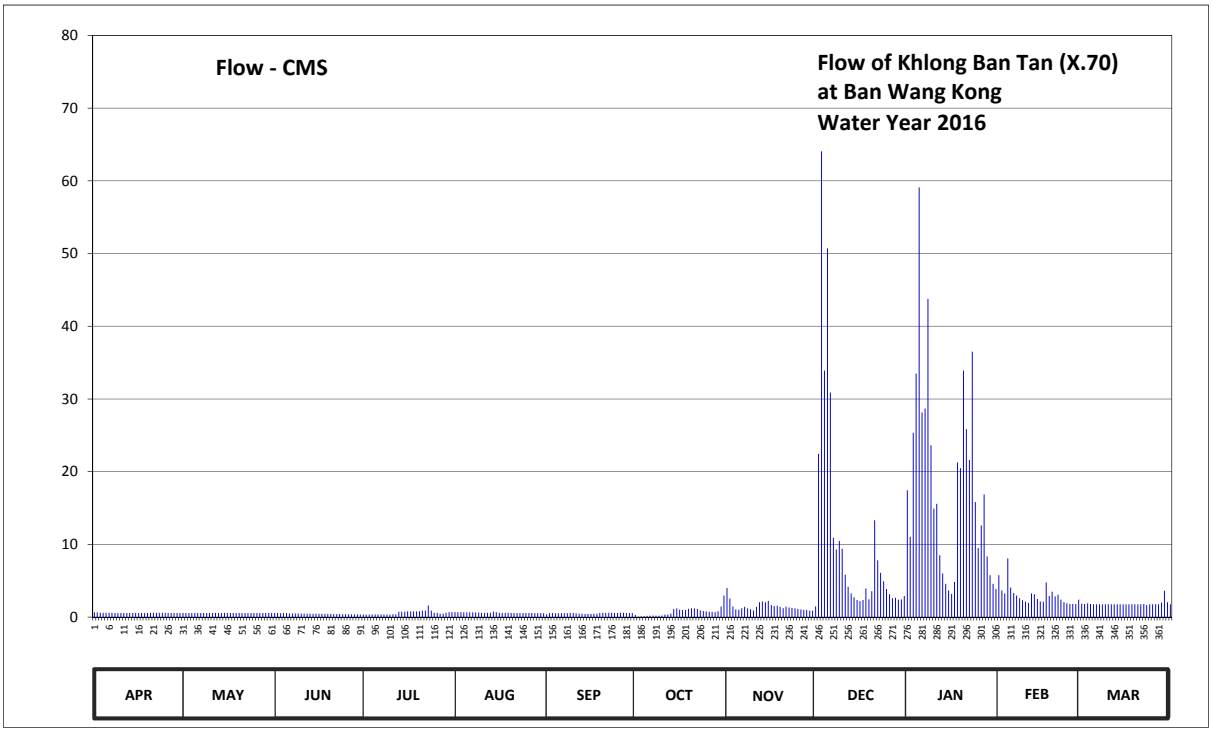
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.72	15.68	15.68	15.58	15.73	15.60	15.55	16.43	15.97	17.73	16.67	16.05	
2	15.72	15.68	15.68	15.58	15.73	15.67	15.43	16.19	18.05	17.22	16.38	16.04	
3	15.70	15.68	15.67	15.58	15.73	15.68	15.45	15.96	19.83	18.22	16.31	16.06	
4	15.70	15.68	15.67	15.59	15.72	15.66	15.46	15.85	18.67	18.65	16.93	16.04	
5	15.70	15.68	15.67	15.59	15.72	15.66	15.49	15.84	19.39	19.67	16.44	16.03	
6	15.70	15.68	15.65	15.59	15.72	15.67	15.50	15.90	18.52	18.38	16.32	16.03	
7	15.70	15.68	15.65	15.59	15.72	15.67	15.51	15.95	17.21	18.41	16.26	16.03	
8	15.69	15.68	15.65	15.59	15.71	15.67	15.50	15.90	17.06	19.12	16.20	16.03	
9	15.69	15.68	15.65	15.59	15.71	15.68	15.50	15.86	17.17	18.12	16.14	16.03	
10	15.69	15.68	15.64	15.58	15.70	15.68	15.51	15.81	17.07	17.54	16.10	16.03	
11	15.69	15.68	15.64	15.60	15.70	15.66	15.57	15.95	16.68	17.59	16.07	16.03	
12	15.69	15.68	15.64	15.60	15.70	15.64	15.58	16.09	16.45	16.98	16.31	16.03	
13	15.69	15.68	15.64	15.75	15.70	15.63	15.64	16.11	16.31	16.70	16.29	16.03	
14	15.69	15.68	15.63	15.75	15.75	15.62	15.87	16.09	16.22	16.51	16.18	16.03	
15	15.69	15.68	15.63	15.75	15.73	15.62	15.90	16.13	16.15	16.38	16.11	16.03	
16	15.69	15.68	15.63	15.76	15.70	15.62	15.84	16.01	16.12	16.30	16.10	16.03	
17	15.69	15.68	15.63	15.76	15.70	15.63	15.83	15.98	16.15	16.55	16.54	16.03	
18	15.69	15.68	15.63	15.76	15.70	15.63	15.83	15.99	16.42	17.98	16.25	16.03	
19	15.69	15.68	15.62	15.76	15.70	15.68	15.88	15.95	16.17	17.93	16.35	16.03	
20	15.70	15.68	15.62	15.76	15.69	15.70	15.90	15.91	16.36	18.67	16.24	16.03	
21	15.70	15.68	15.61	15.80	15.69	15.68	15.90	15.96	17.41	18.25	16.28	16.03	
22	15.70	15.68	15.61	15.80	15.69	15.70	15.87	15.93	16.90	18.00	16.16	16.04	
23	15.70	15.68	15.61	16.00	15.69	15.70	15.81	15.92	16.71	18.80	16.09	16.01	
24	15.70	15.68	15.60	15.80	15.69	15.69	15.78	15.90	16.56	17.61	16.06	16.03	
25	15.70	15.68	15.60	15.70	15.68	15.69	15.76	15.87	16.41	17.08	16.04	16.03	
26	15.69	15.68	15.60	15.70	15.68	15.70	15.75	15.85	16.29	17.35	16.04	16.03	
27	15.69	15.68	15.59	15.64	15.68	15.70	15.74	15.84	16.20	17.69	16.04	16.03	
28	15.68	15.68	15.59	15.64	15.67	15.69	15.73	15.83	16.21	16.96	16.16	16.08	
29	15.68	15.68	15.59	15.70	15.67	15.68	15.77	15.80	16.16	16.67		16.37	
30	15.68	15.68	15.59	15.73	15.67	15.68	15.96	15.79	16.17	16.51		16.09	
31		15.68		15.73	15.67		16.26		16.25	16.41		16.03	
Mean	15.69	15.68	15.63	15.69	15.70	15.67	15.71	15.95	16.88	17.61	16.25	16.05	
Max	15.72	15.68	15.68	16.00	15.75	15.70	16.26	16.43	19.83	19.67	16.93	16.37	19.83
Min	15.68	15.68	15.59	15.58	15.67	15.60	15.43	15.79	15.97	16.30	16.04	16.01	15.43

Annual Max Momentary Gage Height 21.15 m. (MSL.) , at 13.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 15.31 m. (MSL.)

Left Bank Elevation 21.07 m. (MSL.) ,

Right Bank Elevation 21.15 m. (MSL.) , Drainage Are 36 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.56	0.56	0.36	0.69	0.40	0.30	4.01	1.48	17.45	5.76	1.85	
2	0.66	0.56	0.56	0.36	0.69	0.54	0.06	2.55	22.45	11.04	3.68	1.80	
3	0.60	0.56	0.54	0.36	0.69	0.56	0.10	1.44	64.05	25.34	3.26	1.90	
4	0.60	0.56	0.54	0.38	0.66	0.52	0.12	1.05	33.90	33.50	8.07	1.80	
5	0.60	0.56	0.54	0.38	0.66	0.52	0.18	1.02	50.72	59.10	4.08	1.75	
6	0.60	0.56	0.50	0.38	0.66	0.54	0.20	1.20	30.90	28.14	3.32	1.75	
7	0.60	0.56	0.50	0.38	0.66	0.54	0.22	1.40	10.92	28.70	2.96	1.75	
8	0.58	0.56	0.50	0.38	0.63	0.54	0.20	1.20	9.30	43.76	2.60	1.75	
9	0.58	0.56	0.50	0.38	0.63	0.56	0.20	1.08	10.47	23.64	2.30	1.75	
10	0.58	0.56	0.48	0.36	0.60	0.56	0.22	0.93	9.40	14.92	2.10	1.75	
11	0.58	0.56	0.48	0.40	0.60	0.52	0.34	1.40	5.84	15.57	1.95	1.75	
12	0.58	0.56	0.48	0.40	0.60	0.48	0.36	2.05	4.15	8.52	3.26	1.75	
13	0.58	0.56	0.48	0.75	0.60	0.46	0.48	2.15	3.26	6.00	3.14	1.75	
14	0.58	0.56	0.46	0.75	0.75	0.44	1.11	2.05	2.72	4.57	2.50	1.75	
15	0.58	0.56	0.46	0.75	0.69	0.44	1.20	2.25	2.35	3.68	2.15	1.75	
16	0.58	0.56	0.46	0.78	0.60	0.44	1.02	1.65	2.20	3.20	2.10	1.75	
17	0.58	0.56	0.46	0.78	0.60	0.46	0.99	1.52	2.35	4.85	4.78	1.75	
18	0.58	0.56	0.46	0.78	0.60	0.46	0.99	1.56	3.94	21.28	2.90	1.75	
19	0.58	0.56	0.44	0.78	0.60	0.56	1.14	1.40	2.45	20.48	3.50	1.75	
20	0.60	0.56	0.44	0.78	0.58	0.60	1.20	1.24	3.56	33.90	2.84	1.75	
21	0.60	0.56	0.42	0.90	0.58	0.56	1.20	1.44	13.32	25.85	3.08	1.75	
22	0.60	0.56	0.42	0.90	0.58	0.60	1.11	1.32	7.80	21.60	2.40	1.80	
23	0.60	0.56	0.42	1.60	0.58	0.60	0.93	1.28	6.09	36.50	2.05	1.65	
24	0.60	0.56	0.40	0.90	0.58	0.58	0.84	1.20	4.92	15.83	1.90	1.75	
25	0.60	0.56	0.40	0.60	0.56	0.58	0.78	1.11	3.87	9.50	1.80	1.75	
26	0.58	0.56	0.40	0.60	0.56	0.60	0.75	1.05	3.14	12.60	1.80	1.75	
27	0.58	0.56	0.38	0.48	0.56	0.60	0.72	1.02	2.60	16.87	1.80	1.75	
28	0.56	0.56	0.38	0.48	0.54	0.58	0.69	0.99	2.66	8.34	2.40	2.00	
29	0.56	0.56	0.38	0.60	0.54	0.56	0.81	0.90	2.40	5.76		3.62	
30	0.56	0.56	0.38	0.69	0.54	0.56	1.44	0.87	2.45	4.57		2.05	
31		0.56		0.69	0.54		2.96		2.90	3.87		1.75	
Total	17.72	17.36	13.82	19.11	18.95	15.96	22.86	44.33	328.56	568.93	84.48	56.97	1209.05	CMSDAY
Mean	0.59	0.56	0.46	0.62	0.61	0.53	0.74	1.48	10.60	18.35	3.02	1.84	3.31	CMS
Max	0.66	0.56	0.56	1.60	0.75	0.60	2.96	4.01	64.05	59.10	8.07	3.62	64.05	CMS
Min	0.56	0.56	0.38	0.36	0.54	0.40	0.06	0.87	1.48	3.20	1.80	1.65	0.06	CMS
Runoff	1.53	1.50	1.19	1.65	1.64	1.38	1.98	3.83	28.39	49.16	7.30	4.92	104.46	MCM

Momentary Peak 136.00 CMS. at 21.15 m. (MSL.) at 13.00 Hours , on Jan 5 , 2017

Runoff Yield 92.01 Liters/Second/Square KM. Momentary Peak Yield 3777.780 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Kolok River at Lantu Bridge , Narathiwat (X.119A)

Lat 06 - 01 - 13 N Long 101 - 58 - 40 E

Location : on left bank at the bridge.

Ban - **Amphoe** Sungai Kolok **Changwat** Narathiwat

Drainge Area	1,358 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank in front of gage observer's house. **Elevation** +10.686 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1988 to date
Rating Operation	
Period of Rating	1988 to date
Rated by Flot	-
Rated by Current Meter	2004 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 9.760 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

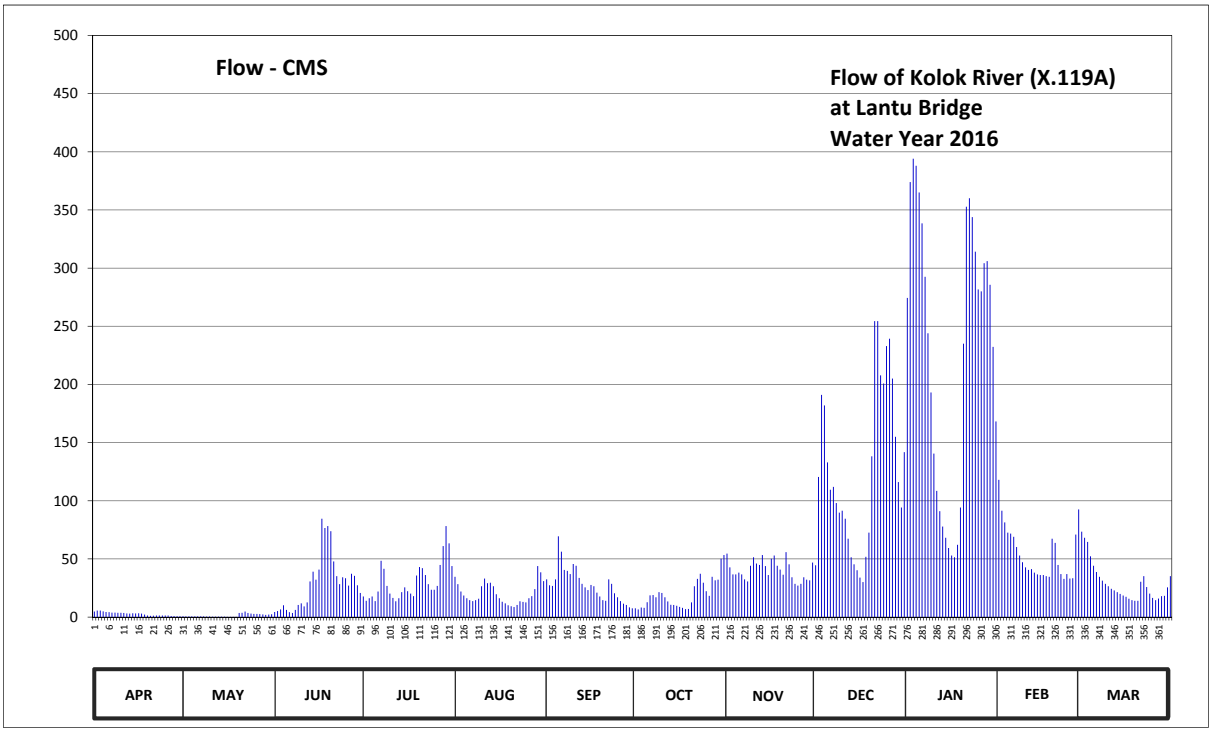
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.24	2.88	3.22	3.85	4.42	4.35	3.38	5.04	4.75	8.93	6.52	5.51	
2	3.28	2.87	3.26	3.70	4.21	4.18	3.33	4.69	6.57	10.04	5.96	5.38	
3	3.28	2.87	3.33	3.79	4.00	4.16	3.41	4.49	7.80	10.24	5.71	5.29	
4	3.25	2.87	3.51	3.85	3.88	4.35	3.40	4.49	7.65	10.18	5.49	4.98	
5	3.22	2.87	3.31	3.69	3.79	5.41	3.64	4.54	6.82	9.95	5.47	4.74	
6	3.21	2.87	3.21	4.00	3.72	5.08	3.89	4.49	6.35	9.66	5.40	4.56	
7	3.19	2.87	3.16	4.88	3.69	4.62	3.90	4.35	6.40	9.15	5.18	4.42	
8	3.18	2.87	3.31	4.65	3.72	4.59	3.82	4.29	6.12	8.55	5.00	4.31	
9	3.17	2.85	3.52	4.16	3.77	4.50	3.98	4.74	5.92	7.83	4.84	4.22	
10	3.17	2.85	3.59	3.94	4.15	4.79	3.96	4.96	5.96	6.96	4.69	4.15	
11	3.15	2.84	3.46	3.80	4.37	4.74	3.82	4.80	5.79	6.33	4.62	4.08	
12	3.12	2.84	3.63	3.68	4.24	4.39	3.67	4.76	5.36	5.95	4.64	4.03	
13	3.10	2.84	4.29	3.79	4.25	4.22	3.53	5.01	4.96	5.62	4.54	3.98	
14	3.13	2.84	4.57	3.98	4.15	4.12	3.52	4.73	4.78	5.38	4.49	3.93	
15	3.12	2.84	4.34	4.12	3.92	4.04	3.49	4.47	4.61	5.16	4.47	3.88	
16	3.13	2.83	4.63	4.01	3.79	4.19	3.44	4.93	4.40	5.00	4.47	3.84	
17	3.10	2.83	5.79	3.94	3.66	4.15	3.40	5.00	4.27	4.96	4.44	3.77	
18	3.02	2.82	5.59	3.86	3.59	3.97	3.34	4.74	4.97	5.23	4.42	3.72	
19	2.93	2.83	5.63	4.46	3.51	3.85	3.35	4.63	5.49	6.03	5.36	3.70	
20	2.91	3.16	5.52	4.70	3.47	3.72	3.63	4.48	6.92	8.43	5.27	3.70	
21	2.92	3.17	4.86	4.67	3.43	3.70	4.15	5.07	8.68	9.82	4.76	4.28	
22	2.93	3.24	4.44	4.47	3.52	4.35	4.36	4.78	8.68	9.90	4.50	4.44	
23	2.93	3.16	4.21	4.21	3.68	4.22	4.51	4.41	8.04	9.72	4.36	4.13	
24	2.94	3.10	4.41	4.05	3.65	3.95	4.25	4.22	7.94	9.39	4.50	3.94	
25	2.94	3.07	4.38	4.05	3.63	3.82	4.01	4.17	8.40	9.02	4.37	3.80	
26	2.93	3.08	4.17	4.16	3.79	3.69	3.87	4.22	8.49	9.00	4.38	3.72	
27	2.90	3.06	4.51	4.76	3.86	3.58	4.42	4.41	8.00	9.28	5.45	3.78	
28	2.89	3.03	4.45	5.20	4.07	3.52	4.32	4.34	7.20	9.30	5.99	3.86	
29	2.88	2.99	4.18	5.63	4.73	3.42	4.34	4.32	6.48	9.07		3.87	
30	2.88	3.02	3.96	5.26	4.55	3.38	4.93	4.83	6.03	8.39		4.12	
31		3.04		4.73	4.30		5.01		6.98	7.42		4.44	
Mean	3.07	2.95	4.15	4.26	3.92	4.17	3.87	4.61	6.48	8.06	4.97	4.21	
Max	3.28	3.24	5.79	5.63	4.73	5.41	5.01	5.07	8.68	10.24	6.52	5.51	10.24
Min	2.88	2.82	3.16	3.68	3.43	3.38	3.33	4.17	4.27	4.96	4.36	3.70	2.82

Annual Max Momentary Gage Height 10.31 m. (MSL.) , at 15.00 Hours , on Jan 3 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.93 m. (MSL.)

Left Bank Elevation 10.57 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, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.80	0.80	4.40	17.75	34.60	32.50	7.60	54.60	44.50	274.40	118.00	73.40	
2	5.60	0.70	5.20	14.00	28.30	27.40	6.60	42.70	120.50	374.00	91.40	68.20	
3	5.60	0.70	6.60	16.25	22.00	26.80	8.20	36.70	191.00	394.00	81.40	64.60	
4	5.00	0.70	10.20	17.75	18.50	32.50	8.00	36.70	182.00	388.00	72.60	52.20	
5	4.40	0.70	6.20	13.80	16.25	69.40	12.80	38.20	133.00	365.00	71.80	44.20	
6	4.20	0.70	4.20	22.00	14.50	56.20	18.75	36.70	109.50	338.40	69.00	38.80	
7	3.90	0.70	3.60	48.40	13.80	40.60	19.00	32.50	112.00	292.50	60.20	34.60	
8	3.80	0.70	6.20	41.50	14.50	39.70	17.00	30.70	98.00	244.00	53.00	31.30	
9	3.70	0.50	10.40	26.80	15.75	37.00	21.40	44.20	89.80	193.10	47.20	28.60	
10	3.70	0.50	11.80	20.20	26.50	45.70	20.80	51.40	91.40	140.60	42.70	26.50	
11	3.50	0.40	9.20	16.50	33.10	44.20	17.00	46.00	84.60	108.50	40.60	24.40	
12	3.20	0.40	12.60	13.60	29.20	33.70	13.40	44.80	67.40	91.00	41.20	22.90	
13	3.00	0.40	30.70	16.25	29.50	28.60	10.60	53.40	51.40	77.80	38.20	21.40	
14	3.30	0.40	39.10	21.40	26.50	25.60	10.40	43.90	45.40	68.20	36.70	19.90	
15	3.20	0.40	32.20	25.60	19.60	23.20	9.80	36.10	40.30	59.40	36.10	18.50	
16	3.30	0.30	40.90	22.30	16.25	27.70	8.80	50.20	34.00	53.00	36.10	17.50	
17	3.00	0.30	84.60	20.20	13.20	26.50	8.00	53.00	30.10	51.40	35.20	15.75	
18	2.20	0.20	76.60	18.00	11.80	21.10	6.80	44.20	51.80	62.20	34.60	14.50	
19	1.30	0.30	78.20	35.80	10.20	17.75	7.00	40.90	72.60	94.20	67.40	14.00	
20	1.10	3.60	73.80	43.00	9.40	14.50	12.60	36.40	138.20	235.10	63.80	14.00	
21	1.20	3.70	47.80	42.10	8.60	14.00	26.50	55.80	254.40	352.80	44.80	30.40	
22	1.30	4.80	35.20	36.10	10.40	32.50	32.80	45.40	254.40	360.00	37.00	35.20	
23	1.30	3.60	28.30	28.30	13.60	28.60	37.30	34.30	207.80	343.80	32.80	25.90	
24	1.40	3.00	34.30	23.50	13.00	20.50	29.50	28.60	200.80	314.10	37.00	20.20	
25	1.40	2.70	33.40	23.50	12.60	17.00	22.30	27.10	233.00	281.60	33.10	16.50	
26	1.30	2.80	27.10	26.80	16.25	13.80	18.25	28.60	239.30	280.00	33.40	14.50	
27	1.00	2.60	37.30	44.80	18.00	11.60	34.60	34.30	205.00	304.20	71.00	16.00	
28	0.90	2.30	35.50	61.00	24.10	10.40	31.60	32.20	155.00	306.00	92.60	18.00	
29	0.80	1.90	27.40	78.20	43.90	8.40	32.20	31.60	116.00	285.60		18.25	
30	0.80	2.20	20.80	63.40	38.50	7.60	50.20	46.90	94.20	232.30		25.60	
31		2.40		43.90	31.00		53.40		141.80	168.20		35.20	
Total	83.20	45.40	873.80	942.70	633.40	835.05	613.20	1218.10	3889.20	7133.40	1518.90	901.00	18687.35	CMSDAY
Mean	2.77	1.46	29.13	30.41	20.43	27.84	19.78	40.60	125.46	230.11	54.25	29.06	51.20	CMS
Max	5.60	4.80	84.60	78.20	43.90	69.40	53.40	55.80	254.40	394.00	118.00	73.40	394.00	CMS
Min	0.80	0.20	3.60	13.60	8.60	7.60	6.60	27.10	30.10	51.40	32.80	14.00	0.20	CMS
Runoff	7.19	3.92	75.50	81.45	54.73	72.15	52.98	105.24	336.03	616.33	131.23	77.85	1614.59	MCM

Momentary Peak 401.00 CMS. at 10.31 m. (MSL.) at 15.00 Hours , on Jan 3 , 2017

Runoff Yield 37.70 Liters/Second/Square KM. Momentary Peak Yield 295.290 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Klai at Ban Hua Na , Nakhon Si Thammarat (X.149)

Lat 08 - 43 - 46 N Long 99 - 44 - 53 E

Location : on left bank at Ban Hua Na.

Ban Hua Na **Amphoe** Nopphitam **Changwat** Nakhon Si Thammar

Drainge Area	475 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the station office. **Elevation** +34.588 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Flot	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation + 32.130 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

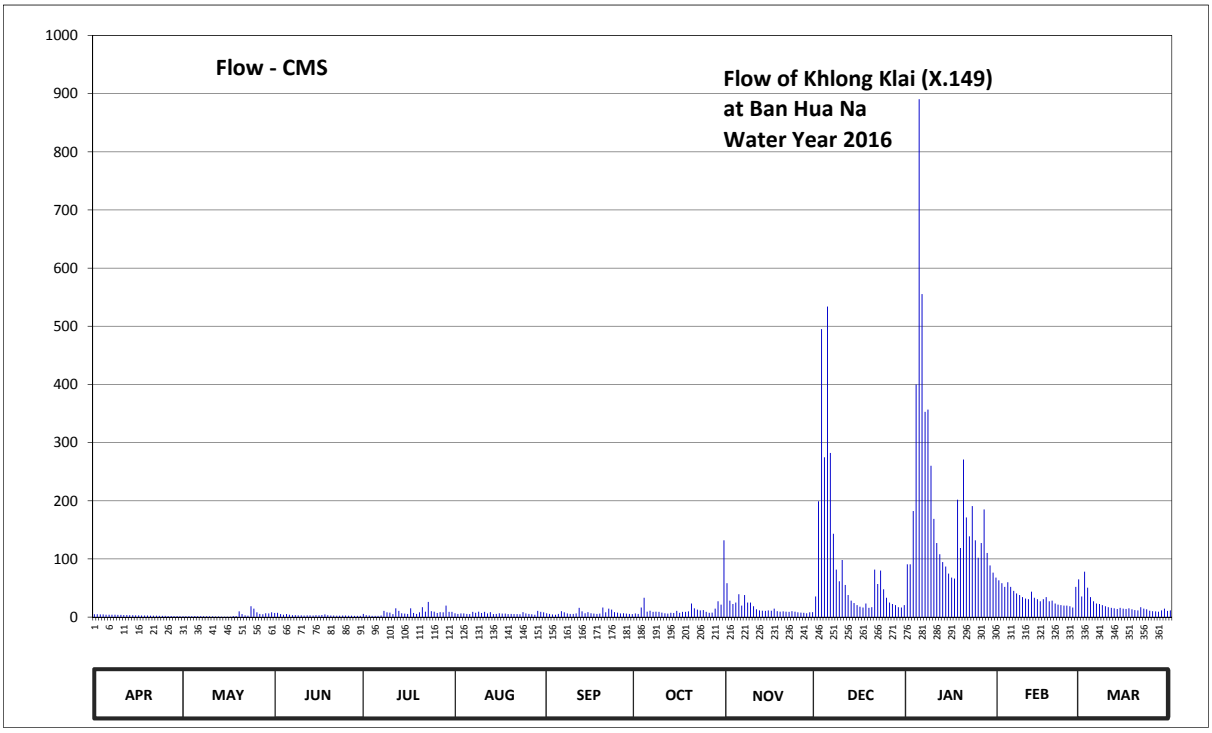
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.94	28.83	29.00	28.96	28.99	28.99	28.98	29.54	29.38	29.73	29.57	29.38	
2	28.94	28.83	29.01	28.89	28.96	28.96	28.96	29.32	30.19	29.73	29.54	29.66	
3	28.93	28.83	28.95	28.87	28.98	28.93	29.19	29.26	30.97	30.13	29.50	29.49	
4	28.93	28.83	28.92	28.85	28.98	28.92	29.36	29.29	30.41	30.74	29.55	29.37	
5	28.92	28.84	28.95	28.85	28.96	28.96	29.06	29.41	31.06	31.81	29.50	29.31	
6	28.92	28.83	28.92	28.85	28.95	29.08	29.10	29.23	30.43	31.11	29.45	29.27	
7	28.92	28.83	28.89	28.87	29.05	29.03	29.05	29.40	29.98	30.62	29.42	29.26	
8	28.92	28.82	28.89	29.09	29.01	28.98	29.06	29.29	29.68	30.63	29.40	29.24	
9	28.91	28.82	28.88	29.03	29.06	28.96	29.05	29.29	29.56	30.37	29.37	29.22	
10	28.91	28.81	28.88	29.02	29.00	28.96	29.02	29.22	29.77	30.08	29.35	29.20	
11	28.90	28.81	28.87	28.95	29.05	28.98	28.99	29.14	29.52	29.91	29.34	29.18	
12	28.90	28.80	28.88	29.17	28.98	29.18	28.97	29.11	29.40	29.82	29.44	29.17	
13	28.89	28.80	28.88	29.09	29.04	29.07	29.01	29.10	29.32	29.75	29.36	29.15	
14	28.89	28.79	28.87	28.99	28.95	28.99	29.00	29.09	29.28	29.71	29.34	29.18	
15	28.88	28.79	28.89	28.97	28.96	29.04	29.09	29.11	29.24	29.64	29.31	29.16	
16	28.88	28.79	28.88	28.96	28.99	28.99	29.01	29.10	29.21	29.60	29.34	29.15	
17	28.87	28.79	28.90	29.17	28.97	28.97	29.05	29.16	29.19	29.59	29.37	29.17	
18	28.87	28.84	28.93	29.00	28.97	28.96	29.05	29.08	29.27	30.20	29.31	29.14	
19	28.87	28.84	28.89	28.96	28.95	28.97	29.07	29.06	29.18	29.87	29.32	29.12	
20	28.86	29.07	28.87	29.03	28.96	29.19	29.27	29.07	29.20	30.40	29.27	29.11	
21	28.86	28.95	28.87	29.20	28.95	29.03	29.17	29.06	29.68	30.09	29.25	29.20	
22	28.86	28.88	28.86	29.06	28.95	29.16	29.13	29.05	29.53	29.96	29.24	29.16	
23	28.85	28.86	28.86	29.30	28.94	29.13	29.11	29.08	29.67	30.16	29.23	29.14	
24	28.85	29.22	28.87	29.08	29.04	29.04	29.12	29.06	29.47	29.93	29.23	29.10	
25	28.85	29.16	28.87	29.06	28.98	29.02	29.05	29.03	29.36	29.79	29.22	29.08	
26	28.84	29.03	28.86	29.00	28.96	28.98	29.01	29.02	29.29	29.91	29.19	29.07	
27	28.84	28.96	28.86	29.04	28.94	28.99	29.02	29.01	29.26	30.14	29.50	29.06	
28	28.84	28.94	28.85	29.03	28.92	28.97	29.16	28.99	29.24	29.83	29.58	29.11	
29	28.84	28.99	28.85	29.23	29.09	28.96	29.31	29.03	29.20	29.72		29.16	
30	28.83	28.98	28.85	29.05	29.05	28.95	29.25	29.04	29.19	29.65		29.09	
31		29.03		29.05	29.03		29.93		29.24	29.60		29.11	
Mean	28.88	28.89	28.89	29.02	28.99	29.01	29.12	29.15	29.59	30.07	29.37	29.20	
Max	28.94	29.22	29.01	29.30	29.09	29.19	29.93	29.54	31.06	31.81	29.58	29.66	31.81
Min	28.83	28.79	28.85	28.85	28.92	28.92	28.96	28.99	29.18	29.59	29.19	29.06	28.79

Annual Max Momentary Gage Height 32.90 m. (MSL.) , at 09.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 26.61 m. (MSL.)

Left Bank Elevation 32.12 m. (MSL.) ,

Right Bank Elevation 34.31 m. (MSL.) , Drainage Are 475 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.90	1.75	7.00	5.60	6.65	6.65	6.30	58.40	35.60	90.70	63.20	35.60	
2	4.90	1.75	7.40	3.25	5.60	5.60	5.60	28.40	199.20	90.70	58.40	78.20	
3	4.55	1.75	5.25	2.75	6.30	4.55	16.40	22.40	495.10	182.40	52.00	50.60	
4	4.55	1.75	4.20	2.25	6.30	4.20	33.20	25.10	274.70	400.00	60.00	34.40	
5	4.20	2.00	5.25	2.25	5.60	5.60	9.40	39.40	533.80	890.50	52.00	27.20	
6	4.20	1.75	4.20	2.25	5.25	10.20	11.00	19.70	282.10	555.30	45.00	23.30	
7	4.20	1.75	3.25	2.75	9.00	8.20	9.00	38.00	143.40	352.80	40.80	22.40	
8	4.20	1.50	3.25	10.60	7.40	6.30	9.40	25.10	81.60	356.70	38.00	20.60	
9	3.85	1.50	3.00	8.20	9.40	5.60	9.00	25.10	61.60	260.20	34.40	18.80	
10	3.85	1.25	3.00	7.80	7.00	5.60	7.80	18.80	98.30	168.80	32.00	17.00	
11	3.50	1.25	2.75	5.25	9.00	6.30	6.65	13.40	55.20	127.30	30.80	15.80	
12	3.50	1.00	3.00	15.20	6.30	15.80	5.95	11.60	38.00	108.20	43.60	15.20	
13	3.25	1.00	3.00	10.60	8.60	9.80	7.40	11.00	28.40	94.50	33.20	14.00	
14	3.25	0.80	2.75	6.65	5.25	6.65	7.00	10.60	24.20	86.90	30.80	15.80	
15	3.00	0.80	3.25	5.95	5.60	8.60	10.60	11.60	20.60	74.80	27.20	14.60	
16	3.00	0.80	3.00	5.60	6.65	6.65	7.40	11.00	17.90	68.00	30.80	14.00	
17	2.75	0.80	3.50	15.20	5.95	5.95	9.00	14.60	16.40	66.40	34.40	15.20	
18	2.75	2.00	4.55	7.00	5.95	5.60	9.00	10.20	23.30	202.00	27.20	13.40	
19	2.75	2.00	3.25	5.60	5.25	5.95	9.80	9.40	15.80	118.70	28.40	12.20	
20	2.50	9.80	2.75	8.20	5.60	16.40	23.30	9.80	17.00	271.00	23.30	11.60	
21	2.50	5.25	2.75	17.00	5.25	8.20	15.20	9.40	81.60	171.40	21.50	17.00	
22	2.50	3.00	2.50	9.40	5.25	14.60	12.80	9.00	56.80	138.80	20.60	14.60	
23	2.25	2.50	2.50	26.00	4.90	12.80	11.60	10.20	79.90	190.80	19.70	13.40	
24	2.25	18.80	2.75	10.20	8.60	8.60	12.20	9.40	47.80	131.90	19.70	11.00	
25	2.25	14.60	2.75	9.40	6.30	7.80	9.00	8.20	33.20	102.10	18.80	10.20	
26	2.00	8.20	2.50	7.00	5.60	6.30	7.40	7.80	25.10	127.30	16.40	9.80	
27	2.00	5.60	2.50	8.60	4.90	6.65	7.80	7.40	22.40	185.20	52.00	9.40	
28	2.00	4.90	2.25	8.20	4.20	5.95	14.60	6.65	20.60	110.30	64.80	11.60	
29	2.00	6.65	2.25	19.70	10.60	5.60	27.20	8.20	17.00	88.80		14.60	
30	1.75	6.30	2.25	9.00	9.00	5.25	21.50	8.60	16.40	76.50		10.60	
31		8.20		9.00	8.20		131.90		20.60	68.00		11.60	
Total	95.15	121.00	102.60	266.45	205.45	231.95	484.40	498.45	2883.60	5957.00	1019.00	603.70	12468.75 CMSDAY
Mean	3.17	3.90	3.42	8.60	6.63	7.73	15.63	16.61	93.02	192.16	36.39	19.47	34.16 CMS
Max	4.90	18.80	7.40	26.00	10.60	16.40	131.90	58.40	533.80	890.50	64.80	78.20	890.50 CMS
Min	1.75	0.80	2.25	2.25	4.20	4.20	5.60	6.65	15.80	66.40	16.40	9.40	0.80 CMS
Runoff	8.22	10.45	8.86	23.02	17.75	20.04	41.85	43.07	249.14	514.68	88.04	52.16	1077.30 MCM

Momentary Peak 1545.00 CMS. at 32.90 m. (MSL.) at 09.00 Hours , on Jan 5 , 2017

Runoff Yield 71.90 Liters/Second/Square KM. Momentary Peak Yield 3251.880 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

Ban Wang Khrok **Amphoe** Tha Sae **Changwat** Chumphon

Drainge Area	1,814 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 1 meters from the top staff gage. **Elevation** +11.796 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Flot	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

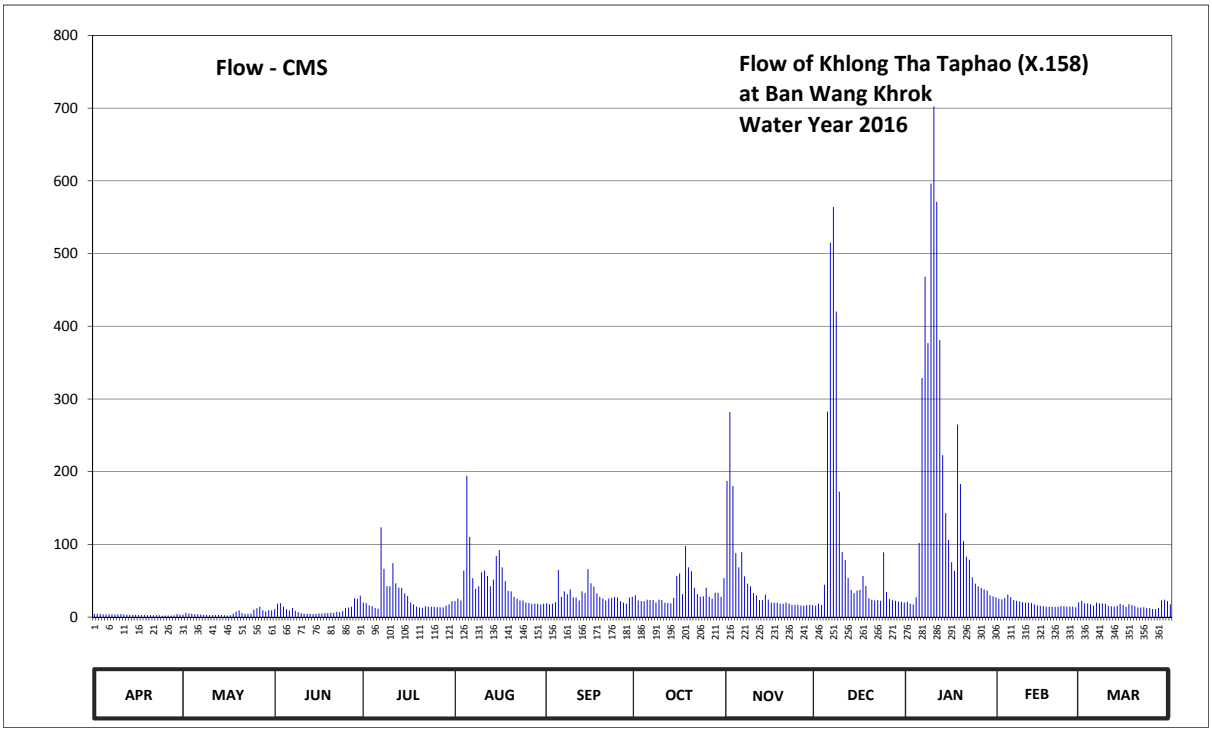
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.99	2.93	3.30	3.60	3.65	3.57	3.84	6.46	3.45	3.63	3.73	3.66	
2	3.00	3.09	3.55	3.57	3.74	3.53	3.67	7.62	3.55	3.55	3.71	3.56	
3	2.99	3.04	3.57	3.47	3.67	3.55	3.65	6.36	3.48	3.51	3.76	3.56	
4	2.95	3.00	3.42	3.43	4.52	3.61	3.65	4.95	4.13	3.78	3.86	3.52	
5	2.95	2.97	3.30	3.35	6.56	4.54	3.70	4.61	7.63	5.18	3.78	3.46	
6	2.95	2.96	3.23	3.32	5.32	3.80	3.69	4.98	9.84	8.13	3.68	3.60	
7	2.95	2.93	3.35	5.54	4.31	3.95	3.69	4.36	10.25	9.45	3.66	3.56	
8	2.95	2.90	3.22	4.57	4.02	3.87	3.60	4.16	9.02	8.61	3.64	3.56	
9	2.97	2.89	3.15	4.09	4.09	4.00	3.70	4.09	6.25	10.52	3.61	3.54	
10	2.98	2.88	3.06	4.09	4.47	3.78	3.69	3.90	4.98	11.38	3.60	3.45	
11	2.95	2.88	3.01	4.72	4.52	3.77	3.59	3.84	4.79	10.31	3.59	3.43	
12	2.93	2.88	3.00	4.17	4.37	3.67	3.57	3.69	4.32	8.65	3.58	3.42	
13	2.92	2.90	3.00	4.05	4.09	3.95	3.56	3.68	3.99	6.92	3.51	3.45	
14	2.92	2.89	2.98	4.04	4.27	3.90	3.76	3.86	3.90	5.83	3.47	3.54	
15	2.90	2.88	3.00	3.89	4.88	4.56	4.37	3.70	3.97	5.25	3.45	3.49	
16	2.90	2.85	3.04	3.82	5.02	4.17	4.44	3.59	3.99	4.74	3.43	3.40	
17	2.89	2.87	3.04	3.60	4.61	4.08	3.87	3.59	4.37	4.51	3.42	3.53	
18	2.89	3.02	3.07	3.52	4.23	3.89	5.11	3.59	4.10	7.43	3.41	3.48	
19	2.88	3.18	3.08	3.42	3.96	3.80	4.61	3.54	3.75	6.40	3.41	3.44	
20	2.88	3.24	3.09	3.38	3.95	3.74	4.50	3.54	3.70	5.23	3.40	3.37	
21	2.88	3.06	3.08	3.36	3.80	3.67	4.05	3.60	3.67	4.87	3.41	3.37	
22	2.88	2.99	3.16	3.43	3.73	3.74	3.87	3.55	3.68	4.80	3.44	3.39	
23	2.87	3.00	3.14	3.42	3.67	3.76	3.80	3.50	3.66	4.33	3.43	3.34	
24	2.83	3.02	3.21	3.41	3.67	3.79	3.81	3.50	4.97	4.16	3.42	3.34	
25	2.85	3.28	3.35	3.40	3.60	3.78	4.05	3.50	3.93	4.09	3.42	3.31	
26	2.85	3.34	3.37	3.39	3.58	3.65	3.80	3.46	3.72	4.04	3.42	3.30	
27	2.84	3.42	3.41	3.38	3.54	3.60	3.74	3.45	3.68	4.00	3.39	3.35	
28	2.87	3.25	3.75	3.38	3.55	3.55	3.91	3.48	3.66	3.97	3.61	3.68	
29	2.98	3.18	3.73	3.47	3.55	3.77	3.91	3.50	3.64	3.84		3.70	
30	2.94	3.25	3.83	3.52	3.51	3.80	3.80	3.48	3.62	3.81		3.65	
31		3.24		3.65	3.55		4.31		3.60	3.78		3.52	
Mean	2.92	3.04	3.25	3.72	4.13	3.83	3.91	4.10	4.69	5.76	3.54	3.48	
Max	3.00	3.42	3.83	5.54	6.56	4.56	5.11	7.62	10.25	11.38	3.86	3.70	11.38
Min	2.83	2.85	2.98	3.32	3.51	3.53	3.56	3.45	3.45	3.51	3.39	3.30	2.83

Annual Max Momentary Gage Height 11.58 m. (MSL.) , at 03.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.19 m. (MSL.)

Left Bank Elevation 13.24 m. (MSL.) ,

Right Bank Elevation 13.77 m. (MSL.) , Drainage Are 1,814 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.35	3.45	11.00	20.00	22.00	19.10	30.00	187.20	15.50	21.20	25.20	22.40	
2	4.50	5.85	18.50	19.10	25.60	17.90	22.80	281.80	18.50	18.50	24.40	18.80	
3	4.35	5.10	19.10	16.10	22.80	18.50	22.00	180.20	16.40	17.30	26.40	18.80	
4	3.75	4.50	14.60	14.90	64.00	20.40	22.00	88.00	44.50	27.20	31.00	17.60	
5	3.75	4.05	11.00	12.50	194.20	65.00	24.00	68.50	282.70	101.80	27.20	15.80	
6	3.75	3.90	8.90	11.60	110.20	28.00	23.60	89.80	514.80	329.00	23.20	20.00	
7	3.75	3.45	12.50	123.40	53.50	35.50	23.60	56.00	564.00	468.00	22.40	18.80	
8	3.75	3.00	8.60	66.50	39.00	31.50	20.00	46.00	420.20	377.00	21.60	18.80	
9	4.05	2.85	7.00	42.50	42.50	38.00	24.00	42.50	172.50	596.40	20.40	18.20	
10	4.20	2.70	5.40	42.50	61.50	27.20	23.60	33.00	89.80	702.40	20.00	15.50	
11	3.75	2.70	4.65	74.20	64.00	26.80	19.70	30.00	78.40	571.20	19.70	14.90	
12	3.45	2.70	4.50	46.50	56.50	22.80	19.10	23.60	54.00	381.00	19.40	14.60	
13	3.30	3.00	4.50	40.50	42.50	35.50	18.80	23.20	37.50	222.60	17.30	15.50	
14	3.30	2.85	4.20	40.00	51.50	33.00	26.40	31.00	33.00	143.10	16.10	18.20	
15	3.00	2.70	4.50	32.50	83.80	66.00	56.50	24.00	36.50	106.00	15.50	16.70	
16	3.00	2.25	5.10	29.00	92.20	46.50	60.00	19.70	37.50	75.40	14.90	14.00	
17	2.85	2.55	5.10	20.00	68.50	42.00	31.50	19.70	56.50	63.50	14.60	17.90	
18	2.85	4.80	5.55	17.60	49.50	32.50	97.60	19.70	43.00	264.70	14.30	16.40	
19	2.70	7.60	5.70	14.60	36.00	28.00	68.50	18.20	26.00	183.00	14.30	15.20	
20	2.70	9.20	5.85	13.40	35.50	25.60	63.00	18.20	24.00	104.80	14.00	13.10	
21	2.70	5.40	5.70	12.80	28.00	22.80	40.50	20.00	22.80	83.20	14.30	13.10	
22	2.70	4.35	7.20	14.90	25.20	25.60	31.50	18.50	23.20	79.00	15.20	13.70	
23	2.55	4.50	6.80	14.60	22.80	26.40	28.00	17.00	22.40	54.50	14.90	12.20	
24	1.95	4.80	8.30	14.30	22.80	27.60	28.50	17.00	89.20	46.00	14.60	12.20	
25	2.25	10.40	12.50	14.00	20.00	27.20	40.50	17.00	34.50	42.50	14.60	11.30	
26	2.25	12.20	13.10	13.70	19.40	22.00	28.00	15.80	24.80	40.00	14.60	11.00	
27	2.10	14.60	14.30	13.40	18.20	20.00	25.60	15.50	23.20	38.00	13.70	12.50	
28	2.55	9.50	26.00	13.40	18.50	18.50	33.50	16.40	22.40	36.50	20.40	23.20	
29	4.20	7.60	25.20	16.10	18.50	26.80	33.50	17.00	21.60	30.00		24.00	
30	3.60	9.50	29.50	17.60	17.30	28.00	28.00	16.40	20.80	28.50		22.00	
31		9.20		22.00	18.50		53.50		20.00	27.20		17.60	
Total	97.95	171.25	314.85	864.20	1444.50	904.70	1067.80	1470.90	2890.20	5279.50	524.20	514.00	15544.05 CMSDAY
Mean	3.27	5.52	10.49	27.88	46.60	30.16	34.45	49.03	93.23	170.31	18.72	16.58	42.59 CMS
Max	4.50	14.60	29.50	123.40	194.20	66.00	97.60	281.80	564.00	702.40	31.00	24.00	702.40 CMS
Min	1.95	2.25	4.20	11.60	17.30	17.90	18.80	15.50	15.50	17.30	13.70	11.00	1.95 CMS
Runoff	8.46	14.80	27.20	74.67	124.80	78.17	92.26	127.09	249.71	456.15	45.29	44.41	1343.01 MCM

Momentary Peak 728.40 CMS. at 11.58 m. (MSL.) at 03.00 Hours , on Jan 10 , 2017

Runoff Yield 23.47 Liters/Second/Square KM. Momentary Peak Yield 401.510 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

Ban Sao Thong **Amphoe** Ron Phibun **Changwat** Nakhon Si Thammar

Drainge Area	252 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 4.50 meters from the top staff gage. **Elevation** +12.456 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

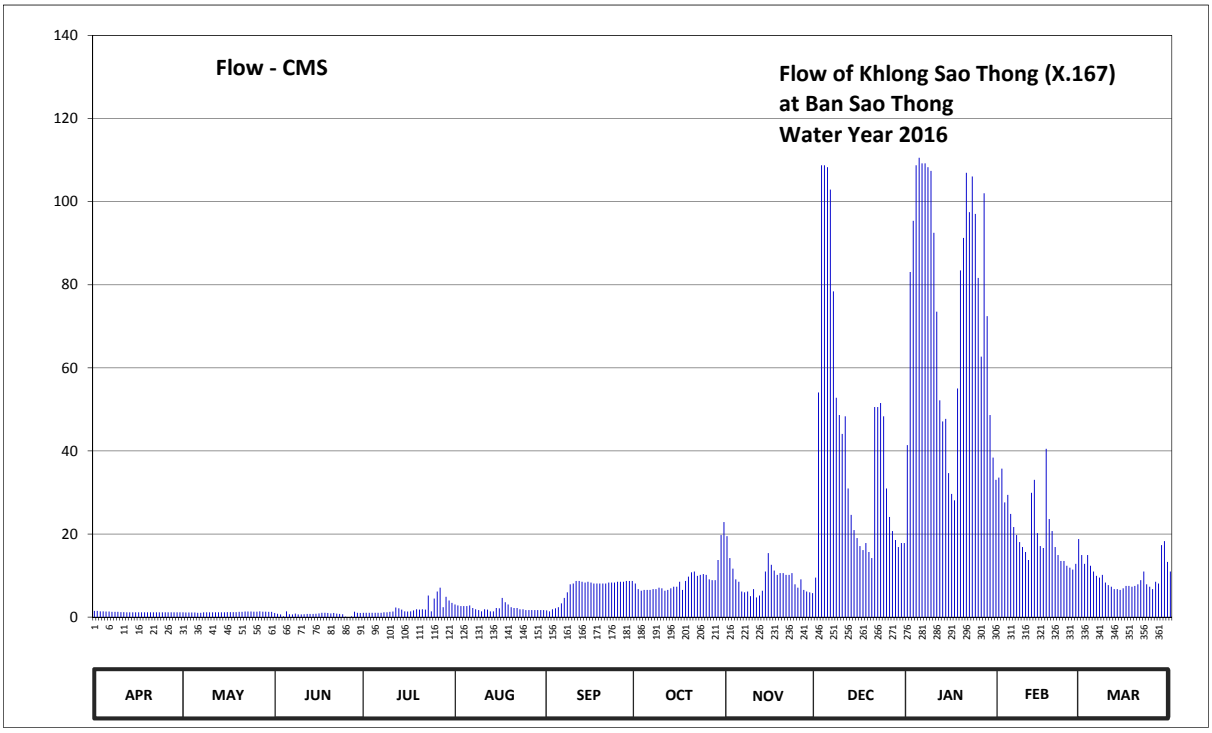
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.11	8.05	8.02	8.03	8.25	8.12	8.55	9.05	8.62	9.88	9.61	8.86	
2	8.11	8.04	7.98	8.03	8.23	8.10	8.48	8.83	10.29	11.13	9.69	8.77	
3	8.10	8.04	7.95	8.03	8.22	8.15	8.46	8.72	11.75	11.44	9.38	8.86	
4	8.10	8.04	7.85	8.03	8.22	8.17	8.47	8.60	11.75	11.75	9.45	8.75	
5	8.09	8.04	8.10	8.03	8.22	8.20	8.47	8.57	11.74	11.79	9.27	8.69	
6	8.09	8.03	7.96	8.03	8.23	8.27	8.47	8.45	11.62	11.76	9.14	8.64	
7	8.07	8.03	7.95	8.03	8.18	8.36	8.48	8.44	11.00	11.76	9.06	8.62	
8	8.07	8.05	7.99	8.05	8.15	8.44	8.48	8.45	10.25	11.74	8.99	8.65	
9	8.07	8.05	7.95	8.05	8.13	8.54	8.50	8.39	10.12	11.72	8.94	8.56	
10	8.06	8.05	7.95	8.07	8.10	8.55	8.49	8.48	9.97	11.37	8.89	8.53	
11	8.06	8.05	7.96	8.09	8.15	8.58	8.46	8.37	10.11	10.86	8.81	8.51	
12	8.05	8.05	7.97	8.19	8.14	8.58	8.47	8.40	9.51	10.23	9.47	8.48	
13	8.05	8.05	7.97	8.17	8.10	8.57	8.49	8.46	9.26	10.07	9.59	8.48	
14	8.05	8.05	7.97	8.14	8.10	8.56	8.51	8.69	9.11	10.09	9.08	8.47	
15	8.05	8.05	7.98	8.10	8.18	8.57	8.51	8.88	9.03	9.65	8.95	8.49	
16	8.05	8.06	8.00	8.09	8.17	8.56	8.57	8.76	8.95	9.46	8.93	8.52	
17	8.05	8.06	8.03	8.10	8.36	8.55	8.47	8.70	8.91	9.40	9.85	8.52	
18	8.05	8.06	8.03	8.12	8.29	8.55	8.58	8.65	8.98	10.32	9.22	8.51	
19	8.05	8.06	8.02	8.15	8.25	8.55	8.63	8.67	8.89	11.14	9.10	8.52	
20	8.05	8.07	8.00	8.14	8.20	8.55	8.68	8.67	8.83	11.34	8.94	8.54	
21	8.05	8.07	8.02	8.15	8.18	8.55	8.69	8.65	10.18	11.71	8.86	8.59	
22	8.05	8.09	7.99	8.14	8.18	8.56	8.64	8.65	10.18	11.49	8.80	8.69	
23	8.05	8.09	7.97	8.40	8.15	8.56	8.65	8.67	10.21	11.69	8.80	8.54	
24	8.05	8.09	7.96	8.10	8.15	8.56	8.66	8.54	10.11	11.48	8.75	8.51	
25	8.05	8.08	7.83	8.35	8.13	8.57	8.65	8.50	9.51	11.09	8.73	8.48	
26	8.05	8.08	7.80	8.45	8.13	8.57	8.60	8.60	9.24	10.55	8.71	8.57	
27	8.05	8.10	7.85	8.50	8.13	8.57	8.59	8.47	9.10	11.60	8.77	8.55	
28	8.05	8.08	8.08	8.20	8.13	8.58	8.59	8.45	9.01	10.83	9.02	8.96	
29	8.05	8.08	8.03	8.38	8.13	8.58	8.81	8.44	8.94	10.12		9.00	
30	8.05	8.07	8.02	8.32	8.13	8.58	9.06	8.43	8.98	9.78		8.79	
31		8.07		8.28	8.13		9.19		8.98	9.59		8.69	
Mean	8.06	8.06	7.97	8.16	8.18	8.47	8.59	8.59	9.78	10.87	9.10	8.62	
Max	8.11	8.10	8.10	8.50	8.36	8.58	9.19	9.05	11.75	11.79	9.85	9.00	11.79
Min	8.05	8.03	7.80	8.03	8.10	8.10	8.46	8.37	8.62	9.40	8.71	8.47	7.80

Annual Max Momentary Gage Height 11.89 m. (MSL.) , at 12.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 7.01 m. (MSL.)

Left Bank Elevation 12.54 m. (MSL.) ,

Right Bank Elevation 12.29 m. (MSL.) , Drainage Are 252 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.50	1.15	1.00	1.05	3.05	1.60	8.10	19.50	9.52	41.40	33.57	14.94		
2	1.50	1.10	0.80	1.05	2.79	1.40	6.72	14.22	54.08	83.08	35.73	12.81		
3	1.40	1.10	0.65	1.05	2.66	1.90	6.34	11.66	108.75	95.39	27.60	14.94		
4	1.40	1.10	0.20	1.05	2.66	2.10	6.53	9.10	108.75	108.75	29.40	12.35		
5	1.35	1.10	1.40	1.05	2.66	2.40	6.53	8.50	108.30	110.55	24.85	10.99		
6	1.35	1.05	0.70	1.05	2.79	3.31	6.53	6.15	102.90	109.20	21.66	9.94		
7	1.25	1.05	0.65	1.05	2.20	4.60	6.72	5.96	78.40	109.20	19.74	9.52		
8	1.25	1.15	0.85	1.15	1.90	5.96	6.72	6.15	52.80	108.30	18.06	10.15		
9	1.25	1.15	0.65	1.15	1.70	7.90	7.10	5.05	48.64	107.40	16.86	8.30		
10	1.20	1.15	0.65	1.25	1.40	8.10	6.91	6.72	44.10	92.49	15.66	7.70		
11	1.20	1.15	0.70	1.35	1.90	8.70	6.34	4.75	48.32	73.50	13.74	7.30		
12	1.15	1.15	0.75	2.30	1.80	8.70	6.53	5.20	30.96	52.16	29.92	6.72		
13	1.15	1.15	0.75	2.10	1.40	8.50	6.91	6.34	24.60	47.10	33.04	6.72		
14	1.15	1.15	0.75	1.80	1.40	8.30	7.30	10.99	20.94	47.70	20.22	6.53		
15	1.15	1.15	0.80	1.40	2.20	8.50	7.30	15.42	19.02	34.65	17.10	6.91		
16	1.15	1.20	0.90	1.35	2.10	8.30	8.50	12.58	17.10	29.66	16.62	7.50		
17	1.15	1.20	1.05	1.40	4.60	8.10	6.53	11.20	16.14	28.10	40.50	7.50		
18	1.15	1.20	1.05	1.60	3.57	8.10	8.70	10.15	17.82	55.04	23.60	7.30		
19	1.15	1.20	1.00	1.90	3.05	8.10	9.73	10.57	15.66	83.44	20.70	7.50		
20	1.15	1.25	0.90	1.80	2.40	8.10	10.78	10.57	14.22	91.25	16.86	7.90		
21	1.15	1.25	1.00	1.90	2.20	8.10	10.99	10.15	50.56	106.95	14.94	8.90		
22	1.15	1.35	0.85	1.80	2.20	8.30	9.94	10.15	50.56	97.45	13.50	10.99		
23	1.15	1.35	0.75	5.20	1.90	8.30	10.15	10.57	51.52	106.05	13.50	7.90		
24	1.15	1.35	0.70	1.40	1.90	8.30	10.36	7.90	48.32	97.04	12.35	7.30		
25	1.15	1.30	0.12	4.45	1.70	8.50	10.15	7.10	30.96	81.64	11.89	6.72		
26	1.15	1.30	0.00	6.15	1.70	8.50	9.10	9.10	24.10	62.70	11.43	8.50		
27	1.15	1.40	0.20	7.10	1.70	8.50	8.90	6.53	20.70	102.00	12.81	8.10		
28	1.15	1.30	1.30	2.40	1.70	8.70	8.90	6.15	18.54	72.45	18.78	17.34		
29	1.15	1.30	1.05	4.90	1.70	8.70	13.74	5.96	16.86	48.64		18.30		
30	1.15	1.25	1.00	4.00	1.70	8.70	19.74	5.77	17.82	38.40		13.27		
31		1.25		3.44	1.70		22.86		17.82	33.04		10.99		
Total	36.50	37.30	23.17	70.64	68.33	207.27	281.65	270.16	1288.78	2354.72	584.63	301.83	5524.98	CMSDAY
Mean	1.22	1.20	0.77	2.28	2.20	6.91	9.09	9.01	41.57	75.96	20.88	9.74	15.14	CMS
Max	1.50	1.40	1.40	7.10	4.60	8.70	22.86	19.50	108.75	110.55	40.50	18.30	110.55	CMS
Min	1.15	1.05	0.00	1.05	1.40	1.40	6.34	4.75	9.52	28.10	11.43	6.53	0.00	CMS
Runoff	3.15	3.22	2.00	6.10	5.90	17.91	24.33	23.34	111.35	203.45	50.51	26.08	477.36	MCM

Momentary Peak 115.05 CMS. at 11.89 m. (MSL.) at 12.00 Hours , on Jan 5 , 2017

Runoff Yield 60.07 Liters/Second/Square KM. Momentary Peak Yield 456.570 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Mueang , Chumphon (X.180)

Lat 10 - 29 - 42 N Long 99 - 10 - 23 E

Location : on left bank at the bridge.

	Ban -	**Amphoe** Mueang	**Changwat** Chumphon
Drainge Area	2,045 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+5.896 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1995 to date		
Rated by Flot	-		
Rated by Current Meter	1995 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

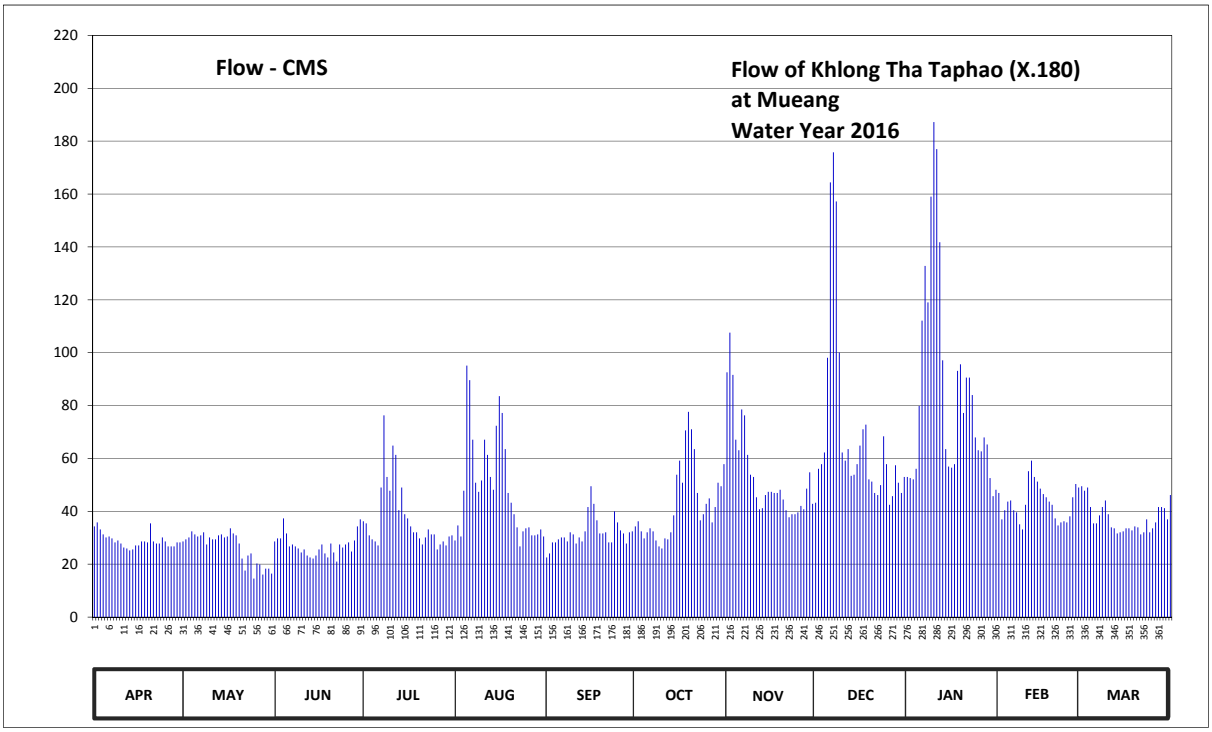
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.29	0.29	0.49	0.30	0.13	0.44	1.78	0.67	0.90	0.76	0.82	
2	0.48	0.31	0.32	0.47	0.45	0.17	0.49	2.08	0.97	0.89	0.51	0.78	
3	0.41	0.33	0.32	0.35	0.34	0.28	0.39	1.76	1.01	0.88	0.60	0.81	
4	0.36	0.39	0.52	0.31	0.78	0.28	0.32	1.22	1.11	0.97	0.68	0.63	
5	0.33	0.36	0.37	0.29	1.83	0.31	0.38	1.13	1.89	1.51	0.69	0.47	
6	0.34	0.34	0.24	0.25	1.72	0.33	0.42	1.48	3.09	2.17	0.60	0.47	
7	0.32	0.35	0.26	0.81	1.22	0.33	0.39	1.43	3.28	2.55	0.58	0.55	
8	0.28	0.38	0.24	1.43	0.85	0.29	0.30	1.09	2.97	2.30	0.46	0.63	
9	0.30	0.26	0.22	0.90	0.77	0.38	0.24	0.92	1.93	3.00	0.41	0.69	
10	0.27	0.33	0.18	0.78	0.87	0.36	0.22	0.90	1.11	3.47	0.65	0.56	
11	0.23	0.31	0.21	1.17	1.22	0.27	0.32	0.72	1.04	3.30	0.95	0.43	
12	0.22	0.31	0.15	1.09	1.09	0.33	0.31	0.61	1.14	2.71	1.04	0.42	
13	0.20	0.35	0.13	0.60	0.90	0.29	0.38	0.62	0.91	1.87	0.90	0.37	
14	0.21	0.36	0.12	0.81	0.79	0.39	0.55	0.74	0.92	1.14	0.86	0.38	
15	0.25	0.33	0.15	0.56	1.34	0.63	0.92	0.77	1.01	0.99	0.80	0.39	
16	0.25	0.34	0.21	0.52	1.59	0.82	1.04	0.77	1.17	0.98	0.75	0.42	
17	0.29	0.42	0.26	0.44	1.45	0.66	0.85	0.76	1.31	1.01	0.72	0.42	
18	0.29	0.37	0.17	0.38	1.14	0.50	1.30	0.76	1.35	1.79	0.68	0.40	
19	0.28	0.35	0.13	0.38	0.76	0.37	1.46	0.79	0.88	1.84	0.65	0.44	
20	0.47	0.27	0.27	0.32	0.67	0.37	1.31	0.70	0.86	1.45	0.52	0.43	
21	0.29	0.12	0.18	0.26	0.56	0.38	1.14	0.60	0.76	1.74	0.45	0.36	
22	0.27	0.00	0.09	0.33	0.43	0.28	0.76	0.53	0.74	1.74	0.48	0.38	
23	0.27	0.15	0.26	0.41	0.24	0.28	0.50	0.56	0.83	1.60	0.49	0.51	
24	0.33	0.17	0.23	0.36	0.39	0.59	0.56	0.56	1.25	1.24	0.48	0.38	
25	0.29	-0.08	0.26	0.36	0.42	0.48	0.66	0.58	1.01	1.13	0.54	0.42	
26	0.24	0.07	0.28	0.21	0.43	0.40	0.71	0.64	0.65	1.12	0.72	0.48	
27	0.24	0.06	0.19	0.26	0.35	0.37	0.48	0.61	0.73	1.24	0.84	0.63	
28	0.24	-0.04	0.30	0.29	0.35	0.27	0.63	0.80	1.00	1.18	0.81	0.63	
29	0.28	0.02	0.44	0.25	0.36	0.38	0.85	0.94	0.85	0.89		0.62	
30	0.28	0.02	0.51	0.34	0.41	0.39	0.82	0.66	0.76	0.73		0.51	
31		-0.03		0.35	0.34		1.01		0.90	0.79		0.74	
Mean	0.30	0.26	0.25	0.51	0.79	0.38	0.65	0.92	1.23	1.58	0.66	0.52	
Max	0.48	0.42	0.52	1.43	1.83	0.82	1.46	2.08	3.28	3.47	1.04	0.82	3.47
Min	0.20	-0.08	0.09	0.21	0.24	0.13	0.22	0.53	0.65	0.73	0.41	0.36	-0.08

Annual Max Momentary Gage Height 3.53 m. (MSL.) , at 12.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -4.88 m. (MSL.)

Left Bank Elevation 5.30 m. (MSL.) ,

Right Bank Elevation 6.46 m. (MSL.) , Drainage Are 2,045 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.32	28.62	28.62	36.22	29.00	22.54	34.32	92.60	43.27	53.00	46.96	49.48	
2	35.84	29.38	29.76	35.46	34.70	24.06	36.22	107.60	56.08	52.56	36.98	47.78	
3	33.18	30.14	29.76	30.90	30.52	28.24	32.42	91.60	57.84	52.12	40.40	49.04	
4	31.28	32.42	37.36	29.38	47.78	28.24	29.76	67.08	62.24	56.08	43.68	41.63	
5	30.14	31.28	31.66	28.62	95.10	29.38	32.04	63.12	98.10	79.86	44.09	35.46	
6	30.52	30.52	26.72	27.10	89.60	30.14	33.56	78.52	164.40	112.10	40.40	35.46	
7	29.76	30.90	27.48	49.04	67.08	30.14	32.42	76.32	175.80	132.80	39.64	38.50	
8	28.24	32.04	26.72	76.32	50.80	28.62	29.00	61.36	157.20	119.00	35.08	41.63	
9	29.00	27.48	25.96	53.00	47.37	32.04	26.72	53.88	100.10	159.00	33.18	44.09	
10	27.86	30.14	24.44	47.78	51.68	31.28	25.96	53.00	62.24	187.20	42.45	38.88	
11	26.34	29.38	25.58	64.88	67.08	27.86	29.76	45.32	59.16	177.00	55.20	33.94	
12	25.96	29.38	23.30	61.36	61.36	30.14	29.38	40.81	63.56	141.78	59.16	33.56	
13	25.20	30.90	22.54	40.40	53.00	28.62	32.04	41.22	53.44	97.10	53.00	31.66	
14	25.58	31.28	22.16	49.04	48.19	32.42	38.50	46.14	53.88	63.56	51.24	32.04	
15	27.10	30.14	23.30	38.88	72.36	41.63	53.88	47.37	57.84	56.96	48.60	32.42	
16	27.10	30.52	25.58	37.36	83.54	49.48	59.16	47.37	64.88	56.52	46.55	33.56	
17	28.62	33.56	27.48	34.32	77.20	42.86	50.80	46.96	71.04	57.84	45.32	33.56	
18	28.62	31.66	24.06	32.04	63.56	36.60	70.60	46.96	72.80	93.10	43.68	32.80	
19	28.24	30.90	22.54	32.04	46.96	31.66	77.64	48.19	52.12	95.60	42.45	34.32	
20	35.46	27.86	27.86	29.76	43.27	31.66	71.04	44.50	51.24	77.20	37.36	33.94	
21	28.62	22.16	24.44	27.48	38.88	32.04	63.56	40.40	46.96	90.60	34.70	31.28	
22	27.86	17.60	21.02	30.14	33.94	28.24	46.96	37.74	46.14	90.60	35.84	32.04	
23	27.86	23.30	27.48	33.18	26.72	28.24	36.60	38.88	49.92	84.00	36.22	36.98	
24	30.14	24.06	26.34	31.28	32.42	40.02	38.88	38.88	68.40	67.96	35.84	32.04	
25	28.62	14.56	27.48	31.28	33.56	35.84	42.86	39.64	57.84	63.12	38.12	33.56	
26	26.72	20.26	28.24	25.58	33.94	32.80	44.91	42.04	42.45	62.68	45.32	35.84	
27	26.72	19.88	24.82	27.48	30.90	31.66	35.84	40.81	45.73	67.96	50.36	41.63	
28	26.72	16.08	29.00	28.62	30.90	27.86	41.63	48.60	57.40	65.32	49.04	41.63	
29	28.24	18.36	34.32	27.10	31.28	32.04	50.80	54.76	50.80	52.56		41.22	
30	28.24	18.36	36.98	30.52	33.18	32.42	49.48	42.86	46.96	45.73		36.98	
31		16.46		30.90	30.52		57.84		53.00	48.19		46.14	
Total	868.10	819.58	813.00	1157.46	1516.39	958.77	1334.58	1624.53	2142.83	2659.10	1210.86	1163.09	16268.29	CMSDAY
Mean	28.94	26.44	27.10	37.34	48.92	31.96	43.05	54.15	69.12	85.78	43.24	37.52	44.57	CMS
Max	35.84	33.56	37.36	76.32	95.10	49.48	77.64	107.60	175.80	187.20	59.16	49.48	187.20	CMS
Min	25.20	14.56	21.02	25.58	26.72	22.54	25.96	37.74	42.45	45.73	33.18	31.28	14.56	CMS
Runoff	75.00	70.81	70.24	100.00	131.02	82.84	115.31	140.36	185.14	229.75	104.62	100.49	1405.58	MCM

Momentary Peak 190.80 CMS. at 3.53 m. (MSL.) at 12.00 Hours , on Jan 10 , 2017

Runoff Yield 21.79 Liters/Second/Square KM. Momentary Peak Yield 93.300 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Upper Khlong Thadee at Ban Wang Sai , Nakhon Si Thammarat (X.200)

Lat 08 - 24 - 32 N Long 99 - 47 - 54 E

Location : on right bank at Ban Wang Sai.

Ban Wang Sai **Amphoe** Lan Saka **Changwat** Nakhon Si Thammar

Drainge Area	83 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +36.394 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Flot	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 34.630 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

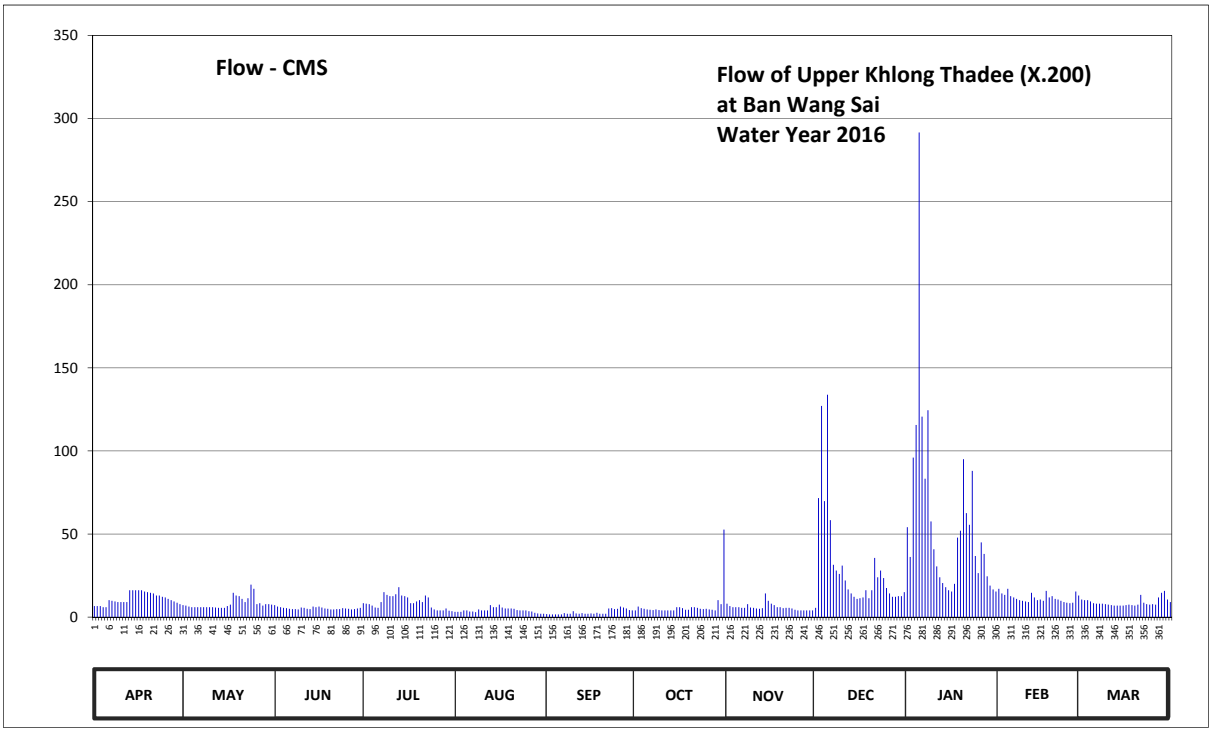
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.62	31.64	31.64	31.68	31.46	31.39	31.50	31.67	31.58	32.53	31.90	31.74	
2	31.62	31.63	31.61	31.67	31.46	31.38	31.61	31.62	32.74	32.27	31.83	31.73	
3	31.62	31.61	31.60	31.66	31.46	31.38	31.57	31.60	33.27	33.00	31.81	31.73	
4	31.60	31.60	31.58	31.63	31.50	31.38	31.55	31.60	32.72	33.18	31.90	31.71	
5	31.60	31.60	31.57	31.59	31.50	31.38	31.53	31.60	33.32	34.22	31.79	31.68	
6	31.73	31.60	31.55	31.58	31.47	31.38	31.52	31.58	32.59	33.22	31.77	31.67	
7	31.72	31.60	31.54	31.70	31.47	31.42	31.51	31.58	32.19	32.87	31.75	31.67	
8	31.71	31.60	31.54	31.85	31.45	31.40	31.53	31.66	32.12	33.25	31.73	31.67	
9	31.70	31.60	31.53	31.81	31.53	31.40	31.51	31.59	32.08	32.58	31.72	31.66	
10	31.70	31.60	31.59	31.79	31.50	31.48	31.50	31.58	32.18	32.34	31.71	31.65	
11	31.70	31.60	31.58	31.79	31.50	31.41	31.50	31.56	32.00	32.17	31.70	31.64	
12	31.70	31.59	31.55	31.82	31.50	31.40	31.50	31.55	31.89	32.04	31.84	31.63	
13	31.88	31.58	31.54	31.92	31.64	31.42	31.50	31.57	31.83	31.97	31.77	31.63	
14	31.88	31.58	31.61	31.80	31.60	31.40	31.50	31.83	31.78	31.92	31.73	31.63	
15	31.88	31.58	31.60	31.79	31.60	31.40	31.60	31.72	31.75	31.88	31.74	31.63	
16	31.88	31.62	31.61	31.77	31.65	31.41	31.60	31.67	31.76	31.86	31.72	31.64	
17	31.88	31.65	31.59	31.68	31.59	31.40	31.57	31.64	31.77	31.96	31.87	31.65	
18	31.86	31.84	31.56	31.68	31.56	31.43	31.52	31.60	31.88	32.44	31.77	31.64	
19	31.85	31.80	31.55	31.71	31.56	31.40	31.52	31.60	31.76	32.50	31.79	31.63	
20	31.84	31.79	31.53	31.73	31.56	31.40	31.60	31.57	31.88	32.99	31.75	31.65	
21	31.83	31.75	31.53	31.70	31.55	31.40	31.60	31.58	32.26	32.64	31.74	31.81	
22	31.80	31.70	31.54	31.80	31.51	31.56	31.58	31.58	32.04	32.55	31.72	31.69	
23	31.80	31.76	31.54	31.77	31.50	31.57	31.55	31.56	32.12	32.92	31.70	31.66	
24	31.78	31.95	31.57	31.59	31.50	31.54	31.54	31.52	32.03	32.28	31.69	31.65	
25	31.77	31.90	31.56	31.53	31.50	31.55	31.55	31.50	31.91	32.09	31.68	31.66	
26	31.75	31.66	31.55	31.50	31.48	31.61	31.53	31.50	31.83	32.40	31.69	31.65	
27	31.73	31.68	31.53	31.50	31.47	31.59	31.52	31.50	31.78	32.30	31.86	31.77	
28	31.71	31.63	31.54	31.50	31.43	31.56	31.50	31.50	31.78	32.05	31.80	31.84	
29	31.69	31.66	31.56	31.56	31.41	31.51	31.73	31.50	31.79	31.94		31.87	
30	31.66	31.66	31.58	31.49	31.40	31.50	31.66	31.50	31.79	31.89		31.74	
31		31.65		31.48	31.40		32.51		31.85	31.86		31.70	
Mean	31.75	31.67	31.57	31.68	31.51	31.45	31.58	31.59	32.07	32.46	31.77	31.69	
Max	31.88	31.95	31.64	31.92	31.65	31.61	32.51	31.83	33.32	34.22	31.90	31.87	34.22
Min	31.60	31.58	31.53	31.48	31.40	31.38	31.50	31.50	31.58	31.86	31.68	31.63	31.38

Annual Max Momentary Gage Height 35.60 m. (MSL.) , at 09.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 29.78 m. (MSL.)

Left Bank Elevation 34.94 m. (MSL.) ,

Right Bank Elevation 34.62 m. (MSL.) , Drainage Are 83 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.60	7.20	7.20	8.40	3.20	1.80	4.00	8.10	5.60	54.10	17.00	10.60	
2	6.60	6.90	6.30	8.10	3.20	1.60	6.30	6.60	71.60	36.20	14.20	10.20	
3	6.60	6.30	6.00	7.80	3.20	1.60	5.40	6.00	127.10	96.00	13.40	10.20	
4	6.00	6.00	5.60	6.90	4.00	1.60	5.00	6.00	69.80	115.60	17.00	9.40	
5	6.00	6.00	5.40	5.80	4.00	1.60	4.60	6.00	133.80	291.60	12.60	8.40	
6	10.20	6.00	5.00	5.60	3.40	1.60	4.40	5.60	58.30	120.60	11.80	8.10	
7	9.80	6.00	4.80	9.00	3.40	2.40	4.20	5.60	31.50	83.30	11.00	8.10	
8	9.40	6.00	4.80	15.00	3.00	2.00	4.60	7.80	28.00	124.50	10.20	8.10	
9	9.00	6.00	4.60	13.40	4.60	2.00	4.20	5.80	26.00	57.60	9.80	7.80	
10	9.00	6.00	5.80	12.60	4.00	3.60	4.00	5.60	31.00	40.80	9.40	7.50	
11	9.00	6.00	5.60	12.60	4.00	2.20	4.00	5.20	22.00	30.50	9.00	7.20	
12	9.00	5.80	5.00	13.80	4.00	2.00	4.00	5.00	16.60	24.00	14.60	6.90	
13	16.20	5.60	4.80	18.00	7.20	2.40	4.00	5.40	14.20	20.50	11.80	6.90	
14	16.20	5.60	6.30	13.00	6.00	2.00	4.00	14.20	12.20	18.00	10.20	6.90	
15	16.20	5.60	6.00	12.60	6.00	2.00	6.00	9.80	11.00	16.20	10.60	6.90	
16	16.20	6.60	6.30	11.80	7.50	2.20	6.00	8.10	11.40	15.40	9.80	7.20	
17	16.20	7.50	5.80	8.40	5.80	2.00	5.40	7.20	11.80	20.00	15.80	7.50	
18	15.40	14.60	5.20	8.40	5.20	2.60	4.40	6.00	16.20	47.80	11.80	7.20	
19	15.00	13.00	5.00	9.40	5.20	2.00	4.40	6.00	11.40	52.00	12.60	6.90	
20	14.60	12.60	4.60	10.20	5.20	2.00	6.00	5.40	16.20	95.00	11.00	7.50	
21	14.20	11.00	4.60	9.00	5.00	2.00	6.00	5.60	35.60	62.60	10.60	13.40	
22	13.00	9.00	4.80	13.00	4.20	5.20	5.60	5.60	24.00	55.50	9.80	8.70	
23	13.00	11.40	4.80	11.80	4.00	5.40	5.00	5.20	28.00	88.00	9.00	7.80	
24	12.20	19.50	5.40	5.80	4.00	4.80	4.80	4.40	23.50	36.80	8.70	7.50	
25	11.80	17.00	5.20	4.60	4.00	5.00	5.00	4.00	17.50	26.50	8.40	7.80	
26	11.00	7.80	5.00	4.00	3.60	6.30	4.60	4.00	14.20	45.00	8.70	7.50	
27	10.20	8.40	4.60	4.00	3.40	5.80	4.40	4.00	12.20	38.00	15.40	11.80	
28	9.40	6.90	4.80	4.00	2.60	5.20	4.00	4.00	12.20	24.50	13.00	14.60	
29	8.70	7.80	5.20	5.20	2.20	4.20	10.20	4.00	12.60	19.00		15.80	
30	7.80	7.80	5.60	3.80	2.00	4.00	7.80	4.00	12.60	16.60		10.60	
31		7.50		3.60	2.00		52.70		15.00	15.40		9.00	
Total	334.50	259.40	160.10	279.60	129.10	89.10	205.00	180.20	933.10	1787.60	327.20	274.00	4958.90 CMSDAY
Mean	11.15	8.37	5.34	9.02	4.16	2.97	6.61	6.01	30.10	57.66	11.69	8.84	13.59 CMS
Max	16.20	19.50	7.20	18.00	7.50	6.30	52.70	14.20	133.80	291.60	17.00	15.80	291.60 CMS
Min	6.00	5.60	4.60	3.60	2.00	1.60	4.00	4.00	5.60	15.40	8.40	6.90	1.60 CMS
Runoff	28.90	22.41	13.83	24.16	11.15	7.70	17.71	15.57	80.62	154.45	28.27	23.67	428.45 MCM

Momentary Peak 723.00 CMS. at 35.60 m. (MSL.) at 09.00 Hours , on Jan 5 , 2017

Runoff Yield 163.69 Liters/Second/Square KM. Momentary Peak Yield 8710.840 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon (X.201A)

Lat 10 - 30 - 12 N Long 98 - 57 - 52 E

Location : on right bank at the bridge.

	Ban Tha Mai Lai **Amphoe** Mueang **Changwat** Chumphon
Drainge Area	122 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+36.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +42.715 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2009 to date
Rating Operation	
Period of Rating	2009 to date
Rated by Flot	-
Rated by Current Meter	2009 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 39.300 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

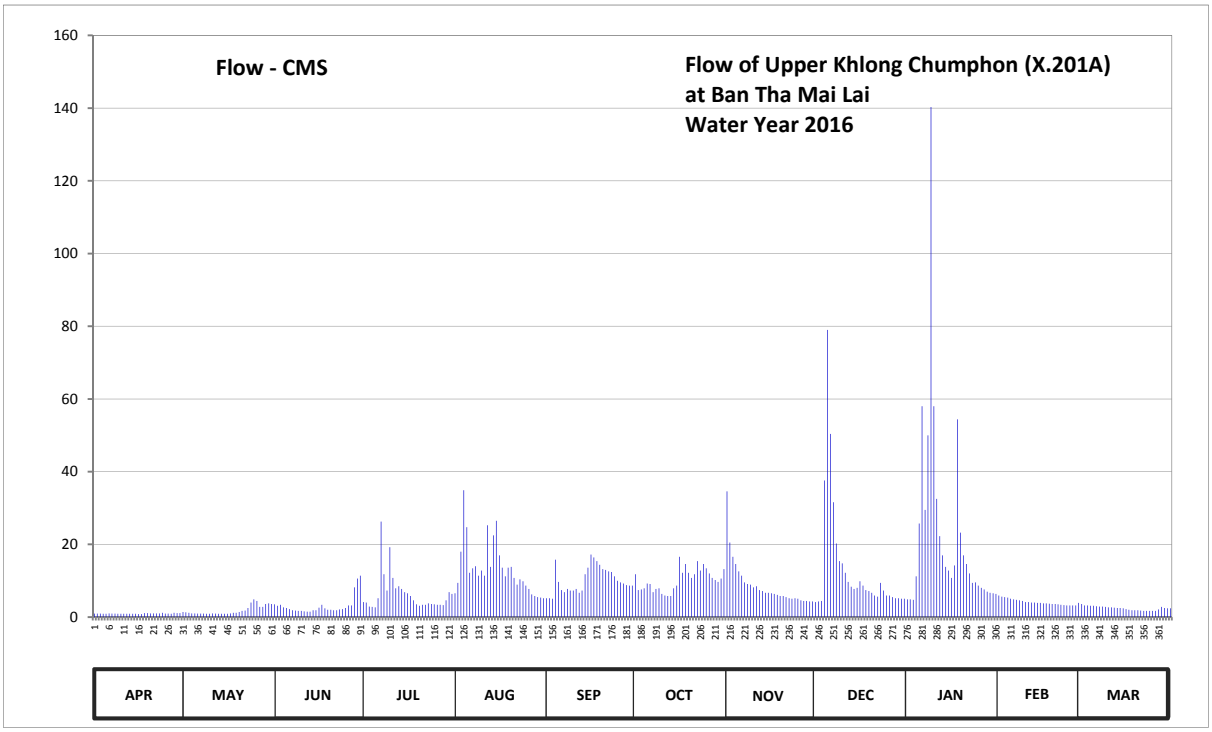
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.99	37.04	37.25	37.31	37.47	37.38	37.79	38.72	37.31	37.36	37.43	37.26	
2	36.99	37.03	37.21	37.30	37.66	37.38	37.53	38.20	37.32	37.36	37.41	37.22	
3	36.99	37.02	37.24	37.19	38.10	37.37	37.54	38.03	37.33	37.35	37.40	37.22	
4	36.98	37.00	37.17	37.18	38.73	37.99	37.56	37.93	38.82	37.76	37.39	37.21	
5	36.98	37.00	37.15	37.17	38.37	37.68	37.65	37.83	39.82	38.41	37.37	37.21	
6	37.00	36.99	37.12	37.38	37.81	37.53	37.64	37.77	39.16	39.35	37.36	37.20	
7	36.99	36.99	37.09	38.43	37.87	37.49	37.49	37.67	38.62	38.55	37.35	37.19	
8	36.99	36.99	37.08	37.79	37.90	37.55	37.55	37.64	38.19	39.15	37.34	37.19	
9	36.98	36.98	37.07	37.52	37.77	37.52	37.56	37.63	37.97	40.89	37.33	37.18	
10	36.98	36.98	37.07	38.15	37.84	37.52	37.46	37.58	37.94	39.35	37.31	37.17	
11	36.98	37.00	37.06	37.74	37.77	37.55	37.43	37.60	37.81	38.65	37.31	37.17	
12	36.98	36.99	37.05	37.56	38.39	37.48	37.42	37.53	37.68	38.27	37.30	37.16	
13	36.98	36.98	37.05	37.60	37.89	37.52	37.42	37.51	37.59	38.05	37.30	37.15	
14	36.98	36.98	37.09	37.55	38.28	37.79	37.56	37.48	37.55	37.89	37.29	37.15	
15	36.98	36.98	37.09	37.49	38.44	37.88	37.61	37.48	37.57	37.84	37.29	37.14	
16	36.97	36.98	37.16	37.47	38.05	38.06	38.03	37.47	37.69	37.74	37.28	37.12	
17	36.97	37.00	37.24	37.42	37.88	38.02	37.81	37.46	37.61	37.91	37.28	37.10	
18	37.01	37.02	37.14	37.34	37.76	37.97	37.93	37.44	37.53	39.26	37.27	37.09	
19	37.01	37.02	37.10	37.25	37.88	37.92	37.81	37.42	37.51	38.31	37.26	37.09	
20	37.00	37.04	37.10	37.21	37.89	37.86	37.74	37.42	37.48	38.05	37.26	37.09	
21	37.00	37.07	37.09	37.24	37.74	37.85	37.79	37.40	37.43	37.93	37.25	37.08	
22	37.00	37.08	37.09	37.24	37.63	37.83	37.97	37.38	37.41	37.80	37.24	37.07	
23	37.00	37.15	37.11	37.28	37.72	37.82	37.84	37.37	37.66	37.66	37.23	37.07	
24	37.02	37.30	37.12	37.26	37.69	37.76	37.93	37.38	37.52	37.67	37.22	37.07	
25	36.99	37.36	37.15	37.25	37.61	37.70	37.87	37.37	37.43	37.61	37.22	37.07	
26	36.99	37.33	37.22	37.24	37.55	37.67	37.80	37.34	37.43	37.57	37.22	37.07	
27	36.98	37.18	37.22	37.24	37.45	37.65	37.74	37.33	37.40	37.54	37.22	37.11	
28	37.02	37.18	37.58	37.23	37.42	37.62	37.71	37.33	37.38	37.50	37.29	37.18	
29	37.01	37.26	37.73	37.34	37.40	37.61	37.68	37.32	37.38	37.48		37.15	
30	37.01	37.28	37.77	37.49	37.39	37.61	37.73	37.32	37.37	37.47		37.14	
31		37.26		37.46	37.38		37.86		37.37	37.46		37.14	
Mean	36.99	37.08	37.19	37.43	37.83	37.69	37.69	37.58	37.75	38.10	37.30	37.14	
Max	37.02	37.36	37.77	38.43	38.73	38.06	38.03	38.72	39.82	40.89	37.43	37.26	40.89
Min	36.97	36.98	37.05	37.17	37.38	37.37	37.42	37.32	37.31	37.35	37.22	37.07	36.97

Annual Max Momentary Gage Height 43.00 m. (MSL.) , at 04.00 Hours , on Jan 9 , 2017

Zero Gage at Bottom Elevation 36.00 m. (MSL.) , River Bed 36.41 m. (MSL.)

Left Bank Elevation 39.29 m. (MSL.) ,

Right Bank Elevation 41.19 m. (MSL.) , Drainage Are 122 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	1.40	3.50	4.15	6.55	5.20	11.80	34.60	4.15	4.90	5.95	3.60	
2	0.95	1.30	3.10	4.00	9.40	5.20	7.45	20.50	4.30	4.90	5.65	3.20	
3	0.95	1.20	3.40	2.90	18.00	5.05	7.60	16.60	4.45	4.75	5.50	3.20	
4	0.90	1.00	2.70	2.80	34.90	15.80	7.90	14.60	37.60	11.20	5.35	3.10	
5	0.90	1.00	2.50	2.70	24.75	9.70	9.25	12.60	79.00	25.75	5.05	3.10	
6	1.00	0.95	2.20	5.20	12.20	7.45	9.10	11.40	50.40	58.00	4.90	3.00	
7	0.95	0.95	1.90	26.25	13.40	6.85	6.85	9.55	31.60	29.50	4.75	2.90	
8	0.95	0.95	1.80	11.80	14.00	7.75	7.75	9.10	20.25	50.00	4.60	2.90	
9	0.90	0.90	1.70	7.30	11.40	7.30	7.90	8.95	15.40	140.30	4.45	2.80	
10	0.90	0.90	1.70	19.25	12.80	7.30	6.40	8.20	14.80	58.00	4.15	2.70	
11	0.90	1.00	1.60	10.80	11.40	7.75	5.95	8.50	12.20	32.50	4.15	2.70	
12	0.90	0.95	1.50	7.90	25.25	6.70	5.80	7.45	9.70	22.25	4.00	2.60	
13	0.90	0.90	1.50	8.50	13.80	7.30	5.80	7.15	8.35	17.00	4.00	2.50	
14	0.90	0.90	1.90	7.75	22.50	11.80	7.90	6.70	7.75	13.80	3.90	2.50	
15	0.90	0.90	1.90	6.85	26.50	13.60	8.65	6.70	8.05	12.80	3.90	2.40	
16	0.85	0.90	2.60	6.55	17.00	17.20	16.60	6.55	9.85	10.80	3.80	2.20	
17	0.85	1.00	3.40	5.80	13.60	16.40	12.20	6.40	8.65	14.20	3.80	2.00	
18	1.10	1.20	2.40	4.60	11.20	15.40	14.60	6.10	7.45	54.40	3.70	1.90	
19	1.10	1.20	2.00	3.50	13.60	14.40	12.20	5.80	7.15	23.25	3.60	1.90	
20	1.00	1.40	2.00	3.10	13.80	13.20	10.80	5.80	6.70	17.00	3.60	1.90	
21	1.00	1.70	1.90	3.40	10.80	13.00	11.80	5.50	5.95	14.60	3.50	1.80	
22	1.00	1.80	1.90	3.40	8.95	12.60	15.40	5.20	5.65	12.00	3.40	1.70	
23	1.00	2.50	2.10	3.80	10.40	12.40	12.80	5.05	9.40	9.40	3.30	1.70	
24	1.20	4.00	2.20	3.60	9.85	11.20	14.60	5.20	7.30	9.55	3.20	1.70	
25	0.95	4.90	2.50	3.50	8.65	10.00	13.40	5.05	5.95	8.65	3.20	1.70	
26	0.95	4.45	3.20	3.40	7.75	9.55	12.00	4.60	5.95	8.05	3.20	1.70	
27	0.90	2.80	3.20	3.40	6.25	9.25	10.80	4.45	5.50	7.60	3.20	2.10	
28	1.20	2.80	8.20	3.30	5.80	8.80	10.20	4.45	5.20	7.00	3.90	2.80	
29	1.10	3.60	10.60	4.60	5.50	8.65	9.70	4.30	5.20	6.70		2.50	
30	1.10	3.80	11.40	6.85	5.35	8.65	10.60	4.30	5.05	6.55		2.40	
31		3.60		6.40	5.20		13.20		5.05	6.40		2.40	
Total	29.15	56.85	92.50	197.35	410.55	305.45	317.00	261.35	414.00	701.80	115.70	75.60	2977.30	CMSDAY
Mean	0.97	1.83	3.08	6.37	13.24	10.18	10.23	8.71	13.35	22.64	4.13	2.44	8.16	CMS
Max	1.20	4.90	11.40	26.25	34.90	17.20	16.60	34.60	79.00	140.30	5.95	3.60	140.30	CMS
Min	0.85	0.90	1.50	2.70	5.20	5.05	5.80	4.30	4.15	4.75	3.20	1.70	0.85	CMS
Runoff	2.52	4.91	7.99	17.05	35.47	26.39	27.39	22.58	35.77	60.64	10.00	6.53	257.24	MCM

Momentary Peak 334.00 CMS. at 43.00 m. (MSL.) at 04.00 Hours , on Jan 9 , 2017

Runoff Yield 61.46 Liters/Second/Square KM. Momentary Peak Yield 2516.770 Liters/Second/Square KM.

WATER YEAR : 2016

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 Thammar

Drainge Area	120 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +11.529 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

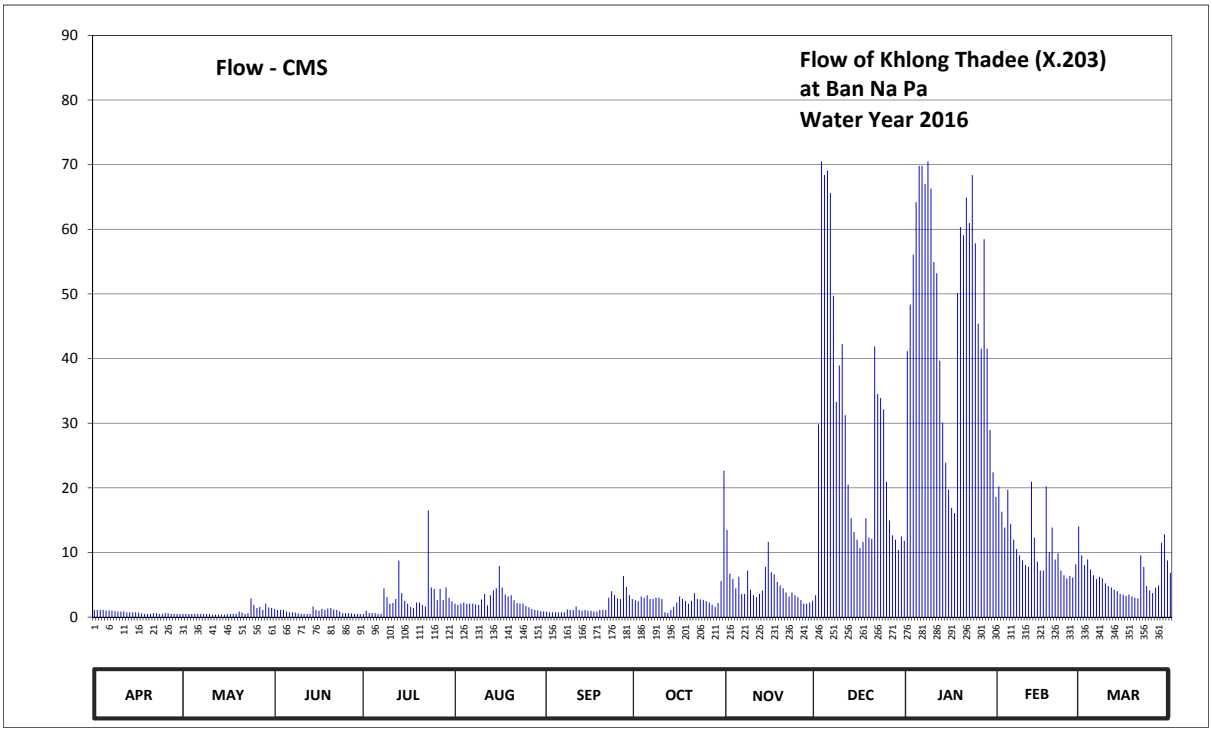
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.10	8.00	8.12	8.00	8.22	8.06	8.28	9.10	8.36	10.15	9.43	8.86	
2	8.10	8.00	8.10	8.08	8.20	8.04	8.26	8.66	9.80	10.33	9.25	8.76	
3	8.10	8.00	8.10	8.02	8.22	8.04	8.34	8.59	10.70	10.48	9.12	8.82	
4	8.10	8.00	8.10	8.02	8.24	8.04	8.32	8.46	10.67	10.61	9.41	8.71	
5	8.09	8.00	8.06	8.02	8.22	8.04	8.36	8.62	10.68	10.69	9.15	8.64	
6	8.09	8.00	8.04	8.00	8.22	8.04	8.30	8.38	10.63	10.69	9.01	8.59	
7	8.08	8.00	8.04	8.00	8.22	8.04	8.30	8.38	10.36	10.65	8.92	8.62	
8	8.07	8.00	8.03	8.46	8.21	8.11	8.32	8.70	9.92	10.70	8.86	8.60	
9	8.06	8.00	8.01	8.33	8.20	8.10	8.32	8.44	10.09	10.64	8.81	8.53	
10	8.06	8.00	8.00	8.22	8.29	8.10	8.30	8.36	10.18	10.46	8.76	8.49	
11	8.06	7.98	8.00	8.23	8.38	8.17	8.04	8.33	9.85	10.43	8.74	8.47	
12	8.04	7.98	8.00	8.30	8.19	8.10	8.02	8.38	9.44	10.11	9.46	8.44	
13	8.04	7.98	8.00	8.81	8.36	8.08	8.10	8.43	9.20	9.81	9.03	8.42	
14	8.04	7.98	8.17	8.39	8.43	8.10	8.16	8.74	9.08	9.58	8.80	8.38	
15	8.04	7.98	8.10	8.27	8.46	8.08	8.24	8.99	9.01	9.41	8.70	8.37	
16	8.03	8.00	8.08	8.22	8.75	8.08	8.34	8.68	8.93	9.28	8.70	8.35	
17	8.01	8.00	8.12	8.16	8.47	8.06	8.30	8.65	8.99	9.24	9.43	8.37	
18	8.00	8.00	8.10	8.14	8.37	8.06	8.27	8.55	9.20	10.37	8.89	8.34	
19	8.00	8.00	8.13	8.24	8.34	8.10	8.22	8.50	9.03	10.55	9.12	8.32	
20	8.00	8.06	8.14	8.24	8.36	8.10	8.27	8.46	9.02	10.53	8.82	8.31	
21	8.02	8.03	8.11	8.20	8.28	8.10	8.39	8.40	10.17	10.62	8.88	8.86	
22	8.02	8.00	8.10	8.17	8.23	8.32	8.30	8.34	9.96	10.56	8.70	8.74	
23	8.00	8.02	8.06	9.26	8.22	8.42	8.29	8.40	9.94	10.67	8.64	8.49	
24	8.00	8.31	8.02	8.47	8.22	8.36	8.28	8.36	9.88	10.51	8.60	8.43	
25	8.02	8.20	8.02	8.45	8.18	8.31	8.26	8.33	9.46	10.26	8.63	8.39	
26	8.02	8.14	8.02	8.28	8.15	8.30	8.24	8.28	9.18	10.16	8.61	8.47	
27	8.00	8.16	8.01	8.45	8.12	8.63	8.20	8.22	9.05	10.52	8.77	8.50	
28	8.00	8.10	8.00	8.28	8.10	8.48	8.16	8.22	9.01	10.16	9.13	8.98	
29	8.00	8.22	8.00	8.47	8.09	8.36	8.23	8.24	8.91	9.77		9.06	
30	8.00	8.15	8.00	8.32	8.07	8.30	8.56	8.27	9.04	9.52		8.81	
31		8.14		8.26	8.06		9.53		9.00	9.36		8.67	
Mean	8.04	8.05	8.06	8.28	8.26	8.17	8.31	8.48	9.57	10.22	8.94	8.57	
Max	8.10	8.31	8.17	9.26	8.75	8.63	9.53	9.10	10.70	10.70	9.46	9.06	10.70
Min	8.00	7.98	8.00	8.00	8.06	8.04	8.02	8.22	8.36	9.24	8.60	8.31	7.98

Annual Max Momentary Gage Height 10.76 m. (MSL.) , at 21.00 Hours , on Dec 3 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 7.10 m. (MSL.)

Left Bank Elevation 11.73 m. (MSL.) ,

Right Bank Elevation 11.93 m. (MSL.) , Drainage Are 120 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	0.50	1.26	0.50	2.08	0.86	2.62	13.50	3.40	41.15	20.22	9.56		
2	1.10	0.50	1.10	0.98	1.90	0.74	2.44	6.72	29.80	48.35	16.30	8.04		
3	1.10	0.50	1.10	0.62	2.08	0.74	3.20	5.89	70.50	56.06	13.86	8.92		
4	1.10	0.50	1.10	0.62	2.26	0.74	3.00	4.46	68.40	64.20	19.74	7.34		
5	1.04	0.50	0.86	0.62	2.08	0.74	3.40	6.24	69.10	69.80	14.40	6.48		
6	1.04	0.50	0.74	0.50	2.08	0.74	2.80	3.60	65.60	69.80	11.97	5.89		
7	0.98	0.50	0.74	0.50	2.08	0.74	2.80	3.60	49.70	67.00	10.52	6.24		
8	0.92	0.50	0.68	4.46	1.99	1.18	3.00	7.20	33.30	70.50	9.56	6.00		
9	0.86	0.50	0.56	3.10	1.90	1.10	3.00	4.24	38.94	66.30	8.76	5.23		
10	0.86	0.50	0.50	2.08	2.71	1.10	2.80	3.40	42.26	54.92	8.04	4.79		
11	0.86	0.40	0.50	2.17	3.60	1.66	0.74	3.10	31.25	53.21	7.76	4.57		
12	0.74	0.40	0.50	2.80	1.82	1.10	0.62	3.60	20.46	39.67	20.94	4.24		
13	0.74	0.40	0.50	8.76	3.40	0.98	1.10	4.13	15.30	30.09	12.31	4.02		
14	0.74	0.40	1.66	3.70	4.13	1.10	1.58	7.76	13.16	23.90	8.60	3.60		
15	0.74	0.40	1.10	2.53	4.46	0.98	2.26	11.64	11.97	19.74	7.20	3.50		
16	0.68	0.50	0.98	2.08	7.90	0.98	3.20	6.96	10.68	16.90	7.20	3.30		
17	0.56	0.50	1.26	1.58	4.57	0.86	2.80	6.60	11.64	16.10	20.22	3.50		
18	0.50	0.50	1.10	1.42	3.50	0.86	2.53	5.45	15.30	50.15	10.04	3.20		
19	0.50	0.50	1.34	2.26	3.20	1.10	2.08	4.90	12.31	60.35	13.86	3.00		
20	0.50	0.86	1.42	2.26	3.40	1.10	2.53	4.46	12.14	59.09	8.92	2.90		
21	0.62	0.68	1.18	1.90	2.62	1.10	3.70	3.80	41.89	64.90	9.88	9.56		
22	0.62	0.50	1.10	1.66	2.17	3.00	2.80	3.20	34.50	60.98	7.20	7.76		
23	0.50	0.62	0.86	16.50	2.08	4.02	2.71	3.80	33.90	68.40	6.48	4.79		
24	0.50	2.90	0.62	4.57	2.08	3.40	2.62	3.40	32.12	57.83	6.00	4.13		
25	0.62	1.90	0.62	4.35	1.74	2.90	2.44	3.10	20.94	45.40	6.36	3.70		
26	0.62	1.42	0.62	2.62	1.50	2.80	2.26	2.62	14.94	41.52	6.12	4.57		
27	0.50	1.58	0.56	4.35	1.26	6.36	1.90	2.08	12.65	58.46	8.18	4.90		
28	0.50	1.10	0.50	2.62	1.10	4.68	1.58	2.08	11.97	41.52	14.04	11.48		
29	0.50	2.08	0.50	4.57	1.04	3.40	2.17	2.26	10.36	28.96		12.82		
30	0.50	1.50	0.50	3.00	0.92	2.80	5.56	2.53	12.48	22.40		8.76		
31		1.42		2.44	0.86		22.65		11.80	18.62		6.84		
Total	22.14	25.56	26.06	92.12	78.51	53.86	98.89	146.32	862.76	1486.27	314.68	183.63	3390.80	CMSDAY
Mean	0.74	0.82	0.87	2.97	2.53	1.80	3.19	4.88	27.83	47.94	11.24	5.92	9.29	CMS
Max	1.10	2.90	1.66	16.50	7.90	6.36	22.65	13.50	70.50	70.50	20.94	12.82	70.50	CMS
Min	0.50	0.40	0.50	0.50	0.86	0.74	0.62	2.08	3.40	16.10	6.00	2.90	0.40	CMS
Runoff	1.91	2.21	2.25	7.96	6.78	4.65	8.54	12.64	74.54	128.41	27.19	15.87	292.97	MCM

Momentary Peak 75.60 CMS. at 10.76 m. (MSL.) at 21.00 Hours , on Dec 3 , 2016

Runoff Yield 77.38 Liters/Second/Square KM. Momentary Peak Yield 629.740 Liters/Second/Square KM.

WATER YEAR : 2016

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.

	Ban -	**Amphoe** Lang Suan	**Changwat** Chumphon
Drainge Area	1,406 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+9.486 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation + 7.530 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

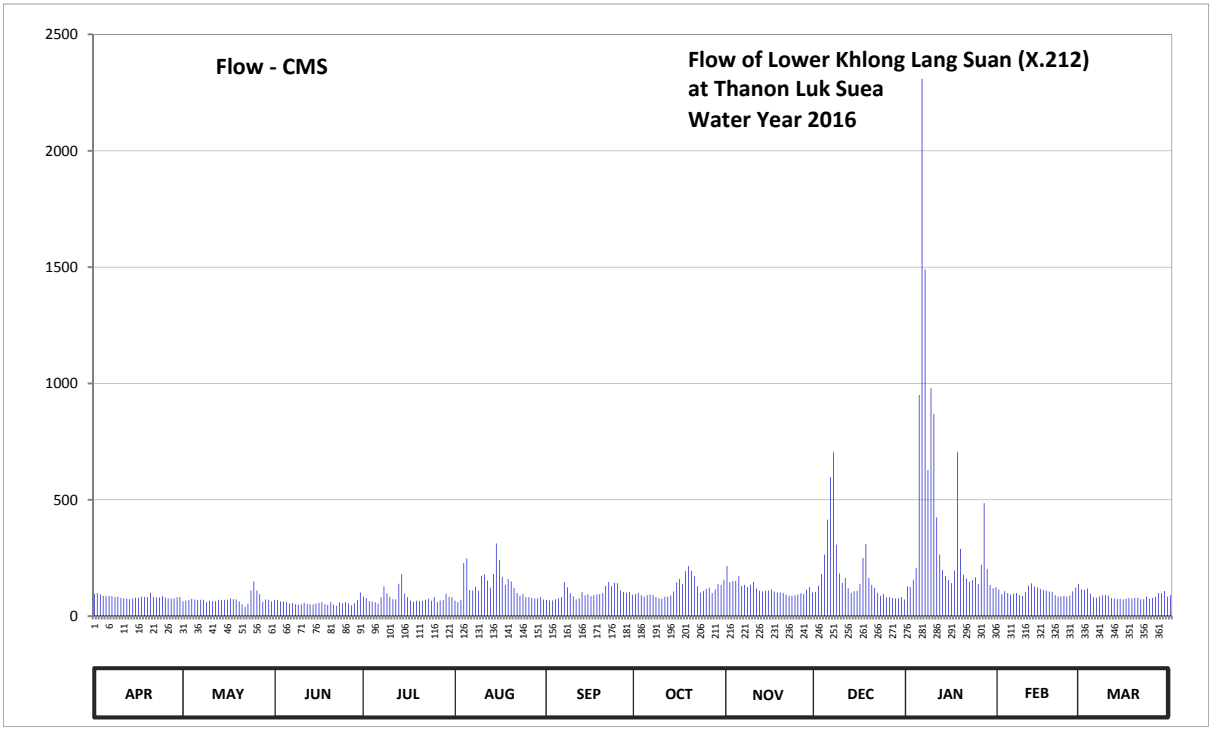
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.10	0.15	0.32	0.13	0.16	0.44	1.46	0.53	0.76	0.63	0.64	
2	0.49	0.13	0.17	0.25	0.06	0.14	0.49	0.92	0.79	0.74	0.43	0.62	
3	0.42	0.15	0.09	0.11	0.17	0.14	0.39	0.97	1.20	1.01	0.56	0.67	
4	0.36	0.21	0.08	0.09	1.55	0.20	0.32	0.97	1.78	1.41	0.48	0.45	
5	0.34	0.18	0.05	0.05	1.67	0.24	0.38	1.14	2.65	4.75	0.42	0.28	
6	0.35	0.16	-0.01	-0.02	0.62	0.30	0.42	0.78	3.47	7.89	0.46	0.27	
7	0.34	0.17	0.01	0.28	0.60	0.92	0.39	0.82	3.90	6.21	0.49	0.32	
8	0.30	0.17	-0.05	0.76	0.75	0.73	0.30	0.74	2.04	3.59	0.39	0.38	
9	0.31	0.06	-0.07	0.47	0.58	0.47	0.24	0.83	1.22	4.85	0.35	0.39	
10	0.26	0.12	-0.05	0.31	1.15	0.33	0.22	0.94	0.90	4.48	0.52	0.37	
11	0.24	0.10	0.02	0.20	1.19	0.18	0.32	0.68	1.08	2.70	0.79	0.25	
12	0.22	0.11	-0.04	0.19	0.98	0.24	0.31	0.58	0.69	1.78	0.88	0.24	
13	0.19	0.16	-0.05	0.86	0.71	0.53	0.38	0.55	0.49	1.34	0.75	0.20	
14	0.22	0.17	-0.06	1.20	1.21	0.38	0.55	0.58	0.56	1.15	0.71	0.21	
15	0.27	0.15	-0.02	0.45	2.07	0.43	0.92	0.59	0.58	1.00	0.66	0.19	
16	0.27	0.17	0.02	0.29	1.63	0.34	1.04	0.63	0.85	0.89	0.61	0.22	
17	0.31	0.23	0.05	0.14	1.11	0.38	0.85	0.55	1.69	1.32	0.58	0.26	
18	0.30	0.20	-0.04	0.08	0.82	0.42	1.30	0.50	2.06	3.90	0.55	0.23	
19	0.30	0.19	-0.09	0.12	1.04	0.44	1.46	0.50	1.07	1.93	0.53	0.26	
20	0.49	0.09	0.06	0.11	0.95	0.48	1.31	0.48	0.81	1.18	0.39	0.26	
21	0.30	-0.06	-0.07	0.12	0.70	0.78	1.14	0.41	0.70	1.05	0.31	0.19	
22	0.28	-0.20	-0.13	0.17	0.49	0.93	0.76	0.36	0.49	0.94	0.33	0.20	
23	0.28	-0.03	0.04	0.21	0.36	0.77	0.50	0.36	0.36	1.00	0.35	0.33	
24	0.34	0.60	-0.01	0.12	0.44	0.90	0.56	0.38	0.44	1.10	0.32	0.22	
25	0.28	0.95	0.05	0.30	0.29	0.89	0.66	0.41	0.29	0.85	0.37	0.25	
26	0.23	0.59	0.00	0.06	0.30	0.59	0.71	0.47	0.30	1.50	0.55	0.31	
27	0.23	0.43	-0.11	0.13	0.26	0.53	0.48	0.43	0.26	3.01	0.71	0.48	
28	0.24	0.07	0.01	0.15	0.23	0.49	0.63	0.63	0.23	1.37	0.86	0.48	
29	0.29	0.19	0.15	0.45	0.24	0.53	0.85	0.74	0.24	0.82		0.57	
30	0.30	0.17	0.51	0.31	0.30	0.41	0.82	0.51	0.30	0.69		0.32	
31		0.09		0.29	0.18		1.01		0.18	0.73		0.39	
Mean	0.31	0.21	0.04	0.29	0.73	0.48	0.65	0.66	1.04	2.13	0.54	0.34	
Max	0.49	0.95	0.51	1.20	2.07	0.93	1.46	1.46	3.90	7.89	0.88	0.67	7.89
Min	0.19	-0.20	-0.13	-0.02	0.06	0.14	0.22	0.36	0.18	0.69	0.31	0.19	-0.20

Annual Max Momentary Gage Height 8.03 m. (MSL.) , at 11.00 Hours , on Jan 6 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -5.38 m. (MSL.)

Left Bank Elevation 7.52 m. (MSL.) ,

Right Bank Elevation 7.59 m. (MSL.) , Drainage Are 1,406 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	96.00	64.00	68.50	83.80	66.70	69.40	95.00	215.00	104.00	127.60	114.00	115.00	
2	100.00	66.70	70.30	77.50	60.40	67.60	100.00	145.40	130.90	125.40	94.00	113.00	
3	93.00	68.50	63.10	64.90	70.30	67.60	90.10	151.40	180.00	156.20	107.00	118.00	
4	87.40	73.90	62.20	63.10	228.50	73.00	83.80	151.40	264.80	207.50	99.00	96.00	
5	85.60	71.20	59.50	59.50	247.20	76.60	89.20	172.20	414.50	950.00	93.00	80.20	
6	86.50	69.40	54.20	53.40	113.00	82.00	93.00	129.80	597.50	2309.50	97.00	79.30	
7	85.60	70.30	55.90	80.20	111.00	145.40	90.10	134.20	705.00	1489.50	100.00	83.80	
8	82.00	70.30	51.00	127.60	126.50	124.30	82.00	125.40	306.80	627.50	90.10	89.20	
9	82.90	60.40	49.40	98.00	109.00	98.00	76.60	135.30	182.60	980.00	86.50	90.10	
10	78.40	65.80	51.00	82.90	173.50	84.70	74.80	147.80	143.00	869.00	103.00	88.30	
11	76.60	64.00	56.80	73.00	178.70	71.20	83.80	119.00	164.60	424.00	130.90	77.50	
12	74.80	64.90	51.80	72.10	152.60	76.60	82.90	109.00	120.00	264.80	140.80	76.60	
13	72.10	69.40	51.00	138.60	122.10	104.00	89.20	106.00	100.00	198.20	126.50	73.00	
14	74.80	70.30	50.20	180.00	181.30	89.20	106.00	109.00	107.00	173.50	122.10	73.90	
15	79.30	68.50	53.40	96.00	311.90	94.00	145.40	110.00	109.00	155.00	117.00	72.10	
16	79.30	70.30	56.80	81.10	240.80	85.60	159.80	114.00	137.50	141.90	112.00	74.80	
17	82.90	75.70	59.50	67.60	168.30	89.20	137.50	106.00	250.40	195.60	109.00	78.40	
18	82.00	73.00	51.80	62.20	134.20	93.00	193.00	101.00	310.20	705.00	106.00	75.70	
19	82.00	72.10	47.80	65.80	159.80	95.00	215.00	101.00	163.40	288.80	104.00	78.40	
20	100.00	63.10	60.40	64.90	149.00	99.00	194.30	99.00	133.10	177.40	90.10	78.40	
21	82.00	50.20	49.40	65.80	121.00	129.80	172.20	92.00	121.00	161.00	82.90	72.10	
22	80.20	40.00	44.90	70.30	100.00	146.60	127.60	87.40	100.00	147.80	84.70	73.00	
23	80.20	52.60	58.60	73.90	87.40	128.70	101.00	87.40	87.40	155.00	86.50	84.70	
24	85.60	111.00	54.20	65.80	95.00	143.00	107.00	89.20	95.00	167.00	83.80	74.80	
25	80.20	149.00	59.50	82.00	81.10	141.90	117.00	92.00	81.10	137.50	88.30	77.50	
26	75.70	110.00	55.00	60.40	82.00	110.00	122.10	98.00	82.00	221.00	106.00	82.90	
27	75.70	94.00	46.30	66.70	78.40	104.00	99.00	94.00	78.40	485.20	122.10	99.00	
28	76.60	61.30	55.90	68.50	75.70	100.00	114.00	114.00	75.70	202.10	138.60	99.00	
29	81.10	72.10	68.50	96.00	76.60	104.00	137.50	125.40	76.60	134.20		108.00	
30	82.00	70.30	102.00	82.90	82.00	92.00	134.20	102.00	82.00	120.00		83.80	
31		63.10		81.10	71.20		156.20		71.20	124.30		90.10	
Total	2480.50	2245.40	1718.90	2505.60	4055.20	2985.40	3669.30	3563.30	5574.70	12621.50	2934.90	2656.60	47011.30 CMSDAY
Mean	82.68	72.43	57.30	80.83	130.81	99.51	118.36	118.78	179.83	407.15	104.82	85.70	128.80 CMS
Max	100.00	149.00	102.00	180.00	311.90	146.60	215.00	215.00	705.00	2309.50	140.80	118.00	2309.50 CMS
Min	72.10	40.00	44.90	53.40	60.40	67.60	74.80	87.40	71.20	120.00	82.90	72.10	40.00 CMS
Runoff	214.32	194.00	148.51	216.48	350.37	257.94	317.03	307.87	481.65	1090.50	253.58	229.53	4061.78 MCM

Momentary Peak 2393.00 CMS. at 8.03 m. (MSL.) at 11.00 Hours , on Jan 6 , 2017

Runoff Yield 91.63 Liters/Second/Square KM. Momentary Peak Yield 1702.520 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)

Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	Ban Hat Nai		**Amphoe** Tha Sae	**Changwat** Chumphon	
Drainge Area	691 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+16.734 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	Near the automatic gage building.			**Elevation**	+31.337 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	2006 to date				
Rating Operation					
Period of Rating	2006 to date				
Rated by Flot	-				
Rated by Current Meter	2006 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

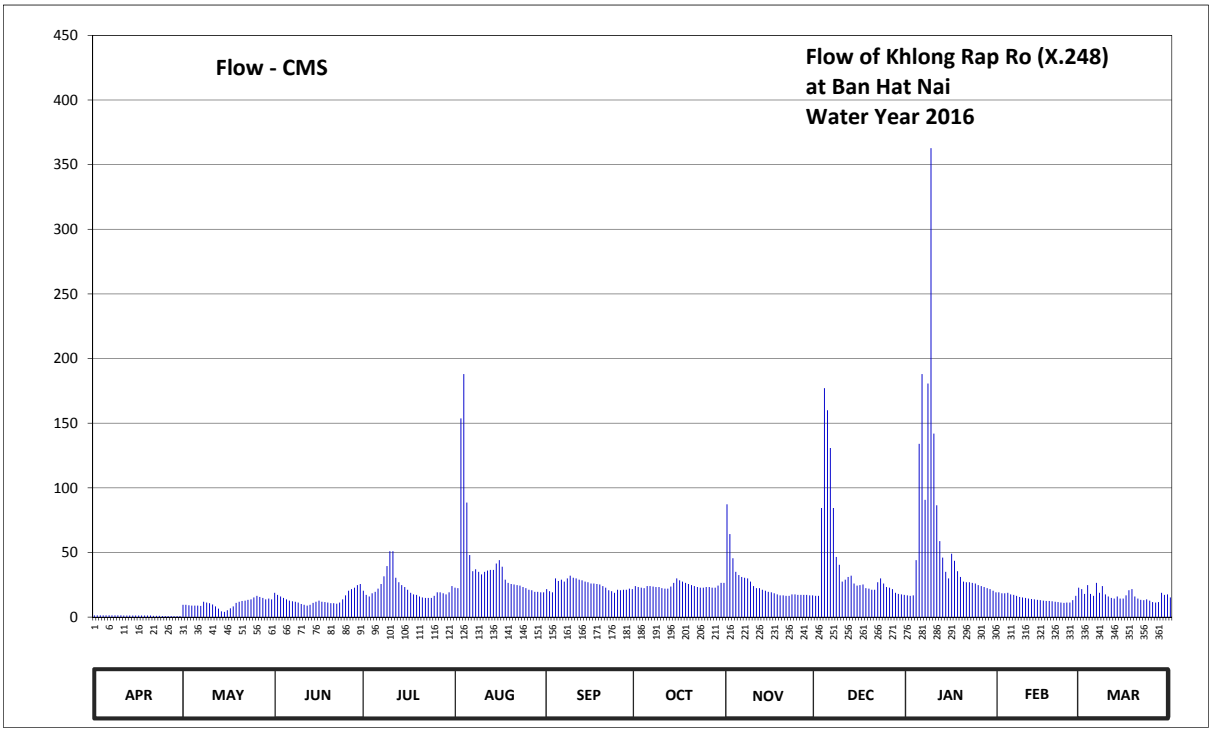
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.77	18.05	18.32	18.36	18.42	18.39	18.45	19.56	18.26	18.27	18.33	18.39	
2	17.77	18.05	18.28	18.28	18.41	18.35	18.43	19.22	18.26	18.26	18.31	18.30	
3	17.77	18.04	18.25	18.25	20.43	18.33	18.42	18.89	19.52	18.27	18.31	18.47	
4	17.77	18.03	18.22	18.31	20.81	18.58	18.41	18.68	20.69	18.86	18.32	18.30	
5	17.77	18.03	18.19	18.34	19.58	18.54	18.45	18.63	20.50	20.20	18.29	18.26	
6	17.77	18.03	18.16	18.40	18.94	18.56	18.45	18.60	20.16	20.81	18.28	18.51	
7	17.77	18.02	18.14	18.49	18.69	18.53	18.44	18.59	19.52	19.61	18.26	18.32	
8	17.77	18.13	18.13	18.61	18.72	18.58	18.43	18.58	18.91	20.73	18.24	18.45	
9	17.77	18.11	18.11	18.77	18.68	18.62	18.43	18.53	18.79	22.23	18.23	18.29	
10	17.77	18.09	18.07	19.00	18.64	18.59	18.41	18.45	18.53	20.30	18.22	18.25	
11	17.76	18.06	18.05	19.00	18.68	18.58	18.40	18.41	18.56	19.55	18.21	18.22	
12	17.76	18.01	18.03	18.59	18.70	18.56	18.40	18.41	18.60	19.13	18.20	18.21	
13	17.76	17.95	18.05	18.52	18.71	18.55	18.44	18.38	18.62	18.90	18.19	18.25	
14	17.76	17.88	18.10	18.47	18.71	18.53	18.51	18.36	18.50	18.68	18.18	18.21	
15	17.76	17.87	18.13	18.43	18.81	18.52	18.58	18.34	18.46	18.58	18.17	18.21	
16	17.76	17.91	18.16	18.38	18.86	18.50	18.55	18.33	18.47	18.96	18.16	18.27	
17	17.76	17.96	18.13	18.32	18.76	18.50	18.53	18.31	18.48	18.85	18.15	18.37	
18	17.76	18.01	18.12	18.29	18.56	18.49	18.51	18.29	18.41	18.69	18.15	18.39	
19	17.76	18.10	18.11	18.28	18.51	18.48	18.49	18.27	18.40	18.60	18.14	18.25	
20	17.76	18.13	18.09	18.25	18.49	18.45	18.47	18.27	18.38	18.53	18.13	18.21	
21	17.75	18.15	18.09	18.23	18.48	18.42	18.45	18.26	18.38	18.52	18.12	18.18	
22	17.75	18.16	18.08	18.22	18.47	18.37	18.43	18.26	18.52	18.52	18.11	18.17	
23	17.75	18.18	18.11	18.22	18.46	18.35	18.42	18.29	18.58	18.51	18.10	18.19	
24	17.74	18.19	18.19	18.22	18.43	18.32	18.42	18.29	18.50	18.50	18.11	18.16	
25	17.74	18.23	18.27	18.26	18.41	18.38	18.43	18.28	18.43	18.47	18.11	18.12	
26	17.74	18.26	18.36	18.33	18.38	18.37	18.43	18.28	18.42	18.45	18.17	18.11	
27	17.74	18.24	18.39	18.33	18.37	18.38	18.42	18.28	18.39	18.43	18.26	18.12	
28	17.74	18.22	18.42	18.31	18.34	18.38	18.42	18.28	18.32	18.41	18.42	18.32	
29	17.74	18.19	18.47	18.29	18.34	18.40	18.46	18.27	18.30	18.39		18.28	
30	17.74	18.21	18.49	18.33	18.33	18.39	18.51	18.27	18.29	18.36		18.29	
31		18.19		18.45	18.33		18.51		18.28	18.33		18.23	
Mean	17.76	18.09	18.19	18.40	18.72	18.47	18.45	18.46	18.72	19.00	18.21	18.27	
Max	17.77	18.26	18.49	19.00	20.81	18.62	18.58	19.56	20.69	22.23	18.42	18.51	22.23
Min	17.74	17.87	18.03	18.22	18.33	18.32	18.40	18.26	18.26	18.26	18.10	18.11	17.74

Annual Max Momentary Gage Height 22.48 m. (MSL.) , at 12.00 Hours , on Jan 9 , 2017

Zero Gage at Bottom Elevation 16.73 m. (MSL.) , River Bed 16.83 m. (MSL.)

Left Bank Elevation 26.61 m. (MSL.) ,

Right Bank Elevation 24.69 m. (MSL.) , Drainage Are 691 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	9.50	18.80	20.40	22.80	21.60	24.00	87.20	16.40	16.80	19.20	21.60	
2	1.40	9.50	17.20	17.20	22.40	20.00	23.20	64.20	16.40	16.40	18.40	18.00	
3	1.40	9.20	16.00	16.00	153.70	19.20	22.80	45.50	84.40	16.80	18.40	24.80	
4	1.40	8.90	14.80	18.40	188.00	30.00	22.40	35.00	177.10	44.00	18.80	18.00	
5	1.40	8.90	13.70	19.60	88.60	28.00	24.00	32.50	160.00	134.00	17.60	16.40	
6	1.40	8.90	12.80	22.00	48.00	29.00	24.00	31.00	130.80	188.00	17.20	26.50	
7	1.40	8.60	12.20	25.60	35.50	27.50	23.60	30.50	84.40	90.70	16.40	18.80	
8	1.40	11.90	11.90	31.50	37.00	30.00	23.20	30.00	46.50	180.70	15.60	24.00	
9	1.40	11.30	11.30	39.50	35.00	32.00	23.20	27.50	40.50	362.80	15.20	17.60	
10	1.40	10.70	10.10	51.00	33.00	30.50	22.40	24.00	27.50	142.00	14.80	16.00	
11	1.20	9.80	9.50	51.00	35.00	30.00	22.00	22.40	29.00	86.50	14.40	14.80	
12	1.20	8.30	8.90	30.50	36.00	29.00	22.00	22.40	31.00	58.80	14.00	14.40	
13	1.20	6.50	9.50	27.00	36.50	28.50	23.60	21.20	32.00	46.00	13.70	16.00	
14	1.20	4.40	11.00	24.80	36.50	27.50	26.50	20.40	26.00	35.00	13.40	14.40	
15	1.20	4.10	11.90	23.20	41.50	27.00	30.00	19.60	24.40	30.00	13.10	14.40	
16	1.20	5.30	12.80	21.20	44.00	26.00	28.50	19.20	24.80	49.00	12.80	16.80	
17	1.20	6.80	11.90	18.80	39.00	26.00	27.50	18.40	25.20	43.50	12.50	20.80	
18	1.20	8.30	11.60	17.60	29.00	25.60	26.50	17.60	22.40	35.50	12.50	21.60	
19	1.20	11.00	11.30	17.20	26.50	25.20	25.60	16.80	22.00	31.00	12.20	16.00	
20	1.20	11.90	10.70	16.00	25.60	24.00	24.80	16.80	21.20	27.50	11.90	14.40	
21	1.00	12.50	10.70	15.20	25.20	22.80	24.00	16.40	21.20	27.00	11.60	13.40	
22	1.00	12.80	10.40	14.80	24.80	20.80	23.20	16.40	27.00	27.00	11.30	13.10	
23	1.00	13.40	11.30	14.80	24.40	20.00	22.80	17.60	30.00	26.50	11.00	13.70	
24	0.80	13.70	13.70	14.80	23.20	18.80	22.80	17.60	26.00	26.00	11.30	12.80	
25	0.80	15.20	16.80	16.40	22.40	21.20	23.20	17.20	23.20	24.80	11.30	11.60	
26	0.80	16.40	20.40	19.20	21.20	20.80	23.20	17.20	22.80	24.00	13.10	11.30	
27	0.80	15.60	21.60	19.20	20.80	21.20	22.80	17.20	21.60	23.20	16.40	11.60	
28	0.80	14.80	22.80	18.40	19.60	21.20	22.80	17.20	18.80	22.40	22.80	18.80	
29	0.80	13.70	24.80	17.60	19.60	22.00	24.40	16.80	18.00	21.60		17.20	
30	0.80	14.40	25.60	19.20	19.20	21.60	26.50	16.80	17.60	20.40		17.60	
31		13.70		24.00	19.20		26.50		17.20	19.20		15.20	
Total	34.60	330.00	426.00	702.10	1253.20	747.00	752.00	772.60	1285.40	1897.10	410.90	521.60	9132.50 CMSDAY
Mean	1.15	10.65	14.20	22.65	40.43	24.90	24.26	25.75	41.46	61.20	14.68	16.83	25.02 CMS
Max	1.40	16.40	25.60	51.00	188.00	32.00	30.00	87.20	177.10	362.80	22.80	26.50	362.80 CMS
Min	0.80	4.10	8.90	14.80	19.20	18.80	22.00	16.40	16.40	16.40	11.00	11.30	0.80 CMS
Runoff	2.99	28.51	36.81	60.66	108.28	64.54	64.97	66.75	111.06	163.91	35.50	45.07	789.05 MCM

Momentary Peak 404.40 CMS. at 22.48 m. (MSL.) at 12.00 Hours , on Jan 9 , 2017

Runoff Yield 36.20 Liters/Second/Square KM. Momentary Peak Yield 585.070 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Kolok River at Ban Bu Kae Ta , Narathiwat (X.274)

Lat 05 - 50 - 21 N Long 101 - 53 - 07 E

Location : on left bank at Ban Bu Kae Ta.

Ban Bu Kae Ta **Amphoe** Waeng **Changwat** Narathiwat

Drainge Area	86 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** 28.193 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2013 to date
Rating Operation	
Period of Rating	2013 to date
Rated by Flot	-
Rated by Current Meter	2013 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

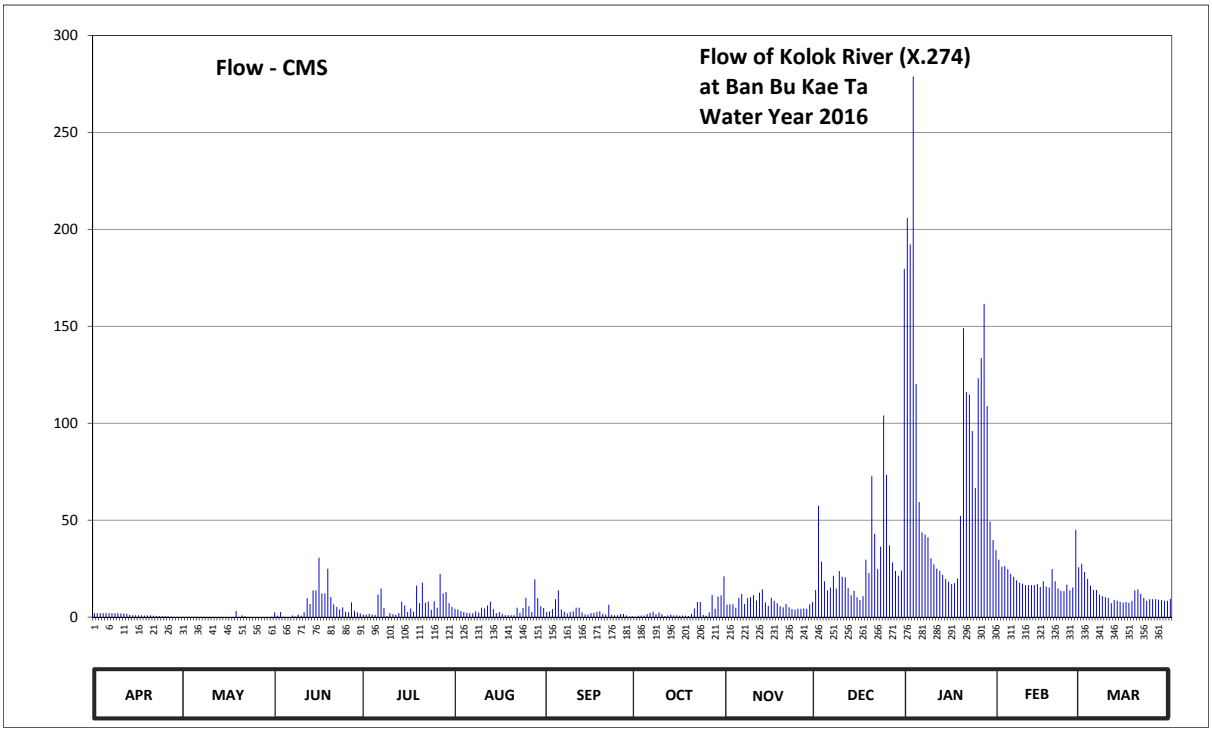
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.47	18.32	18.50	18.42	18.61	18.51	18.32	18.72	19.10	22.92	19.69	19.63	
2	18.47	18.32	18.37	18.42	18.59	18.53	18.37	18.73	20.46	22.77	19.58	19.47	
3	18.47	18.32	18.51	18.45	18.54	18.60	18.38	18.73	19.66	23.64	19.59	19.33	
4	18.47	18.32	18.32	18.42	18.51	18.86	18.38	18.64	19.28	21.77	19.53	19.19	
5	18.47	18.32	18.27	18.41	18.48	19.09	18.44	18.90	19.09	20.51	19.43	19.10	
6	18.47	18.32	18.23	18.98	18.47	18.59	18.48	19.00	19.15	20.09	19.37	19.10	
7	18.47	18.32	18.38	19.13	18.47	18.52	18.52	18.74	19.39	20.06	19.30	18.98	
8	18.47	18.32	18.33	18.63	18.53	18.46	18.44	18.89	19.13	20.02	19.25	18.94	
9	18.47	18.31	18.42	18.36	18.49	18.51	18.50	18.91	19.49	19.71	19.23	18.91	
10	18.46	18.31	18.37	18.47	18.64	18.53	18.43	18.97	19.37	19.62	19.20	18.89	
11	18.46	18.30	18.50	18.43	18.62	18.64	18.36	18.83	19.36	19.54	19.20	18.76	
12	18.45	18.30	18.89	18.41	18.70	18.64	18.39	19.03	19.14	19.49	19.20	18.84	
13	18.41	18.30	18.74	18.47	18.80	18.50	18.42	19.11	18.96	19.41	19.20	18.82	
14	18.40	18.30	19.09	18.80	18.60	18.42	18.39	18.78	19.08	19.33	19.22	18.79	
15	18.40	18.29	19.09	18.70	18.47	18.42	18.40	18.69	18.91	19.27	19.16	18.77	
16	18.40	18.29	19.72	18.51	18.51	18.47	18.37	18.90	18.84	19.22	19.28	18.79	
17	18.39	18.29	19.01	18.62	18.45	18.48	18.38	18.82	18.94	19.24	19.17	18.77	
18	18.38	18.28	19.01	18.52	18.40	18.51	18.37	18.76	19.69	19.34	19.15	18.82	
19	18.38	18.54	19.54	19.19	18.40	18.53	18.36	18.68	19.45	20.33	19.53	19.09	
20	18.39	18.31	18.92	18.76	18.40	18.45	18.44	18.65	20.84	22.20	19.28	19.11	
21	18.37	18.39	18.73	19.25	18.40	18.42	18.62	18.74	20.07	21.70	19.13	19.00	
22	18.36	18.34	18.66	18.77	18.64	18.72	18.79	18.65	19.53	21.68	19.08	18.90	
23	18.36	18.25	18.59	18.80	18.48	18.41	18.79	18.60	19.88	21.34	19.07	18.82	
24	18.35	18.21	18.65	18.58	18.63	18.39	18.41	18.58	21.50	20.69	19.21	18.86	
25	18.35	18.24	18.52	18.81	18.90	18.40	18.37	18.61	20.86	21.82	19.09	18.86	
26	18.34	18.21	18.50	18.64	18.68	18.44	18.50	18.61	19.90	21.98	19.15	18.86	
27	18.33	18.18	18.78	19.43	18.51	18.44	18.97	18.62	19.65	22.38	20.13	18.85	
28	18.32	18.21	18.55	19.01	19.32	18.39	18.61	18.61	19.49	21.58	19.57	18.84	
29	18.32	18.20	18.50	19.05	18.89	18.33	18.93	18.73	19.39	20.25		18.82	
30	18.32	18.20	18.46	18.76	18.68	18.35	18.96	18.79	19.50	19.98		18.82	
31		18.32		18.66	18.63		19.38		22.62	19.83		18.87	
Mean	18.41	18.29	18.67	18.71	18.59	18.52	18.53	18.77	19.67	20.70	19.32	18.95	
Max	18.47	18.54	19.72	19.43	19.32	19.09	19.38	19.11	22.62	23.64	20.13	19.63	23.64
Min	18.32	18.18	18.23	18.36	18.40	18.33	18.32	18.58	18.84	19.22	19.07	18.76	18.18

Annual Max Momentary Gage Height 24.22 m. (MSL.) , at 06.00 Hours , on Jan 3 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 18.16 m. (MSL.)

Left Bank Elevation 26.87 m. (MSL.) ,

Right Bank Elevation 27.30 m. (MSL.) , Drainage Are 86 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.05	0.20	2.50	1.30	4.29	2.66	0.20	6.40	14.00	205.80	29.65	27.55	
2	2.05	0.20	0.70	1.30	3.94	2.98	0.70	6.60	57.40	192.30	26.00	23.25	
3	2.05	0.20	2.66	1.75	3.14	4.10	0.80	6.60	28.60	278.80	26.25	19.75	
4	2.05	0.20	0.20	1.30	2.66	9.20	0.80	4.86	18.50	120.20	24.75	16.25	
5	2.05	0.20	0.00	1.15	2.20	13.80	1.60	10.00	13.80	59.40	22.25	14.00	
6	2.05	0.20	0.00	11.60	2.05	3.94	2.20	12.00	15.25	43.65	20.75	14.00	
7	2.05	0.20	0.80	14.75	2.05	2.82	2.82	6.80	21.25	42.60	19.00	11.60	
8	2.05	0.20	0.30	4.67	2.98	1.90	1.60	9.80	14.75	41.20	17.75	10.80	
9	2.05	0.10	1.30	0.60	2.35	2.66	2.50	10.20	23.75	30.35	17.25	10.20	
10	1.90	0.10	0.70	2.05	4.86	2.98	1.45	11.40	20.75	27.20	16.50	9.80	
11	1.90	0.00	2.50	1.45	4.48	4.86	0.60	8.60	20.50	25.00	16.50	7.20	
12	1.75	0.00	9.80	1.15	6.00	4.86	0.90	12.60	15.00	23.75	16.50	8.80	
13	1.15	0.00	6.80	2.05	8.00	2.50	1.30	14.25	11.20	21.75	16.50	8.40	
14	1.00	0.00	13.80	8.00	4.10	1.30	0.90	7.60	13.60	19.75	17.00	7.80	
15	1.00	0.00	13.80	6.00	2.05	1.30	1.00	5.81	10.20	18.25	15.50	7.40	
16	1.00	0.00	30.70	2.66	2.66	2.05	0.70	10.00	8.80	17.00	18.50	7.80	
17	0.90	0.00	12.20	4.48	1.75	2.20	0.80	8.40	10.80	17.50	15.75	7.40	
18	0.80	0.00	12.20	2.82	1.00	2.66	0.70	7.20	29.65	20.00	15.25	8.40	
19	0.80	3.14	25.00	16.25	1.00	2.98	0.60	5.62	22.75	52.20	24.75	13.80	
20	0.90	0.10	10.40	7.20	1.00	1.75	1.60	5.05	72.60	149.00	18.50	14.25	
21	0.70	0.90	6.60	17.75	1.00	1.30	4.48	6.80	42.95	116.00	14.75	12.00	
22	0.60	0.40	5.24	7.40	4.86	6.40	7.80	5.05	24.75	114.80	13.60	10.00	
23	0.60	0.00	3.94	8.00	2.20	1.15	7.80	4.10	36.30	96.00	13.40	8.40	
24	0.50	0.00	5.05	3.78	4.67	0.90	1.15	3.78	104.00	66.60	16.75	9.20	
25	0.50	0.00	2.82	8.20	10.00	1.00	0.70	4.29	73.40	123.20	13.80	9.20	
26	0.40	0.00	2.50	4.86	5.62	1.60	2.50	4.29	37.00	133.60	15.25	9.20	
27	0.30	0.00	7.60	22.25	2.66	1.60	11.40	4.48	28.25	161.60	45.05	9.00	
28	0.20	0.00	3.30	12.20	19.50	0.90	4.29	4.29	23.75	108.80	25.75	8.80	
29	0.20	0.00	2.50	13.00	9.80	0.30	10.60	6.60	21.25	49.25		8.40	
30	0.20	0.00	1.90	7.20	5.62	0.50	11.20	7.80	24.00	39.80		8.40	
31		0.20		5.24	4.67		21.00		179.60	34.55		9.40	
Total	35.75	6.54	187.81	202.41	133.16	89.15	106.69	221.27	1038.40	2449.90	553.25	350.45	5374.78 CMSDAY
Mean	1.19	0.21	6.26	6.53	4.30	2.97	3.44	7.38	33.50	79.03	19.76	11.30	14.73 CMS
Max	2.05	3.14	30.70	22.25	19.50	13.80	21.00	14.25	179.60	278.80	45.05	27.55	278.80 CMS
Min	0.20	0.00	0.00	0.60	1.00	0.30	0.20	3.78	8.80	17.00	13.40	7.20	0.00 CMS
Runoff	3.09	0.57	16.23	17.49	11.51	7.70	9.22	19.12	89.72	211.67	47.80	30.28	464.38 MCM

Momentary Peak 348.40 CMS. at 24.22 m. (MSL.) at 06.00 Hours , on Jan 3 , 2017

Runoff Yield 171.23 Liters/Second/Square KM. Momentary Peak Yield 4051.160 Liters/Second/Square KM.

WATER YEAR : 2016

TAPI RIVER BASIN

Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

	Ban Tha Khanon	**Amphoe** Khiri Ratnikhom	**Changwat** Surat Thani
Drainge Area	2,968 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the sixth staff gage.	**Elevation**	+10.520 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1963 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Ratcha Prapha Dam.		
	Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

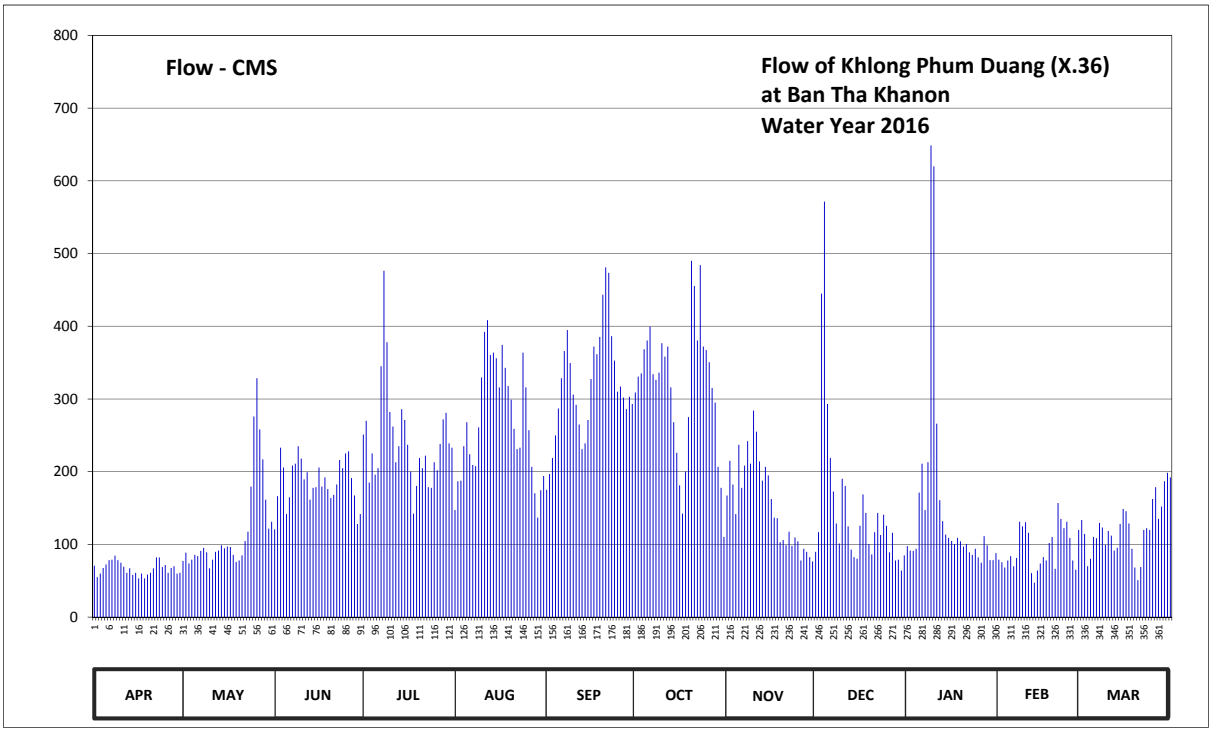
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.81	1.92	2.61	4.09	2.94	3.29	4.67	3.19	2.13	2.26	1.95	2.77	
2	1.55	2.11	3.18	4.28	3.42	3.53	4.88	3.73	2.56	2.16	1.89	2.53	
3	1.63	1.86	3.91	3.40	3.43	3.77	4.92	3.37	5.80	2.15	1.77	1.80	
4	1.76	1.95	3.63	3.83	3.93	4.08	5.22	2.87	6.64	2.20	1.93	1.97	
5	1.84	2.06	2.87	3.52	4.26	4.45	5.32	3.95	4.51	3.24	2.03	2.47	
6	1.94	2.03	3.16	3.62	3.82	4.86	5.48	3.32	3.77	3.69	1.80	2.44	
7	1.95	2.15	3.66	5.01	3.67	5.20	4.91	3.66	3.26	2.94	1.99	2.72	
8	2.04	2.22	3.69	6.01	3.65	5.44	4.84	4.00	2.71	3.71	2.74	2.64	
9	1.94	2.12	3.93	5.30	4.19	5.05	4.93	3.69	2.32	7.11	2.66	2.29	
10	1.88	1.75	3.76	4.40	4.87	4.64	5.29	4.42	3.46	6.94	2.73	2.58	
11	1.79	1.95	3.45	4.20	5.42	4.50	5.13	4.13	3.35	4.24	2.55	2.50	
12	1.65	2.13	3.56	3.71	5.55	4.23	5.25	3.72	2.66	3.11	1.64	2.16	
13	1.75	2.16	3.12	3.93	5.15	3.89	4.74	3.43	2.18	2.75	1.42	2.22	
14	1.60	2.28	3.32	4.44	5.18	3.97	4.26	3.64	2.01	2.52	1.70	2.70	
15	1.65	2.21	3.33	4.29	5.11	4.29	3.84	3.51	1.97	2.45	1.86	2.96	
16	1.52	2.25	3.63	3.95	4.74	4.85	3.36	3.13	2.67	2.38	2.01	2.92	
17	1.63	2.24	3.34	3.57	5.27	5.25	2.88	2.81	3.21	2.31	1.93	2.71	
18	1.52	2.06	3.48	2.88	4.99	5.16	3.57	2.80	2.89	2.45	2.33	2.20	
19	1.61	1.90	3.30	3.35	4.76	5.36	4.33	2.35	2.31	2.37	2.47	1.77	
20	1.65	1.93	3.15	3.77	4.57	5.79	6.10	2.40	2.07	2.25	1.74	1.48	
21	1.75	2.05	3.20	3.62	4.17	6.04	5.87	2.28	2.56	2.31	3.06	1.78	
22	2.00	2.38	3.37	3.80	3.89	5.99	5.32	2.57	2.89	2.12	2.79	2.60	
23	2.00	2.57	3.74	3.33	3.91	5.37	6.06	2.27	2.51	2.06	2.63	2.63	
24	1.78	3.34	3.62	3.32	5.18	5.08	5.25	2.46	2.86	2.20	2.74	2.60	
25	1.83	4.34	3.83	3.71	4.74	4.68	5.21	2.37	2.67	2.00	2.45	3.13	
26	1.65	4.86	3.86	3.59	4.15	4.75	5.06	1.93	2.12	1.88	1.93	3.33	
27	1.76	4.16	3.47	3.96	3.64	4.60	4.73	2.20	2.55	2.49	1.72	2.79	
28	1.80	3.75	3.19	4.30	3.23	4.44	4.53	2.13	1.93	2.28	2.60	3.00	
29	1.63	3.12	2.70	4.39	2.81	4.61	3.64	2.01	1.95	1.94		3.42	
30	1.65	2.62	2.87	3.97	3.28	4.51	3.32	1.91	1.70	1.94		3.55	
31		2.74		3.91	3.50		2.47		2.05	2.10		3.48	
Mean	1.75	2.49	3.40	3.98	4.24	4.72	4.69	3.01	2.85	2.79	2.18	2.59	
Max	2.04	4.86	3.93	6.01	5.55	6.04	6.10	4.42	6.64	7.11	3.06	3.55	7.11
Min	1.52	1.75	2.61	2.88	2.81	3.29	2.47	1.91	1.70	1.88	1.42	1.48	1.42

Annual Max Momentary Gage Height 8.51 m. (MSL.) , at 21.00 Hours , on Jan 9 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.55 m. (MSL.)

Left Bank Elevation 10.42 m. (MSL.) ,

Right Bank Elevation 11.42 m. (MSL.) , Drainage Are 2,968 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	70.60	77.20	120.80	251.00	147.20	175.20	309.00	167.20	89.80	97.60	79.00	133.60	
2	55.00	88.60	166.40	270.00	186.80	196.70	330.80	215.00	116.80	91.60	75.40	114.40	
3	59.80	73.60	233.00	185.00	187.70	219.00	335.20	182.30	445.00	91.00	68.20	70.00	
4	67.60	79.00	205.70	225.00	235.00	250.00	368.40	141.60	571.40	94.00	77.80	80.20	
5	72.40	85.60	141.60	195.80	268.00	287.00	380.40	237.00	293.00	171.20	83.80	110.20	
6	78.40	83.80	164.80	204.80	224.00	328.60	399.60	177.80	219.00	211.10	70.00	108.40	
7	79.00	91.00	208.40	345.10	209.30	366.00	334.10	208.40	172.80	147.20	81.40	129.60	
8	84.40	95.20	211.10	476.50	207.50	394.80	326.40	242.00	128.80	213.00	131.20	123.20	
9	78.40	89.20	235.00	378.00	261.00	349.50	336.30	211.10	101.20	648.70	124.80	99.40	
10	74.80	67.00	218.00	282.00	329.70	306.00	376.80	284.00	190.40	619.80	130.40	118.40	
11	69.40	79.00	189.50	262.00	392.40	292.00	358.30	255.00	180.50	266.00	116.00	112.00	
12	61.00	89.80	199.40	213.00	408.50	265.00	372.00	214.00	124.80	160.80	60.40	91.60	
13	67.00	91.60	161.60	235.00	360.50	231.00	316.00	187.70	92.80	132.00	47.20	95.20	
14	58.00	98.80	177.80	286.00	363.80	239.00	268.00	206.60	82.60	113.60	64.00	128.00	
15	61.00	94.60	178.70	271.00	356.10	271.00	226.00	194.90	80.20	109.00	73.60	148.80	
16	53.20	97.00	205.70	237.00	316.00	327.50	181.40	162.40	125.60	104.80	82.60	145.60	
17	59.80	96.40	179.60	200.30	374.40	372.00	142.40	136.80	168.80	100.60	77.80	128.80	
18	53.20	85.60	192.20	142.40	342.90	361.60	200.30	136.00	143.20	109.00	101.80	94.00	
19	58.60	76.00	176.00	180.50	318.00	385.20	275.00	103.00	100.60	104.20	110.20	68.20	
20	61.00	77.80	164.00	219.00	299.00	443.50	490.00	106.00	86.20	97.00	66.40	50.80	
21	67.00	85.00	168.00	204.80	259.00	481.00	455.50	98.80	116.80	100.60	156.80	68.80	
22	82.00	104.80	182.30	222.00	231.00	473.50	380.40	117.60	143.20	89.20	135.20	120.00	
23	82.00	117.60	216.00	178.70	233.00	386.40	484.00	98.20	112.80	85.60	122.40	122.40	
24	68.80	179.60	204.80	177.80	363.80	352.80	372.00	109.60	140.80	94.00	131.20	120.00	
25	71.80	276.00	225.00	213.00	316.00	310.00	367.20	104.20	125.60	82.00	109.00	162.40	
26	61.00	328.60	228.00	202.10	257.00	317.00	350.60	77.80	89.20	74.80	77.80	178.70	
27	67.60	258.00	191.30	238.00	206.60	302.00	315.00	94.00	116.00	111.40	65.20	135.20	
28	70.00	217.00	167.20	272.00	170.40	286.00	295.00	89.80	77.80	98.80	120.00	152.00	
29	59.80	161.60	128.00	281.00	136.80	303.00	206.60	82.60	79.00	78.40		186.80	
30	61.00	121.60	141.60	239.00	174.40	293.00	177.80	76.60	64.00	78.40		198.50	
31		131.20		233.00	194.00		110.20		85.00	88.00		192.20	
Total	2013.60	3697.80	5581.50	7520.80	8329.80	9565.30	9840.70	4718.00	4663.70	4663.40	2639.60	3787.40	67021.60 CMSDAY
Mean	67.12	119.28	186.05	242.61	268.70	318.84	317.44	157.27	150.44	150.43	94.27	122.17	183.62 CMS
Max	84.40	328.60	235.00	476.50	408.50	481.00	490.00	284.00	571.40	648.70	156.80	198.50	648.70 CMS
Min	53.20	67.00	120.80	142.40	136.80	175.20	110.20	76.60	64.00	74.80	47.20	50.80	47.20 CMS
Runoff	173.98	319.49	482.24	649.80	719.69	826.44	850.24	407.64	402.94	402.92	228.06	327.23	5790.67 MCM

Momentary Peak 912.00 CMS. at 8.51 m. (MSL.) at 21.00 Hours , on Jan 9 , 2017

Runoff Yield 61.86 Liters/Second/Square KM. Momentary Peak Yield 307.250 Liters/Second/Square KM.

WATER YEAR : 2016

TAPI RIVER BASIN

Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

Ban Yan Din Daeng **Amphoe** Phrasaeng **Changwat** Surat Thani

Drainge Area	5,383 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** +12.682 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1969 to date
Rated by Flot	-
Rated by Current Meter	1969 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 11.260 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

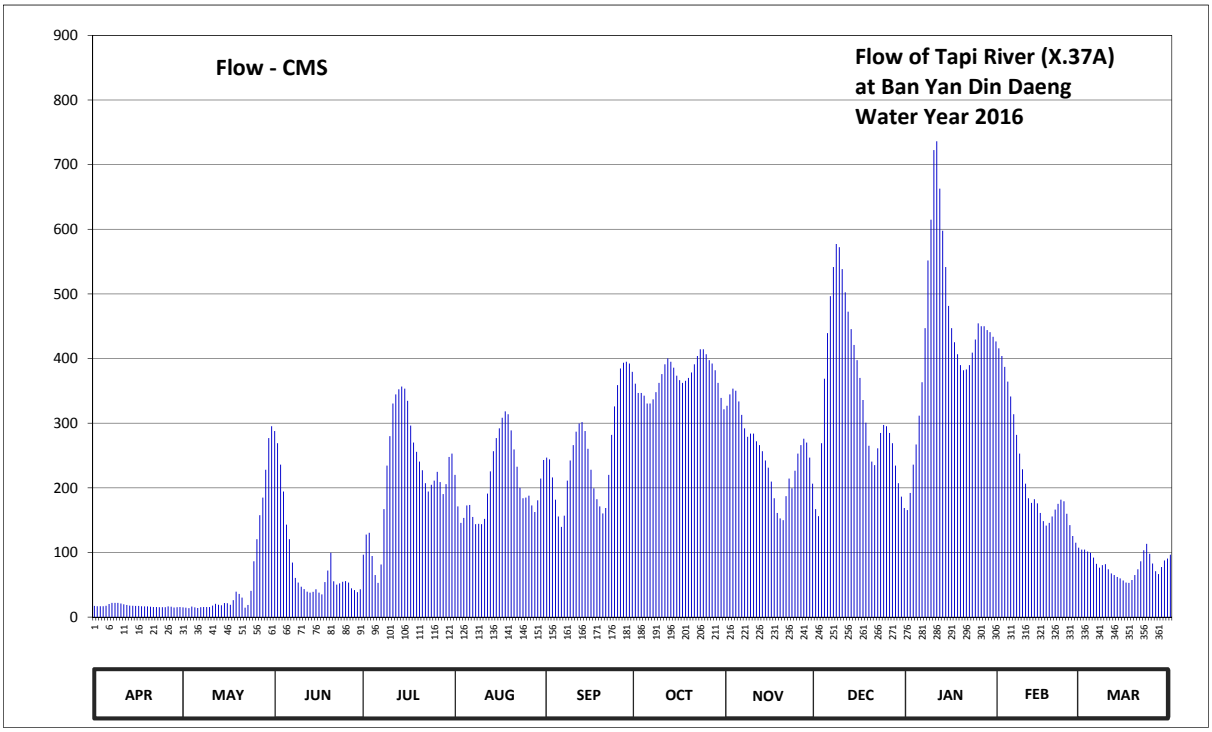
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.64	4.57	9.15	6.61	8.40	8.72	9.82	9.51	7.74	7.72	10.26	6.77	
2	4.63	4.55	8.96	7.18	7.79	8.69	9.69	9.67	7.59	8.05	10.17	6.77	
3	4.63	4.53	8.60	7.22	7.44	8.35	9.69	9.75	8.96	8.60	10.04	6.71	
4	4.63	4.61	8.08	6.57	7.55	7.92	9.65	9.72	9.89	8.94	9.85	6.67	
5	4.65	4.57	7.40	5.98	7.81	7.58	9.54	9.57	10.43	9.37	9.64	6.52	
6	4.74	4.54	7.06	5.70	7.82	7.35	9.54	9.38	10.81	9.84	9.39	6.33	
7	4.80	4.58	6.37	6.31	7.57	7.60	9.60	9.19	11.11	10.48	9.09	6.21	
8	4.80	4.59	5.89	7.74	7.41	8.29	9.70	9.06	11.32	11.17	8.79	6.29	
9	4.80	4.59	5.71	8.58	7.42	8.67	9.83	9.11	11.29	11.54	8.51	6.32	
10	4.77	4.59	5.55	9.07	7.41	8.93	9.95	9.11	11.09	12.05	8.23	6.16	
11	4.73	4.66	5.46	9.54	7.53	9.14	10.07	8.99	10.85	12.11	7.95	6.03	
12	4.69	4.75	5.36	9.67	8.04	9.26	10.14	8.93	10.65	11.79	7.86	5.98	
13	4.66	4.70	5.32	9.74	8.47	9.28	10.10	8.83	10.47	11.44	7.93	5.92	
14	4.65	4.68	5.35	9.78	8.83	9.15	10.03	8.67	10.30	11.11	7.85	5.87	
15	4.64	4.79	5.45	9.75	9.04	8.87	9.93	8.54	10.12	10.71	7.66	5.79	
16	4.64	4.78	5.32	9.58	9.19	8.50	9.87	8.27	9.90	10.48	7.48	5.71	
17	4.63	4.70	5.24	9.23	9.34	8.14	9.83	7.95	9.59	10.33	7.38	5.70	
18	4.62	4.94	5.73	8.97	9.43	7.93	9.86	7.66	9.27	10.19	7.44	5.81	
19	4.62	5.36	6.12	8.82	9.39	7.79	9.90	7.54	8.92	10.06	7.58	5.98	
20	4.60	5.26	6.67	8.65	9.16	7.65	9.97	7.50	8.65	10.00	7.73	6.16	
21	4.59	5.07	5.76	8.49	8.86	7.76	10.07	7.99	8.59	10.01	7.84	6.41	
22	4.59	4.55	5.63	8.24	8.56	8.40	10.17	8.33	8.88	10.06	7.92	6.75	
23	4.58	4.69	5.68	8.08	8.15	9.09	10.25	8.14	9.12	10.21	7.89	6.94	
24	4.58	5.39	5.74	8.21	7.95	9.50	10.25	8.48	9.24	10.36	7.64	6.64	
25	4.58	6.41	5.77	8.29	7.96	9.80	10.19	8.79	9.22	10.53	7.39	6.34	
26	4.62	7.06	5.71	8.46	8.00	10.02	10.12	8.93	9.12	10.50	7.14	6.10	
27	4.60	7.61	5.49	8.26	7.81	10.09	10.08	9.03	8.96	10.50	6.97	6.01	
28	4.56	7.96	5.42	8.03	7.68	10.10	10.00	8.97	8.58	10.46	6.83	6.23	
29	4.58	8.50	5.34	8.22	7.91	10.08	9.83	8.72	8.24	10.44		6.43	
30	4.59	9.04	5.45	8.73	8.33	9.98	9.62	8.23	7.98	10.39		6.49	
31		9.22		8.79	8.68		9.46		7.76	10.34		6.61	
Mean	4.65	5.48	6.16	8.27	8.22	8.75	9.90	8.75	9.50	10.32	8.23	6.28	
Max	4.80	9.22	9.15	9.78	9.43	10.10	10.25	9.75	11.32	12.11	10.26	6.94	12.11
Min	4.56	4.53	5.24	5.70	7.41	7.35	9.46	7.50	7.59	7.72	6.83	5.70	4.53

Annual Max Momentary Gage Height 12.18 m. (MSL.) , at 21.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.07 m. (MSL.)

Left Bank Elevation 11.25 m. (MSL.) ,

Right Bank Elevation 11.30 m. (MSL.) , Drainage Are 5,383 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.20	15.10	288.00	96.50	220.00	246.80	361.20	327.10	167.20	165.60	415.80	104.50	
2	16.90	14.50	269.00	127.80	171.20	244.10	346.90	344.70	156.30	192.00	404.10	104.50	
3	16.90	13.90	236.00	130.40	145.80	216.00	346.90	353.50	269.00	236.00	387.20	101.50	
4	16.90	16.30	194.40	94.50	153.50	181.60	342.50	350.20	368.90	267.00	364.50	99.50	
5	17.50	15.10	143.00	65.00	172.80	155.60	330.40	333.70	439.50	311.70	341.40	92.00	
6	20.20	14.20	120.60	53.00	173.60	139.50	330.40	312.80	496.50	363.40	313.90	82.50	
7	22.00	15.40	84.50	81.50	154.90	157.00	337.00	292.00	541.70	447.00	282.00	76.50	
8	22.00	15.70	60.60	167.20	143.70	211.20	348.00	279.00	577.40	551.90	253.10	80.50	
9	22.00	15.70	53.40	234.40	144.40	242.30	362.30	284.00	572.30	614.80	228.80	82.00	
10	21.10	15.70	47.00	280.00	143.70	266.00	376.00	284.00	538.50	722.50	206.40	74.00	
11	19.90	17.80	43.40	330.40	152.10	287.00	391.10	272.00	502.50	736.30	184.00	67.50	
12	18.70	20.50	39.40	344.70	191.20	299.60	400.20	266.00	472.50	663.00	176.80	65.00	
13	17.80	19.00	37.80	352.40	225.60	301.80	395.00	256.70	445.50	597.80	182.40	62.00	
14	17.50	18.40	39.00	356.80	256.70	288.00	385.90	242.30	421.00	541.70	176.00	59.80	
15	17.20	21.70	43.00	353.50	277.00	260.30	373.60	231.20	397.60	481.50	161.20	56.60	
16	17.20	21.40	37.80	334.80	292.00	228.00	366.70	209.60	370.00	447.00	148.60	53.40	
17	16.90	19.00	35.20	296.30	308.40	199.20	362.30	184.00	335.90	425.20	141.60	53.00	
18	16.60	26.20	54.20	270.00	318.30	182.40	365.60	161.20	300.70	406.70	145.80	57.40	
19	16.60	39.40	72.00	255.80	313.90	171.20	370.00	152.80	265.00	389.80	155.60	65.00	
20	16.00	35.80	99.50	240.50	289.00	160.50	378.40	150.00	240.50	382.00	166.40	74.00	
21	15.70	30.10	55.40	227.20	259.40	168.80	391.10	187.20	235.20	383.30	175.20	86.50	
22	15.70	14.50	50.20	207.20	232.80	220.00	404.10	214.40	261.20	389.80	181.60	103.50	
23	15.40	18.70	52.20	194.40	200.00	282.00	414.50	199.20	285.00	409.30	179.20	113.40	
24	15.40	40.60	54.60	204.80	184.00	326.00	414.50	226.40	297.40	429.40	159.80	98.00	
25	15.40	86.50	55.80	211.20	184.80	359.00	406.70	253.10	295.20	454.50	142.30	83.00	
26	16.60	120.60	53.40	224.80	188.00	384.60	397.60	266.00	285.00	450.00	125.40	71.00	
27	16.00	157.70	44.60	208.80	172.80	393.70	392.40	276.00	269.00	450.00	115.20	66.50	
28	14.80	184.80	41.80	190.40	162.60	395.00	382.00	270.00	234.40	444.00	107.50	77.50	
29	15.40	228.00	38.60	205.60	180.80	392.40	362.30	246.80	207.20	441.00		87.50	
30	15.70	277.00	43.00	247.70	214.40	379.60	339.20	206.40	186.40	433.60		90.50	
31		295.20		253.10	243.20		321.60		168.80	426.60		96.50	
Total	523.20	1,844.50	2,487.40	6840.70	6470.60	7739.20	11496.40	7632.30	10603.30	13654.40	6021.80	2485.10	77798.90	CMSDAY
Mean	17.44	59.50	82.91	220.67	208.73	257.97	370.85	254.41	342.04	440.46	215.06	80.16	213.15	CMS
Max	22.00	295.20	288.00	356.80	318.30	395.00	414.50	353.50	577.40	736.30	415.80	113.40	736.30	CMS
Min	14.80	13.90	35.20	53.00	143.70	139.50	321.60	150.00	156.30	165.60	107.50	53.00	13.90	CMS
Runoff	45.20	159.36	214.91	591.04	559.06	668.67	993.29	659.43	916.13	1179.74	520.28	214.71	6721.82	MCM

Momentary Peak 752.40 CMS, at 12.18 m. (MSL), at 21.00 Hours, on Jan 10, 2017

Runoff Yield 39.59 Liters/Second/Square KM. Momentary Peak Yield 139.770 Liters/Second/Square KM.

WATER YEAR : 2016

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 Thammar
Drainge Area	488 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.		**Elevation** +40.509 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 - 2006, 2011 to date		
Rating Operation			
Period of Rating	1998 - 2006, 2011 to date		
Rated by Flot	-		
Rated by Current Meter	1998 - 2006, 2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 38.120 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

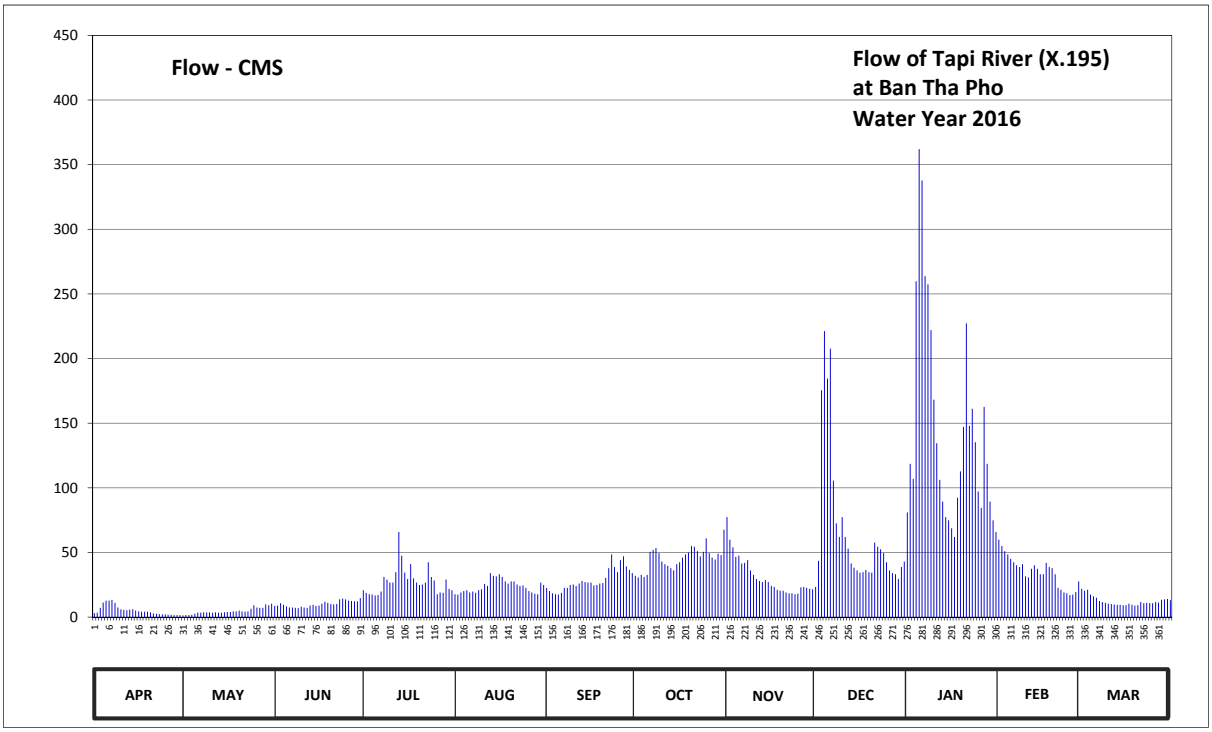
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.52	32.45	32.72	33.10	33.01	33.15	33.39	34.28	33.17	34.34	33.97	33.13	
2	32.53	32.46	32.73	33.04	33.00	33.08	33.36	33.97	33.65	34.94	33.88	33.09	
3	32.67	32.46	32.79	33.01	33.05	33.03	33.41	33.86	35.76	34.76	33.80	33.11	
4	32.81	32.47	32.75	33.00	33.08	33.01	33.37	33.71	36.37	36.86	33.75	33.00	
5	32.86	32.50	32.71	32.98	33.10	33.00	33.41	33.73	35.88	38.09	33.68	32.96	
6	32.86	32.53	32.68	32.99	33.05	33.04	33.79	33.61	36.19	37.82	33.63	32.93	
7	32.88	32.53	32.68	33.07	33.07	33.15	33.82	33.62	34.74	36.91	33.58	32.85	
8	32.80	32.54	32.67	33.37	33.04	33.15	33.85	33.66	34.20	36.83	33.55	32.82	
9	32.68	32.54	32.66	33.32	33.10	33.21	33.77	33.49	34.01	36.38	33.60	32.80	
10	32.63	32.54	32.70	33.26	33.12	33.22	33.64	33.41	34.28	35.66	33.38	32.78	
11	32.61	32.53	32.68	33.26	33.23	33.19	33.60	33.33	34.01	35.18	33.36	32.77	
12	32.60	32.54	32.67	33.46	33.19	33.24	33.57	33.29	33.84	34.75	33.52	32.76	
13	32.62	32.53	32.73	34.08	33.44	33.29	33.53	33.27	33.61	34.48	33.58	32.75	
14	32.63	32.53	32.75	33.73	33.39	33.27	33.49	33.31	33.54	34.28	33.52	32.75	
15	32.59	32.54	32.72	33.45	33.38	33.26	33.60	33.27	33.49	34.24	33.42	32.74	
16	32.57	32.55	32.73	33.33	33.42	33.26	33.63	33.19	33.45	34.13	33.42	32.74	
17	32.56	32.55	32.78	33.60	33.37	33.20	33.70	33.17	33.46	34.01	33.62	32.78	
18	32.56	32.57	32.83	33.34	33.28	33.21	33.75	33.11	33.50	34.53	33.55	32.75	
19	32.56	32.57	32.80	33.26	33.24	33.24	33.78	33.09	33.46	34.85	33.53	32.73	
20	32.54	32.59	32.77	33.21	33.28	33.25	33.88	33.09	33.45	35.36	33.42	32.74	
21	32.51	32.57	32.76	33.22	33.28	33.35	33.87	33.05	33.93	36.45	33.15	32.82	
22	32.50	32.56	32.77	33.26	33.22	33.53	33.80	33.03	33.87	35.37	33.11	32.79	
23	32.49	32.57	32.89	33.63	33.19	33.75	33.72	33.03	33.83	35.56	33.05	32.80	
24	32.48	32.64	32.91	33.37	33.20	33.55	33.79	33.01	33.77	35.19	33.03	32.79	
25	32.48	32.74	32.89	33.30	33.15	33.46	33.99	33.02	33.63	34.61	32.99	32.79	
26	32.47	32.68	32.86	33.01	33.08	33.66	33.77	33.16	33.49	34.40	33.00	32.82	
27	32.47	32.67	32.85	33.05	33.05	33.72	33.70	33.17	33.44	35.58	33.06	32.81	
28	32.46	32.67	32.84	33.04	33.02	33.56	33.67	33.15	33.42	34.94	33.28	32.88	
29	32.46	32.76	32.84	33.32	33.01	33.50	33.76	33.13	33.33	34.48		32.89	
30	32.46	32.74	32.92	33.13	33.26	33.44	33.74	33.12	33.55	34.24		32.90	
31		32.78		33.10	33.21		34.11		33.64	34.08		32.87	
Mean	32.60	32.58	32.77	33.27	33.18	33.30	33.69	33.34	34.00	35.27	33.44	32.84	
Max	32.88	32.78	32.92	34.08	33.44	33.75	34.11	34.28	36.37	38.09	33.97	33.13	38.09
Min	32.46	32.45	32.66	32.98	33.00	33.00	33.36	33.01	33.17	34.01	32.99	32.73	32.45

Annual Max Momentary Gage Height 38.80 m. (MSL.) , at 18.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 30.92 m. (MSL.)

Left Bank Elevation 39.57 m. (MSL.) ,

Right Bank Elevation 38.11 m. (MSL.) , Drainage Are 488 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.14	1.30	8.60	20.80	17.74	22.65	31.90	77.30	23.39	80.90	59.85	21.91	
2	3.41	1.56	8.90	18.76	17.40	20.12	30.70	59.85	43.50	118.60	55.00	20.46	
3	7.19	1.56	10.70	17.74	19.10	18.42	32.72	54.00	175.50	106.90	51.00	21.17	
4	11.30	1.82	9.50	17.40	20.12	17.74	31.10	46.50	221.25	259.80	48.50	17.40	
5	12.80	2.60	8.30	16.72	20.80	17.40	32.72	47.50	184.50	362.10	45.00	16.04	
6	12.80	3.41	7.46	17.06	19.10	18.76	50.50	41.50	207.75	337.80	42.50	15.02	
7	13.40	3.41	7.46	19.78	19.78	22.65	52.00	42.00	105.60	263.80	40.10	12.50	
8	11.00	3.68	7.19	31.10	18.76	22.65	53.50	44.00	72.50	257.40	38.75	11.60	
9	7.46	3.68	6.92	29.10	20.80	24.88	49.50	36.08	62.05	222.00	41.00	11.00	
10	6.11	3.68	8.00	26.78	21.54	25.26	43.00	32.72	77.30	168.20	31.50	10.40	
11	5.57	3.41	7.46	26.78	25.64	24.13	41.00	29.50	62.05	134.60	30.70	10.10	
12	5.30	3.68	7.19	34.82	24.13	26.02	39.65	27.92	53.00	106.25	37.40	9.80	
13	5.84	3.41	8.90	65.90	33.98	27.92	37.85	27.16	41.50	89.30	40.10	9.50	
14	6.11	3.41	9.50	47.50	31.90	27.16	36.08	28.70	38.30	77.30	37.40	9.50	
15	5.03	3.68	8.60	34.40	31.50	26.78	41.00	27.16	36.08	74.90	33.14	9.20	
16	4.49	3.95	8.90	29.50	33.14	26.78	42.50	24.13	34.40	68.65	33.14	9.20	
17	4.22	3.95	10.40	41.00	31.10	24.50	46.00	23.39	34.82	62.05	42.00	10.40	
18	4.22	4.49	11.90	29.90	27.54	24.88	48.50	21.17	36.50	92.30	38.75	9.50	
19	4.22	4.49	11.00	26.78	26.02	26.02	50.00	20.46	34.82	112.75	37.85	8.90	
20	3.68	5.03	10.10	24.88	27.54	26.40	55.00	20.46	34.40	147.20	33.14	9.20	
21	2.87	4.49	9.80	25.26	27.54	30.30	54.50	19.10	57.65	227.25	22.65	11.60	
22	2.60	4.22	10.10	26.78	25.26	37.85	51.00	18.42	54.50	147.90	21.17	10.70	
23	2.34	4.49	13.70	42.50	24.13	48.50	47.00	18.42	52.50	161.20	19.10	11.00	
24	2.08	6.38	14.34	31.10	24.50	38.75	50.50	17.74	49.50	135.30	18.42	10.70	
25	2.08	9.20	13.70	28.30	22.65	34.82	60.95	18.08	42.50	97.15	17.06	10.70	
26	1.82	7.46	12.80	17.74	20.12	44.00	49.50	23.02	36.08	84.50	17.40	11.60	
27	1.82	7.19	12.50	19.10	19.10	47.00	46.00	23.39	33.98	162.60	19.44	11.30	
28	1.56	7.19	12.20	18.76	18.08	39.20	44.50	22.65	33.14	118.60	27.54	13.40	
29	1.56	9.80	12.20	29.10	17.74	36.50	49.00	21.91	29.50	89.30		13.70	
30	1.56	9.20	14.68	21.91	26.78	33.98	48.00	21.54	38.75	74.90		14.00	
31		10.40		20.80	24.88		67.55		43.00	65.90		13.10	
Total	157.58	146.22	303.00	858.05	738.41	862.02	1413.72	935.77	2050.31	4507.40	979.60	384.60	13336.68 CMSDAY
Mean	5.25	4.72	10.10	27.68	23.82	28.73	45.60	31.19	66.14	145.40	34.99	12.41	36.54 CMS
Max	13.40	10.40	14.68	65.90	33.98	48.50	67.55	77.30	221.25	362.10	59.85	21.91	362.10 CMS
Min	1.56	1.30	6.92	16.72	17.40	17.40	30.70	17.74	23.39	62.05	17.06	8.90	1.30 CMS
Runoff	13.61	12.63	26.18	74.14	63.80	74.48	122.15	80.85	177.15	389.44	84.64	33.23	1152.29 MCM

Momentary Peak 426.00 CMS, at 38.80 m. (MSL.), at 18.00 Hours, on Jan 5, 2017

Runoff Yield 74.88 Liters/Second/Square KM. Momentary Peak Yield 872.990 Liters/Second/Square KM.

WATER YEAR : 2016

TAPI RIVER BASIN

Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)

Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban Bang Rup	**Amphoe** Phrasaeng	**Changwat** Surat Thani
Drainge Area	866 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.	**Elevation**	+19.252 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation + 18.150 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

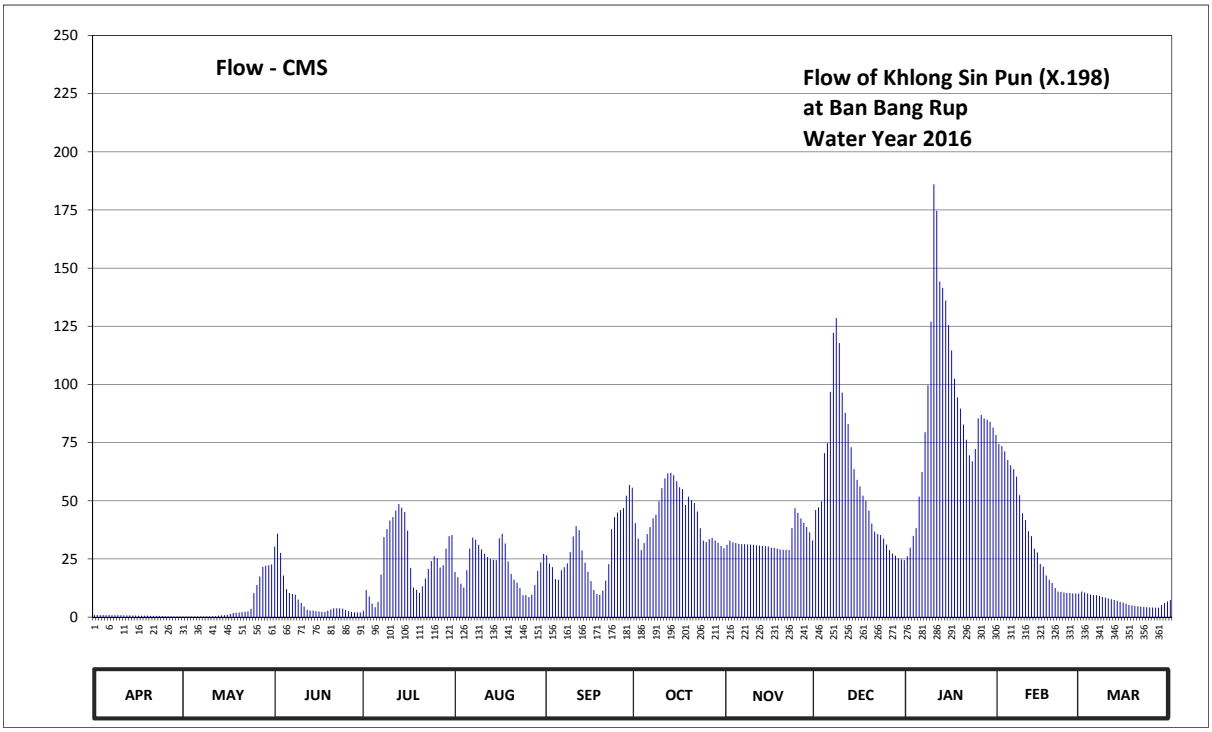
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.14	9.98	13.42	10.59	12.60	13.17	14.09	13.47	14.40	13.14	15.72	11.80	
2	10.14	9.98	13.79	11.86	12.41	12.90	13.65	13.59	14.46	13.39	15.68	11.75	
3	10.13	9.98	13.24	11.53	12.14	12.77	13.32	13.54	14.59	13.73	15.59	11.70	
4	10.13	9.98	12.47	11.13	11.97	12.33	13.52	13.52	15.56	13.95	15.44	11.64	
5	10.12	9.98	11.90	10.88	12.66	12.30	13.78	13.50	15.73	14.69	15.35	11.61	
6	10.12	9.98	11.72	11.24	13.36	12.66	13.98	13.49	16.51	15.22	15.28	11.60	
7	10.11	9.98	11.66	12.51	13.68	12.77	14.22	13.49	17.18	15.92	15.12	11.57	
8	10.11	9.98	11.63	13.69	13.62	12.91	14.30	13.48	17.31	16.59	14.72	11.51	
9	10.11	9.99	11.37	13.92	13.47	13.26	14.59	13.48	17.07	17.28	14.33	11.47	
10	10.10	9.99	11.18	14.17	13.34	13.71	14.87	13.47	16.50	18.21	14.18	11.43	
11	10.09	10.00	10.92	14.25	13.22	14.01	15.08	13.46	16.21	18.07	13.86	11.39	
12	10.09	10.00	10.67	14.39	13.12	13.89	15.19	13.45	16.05	17.62	13.72	11.34	
13	10.08	10.05	10.60	14.53	13.06	13.31	15.20	13.44	15.66	17.57	13.36	11.30	
14	10.07	10.09	10.60	14.45	13.03	12.93	15.15	13.43	15.28	17.46	13.25	11.25	
15	10.07	10.10	10.53	14.36	13.02	12.61	15.02	13.42	15.05	17.25	12.89	11.21	
16	10.06	10.15	10.50	13.88	13.66	12.25	14.89	13.39	14.91	16.99	12.79	11.13	
17	10.06	10.25	10.47	12.75	13.79	11.87	14.85	13.38	14.71	16.67	12.47	11.04	
18	10.05	10.35	10.47	11.97	13.51	11.66	14.51	13.36	14.60	16.43	12.31	11.00	
19	10.05	10.37	10.58	11.87	12.98	11.61	14.69	13.34	14.39	16.27	12.17	10.97	
20	10.04	10.40	10.70	11.73	12.53	11.84	14.61	13.33	14.08	16.04	11.95	10.94	
21	10.03	10.45	10.80	12.02	12.31	12.27	14.55	13.33	13.85	15.79	11.80	10.92	
22	10.03	10.48	10.80	12.36	12.18	12.88	14.37	13.32	13.78	15.52	11.78	10.90	
23	10.02	10.52	10.80	12.71	11.95	13.92	13.95	13.95	13.75	15.42	11.75	10.88	
24	10.02	10.75	10.77	12.99	11.60	14.25	13.59	14.44	13.65	15.63	11.72	10.86	
25	10.01	11.71	10.65	13.14	11.60	14.35	13.55	14.34	13.48	16.13	11.72	10.85	
26	10.01	12.08	10.55	13.08	11.50	14.40	13.63	14.22	13.32	16.18	11.70	10.84	
27	10.00	12.44	10.46	12.76	11.64	14.44	13.67	14.10	13.22	16.13	11.70	10.84	
28	9.99	12.78	10.41	12.84	12.08	14.71	13.59	13.98	13.16	16.11	11.69	11.03	
29	9.98	12.82	10.40	13.36	12.64	14.94	13.53	13.83	13.08	16.08		11.17	
30	9.98	12.84	10.39	13.72	12.94	14.88	13.44	13.60	13.05	16.00		11.27	
31		12.87		13.75	13.21		13.37		13.02	15.87		11.34	
Mean	10.06	10.69	11.15	12.85	12.74	13.19	14.22	13.60	14.76	16.04	13.36	11.24	
Max	10.14	12.87	13.79	14.53	13.79	14.94	15.20	14.44	17.31	18.21	15.72	11.80	18.21
Min	9.98	9.98	10.39	10.59	11.50	11.61	13.32	13.32	13.02	13.14	11.69	10.84	9.98

Annual Max Momentary Gage Height 18.69 m. (MSL.) , at 21.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 9.20 m. (MSL.)

Left Bank Elevation 18.25 m. (MSL.) ,

Right Bank Elevation 18.14 m. (MSL.) , Drainage Are 866 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.96	0.32	30.30	2.76	19.40	26.55	40.35	31.05	46.00	26.10	74.50	11.00	
2	0.96	0.32	35.85	11.60	17.12	23.00	33.75	32.85	47.20	29.85	73.50	10.60	
3	0.92	0.32	27.60	8.84	14.40	21.44	28.80	32.10	49.80	34.95	71.25	10.20	
4	0.92	0.32	17.84	5.78	12.70	16.30	31.80	31.80	70.50	38.25	67.50	9.72	
5	0.88	0.32	12.00	4.28	20.12	16.00	35.70	31.50	74.75	51.80	65.25	9.48	
6	0.88	0.32	10.36	6.52	29.40	20.12	38.70	31.35	96.85	62.40	63.60	9.40	
7	0.84	0.32	9.88	18.32	34.20	21.44	42.40	31.35	122.20	79.50	60.40	9.16	
8	0.84	0.32	9.64	34.35	33.30	23.12	44.00	31.20	128.50	99.65	52.40	8.68	
9	0.84	0.36	7.56	37.80	31.05	27.90	49.80	31.20	117.80	127.00	44.60	8.36	
10	0.80	0.36	6.08	41.55	29.10	34.65	55.40	31.05	96.50	186.00	41.70	8.04	
11	0.76	0.40	4.52	43.00	27.30	39.15	59.60	30.90	87.80	174.60	36.90	7.72	
12	0.76	0.40	3.15	45.80	25.80	37.35	61.80	30.75	83.00	144.20	34.80	7.32	
13	0.72	0.60	2.80	48.60	24.98	28.65	62.00	30.60	73.00	141.50	29.40	7.00	
14	0.68	0.76	2.80	47.00	24.59	23.36	61.00	30.45	63.60	136.00	27.75	6.60	
15	0.68	0.80	2.52	45.20	24.46	19.52	58.40	30.30	59.00	125.50	22.88	6.28	
16	0.64	1.00	2.40	37.20	33.90	15.50	55.80	29.85	56.20	114.60	21.68	5.78	
17	0.64	1.40	2.28	21.20	35.85	11.70	55.00	29.70	52.20	102.45	17.84	5.24	
18	0.60	1.80	2.28	12.70	31.65	9.88	48.20	29.40	50.00	94.40	16.10	5.00	
19	0.60	1.88	2.72	11.70	23.96	9.48	51.80	29.10	45.80	89.60	14.70	4.82	
20	0.56	2.00	3.30	10.44	18.56	11.40	50.20	28.95	40.20	82.70	12.50	4.64	
21	0.52	2.20	3.80	13.20	16.10	15.70	49.00	28.95	36.75	76.25	11.00	4.52	
22	0.52	2.32	3.80	16.60	14.80	22.76	45.40	28.80	35.70	69.50	10.84	4.40	
23	0.48	2.48	3.80	20.72	12.50	37.80	38.25	38.25	35.25	67.00	10.60	4.28	
24	0.48	3.55	3.65	24.08	9.40	43.00	32.85	46.80	33.75	72.25	10.36	4.16	
25	0.44	10.28	3.05	26.10	9.40	45.00	32.25	44.80	31.20	85.40	10.36	4.10	
26	0.44	13.80	2.60	25.24	8.60	46.00	33.45	42.40	28.80	86.90	10.20	4.04	
27	0.40	17.48	2.24	21.32	9.72	46.80	34.05	40.50	27.30	85.40	10.20	4.04	
28	0.36	21.56	2.04	22.28	13.80	52.20	32.85	38.70	26.40	84.80	10.12	5.18	
29	0.32	22.04	2.00	29.40	19.88	56.80	31.95	36.45	25.24	83.90		6.02	
30	0.32	22.28	1.96	34.80	23.48	55.60	30.60	33.00	24.85	81.50		6.76	
31		22.64		35.25	27.15		29.55		24.46	78.25		7.32	
Total	19.76	154.95	224.82	763.63	676.67	858.17	1354.70	994.10	1790.60	2812.20	932.93	209.86	10792.39	CMSDAY
Mean	0.66	5.00	7.49	24.63	21.83	28.61	43.70	33.14	57.76	90.72	33.32	6.77	29.57	CMS
Max	0.96	22.64	35.85	48.60	35.85	56.80	62.00	46.80	128.50	186.00	74.50	11.00	186.00	CMS
Min	0.32	0.32	1.96	2.76	8.60	9.48	28.80	28.80	24.46	26.10	10.12	4.04	0.32	CMS
Runoff	1.71	13.39	19.42	65.98	58.46	74.15	117.05	85.89	154.71	242.97	80.61	18.13	932.46	MCM

Momentary Peak 242.60 CMS, at 18.69 m. (MSL.), at 21.00 Hours, on Jan 10, 2017

Runoff Yield 34.14 Liters/Second/Square KM. Momentary Peak Yield 280.140 Liters/Second/Square KM.

WATER YEAR : 2016

TAPI RIVER BASIN

Tapi River at Ban Khian Sa , Surat Thani (X.217)

Lat 08 - 50 - 54 N Long 99 - 12 - 03 E

Location : on left bank at Ban Khian Sa.

	Ban Khian Sa	**Amphoe** Khian Sa	**Changwat** Surat Thani
Drainge Area	6,697 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+9.801 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

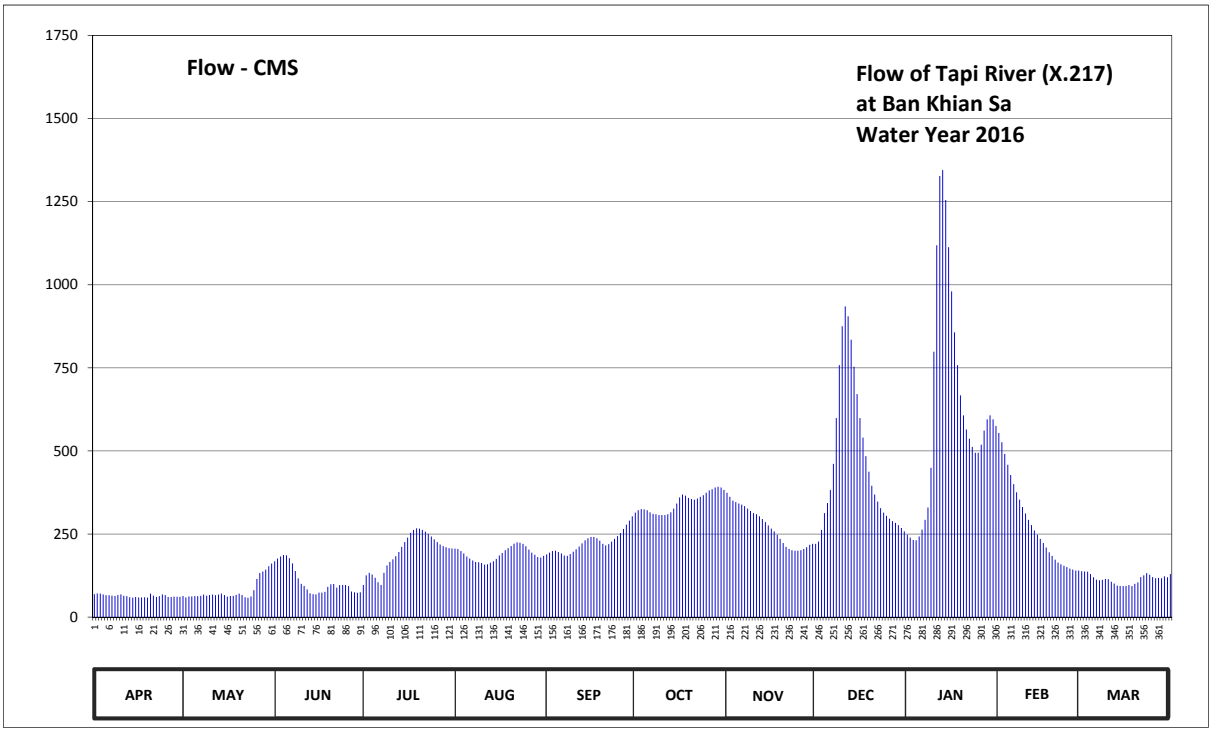
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.19	1.69	0.71	2.12	1.93	3.21	3.61	2.28	2.59	4.24	1.30	
2	0.32	0.12	1.79	1.12	2.11	1.99	3.27	3.54	2.36	2.49	4.16	1.29	
3	0.31	0.17	1.86	1.23	2.04	2.04	3.30	3.47	2.75	2.41	4.06	1.28	
4	0.27	0.17	1.91	1.16	1.96	2.05	3.29	3.44	3.20	2.40	3.96	1.18	
5	0.23	0.18	1.90	1.02	1.86	2.01	3.27	3.41	3.42	2.53	3.85	1.04	
6	0.23	0.18	1.80	0.83	1.79	1.96	3.22	3.39	3.66	2.76	3.74	0.94	
7	0.21	0.20	1.61	0.71	1.72	1.89	3.18	3.36	3.97	3.03	3.62	0.91	
8	0.19	0.26	1.31	1.23	1.66	1.88	3.17	3.31	4.36	3.33	3.49	0.93	
9	0.24	0.21	0.99	1.53	1.65	1.94	3.15	3.25	4.74	3.93	3.34	0.97	
10	0.27	0.24	0.76	1.66	1.62	2.02	3.15	3.20	5.00	4.83	3.19	0.96	
11	0.20	0.26	0.67	1.76	1.56	2.10	3.15	3.17	5.12	5.47	3.03	0.85	
12	0.18	0.23	0.52	1.87	1.57	2.19	3.17	3.12	5.06	5.82	2.89	0.77	
13	0.13	0.26	0.33	2.01	1.63	2.30	3.22	3.05	4.91	5.85	2.73	0.68	
14	0.11	0.31	0.28	2.18	1.69	2.40	3.31	2.97	4.73	5.70	2.59	0.67	
15	0.14	0.24	0.27	2.34	1.78	2.47	3.41	2.88	4.54	5.46	2.45	0.66	
16	0.12	0.16	0.36	2.49	1.89	2.51	3.53	2.79	4.36	5.21	2.31	0.67	
17	0.12	0.19	0.36	2.65	1.98	2.51	3.58	2.70	4.20	4.96	2.16	0.70	
18	0.13	0.20	0.40	2.75	2.07	2.47	3.56	2.58	4.04	4.74	2.00	0.66	
19	0.11	0.25	0.63	2.80	2.14	2.39	3.52	2.45	3.89	4.53	1.88	0.76	
20	0.31	0.31	0.74	2.79	2.21	2.28	3.50	2.31	3.72	4.38	1.75	0.82	
21	0.21	0.24	0.75	2.75	2.29	2.23	3.49	2.18	3.58	4.27	1.64	1.05	
22	0.14	0.13	0.59	2.69	2.33	2.27	3.51	2.11	3.45	4.19	1.57	1.12	
23	0.18	0.10	0.70	2.62	2.32	2.36	3.54	2.07	3.32	4.12	1.52	1.22	
24	0.27	0.17	0.71	2.53	2.28	2.45	3.57	2.05	3.21	4.07	1.47	1.15	
25	0.24	0.48	0.71	2.43	2.20	2.54	3.61	2.05	3.13	4.07	1.41	1.05	
26	0.14	0.97	0.66	2.34	2.09	2.64	3.65	2.07	3.06	4.14	1.37	1.00	
27	0.14	1.22	0.42	2.26	1.99	2.78	3.67	2.11	3.00	4.26	1.33	1.01	
28	0.16	1.29	0.38	2.21	1.92	2.90	3.70	2.17	2.95	4.35	1.33	1.00	
29	0.15	1.37	0.35	2.17	1.84	3.01	3.71	2.25	2.89	4.38		1.08	
30	0.15	1.50	0.38	2.14	1.82	3.12	3.70	2.28	2.81	4.35		1.04	
31		1.60		2.13	1.88		3.66		2.70	4.30		1.18	
Mean	0.20	0.43	0.86	1.97	1.94	2.32	3.42	2.78	3.69	4.16	2.61	0.97	
Max	0.32	1.60	1.91	2.80	2.33	3.12	3.71	3.61	5.12	5.85	4.24	1.30	5.85
Min	0.11	0.10	0.27	0.71	1.56	1.88	3.15	2.05	2.28	2.40	1.33	0.66	0.10

Annual Max Momentary Gage Height 5.88 m. (MSL.) , at 23.00 Hours , on Jan 12 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -7.90 m. (MSL.)

Left Bank Elevation 8.80 m. (MSL.) ,

Right Bank Elevation 8.35 m. (MSL.) , Drainage Are 6,697 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.80	63.40	168.20	96.70	205.80	188.70	314.20	373.80	220.20	248.10	554.00	138.00	
2	71.20	59.20	176.20	125.40	204.90	194.10	321.40	361.80	227.40	239.10	526.00	137.30	
3	70.60	62.20	182.40	133.10	198.60	198.60	325.00	350.50	262.50	231.90	491.00	136.60	
4	68.20	62.20	186.90	128.20	191.40	199.50	323.80	346.00	313.00	231.00	458.00	129.60	
5	65.80	62.80	186.00	118.40	182.40	195.90	321.40	341.50	343.00	242.70	427.50	119.80	
6	65.80	62.80	177.00	105.10	176.20	191.40	315.40	338.50	382.80	263.40	400.00	112.80	
7	64.60	64.00	161.80	96.70	170.60	185.10	310.60	334.00	461.00	292.60	375.60	110.70	
8	63.40	67.60	138.70	133.10	165.80	184.20	309.40	326.50	599.00	329.50	353.50	112.10	
9	66.40	64.60	116.30	155.40	165.00	189.60	307.00	319.00	758.00	449.00	331.00	114.90	
10	68.20	66.40	100.20	165.80	162.60	196.80	307.00	313.00	875.00	798.50	311.80	114.20	
11	64.00	67.60	93.90	173.80	157.80	204.00	307.00	309.40	935.00	1118.50	292.60	106.50	
12	62.80	65.80	83.40	183.30	158.60	212.10	309.40	303.40	905.00	1327.00	276.90	100.90	
13	59.80	67.60	71.80	195.90	163.40	222.00	315.40	295.00	834.50	1345.00	260.70	94.60	
14	58.60	70.60	68.80	211.20	168.20	231.00	326.50	285.70	753.50	1255.00	248.10	93.90	
15	60.40	66.40	68.20	225.60	175.40	237.30	341.50	275.80	671.00	1113.00	235.50	93.20	
16	59.20	61.60	73.60	239.10	185.10	240.90	360.10	266.10	599.00	980.00	222.90	93.90	
17	59.20	63.40	73.60	253.50	193.20	240.90	368.60	258.00	540.00	857.00	209.40	96.00	
18	59.80	64.00	76.00	262.50	201.30	237.30	365.20	247.20	484.00	758.00	195.00	93.20	
19	58.60	67.00	91.10	267.00	207.60	230.10	358.40	235.50	437.50	667.00	184.20	100.20	
20	70.60	70.60	98.80	266.10	213.90	220.20	355.00	222.90	395.00	607.00	173.00	104.40	
21	64.60	66.40	99.50	262.50	221.10	215.70	353.50	211.20	368.60	564.50	164.20	120.50	
22	60.40	59.80	88.30	257.10	224.70	219.30	356.70	204.90	347.50	536.50	158.60	125.40	
23	62.80	58.00	96.00	250.80	223.80	227.40	361.80	201.30	328.00	512.00	154.60	132.40	
24	68.20	62.20	96.70	242.70	220.20	235.50	366.90	199.50	314.20	494.50	150.60	127.50	
25	66.40	80.80	96.70	233.70	213.00	243.60	373.80	199.50	304.60	494.50	145.80	120.50	
26	60.40	114.90	93.20	225.60	203.10	252.60	381.00	201.30	296.20	519.00	142.90	117.00	
27	60.40	132.40	77.20	218.40	194.10	265.20	384.60	204.90	289.00	561.00	140.10	117.70	
28	61.60	137.30	74.80	213.90	187.80	278.00	390.00	210.30	283.50	595.00	140.10	117.00	
29	61.00	142.90	73.00	210.30	180.60	290.20	392.50	217.50	276.90	607.00		122.60	
30	61.00	153.00	74.80	207.60	178.80	303.40	390.00	220.20	268.10	595.00		119.80	
31		161.00		206.70	184.20		382.80		258.00	575.00		129.60	
Total	1912.80	2468.50	3263.10	6065.20	5879.20	6730.60	10695.90	8174.20	14331.00	19407.30	7723.60	3552.80	90204.20 CMSDAY
Mean	63.76	79.63	108.77	195.65	189.65	224.35	345.03	272.47	462.29	626.04	275.84	114.61	247.13 CMS
Max	71.20	161.00	186.90	267.00	224.70	303.40	392.50	373.80	935.00	1345.00	554.00	138.00	1345.00 CMS
Min	58.60	58.00	68.20	96.70	157.80	184.20	307.00	199.50	220.20	231.00	140.10	93.20	58.00 CMS
Runoff	165.27	213.28	281.93	524.03	507.96	581.52	924.13	706.25	1238.20	1676.79	667.32	306.96	7793.64 MCM

Momentary Peak 1363.00 CMS. at 5.88 m. (MSL.) at 23.00 Hours , on Jan 12 , 2017

Runoff Yield 36.90 Liters/Second/Square KM. Momentary Peak Yield 203.530 Liters/Second/Square KM.

WATER YEAR : 2016

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).

	Ban	Khuan Klang (1)	**Amphoe**	Khian Sa	**Changwat** Surat Thani
Drainge Area	343	sq.km.			
Type of Gage	Staff gage				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank at the abutment of the bridge.			**Elevation**	- m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	2015 to date				
Rating Operation					
Period of Rating	2015 to date				
Rated by Flot	-				
Rated by Current Meter	2015 to date				
Stability of Channel Regimes	Fairly stable because of backwater effect.				
Overbank Flow Conditions	Overbank flow starts at elevation + 43.370 m.(MSL.), records are channel flow only.				
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

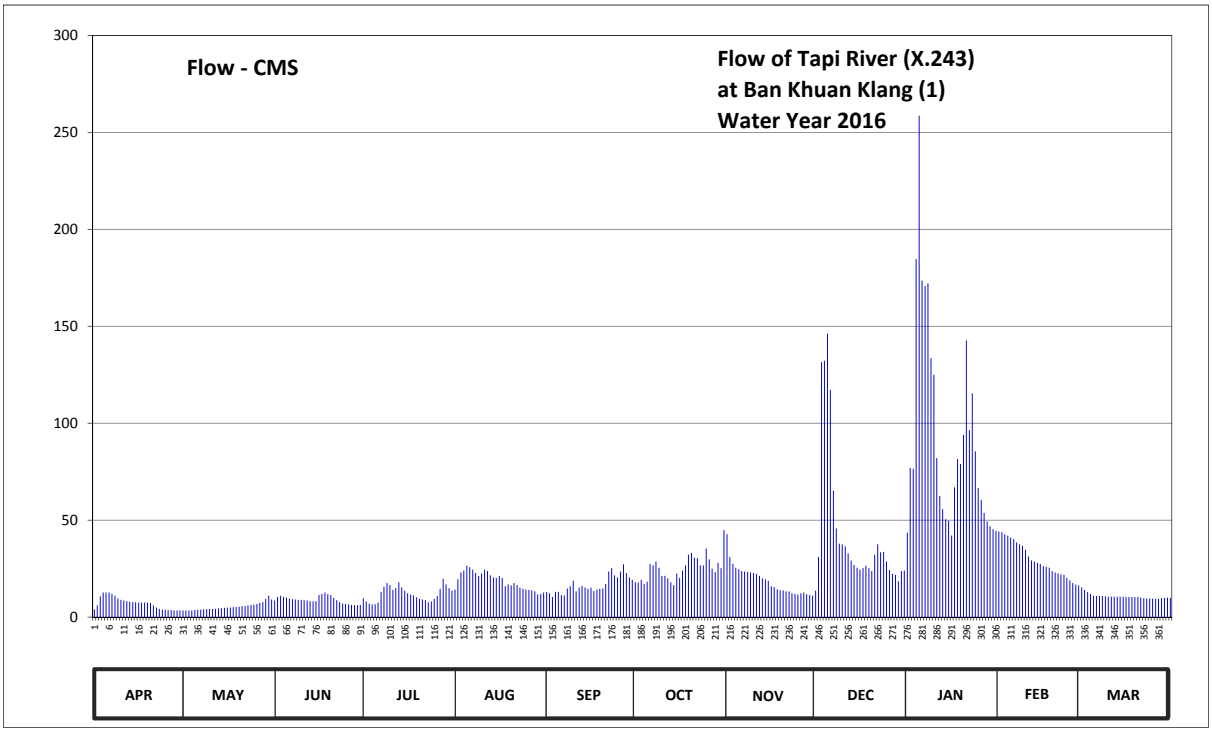
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.34	39.28	39.69	39.76	40.01	39.95	40.20	41.05	39.98	41.07	41.09	40.07	
2	39.52	39.28	39.80	39.66	40.26	39.91	40.19	40.70	40.70	41.88	41.08	40.00	
3	39.82	39.28	39.84	39.58	40.40	39.80	40.25	40.58	42.85	41.87	41.05	39.94	
4	39.93	39.28	39.80	39.56	40.44	39.95	40.16	40.50	42.86	43.61	41.03	39.89	
5	39.93	39.31	39.78	39.56	40.54	39.95	40.21	40.47	43.06	44.54	41.00	39.84	
6	39.93	39.32	39.75	39.62	40.51	39.86	40.58	40.43	42.62	43.45	40.98	39.83	
7	39.89	39.33	39.73	39.94	40.46	39.84	40.55	40.42	41.62	43.41	40.93	39.83	
8	39.84	39.35	39.72	40.09	40.39	40.04	40.62	40.41	41.13	43.43	40.90	39.83	
9	39.75	39.36	39.71	40.18	40.33	40.10	40.50	40.40	40.91	42.88	40.88	39.82	
10	39.71	39.37	39.71	40.13	40.38	40.23	40.33	40.39	40.90	42.75	40.82	39.81	
11	39.69	39.37	39.70	40.00	40.46	39.96	40.33	40.37	40.87	41.98	40.71	39.81	
12	39.67	39.38	39.69	40.05	40.43	40.06	40.28	40.33	40.76	41.55	40.64	39.81	
13	39.65	39.39	39.67	40.20	40.34	40.11	40.20	40.28	40.64	41.38	40.62	39.81	
14	39.63	39.41	39.66	40.07	40.30	40.07	40.13	40.26	40.56	41.25	40.60	39.81	
15	39.63	39.42	39.67	39.98	40.29	40.03	40.38	40.23	40.50	41.23	40.58	39.81	
16	39.62	39.43	39.86	39.91	40.33	40.06	40.29	40.10	40.46	41.03	40.53	39.80	
17	39.62	39.44	39.89	39.87	40.29	39.97	40.44	40.08	40.49	41.66	40.52	39.80	
18	39.62	39.45	39.93	39.85	40.10	40.01	40.55	40.02	40.54	41.97	40.50	39.80	
19	39.62	39.46	39.88	39.79	40.15	40.03	40.74	39.99	40.49	41.92	40.43	39.80	
20	39.61	39.47	39.86	39.74	40.12	40.04	40.77	39.99	40.43	42.22	40.40	39.80	
21	39.52	39.49	39.77	39.72	40.18	40.16	40.69	39.96	40.74	43.01	40.38	39.78	
22	39.44	39.50	39.70	39.70	40.13	40.42	40.68	39.96	40.90	42.27	40.36	39.76	
23	39.37	39.52	39.63	39.63	40.06	40.49	40.55	39.91	40.78	42.59	40.35	39.75	
24	39.33	39.54	39.58	39.66	40.03	40.34	40.55	39.89	40.79	42.05	40.29	39.75	
25	39.32	39.55	39.57	39.74	40.01	40.30	40.84	39.87	40.62	41.65	40.24	39.75	
26	39.31	39.57	39.56	39.83	40.00	40.42	40.66	39.91	40.45	41.50	40.18	39.74	
27	39.30	39.61	39.54	40.03	39.99	40.57	40.48	39.93	40.37	41.33	40.14	39.74	
28	39.28	39.63	39.53	40.27	39.96	40.39	40.41	39.88	40.35	41.22	40.12	39.76	
29	39.28	39.74	39.53	40.15	39.87	40.30	40.60	39.86	40.22	41.16		39.77	
30	39.28	39.84	39.54	40.05	39.89	40.25	40.49	39.84	40.43	41.12		39.78	
31		39.72		39.98	39.93		41.11		40.44	41.10		39.77	
Mean	39.58	39.45	39.71	39.88	40.21	40.12	40.48	40.20	40.92	42.07	40.62	39.81	
Max	39.93	39.84	39.93	40.27	40.54	40.57	41.11	41.05	43.06	44.54	41.09	40.07	44.54
Min	39.28	39.28	39.53	39.56	39.87	39.80	40.13	39.84	39.98	41.03	40.12	39.74	39.28

Annual Max Momentary Gage Height 44.98 m. (MSL.) , at 10.00 Hours , on Jan 5 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 36.52 m. (MSL.)

Left Bank Elevation 43.36 m. (MSL.) ,

Right Bank Elevation 43.96 m. (MSL.) , Drainage Are 343 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.96	3.42	8.55	9.72	14.19	13.05	18.00	42.75	13.62	43.45	44.15	15.33	
2	6.00	3.42	10.40	8.10	19.50	12.29	17.79	31.00	31.00	77.00	43.80	14.00	
3	10.74	3.42	11.08	6.90	23.00	10.40	19.25	27.50	131.50	76.50	42.75	12.86	
4	12.67	3.42	10.40	6.60	24.00	13.05	17.16	25.50	132.20	184.70	42.05	11.93	
5	12.67	3.69	10.06	6.60	26.50	13.05	18.25	24.75	146.20	258.60	41.00	11.08	
6	12.67	3.78	9.55	7.50	25.75	11.42	27.50	23.75	117.20	173.50	40.30	10.91	
7	11.93	3.87	9.21	12.86	24.50	11.08	26.75	23.50	65.30	170.70	38.55	10.91	
8	11.08	4.05	9.04	15.71	22.75	14.76	28.60	23.25	45.70	172.10	37.50	10.91	
9	9.55	4.14	8.87	17.58	21.25	15.90	25.50	23.00	37.85	133.60	36.80	10.74	
10	8.87	4.23	8.87	16.53	22.50	18.75	21.25	22.75	37.50	125.00	34.70	10.57	
11	8.55	4.23	8.70	14.00	24.50	13.24	21.25	22.25	36.45	82.00	31.30	10.57	
12	8.25	4.32	8.55	14.95	23.75	15.14	20.00	21.25	32.80	62.50	29.20	10.57	
13	7.95	4.41	8.25	18.00	21.50	16.11	18.00	20.00	29.20	55.70	28.60	10.57	
14	7.65	4.62	8.10	15.33	20.50	15.33	16.53	19.50	27.00	50.50	28.00	10.57	
15	7.65	4.74	8.25	13.62	20.25	14.57	22.50	18.75	25.50	49.70	27.50	10.57	
16	7.50	4.86	11.42	12.29	21.25	15.14	20.25	15.90	24.50	42.05	26.25	10.40	
17	7.50	4.98	11.93	11.59	20.25	13.43	24.00	15.52	25.25	66.90	26.00	10.40	
18	7.50	5.10	12.67	11.25	15.90	14.19	26.75	14.38	26.50	81.50	25.50	10.40	
19	7.50	5.22	11.76	10.23	16.95	14.57	32.20	13.81	25.25	79.00	23.75	10.40	
20	7.35	5.34	11.42	9.38	16.32	14.76	33.10	13.81	23.75	94.00	23.00	10.40	
21	6.00	5.58	9.89	9.04	17.58	17.16	30.70	13.24	32.20	142.70	22.50	10.06	
22	4.98	5.70	8.70	8.70	16.53	23.50	30.40	13.24	37.50	96.50	22.00	9.72	
23	4.23	6.00	7.65	7.65	15.14	25.25	26.75	12.29	33.40	115.40	21.75	9.55	
24	3.87	6.30	6.90	8.10	14.57	21.50	26.75	11.93	33.70	85.50	20.25	9.55	
25	3.78	6.45	6.75	9.38	14.19	20.50	35.40	11.59	28.60	66.50	19.00	9.55	
26	3.69	6.75	6.60	10.91	14.00	23.50	29.80	12.29	24.25	60.50	17.58	9.38	
27	3.60	7.35	6.30	14.57	13.81	27.25	25.00	12.67	22.25	53.70	16.74	9.38	
28	3.42	7.65	6.15	19.75	13.24	22.75	23.25	11.76	21.75	49.30	16.32	9.72	
29	3.42	9.38	6.15	16.95	11.59	20.50	28.00	11.42	18.50	46.90		9.89	
30	3.42	11.08	6.30	14.95	11.93	19.25	25.25	11.08	23.75	45.30		10.06	
31		9.04		13.62	12.67		44.90		24.00	44.50		9.89	
Total	217.95	166.54	268.47	372.36	580.36	501.39	780.83	564.43	1334.17	2885.80	826.84	330.84	8829.98 CMSDAY
Mean	7.26	5.37	8.95	12.01	18.72	16.71	25.19	18.81	43.04	93.09	29.53	10.67	24.19 CMS
Max	12.67	11.08	12.67	19.75	26.50	27.25	44.90	42.75	146.20	258.60	44.15	15.33	258.60 CMS
Min	3.42	3.42	6.15	6.60	11.59	10.40	16.53	11.08	13.62	42.05	16.32	9.38	3.42 CMS
Runoff	18.83	14.39	23.20	32.17	50.14	43.32	67.46	48.77	115.27	249.33	71.44	28.58	762.91 MCM

Momentary Peak 298.20 CMS. at 44.98 m. (MSL.) at 10.00 Hours , on Jan 5 , 2017

Runoff Yield 70.46 Liters/Second/Square KM. Momentary Peak Yield 868.500 Liters/Second/Square KM.

WATER YEAR : 2016

TAPI RIVER BASIN

Lower Khlong I - Pan at Ban Arpart , Surat Thani (X.260)

Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

Ban Arpart **Amphoe** Phrasaeng **Changwat** Surat Thani

Drainge Area	2,076 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+3.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +13.658 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2007 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Flot	-
Rated by Current Meter	2007 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation + 11.930 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

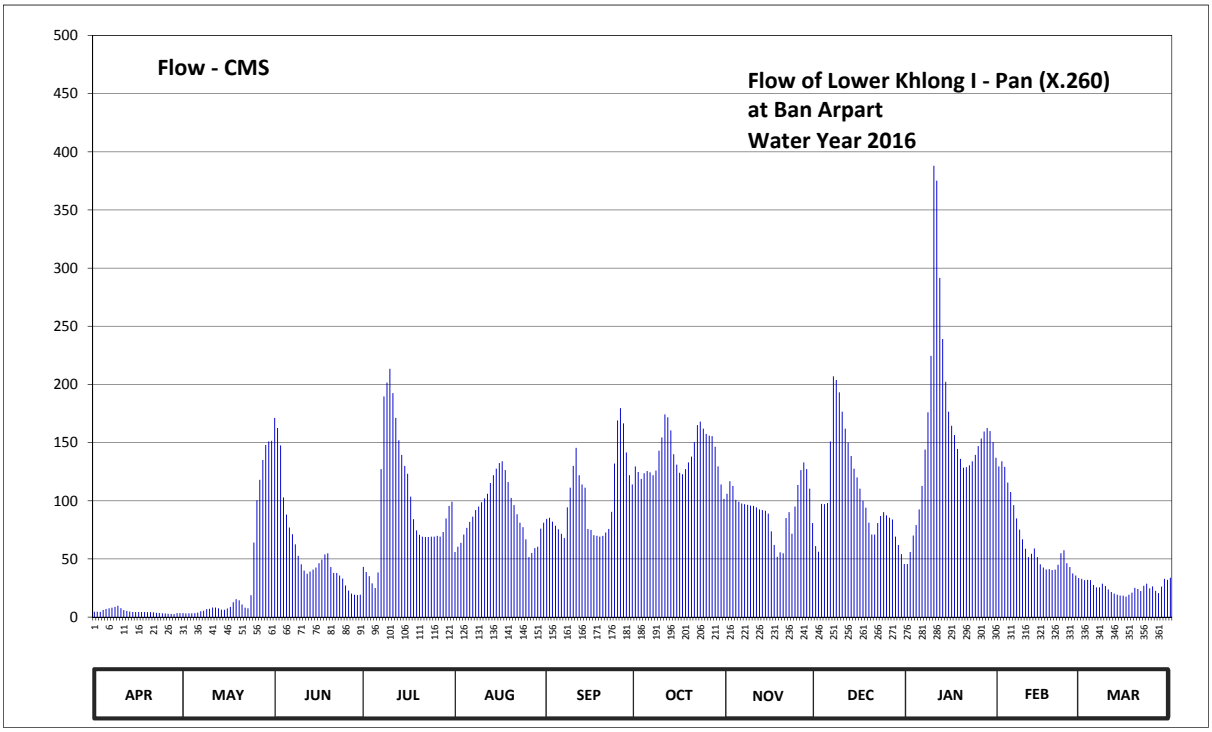
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.61	5.53	11.12	7.61	8.10	9.05	10.29	9.70	8.27	7.73	10.29	7.09	
2	5.61	5.51	10.95	7.39	8.25	9.08	10.17	9.97	8.11	8.10	10.38	7.04	
3	5.60	5.52	10.65	7.21	8.36	8.97	10.02	9.87	9.48	8.57	10.28	7.05	
4	5.71	5.52	9.62	6.90	8.60	8.85	10.14	9.57	9.47	8.87	9.94	7.04	
5	5.77	5.53	9.17	6.70	8.79	8.75	10.19	9.53	9.50	9.32	9.74	6.83	
6	5.80	5.56	8.80	7.37	8.96	8.62	10.16	9.49	10.72	9.87	9.44	6.73	
7	5.84	5.64	8.61	10.23	9.11	8.50	10.10	9.47	11.65	10.58	9.06	6.73	
8	5.89	5.67	8.32	11.41	9.30	9.38	10.20	9.45	11.61	11.20	8.74	6.89	
9	5.94	5.76	7.99	11.58	9.40	9.83	10.56	9.43	11.46	11.87	8.46	6.79	
10	5.81	5.78	7.72	11.73	9.52	10.30	10.79	9.42	11.21	12.90	8.19	6.64	
11	5.70	5.85	7.45	11.45	9.60	10.61	11.17	9.38	10.94	12.86	7.95	6.53	
12	5.66	5.85	7.31	11.12	9.70	10.10	11.13	9.32	10.70	12.47	8.05	6.46	
13	5.62	5.80	7.41	10.74	9.93	9.90	10.91	9.30	10.47	12.02	8.20	6.41	
14	5.59	5.73	7.49	10.49	10.10	9.83	10.50	9.28	10.24	11.59	7.95	6.38	
15	5.59	5.72	7.58	10.30	10.24	8.76	10.32	9.20	10.05	11.21	7.72	6.37	
16	5.59	5.79	7.77	10.13	10.35	8.73	10.15	8.69	9.81	10.99	7.58	6.33	
17	5.59	5.89	7.88	9.64	10.38	8.58	10.12	8.30	9.55	10.83	7.50	6.41	
18	5.59	6.09	8.03	9.04	10.21	8.56	10.23	7.96	9.37	10.59	7.51	6.50	
19	5.58	6.22	8.06	8.72	9.95	8.54	10.36	8.09	8.94	10.42	7.47	6.71	
20	5.58	6.17	7.60	8.59	9.61	8.56	10.46	8.06	8.60	10.26	7.49	6.66	
21	5.57	5.99	7.35	8.54	9.44	8.66	10.71	9.07	8.60	10.27	7.70	6.57	
22	5.55	5.84	7.35	8.53	9.18	8.76	11.00	9.24	8.93	10.31	8.06	6.80	
23	5.54	5.80	7.24	8.53	8.94	9.25	11.06	8.62	9.13	10.38	8.15	6.89	
24	5.52	6.39	7.11	8.54	8.81	10.34	10.94	9.40	9.24	10.49	7.77	6.69	
25	5.51	8.37	6.81	8.54	8.46	11.08	10.85	9.89	9.15	10.64	7.60	6.77	
26	5.49	9.56	6.59	8.56	7.95	11.26	10.82	10.21	9.08	10.77	7.33	6.58	
27	5.48	10.00	6.46	8.54	8.07	11.03	10.81	10.36	9.03	10.89	7.24	6.48	
28	5.47	10.40	6.41	8.67	8.21	10.53	10.63	10.23	8.54	10.95	7.13	6.76	
29	5.53	10.66	6.40	9.06	8.25	10.10	10.29	9.81	8.30	10.90		7.09	
30	5.53	10.72	6.41	9.42	8.77	9.90	9.90	8.93	8.04	10.71		7.05	
31		10.73		9.53	8.94		9.59		7.73	10.44		7.14	
Mean	5.63	6.76	7.92	9.19	9.14	9.48	10.47	9.31	9.55	10.61	8.32	6.72	
Max	5.94	10.73	11.12	11.73	10.38	11.26	11.17	10.36	11.65	12.90	10.38	7.14	12.90
Min	5.47	5.51	6.40	6.70	7.95	8.50	9.59	7.96	7.73	7.73	7.13	6.33	5.47

Annual Max Momentary Gage Height 13.00 m. (MSL.) , at 18.00 Hours , on Jan 10 , 2017

Zero Gage at Bottom Elevation 3.00 m. (MSL.) , River Bed 3.15 m. (MSL.)

Left Bank Elevation 11.92 m. (MSL.) ,

Right Bank Elevation 11.92 m. (MSL.) , Drainage Are 2,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.65	3.45	171.20	43.20	56.00	84.50	129.60	106.00	61.10	45.60	129.60	32.80	
2	4.65	3.15	162.50	38.80	60.50	85.40	124.80	116.80	56.30	56.00	134.00	31.80	
3	4.50	3.30	147.50	35.20	63.80	82.10	118.80	112.80	97.40	70.10	129.20	32.00	
4	6.15	3.30	102.80	29.00	71.00	78.50	123.60	100.80	97.10	79.10	115.60	31.80	
5	7.05	3.45	88.10	25.00	76.70	75.50	125.60	99.20	98.00	92.60	107.60	27.60	
6	7.50	3.90	77.00	38.40	81.80	71.60	124.40	97.70	151.00	112.80	96.20	25.60	
7	8.10	5.10	71.30	127.20	86.30	68.00	122.00	97.10	207.00	144.00	84.80	25.60	
8	8.85	5.55	62.60	189.70	92.00	94.40	126.00	96.50	203.80	176.00	75.20	28.80	
9	9.80	6.90	52.70	201.60	95.00	111.20	143.00	95.90	193.20	224.60	66.80	26.80	
10	7.65	7.20	45.40	213.40	98.80	130.00	154.50	95.60	176.60	388.00	58.70	23.80	
11	6.00	8.25	40.00	192.50	102.00	145.50	174.20	94.40	162.00	375.20	51.50	21.60	
12	5.40	8.25	37.20	171.20	106.00	122.00	171.80	92.60	150.00	291.50	54.50	20.20	
13	4.80	7.50	39.20	152.00	115.20	114.00	160.50	92.00	138.50	239.00	59.00	19.20	
14	4.35	6.45	40.80	139.50	122.00	111.20	140.00	91.40	127.60	202.30	51.50	18.60	
15	4.35	6.30	42.60	130.00	127.60	75.80	131.00	89.00	120.00	176.60	45.40	18.40	
16	4.35	7.35	46.40	123.20	132.50	74.90	124.00	73.70	110.40	164.50	42.60	17.60	
17	4.35	8.85	49.40	103.60	134.00	70.40	122.80	62.00	100.00	156.50	41.00	19.20	
18	4.35	12.80	53.90	84.20	126.40	69.80	127.20	51.80	94.10	144.50	41.20	21.00	
19	4.20	15.40	54.80	74.60	116.00	69.20	133.00	55.70	81.20	136.00	40.40	25.20	
20	4.20	14.40	43.00	70.70	102.40	69.80	138.00	54.80	71.00	128.40	40.80	24.20	
21	4.05	10.80	38.00	69.20	96.20	72.80	150.50	85.10	71.00	128.80	45.00	22.40	
22	3.75	8.10	38.00	68.90	88.40	75.80	165.00	90.20	80.90	130.50	54.80	27.00	
23	3.60	7.50	35.80	68.90	81.20	90.50	168.00	71.60	86.90	134.00	57.50	28.80	
24	3.30	18.80	33.20	69.20	77.30	132.00	162.00	95.00	90.20	139.50	46.40	24.80	
25	3.15	64.10	27.20	69.20	66.80	169.00	157.50	113.60	87.50	147.00	43.00	26.40	
26	2.85	100.40	22.80	69.80	51.50	179.60	156.00	126.40	85.40	153.50	37.60	22.60	
27	2.70	118.00	20.20	69.20	55.10	166.50	155.50	133.00	83.90	159.50	35.80	20.60	
28	2.55	135.00	19.20	73.10	59.30	141.50	146.50	127.20	69.20	162.50	33.60	26.20	
29	3.45	148.00	19.00	84.80	60.50	122.00	129.60	110.40	62.00	160.00		32.80	
30	3.45	151.00	19.20	95.60	76.10	114.00	114.00	80.90	54.20	150.50		32.00	
31		151.50		99.20	81.20		101.60		45.60	137.00		33.80	
Total	148.10	1054.05	1701.00	3020.10	2759.60	3067.50	4321.00	2809.20	3313.10	5006.10	1819.30	789.20	29808.25 CMSDAY
Mean	4.94	34.00	56.70	97.42	89.02	102.25	139.39	93.64	106.87	161.49	64.97	25.46	81.67 CMS
Max	9.80	151.50	171.20	213.40	134.00	179.60	174.20	133.00	207.00	388.00	134.00	33.80	388.00 CMS
Min	2.55	3.15	19.00	25.00	51.50	68.00	101.60	51.80	45.60	45.60	33.60	17.60	2.55 CMS
Runoff	12.80	91.07	146.97	260.94	238.43	265.03	373.33	242.71	286.25	432.53	157.19	68.19	2575.43 MCM

Momentary Peak 432.00 CMS. at 13.00 m. (MSL.) at 18.00 Hours , on Jan 10 , 2017

Runoff Yield 39.34 Liters/Second/Square KM. Momentary Peak Yield 208.090 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Hat Yai Nai , Songkhla (X.44)

Lat 07 - 00 - 02 N Long 100 - 27 - 32 E

Location : on left bank at the bridge of Hat Yai - Rattaphum Highway.

	Ban Hat Yai Nai **Amphoe** Hat Yai **Changwat** Songkhla
Drainge Area	1,720 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 200 meters from the top staff gage. **Elevation** +7.341 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1972 , 1983 - 1988 , 1999 to date
Rated by Flot	-
Rated by Current Meter	1967 - 1972 , 1983 - 1988 , 1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

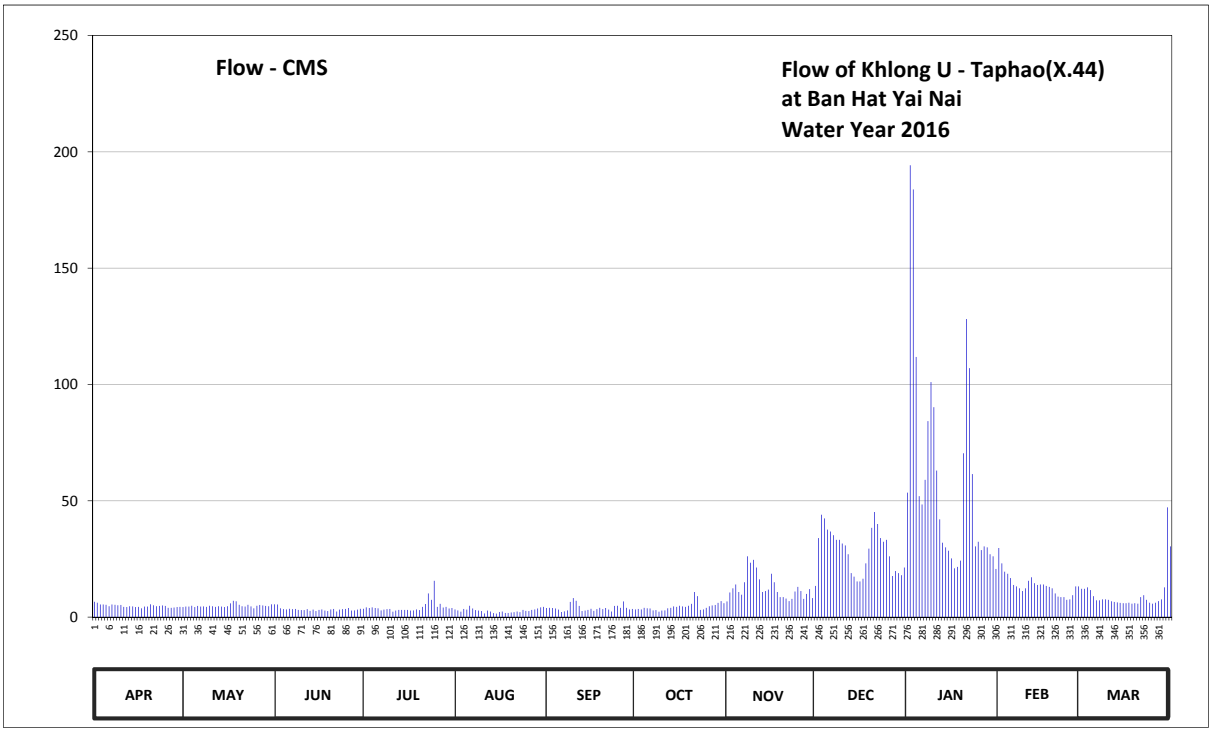
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.03	0.15	-0.04	-0.07	-0.01	-0.07	0.27	0.62	1.77	1.19	0.56	
2	0.22	0.05	0.14	0.02	-0.11	0.00	-0.05	0.48	1.30	3.89	0.97	0.56	
3	0.14	0.05	-0.02	-0.01	-0.17	-0.01	-0.07	0.57	1.55	3.76	0.85	0.59	
4	0.14	0.09	-0.06	0.02	-0.05	-0.03	0.00	0.65	1.51	2.78	0.82	0.53	
5	0.13	0.03	-0.07	-0.01	-0.08	-0.08	-0.02	0.49	1.39	1.74	0.76	0.40	
6	0.07	0.08	-0.04	-0.02	0.09	-0.18	-0.03	0.43	1.37	1.66	0.64	0.31	
7	0.14	0.05	-0.06	-0.11	-0.03	-0.15	-0.11	0.70	1.33	1.88	0.61	0.31	
8	0.13	0.06	-0.05	-0.08	-0.10	-0.11	-0.10	1.07	1.28	2.32	0.57	0.33	
9	0.11	0.04	-0.09	-0.06	-0.12	0.25	-0.17	0.98	1.28	2.60	0.51	0.33	
10	0.12	0.09	-0.10	-0.05	-0.14	0.36	-0.12	1.02	1.24	2.42	0.57	0.32	
11	0.04	0.07	-0.10	-0.17	-0.24	0.30	-0.11	0.91	1.22	1.96	0.72	0.28	
12	0.03	0.04	-0.06	-0.12	-0.12	0.08	-0.02	0.74	1.10	1.50	0.77	0.25	
13	0.07	0.07	-0.13	-0.09	-0.16	-0.14	0.00	0.49	0.83	1.25	0.68	0.23	
14	0.06	0.05	-0.08	-0.09	-0.23	-0.12	0.06	0.51	0.78	1.20	0.64	0.21	
15	0.03	0.03	-0.14	-0.09	-0.25	-0.09	0.04	0.54	0.71	1.15	0.65	0.20	
16	0.04	0.07	-0.09	-0.09	-0.18	-0.04	0.09	0.82	0.71	1.04	0.65	0.20	
17	-0.02	0.19	-0.07	-0.12	-0.16	-0.13	0.06	0.70	0.75	0.90	0.62	0.22	
18	0.05	0.30	-0.12	-0.11	-0.22	-0.06	0.04	0.49	0.97	0.92	0.60	0.18	
19	0.05	0.28	-0.14	-0.07	-0.22	0.00	0.09	0.38	1.18	1.01	0.57	0.20	
20	0.15	0.13	-0.07	-0.10	-0.20	-0.06	0.17	0.38	1.41	2.09	0.46	0.18	
21	0.11	0.07	-0.05	0.04	-0.19	-0.01	0.49	0.35	1.58	3.03	0.39	0.38	
22	0.07	0.05	-0.16	0.16	-0.16	-0.08	0.40	0.29	1.45	2.70	0.38	0.42	
23	0.08	0.13	-0.08	0.46	-0.19	-0.16	-0.09	0.34	1.30	1.93	0.38	0.32	
24	0.10	0.06	-0.06	0.32	-0.09	0.08	-0.07	0.50	1.26	1.21	0.32	0.22	
25	0.08	-0.02	-0.05	0.72	-0.13	0.09	0.00	0.60	1.28	1.26	0.33	0.18	
26	0.00	0.09	-0.01	0.04	-0.14	0.00	0.07	0.51	1.07	1.16	0.42	0.22	
27	0.00	0.12	-0.12	0.17	-0.09	0.27	0.10	0.34	0.79	1.21	0.61	0.29	
28	0.01	0.10	-0.11	0.01	-0.07	0.00	0.12	0.45	0.86	1.20	0.61	0.33	
29	0.03	0.08	-0.08	0.04	-0.03	-0.07	0.21	0.55	0.83	1.10		0.59	
30	0.04	0.07	-0.04	-0.03	0.02	-0.05	0.29	0.36	0.80	1.07		1.63	
31		0.15		-0.01	0.04		0.20		0.91	0.89		1.21	
Mean	0.08	0.09	-0.07	0.02	-0.12	-0.01	0.05	0.56	1.12	1.76	0.62	0.39	
Max	0.26	0.30	0.15	0.72	0.09	0.36	0.49	1.07	1.58	3.89	1.19	1.63	3.89
Min	-0.02	-0.02	-0.16	-0.17	-0.25	-0.18	-0.17	0.27	0.62	0.89	0.32	0.18	-0.25

Annual Max Momentary Gage Height 4.04 m. (MSL.) , at 24.00 Hours , on Jan 2 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.48 m. (MSL.)

Left Bank Elevation 6.97 m. (MSL.) ,

Right Bank Elevation 6.87 m. (MSL.) , Drainage Are 1,720 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.60	4.30	5.50	3.60	3.30	3.90	3.30	6.70	13.40	53.50	29.70	12.20	
2	6.20	4.50	5.40	4.20	2.90	4.00	3.50	10.60	34.00	194.20	23.10	12.20	
3	5.40	4.50	3.80	3.90	2.30	3.90	3.30	12.40	44.00	183.80	19.50	12.80	
4	5.40	4.90	3.40	4.20	3.50	3.70	4.00	14.00	42.40	111.80	18.60	11.60	
5	5.30	4.30	3.30	3.90	3.20	3.20	3.80	10.80	37.60	52.00	16.80	9.00	
6	4.70	4.80	3.60	3.80	4.90	2.20	3.70	9.60	36.80	48.40	13.80	7.20	
7	5.40	4.50	3.40	2.90	3.70	2.50	2.90	15.00	35.20	59.00	13.20	7.20	
8	5.30	4.60	3.50	3.20	3.00	2.90	3.00	26.10	33.20	84.20	12.40	7.60	
9	5.10	4.40	3.10	3.40	2.80	6.50	2.30	23.40	33.20	101.00	11.20	7.60	
10	5.20	4.90	3.00	3.50	2.60	8.20	2.80	24.60	31.60	90.20	12.40	7.40	
11	4.40	4.70	3.00	2.30	1.60	7.00	2.90	21.30	30.80	63.00	15.60	6.80	
12	4.30	4.40	3.40	2.80	2.80	4.80	3.80	16.20	27.00	42.00	17.10	6.50	
13	4.70	4.70	2.70	3.10	2.40	2.60	4.00	10.80	18.90	32.00	14.60	6.30	
14	4.60	4.50	3.20	3.10	1.70	2.80	4.60	11.20	17.40	30.00	13.80	6.10	
15	4.30	4.30	2.60	3.10	1.50	3.10	4.40	11.80	15.30	28.50	14.00	6.00	
16	4.40	4.70	3.10	3.10	2.20	3.60	4.90	18.60	15.30	25.20	14.00	6.00	
17	3.80	5.90	3.30	2.80	2.40	2.70	4.60	15.00	16.50	21.00	13.40	6.20	
18	4.50	7.00	2.80	2.90	1.80	3.40	4.40	10.80	23.10	21.60	13.00	5.80	
19	4.50	6.80	2.60	3.30	1.80	4.00	4.90	8.60	29.40	24.30	12.40	6.00	
20	5.50	5.30	3.30	3.00	2.00	3.40	5.70	8.60	38.40	70.40	10.20	5.80	
21	5.10	4.70	3.50	4.40	2.10	3.90	10.80	8.00	45.20	128.10	8.80	8.60	
22	4.70	4.50	2.40	5.60	2.40	3.20	9.00	6.90	40.00	107.00	8.60	9.40	
23	4.80	5.30	3.20	10.20	2.10	2.40	3.10	7.80	34.00	61.50	8.60	7.40	
24	5.00	4.60	3.40	7.40	3.10	4.80	3.30	11.00	32.40	30.40	7.40	6.20	
25	4.80	3.80	3.50	15.60	2.70	4.90	4.00	13.00	33.20	32.40	7.60	5.80	
26	4.00	4.90	3.90	4.40	2.60	4.00	4.70	11.20	26.10	28.80	9.40	6.20	
27	4.00	5.20	2.80	5.70	3.10	6.70	5.00	7.80	17.70	30.40	13.20	6.90	
28	4.10	5.00	2.90	4.10	3.30	4.00	5.20	10.00	19.80	30.00	13.20	7.60	
29	4.30	4.80	3.20	4.40	3.70	3.30	6.10	12.00	18.90	27.00		12.80	
30	4.40	4.70	3.60	3.70	4.20	3.50	6.90	8.20	18.00	26.10		47.20	
31		5.50		3.90	4.40		6.00		21.30	20.70		30.40	
Total	144.80	151.00	100.40	135.50	86.10	119.10	140.90	382.00	880.10	1858.50	385.60	304.80	4688.80 CMSDAY
Mean	4.83	4.87	3.35	4.37	2.78	3.97	4.55	12.73	28.39	59.95	13.77	9.83	12.85 CMS
Max	6.60	7.00	5.50	15.60	4.90	8.20	10.80	26.10	45.20	194.20	29.70	47.20	194.20 CMS
Min	3.80	3.80	2.40	2.30	1.50	2.20	2.30	6.70	13.40	20.70	7.40	5.80	1.50 CMS
Runoff	12.51	13.05	8.67	11.71	7.44	10.29	12.17	33.00	76.04	160.57	33.32	26.33	405.11 MCM

Momentary Peak 206.60 CMS. at 4.04 m. (MSL.) at 24.00 Hours , on Jan 2, 2017

Runoff Yield 7.47 Liters/Second/Square KM. Momentary Peak Yield 120.120 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Nasithong.

	Ban Nasithong	**Amphoe** Ratthaphum	**Changwat** Songkhla
Drainge Area	248 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+5.845 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

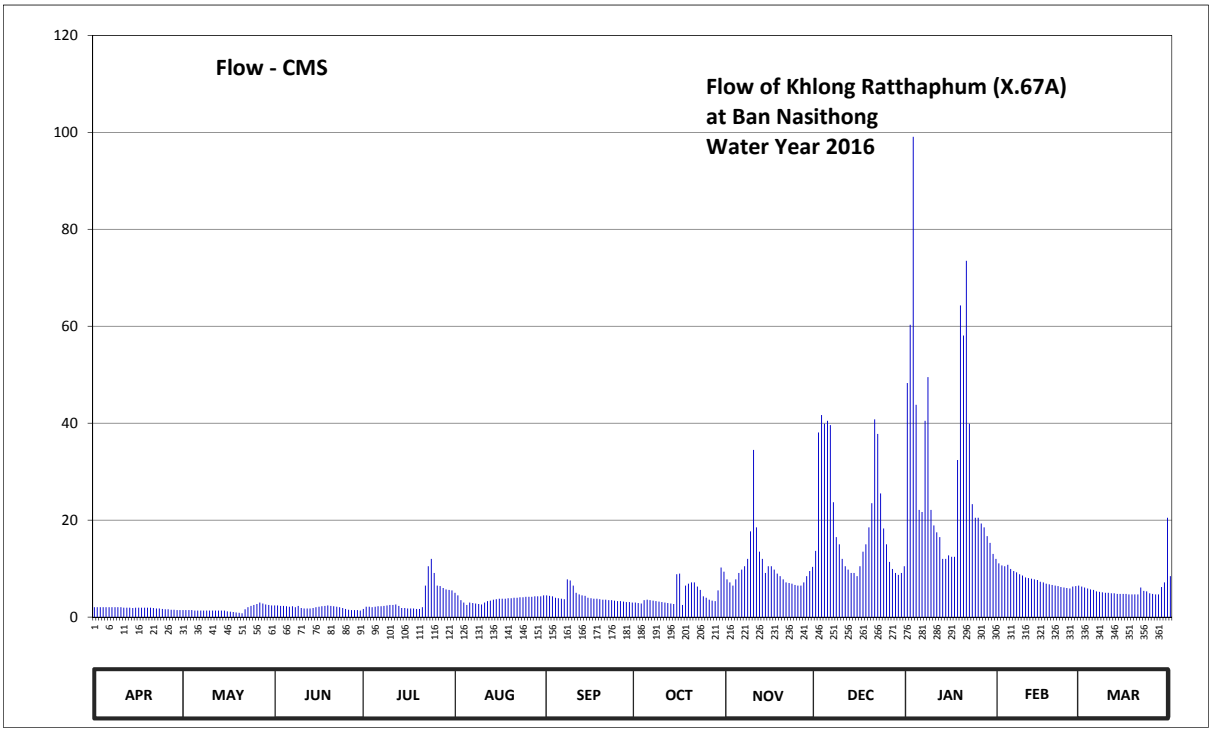
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.35	-0.42	-0.31	-0.39	-0.05	-0.10	-0.25	0.20	0.61	2.06	0.44	0.08	
2	-0.35	-0.42	-0.31	-0.34	-0.10	-0.11	-0.26	0.15	1.72	2.42	0.41	0.06	
3	-0.35	-0.42	-0.32	-0.34	-0.20	-0.12	-0.27	0.10	1.84	3.21	0.40	0.04	
4	-0.35	-0.42	-0.32	-0.35	-0.25	-0.15	-0.20	0.20	1.78	1.91	0.42	0.02	
5	-0.35	-0.43	-0.33	-0.34	-0.30	-0.16	-0.19	0.30	1.80	1.08	0.36	0.01	
6	-0.35	-0.43	-0.34	-0.33	-0.25	-0.17	-0.20	0.35	1.77	1.06	0.33	-0.02	
7	-0.35	-0.43	-0.33	-0.33	-0.26	-0.18	-0.21	0.40	1.16	1.80	0.31	-0.03	
8	-0.35	-0.43	-0.35	-0.32	-0.27	0.20	-0.22	0.50	0.80	2.10	0.28	-0.04	
9	-0.35	-0.43	-0.32	-0.31	-0.28	0.18	-0.23	0.86	0.70	1.08	0.26	-0.05	
10	-0.35	-0.43	-0.37	-0.30	-0.29	0.10	-0.24	1.60	0.50	0.92	0.23	-0.05	
11	-0.36	-0.43	-0.38	-0.30	-0.25	-0.05	-0.25	0.90	0.40	0.85	0.22	-0.06	
12	-0.36	-0.43	-0.38	-0.29	-0.22	-0.08	-0.26	0.60	0.35	0.80	0.21	-0.06	
13	-0.36	-0.43	-0.38	-0.32	-0.21	-0.10	-0.27	0.50	0.30	0.50	0.20	-0.07	
14	-0.37	-0.43	-0.37	-0.37	-0.19	-0.11	-0.28	0.30	0.30	0.50	0.19	-0.07	
15	-0.36	-0.43	-0.35	-0.37	-0.18	-0.15	0.28	0.40	0.25	0.55	0.16	-0.07	
16	-0.36	-0.45	-0.34	-0.38	-0.17	-0.16	0.29	0.40	0.40	0.53	0.15	-0.07	
17	-0.36	-0.46	-0.33	-0.38	-0.17	-0.17	-0.30	0.35	0.60	0.53	0.13	-0.08	
18	-0.36	-0.47	-0.32	-0.38	-0.17	-0.17	0.10	0.29	0.70	1.53	0.12	-0.08	
19	-0.36	-0.48	-0.31	-0.39	-0.16	-0.18	0.13	0.25	0.90	2.52	0.11	-0.08	
20	-0.36	-0.49	-0.32	-0.39	-0.16	-0.19	0.15	0.20	1.15	2.36	0.10	-0.08	
21	-0.37	-0.50	-0.33	-0.35	-0.15	-0.19	0.15	0.15	1.81	2.73	0.09	0.06	
22	-0.38	-0.40	-0.34	0.10	-0.15	-0.20	0.08	0.14	1.71	1.78	0.07	-0.01	
23	-0.38	-0.35	-0.35	0.40	-0.14	-0.20	0.01	0.13	1.25	1.14	0.06	-0.02	
24	-0.39	-0.32	-0.37	0.50	-0.14	-0.21	-0.12	0.11	0.89	1.00	0.05	-0.06	
25	-0.40	-0.30	-0.39	0.30	-0.13	-0.22	-0.15	0.10	0.70	1.00	0.04	-0.07	
26	-0.40	-0.28	-0.41	0.10	-0.13	-0.22	-0.19	0.10	0.46	0.94	0.08	-0.08	
27	-0.41	-0.25	-0.42	0.09	-0.13	-0.23	-0.21	0.15	0.36	0.90	0.09	-0.08	
28	-0.41	-0.27	-0.42	0.05	-0.12	-0.24	-0.22	0.25	0.30	0.81	0.10	0.07	
29	-0.42	-0.29	-0.42	0.02	-0.12	-0.24	0.00	0.33	0.27	0.72		0.15	
30	-0.42	-0.30	-0.43	0.01	-0.12	-0.25	0.38	0.39	0.30	0.57		1.00	
31		-0.31		0.00	-0.10		0.32		0.40	0.50		0.25	
Mean	-0.37	-0.40	-0.36	-0.18	-0.18	-0.14	-0.08	0.36	0.85	1.30	0.20	0.02	
Max	-0.35	-0.25	-0.31	0.50	-0.05	0.20	0.38	1.60	1.84	3.21	0.44	1.00	3.21
Min	-0.42	-0.50	-0.43	-0.39	-0.30	-0.25	-0.30	0.10	0.25	0.50	0.04	-0.08	-0.50

Annual Max Momentary Gage Height 3.52 m. (MSL.) , at 13.00 Hours , on Jan 3 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.64 m. (MSL.)

Left Bank Elevation 4.59 m. (MSL.) ,

Right Bank Elevation 4.44 m. (MSL.) , Drainage Are 248 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.05	1.44	2.41	1.69	5.00	4.50	3.00	7.80	13.65	48.30	11.10	6.30	
2	2.05	1.44	2.41	2.14	4.50	4.40	2.90	7.15	38.10	60.30	10.65	6.10	
3	2.05	1.44	2.32	2.14	3.50	4.30	2.80	6.50	41.70	99.10	10.50	5.90	
4	2.05	1.44	2.32	2.05	3.00	4.00	3.50	7.80	39.90	43.80	10.80	5.70	
5	2.05	1.36	2.23	2.14	2.50	3.90	3.60	9.10	40.50	22.10	9.94	5.60	
6	2.05	1.36	2.14	2.23	3.00	3.80	3.50	9.80	39.60	21.70	9.52	5.30	
7	2.05	1.36	2.23	2.23	2.90	3.70	3.40	10.50	23.70	40.50	9.24	5.20	
8	2.05	1.36	2.05	2.32	2.80	7.80	3.30	12.00	16.50	49.50	8.84	5.10	
9	2.05	1.36	2.32	2.41	2.70	7.54	3.20	17.70	15.00	22.10	8.58	5.00	
10	2.05	1.36	1.87	2.50	2.60	6.50	3.10	34.50	12.00	18.90	8.19	5.00	
11	1.96	1.36	1.78	2.50	3.00	5.00	3.00	18.50	10.50	17.50	8.06	4.90	
12	1.96	1.36	1.78	2.60	3.30	4.70	2.90	13.50	9.80	16.50	7.93	4.90	
13	1.96	1.36	1.78	2.32	3.40	4.50	2.80	12.00	9.10	12.00	7.80	4.80	
14	1.87	1.36	1.87	1.87	3.60	4.40	2.70	9.10	9.10	12.00	7.67	4.80	
15	1.96	1.36	2.05	1.87	3.70	4.00	8.84	10.50	8.45	12.75	7.28	4.80	
16	1.96	1.20	2.14	1.78	3.80	3.90	8.97	10.50	10.50	12.45	7.15	4.80	
17	1.96	1.12	2.23	1.78	3.80	3.80	2.50	9.80	13.50	12.45	6.89	4.70	
18	1.96	1.04	2.32	1.78	3.80	3.80	6.50	8.97	15.00	32.40	6.76	4.70	
19	1.96	0.96	2.41	1.69	3.90	3.70	6.89	8.45	18.50	64.30	6.63	4.70	
20	1.96	0.88	2.32	1.69	3.90	3.60	7.15	7.80	23.50	58.10	6.50	4.70	
21	1.87	0.80	2.23	2.05	4.00	3.60	7.15	7.15	40.80	73.50	6.40	6.10	
22	1.78	1.60	2.14	6.50	4.00	3.50	6.30	7.02	37.80	39.90	6.20	5.40	
23	1.78	2.05	2.05	10.50	4.10	3.50	5.60	6.89	25.50	23.30	6.10	5.30	
24	1.69	2.32	1.87	12.00	4.10	3.40	4.30	6.63	18.30	20.50	6.00	4.90	
25	1.60	2.50	1.69	9.10	4.20	3.30	4.00	6.50	15.00	20.50	5.90	4.80	
26	1.60	2.70	1.52	6.50	4.20	3.30	3.60	6.50	11.40	19.30	6.30	4.70	
27	1.52	3.00	1.44	6.40	4.20	3.20	3.40	7.15	9.94	18.50	6.40	4.70	
28	1.52	2.80	1.44	6.00	4.30	3.10	3.30	8.45	9.10	16.70	6.50	6.20	
29	1.44	2.60	1.44	5.70	4.30	3.10	5.50	9.52	8.71	15.30		7.15	
30	1.44	2.50	1.36	5.60	4.30	3.00	10.22	10.36	9.10	13.05		20.50	
31		2.41		5.50	4.50		9.38		10.50	12.00		8.45	
Total	56.25	51.20	60.16	117.58	114.90	124.84	147.30	308.14	604.75	949.30	219.83	181.20	2935.45	CMSDAY
Mean	1.88	1.65	2.01	3.79	3.71	4.16	4.75	10.27	19.51	30.62	7.85	5.85	8.04	CMS
Max	2.05	3.00	2.41	12.00	5.00	7.80	10.22	34.50	41.70	99.10	11.10	20.50	99.10	CMS
Min	1.44	0.80	1.36	1.69	2.50	3.00	2.50	6.50	8.45	12.00	5.90	4.70	0.80	CMS
Runoff	4.86	4.42	5.20	10.16	9.93	10.79	12.73	26.62	52.25	82.02	18.99	15.66	253.62	MCM

Momentary Peak 119.50 CMS. at 3.52 m. (MSL.) at 13.00 Hours , on Jan 3 , 2017

Runoff Yield 32.33 Liters/Second/Square KM. Momentary Peak Yield 480.400 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Tha Khae at Ban Tha Khae , Phatthalung (X.68)

Lat 07 - 34 - 01 N Long 100 - 03 - 05 E

Location : on left bank downstream side of the bridge of Phatthalung - Hat Yai Highway.

Ban Tha Khae **Amphoe** Mueang **Changwat** Phatthalung

Drainge Area	302 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage observer's house. **Elevation** +15.966 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1972 , 1983 to date
Rated by Flot	-
Rated by Current Meter	1967 - 1972 , 1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Tha Khae Weir.
	Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

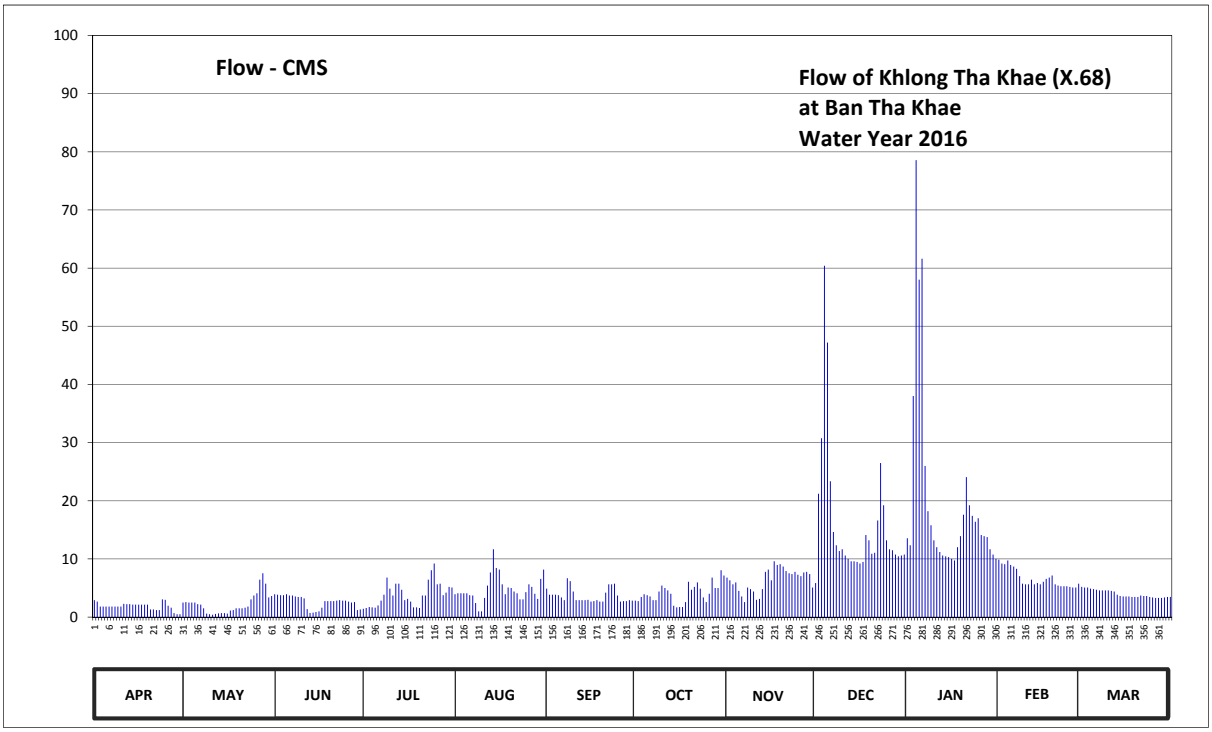
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.45	13.40	13.58	13.24	13.58	13.68	13.44	13.85	13.77	14.32	14.09	13.71	
2	13.42	13.41	13.57	13.26	13.60	13.57	13.43	13.81	14.70	14.25	14.04	13.70	
3	13.30	13.40	13.56	13.29	13.60	13.57	13.52	13.75	15.09	15.35	14.03	13.70	
4	13.30	13.40	13.56	13.28	13.60	13.57	13.58	13.78	15.96	16.39	14.08	13.68	
5	13.30	13.40	13.58	13.27	13.60	13.56	13.56	13.64	15.62	15.90	14.02	13.67	
6	13.30	13.36	13.55	13.33	13.56	13.51	13.53	13.53	14.79	15.99	14.00	13.66	
7	13.30	13.35	13.55	13.44	13.55	13.45	13.45	13.41	14.38	14.90	13.97	13.65	
8	13.30	13.25	13.53	13.57	13.39	13.84	13.45	13.70	14.25	14.56	13.87	13.65	
9	13.30	13.05	13.52	13.85	13.15	13.80	13.63	13.67	14.19	14.44	13.76	13.65	
10	13.30	13.02	13.52	13.68	13.15	13.63	13.73	13.63	14.21	14.30	13.75	13.65	
11	13.37	13.00	13.49	13.55	13.50	13.45	13.69	13.46	14.14	14.23	13.75	13.64	
12	13.36	13.04	13.23	13.76	13.73	13.45	13.65	13.48	14.10	14.18	13.82	13.63	
13	13.36	13.06	13.08	13.76	13.92	13.45	13.59	13.67	14.07	14.14	13.75	13.57	
14	13.35	13.07	13.09	13.66	14.21	13.45	13.32	13.93	14.07	14.13	13.77	13.54	
15	13.35	13.07	13.12	13.45	13.98	13.46	13.28	13.96	14.06	14.12	13.75	13.53	
16	13.35	13.05	13.15	13.48	13.96	13.42	13.29	13.81	14.04	14.10	13.79	13.53	
17	13.35	13.18	13.27	13.42	13.75	13.43	13.29	14.07	14.06	14.08	13.83	13.53	
18	13.35	13.20	13.43	13.28	13.58	13.45	13.41	14.02	14.35	14.23	13.85	13.52	
19	13.35	13.25	13.43	13.28	13.70	13.42	13.79	14.03	14.30	14.34	13.88	13.52	
20	13.22	13.25	13.43	13.26	13.69	13.42	13.66	14.00	14.16	14.53	13.75	13.52	
21	13.22	13.25	13.43	13.55	13.63	13.61	13.71	13.94	14.17	14.82	13.73	13.55	
22	13.20	13.27	13.44	13.55	13.60	13.75	13.78	13.91	14.48	14.61	13.72	13.54	
23	13.20	13.30	13.45	13.82	13.47	13.75	13.68	13.90	14.92	14.52	13.72	13.54	
24	13.47	13.47	13.44	13.95	13.47	13.76	13.51	13.93	14.61	14.47	13.72	13.52	
25	13.46	13.55	13.44	14.04	13.62	13.55	13.41	13.89	14.30	14.50	13.71	13.51	
26	13.32	13.60	13.42	13.75	13.75	13.42	13.59	13.87	14.21	14.35	13.70	13.50	
27	13.27	13.82	13.40	13.76	13.71	13.43	13.85	13.92	14.20	14.34	13.70	13.50	
28	13.07	13.91	13.41	13.56	13.59	13.43	13.69	13.93	14.15	14.33	13.76	13.50	
29	13.02	13.76	13.20	13.61	13.48	13.45	13.69	13.90	14.13	14.21		13.51	
30	13.02	13.51	13.22	13.71	13.83	13.44	13.95	13.70	14.14	14.15		13.52	
31		13.54		13.70	13.96		13.88		14.15	14.10		13.52	
Mean	13.30	13.33	13.40	13.55	13.64	13.54	13.58	13.80	14.38	14.54	13.83	13.58	
Max	13.47	13.91	13.58	14.04	14.21	13.84	13.95	14.07	15.96	16.39	14.09	13.71	16.39
Min	13.02	13.00	13.08	13.24	13.15	13.42	13.28	13.41	13.77	14.08	13.70	13.50	13.00

Annual Max Momentary Gage Height 16.60 m. (MSL.) , at 01.00 Hours , on Jan 4 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 11.41 m. (MSL.)

Left Bank Elevation 16.94 m. (MSL.) ,

Right Bank Elevation 17.48 m. (MSL.) , Drainage Are 302 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	2.50	3.94	1.44	3.94	4.90	2.82	6.80	5.87	13.56	9.87	5.21	
2	2.66	2.58	3.86	1.56	4.10	3.86	2.74	6.32	21.20	12.35	9.22	5.10	
3	1.80	2.50	3.78	1.74	4.10	3.86	3.46	5.65	30.75	38.00	9.09	5.10	
4	1.80	2.50	3.78	1.68	4.10	3.86	3.94	5.98	60.40	78.55	9.74	4.90	
5	1.80	2.50	3.94	1.62	4.10	3.78	3.78	4.50	47.20	58.00	8.96	4.80	
6	1.80	2.22	3.70	2.01	3.78	3.38	3.54	3.54	23.36	61.60	8.70	4.70	
7	1.80	2.15	3.70	2.82	3.70	2.90	2.90	2.58	14.64	26.00	8.31	4.60	
8	1.80	1.50	3.54	3.86	2.43	6.68	2.90	5.10	12.35	18.20	7.04	4.60	
9	1.80	0.60	3.46	6.80	1.00	6.20	4.40	4.80	11.35	15.80	5.76	4.60	
10	1.80	0.48	3.46	4.90	1.00	4.40	5.43	4.40	11.67	13.20	5.65	4.60	
11	2.29	0.40	3.22	3.70	3.30	2.90	5.00	2.98	10.60	12.01	5.65	4.50	
12	2.22	0.56	1.38	5.76	5.43	2.90	4.60	3.14	10.00	11.20	6.44	4.40	
13	2.22	0.64	0.72	5.76	7.66	2.90	4.02	4.80	9.61	10.60	5.65	3.86	
14	2.15	0.68	0.76	4.70	11.67	2.90	1.94	7.79	9.61	10.45	5.87	3.62	
15	2.15	0.68	0.88	2.90	8.44	2.98	1.68	8.18	9.48	10.30	5.65	3.54	
16	2.15	0.60	1.00	3.14	8.18	2.66	1.74	6.32	9.22	10.00	6.09	3.54	
17	2.15	1.12	1.62	2.66	5.65	2.74	1.74	9.61	9.48	9.74	6.56	3.54	
18	2.15	1.20	2.74	1.68	3.94	2.90	2.58	8.96	14.10	12.01	6.80	3.46	
19	2.15	1.50	2.74	1.68	5.10	2.66	6.09	9.09	13.20	13.92	7.16	3.46	
20	1.32	1.50	2.74	1.56	5.00	2.66	4.70	8.70	10.90	17.60	5.65	3.46	
21	1.32	1.50	2.74	3.70	4.40	4.20	5.21	7.92	11.05	24.08	5.43	3.70	
22	1.20	1.62	2.82	3.70	4.10	5.65	5.98	7.53	16.60	19.22	5.32	3.62	
23	1.20	1.80	2.90	6.44	3.06	5.65	4.90	7.40	26.50	17.40	5.32	3.62	
24	3.06	3.06	2.82	8.05	3.06	5.76	3.38	7.79	19.22	16.40	5.32	3.46	
25	2.98	3.70	2.82	9.22	4.30	3.70	2.58	7.28	13.20	17.00	5.21	3.38	
26	1.94	4.10	2.66	5.65	5.65	2.66	4.02	7.04	11.67	14.10	5.10	3.30	
27	1.62	6.44	2.50	5.76	5.21	2.74	6.80	7.66	11.50	13.92	5.10	3.30	
28	0.68	7.53	2.58	3.78	4.02	2.74	5.00	7.79	10.75	13.74	5.76	3.30	
29	0.48	5.76	1.20	4.20	3.14	2.90	5.00	7.40	10.45	11.67		3.38	
30	0.48	3.38	1.32	5.21	6.56	2.82	8.05	5.10	10.60	10.75		3.46	
31		3.62		5.10	8.18		7.16		10.75	10.00		3.46	
Total	55.87	70.92	79.32	122.78	148.30	110.84	128.08	192.15	497.28	621.37	186.42	123.57	2336.90	CMSDAY
Mean	1.86	2.29	2.64	3.96	4.78	3.69	4.13	6.40	16.04	20.04	6.66	3.99	6.40	CMS
Max	3.06	7.53	3.94	9.22	11.67	6.68	8.05	9.61	60.40	78.55	9.87	5.21	78.55	CMS
Min	0.48	0.40	0.72	1.44	1.00	2.66	1.68	2.58	5.87	9.74	5.10	3.30	0.40	CMS
Runoff	4.83	6.13	6.85	10.61	12.81	9.58	11.07	16.60	42.96	53.69	16.11	10.68	201.91	MCM

Momentary Peak 88.00 CMS. at 16.60 m. (MSL.) at 01.00 Hours , on Jan 4 , 2017

Runoff Yield 21.18 Liters/Second/Square KM. Momentary Peak Yield 291.130 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Tam at Ban Khuan Lang , Songkhla (X.71B)

Lat 06 - 59 - 15 N Long 100 - 25 - 27 E

Location : on left bank at the bridge.

Ban Khuan Lang **Amphoe** Hat Yai **Changwat** Songkhla

Drainge Area	148 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +11.204 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2004 to date
Rating Operation	
Period of Rating	2004 to date
Rated by Flot	-
Rated by Current Meter	2004 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

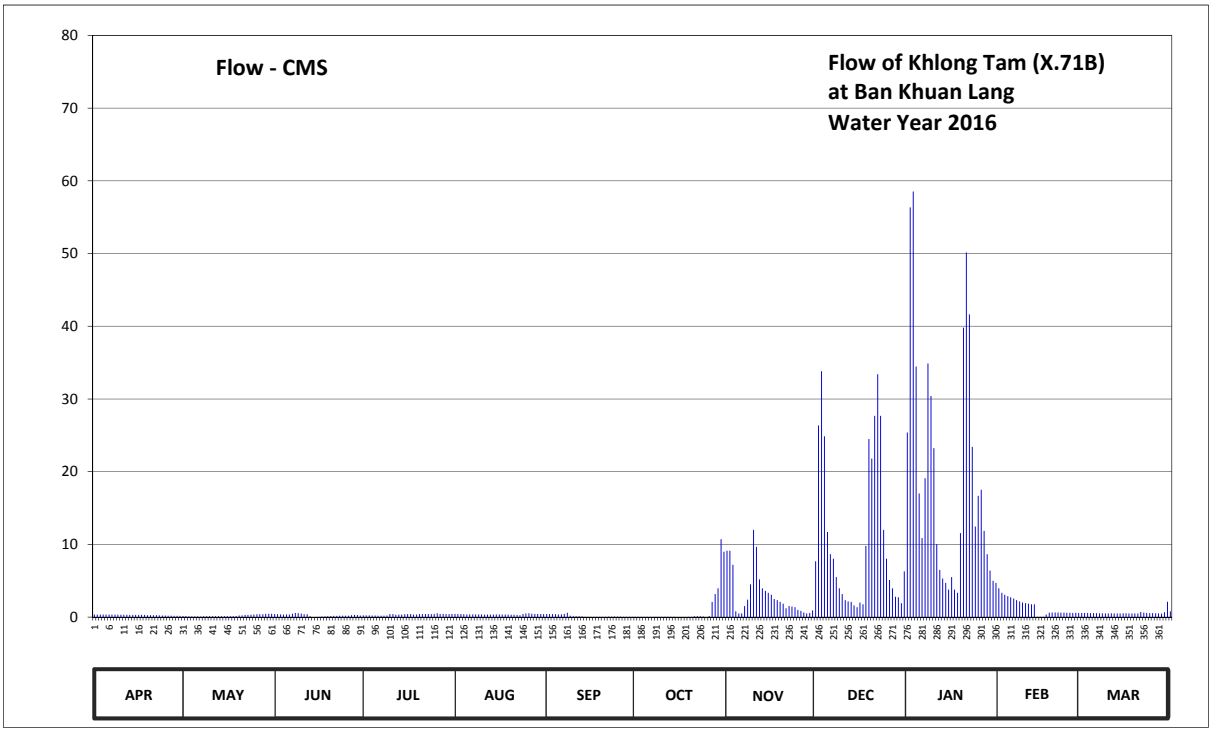
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.56	5.32	5.62	5.45	5.64	5.62	5.10	5.81	5.69	6.80	5.33	5.78	
2	5.55	5.30	5.60	5.45	5.62	5.61	5.09	5.81	6.85	8.15	5.26	5.78	
3	5.55	5.21	5.57	5.45	5.62	5.61	5.07	5.65	7.23	8.23	5.23	5.77	
4	5.54	5.22	5.55	5.42	5.60	5.60	5.07	4.94	6.77	7.26	5.21	5.75	
5	5.54	5.22	5.57	5.42	5.58	5.57	5.05	4.90	6.00	6.33	5.19	5.75	
6	5.54	5.22	5.55	5.40	5.57	5.57	5.05	4.90	5.77	5.94	5.17	5.74	
7	5.54	5.18	5.66	5.38	5.57	5.64	5.05	5.04	5.72	6.45	5.14	5.72	
8	5.54	5.24	5.77	5.38	5.57	5.80	5.05	5.15	5.49	7.28	5.12	5.72	
9	5.52	5.27	5.75	5.42	5.57	5.38	5.05	5.39	5.33	7.06	5.10	5.71	
10	5.52	5.25	5.68	5.62	5.57	5.26	5.05	6.02	5.24	6.68	5.09	5.71	
11	5.52	5.25	5.60	5.62	5.55	5.25	5.05	5.85	5.14	5.88	5.08	5.72	
12	5.52	5.25	5.60	5.52	5.55	5.25	5.05	5.46	5.12	5.59	5.07	5.71	
13	5.50	5.25	5.24	5.55	5.55	5.20	5.04	5.33	5.11	5.47	5.07	5.71	
14	5.50	5.25	4.74	5.54	5.55	5.09	5.04	5.29	5.05	5.41	5.07	5.71	
15	5.50	5.25	4.93	5.60	5.57	5.08	5.02	5.26	5.02	5.31	5.04	5.72	
16	5.50	5.25	5.08	5.62	5.57	5.10	5.02	5.23	5.10	5.49	5.03	5.72	
17	5.51	5.25	5.17	5.62	5.55	5.08	5.02	5.16	5.07	5.31	5.55	5.70	
18	5.50	5.27	5.20	5.55	5.55	5.07	5.02	5.14	5.86	5.26	5.82	5.70	
19	5.47	5.33	5.25	5.55	5.55	5.07	5.10	5.11	6.75	5.99	5.84	5.70	
20	5.47	5.41	5.30	5.62	5.53	5.05	5.07	5.08	6.60	7.50	5.83	5.70	
21	5.47	5.45	5.34	5.62	5.52	5.10	5.27	5.00	6.92	7.92	5.83	5.90	
22	5.47	5.50	5.34	5.62	5.50	5.12	5.24	5.04	7.21	7.58	5.81	5.82	
23	5.44	5.50	5.38	5.62	5.47	5.13	5.24	5.03	6.92	6.69	5.81	5.76	
24	5.41	5.52	5.40	5.62	5.64	5.15	5.15	5.02	6.02	6.05	5.80	5.74	
25	5.41	5.56	5.40	5.63	5.71	5.12	4.80	4.97	5.72	6.31	5.79	5.74	
26	5.40	5.60	5.40	5.72	5.73	5.12	4.83	4.95	5.45	6.36	5.78	5.73	
27	5.38	5.59	5.47	5.64	5.67	5.10	5.11	4.92	5.33	6.01	5.79	5.70	
28	5.37	5.60	5.50	5.63	5.64	5.06	5.24	4.90	5.20	5.77	5.78	5.68	
29	5.37	5.66	5.48	5.62	5.64	5.05	5.33	4.91	5.19	5.58		5.88	
30	5.37	5.65	5.42	5.62	5.62	5.05	5.93	4.96	5.09	5.44		6.60	
31		5.66		5.64	5.61		5.80		5.57	5.41		5.94	
Mean	5.48	5.37	5.42	5.55	5.59	5.26	5.13	5.21	5.79	6.34	5.42	5.77	
Max	5.56	5.66	5.77	5.72	5.73	5.80	5.93	6.02	7.23	8.23	5.84	6.60	8.23
Min	5.37	5.18	4.74	5.38	5.47	5.05	4.80	4.90	5.02	5.26	5.03	5.68	4.74

Annual Max Momentary Gage Height 8.89 m. (MSL.) , at 21.00 Hours , on Jan 2 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 4.18 m. (MSL.)

Left Bank Elevation 10.02 m. (MSL.) ,

Right Bank Elevation 9.95 m. (MSL.) , Drainage Are 148 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.36	0.16	0.42	0.25	0.44	0.42	0.05	9.13	7.68	25.40	3.97	0.58		
2	0.35	0.15	0.40	0.25	0.42	0.41	0.05	9.13	26.35	56.35	3.34	0.58		
3	0.35	0.11	0.37	0.25	0.42	0.41	0.04	7.20	33.83	58.54	3.07	0.57		
4	0.34	0.11	0.35	0.22	0.40	0.40	0.04	0.78	24.86	34.46	2.89	0.55		
5	0.34	0.11	0.37	0.22	0.38	0.37	0.04	0.50	11.70	17.01	2.72	0.55		
6	0.34	0.11	0.35	0.20	0.37	0.37	0.04	0.50	8.64	10.86	2.56	0.54		
7	0.34	0.09	0.46	0.19	0.37	0.44	0.04	1.52	8.04	19.10	2.32	0.52		
8	0.34	0.12	0.57	0.19	0.37	0.60	0.04	2.40	5.50	34.88	2.16	0.52		
9	0.32	0.13	0.55	0.22	0.37	0.19	0.04	4.51	3.97	30.40	2.00	0.51		
10	0.32	0.13	0.48	0.42	0.37	0.13	0.04	12.00	3.16	23.24	1.92	0.51		
11	0.32	0.13	0.40	0.42	0.35	0.13	0.04	9.65	2.32	10.04	1.84	0.52		
12	0.32	0.13	0.40	0.32	0.35	0.13	0.04	5.20	2.16	6.50	1.76	0.51		
13	0.30	0.13	0.12	0.35	0.35	0.10	0.04	3.97	2.08	5.30	1.76	0.51		
14	0.30	0.13	0.00	0.34	0.35	0.05	0.04	3.61	1.60	4.70	0.04	0.51		
15	0.30	0.13	0.02	0.40	0.37	0.05	0.03	3.34	1.36	3.79	0.04	0.52		
16	0.30	0.13	0.05	0.42	0.37	0.05	0.03	3.07	2.00	5.50	0.04	0.52		
17	0.31	0.13	0.09	0.42	0.35	0.05	0.03	2.48	1.76	3.79	0.35	0.50		
18	0.30	0.13	0.10	0.35	0.35	0.04	0.03	2.32	9.78	3.34	0.62	0.50		
19	0.27	0.16	0.13	0.35	0.35	0.04	0.05	2.08	24.50	11.56	0.64	0.50		
20	0.27	0.21	0.15	0.42	0.33	0.04	0.04	1.84	21.80	39.80	0.63	0.50		
21	0.27	0.25	0.17	0.42	0.32	0.05	0.13	1.20	27.68	50.14	0.63	0.70		
22	0.27	0.30	0.17	0.42	0.30	0.06	0.12	1.52	33.41	41.64	0.61	0.62		
23	0.24	0.30	0.19	0.42	0.27	0.07	0.12	1.44	27.68	23.42	0.61	0.56		
24	0.21	0.32	0.20	0.42	0.44	0.08	0.08	1.36	12.00	12.45	0.60	0.54		
25	0.21	0.36	0.20	0.43	0.51	0.06	0.00	0.99	8.04	16.67	0.59	0.54		
26	0.20	0.40	0.20	0.52	0.53	0.06	0.15	0.85	5.10	17.52	0.58	0.53		
27	0.19	0.39	0.27	0.44	0.47	0.05	2.08	0.64	3.97	11.85	0.59	0.50		
28	0.18	0.40	0.30	0.43	0.44	0.04	3.16	0.50	2.80	8.64	0.58	0.48		
29	0.18	0.46	0.28	0.42	0.44	0.04	3.97	0.57	2.72	6.40		0.68		
30	0.18	0.45	0.22	0.42	0.42	0.04	10.72	0.92	1.92	5.00		2.10		
31		0.46		0.44	0.41		9.00		6.30	4.70		0.78		
Total	8.52	6.72	7.98	10.98	11.98	4.97	30.32	95.22	334.71	602.99	39.46	18.55	1172.40	CMSDAY
Mean	0.28	0.22	0.27	0.35	0.39	0.17	0.98	3.17	10.80	19.45	1.41	0.60	3.21	CMS
Max	0.36	0.46	0.57	0.52	0.53	0.60	10.72	12.00	33.83	58.54	3.97	2.10	58.54	CMS
Min	0.18	0.09	0.00	0.19	0.27	0.04	0.00	0.50	1.36	3.34	0.04	0.48	0.00	CMS
Runoff	0.74	0.58	0.69	0.95	1.04	0.43	2.62	8.23	28.92	52.10	3.41	1.60	101.30	MCM

Momentary Peak 77.70 CMS. at 8.89 m. (MSL.) at 21.00 Hours , on Jan 2 , 2017

Runoff Yield 21.70 Liters/Second/Square KM. Momentary Peak Yield 525.000 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

Ban Bang Sala **Amphoe** Khlong Hoi Khong **Changwat** Songkhla

Drainge Area	1,547 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the top staff gage. **Elevation** +11.201 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1971 - 1972 , 1979 to date
Rated by Flot	-
Rated by Current Meter	1971 - 1972 , 1979 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

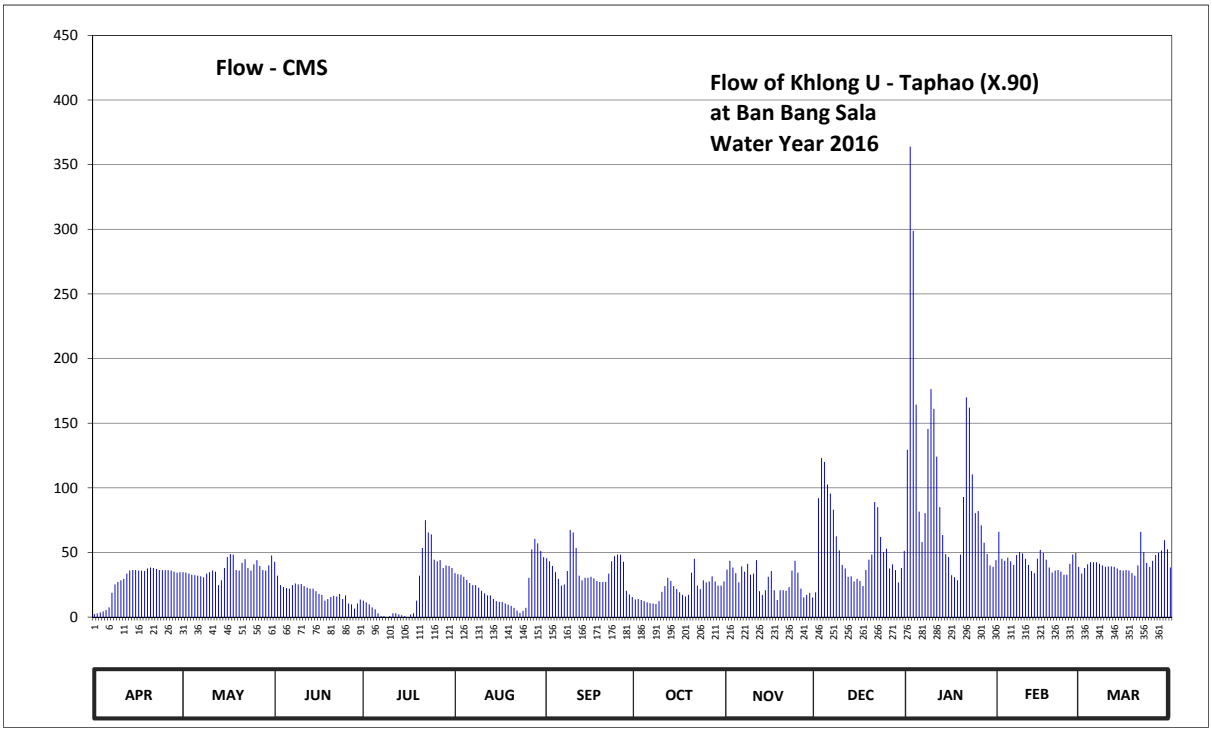
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.08	2.97	3.17	2.42	2.95	3.24	2.44	3.02	2.58	4.85	3.68	2.94	
2	2.10	2.96	2.90	2.38	2.93	3.18	2.45	3.19	4.20	7.30	3.23	3.05	
3	2.12	2.94	2.72	2.33	2.92	3.09	2.43	3.06	4.75	6.79	3.19	3.12	
4	2.15	2.92	2.68	2.25	2.88	2.97	2.41	2.95	4.70	5.33	3.25	3.16	
5	2.18	2.91	2.66	2.20	2.82	2.84	2.38	2.77	4.41	3.99	3.18	3.16	
6	2.25	2.90	2.65	2.10	2.76	2.71	2.36	3.08	4.27	3.52	3.11	3.16	
7	2.57	2.89	2.72	2.03	2.72	2.73	2.35	2.98	4.02	3.97	3.30	3.13	
8	2.73	2.87	2.75	2.03	2.72	2.99	2.34	3.13	3.61	5.08	3.36	3.10	
9	2.78	2.94	2.73	2.00	2.67	3.71	2.41	2.92	3.39	5.48	3.33	3.07	
10	2.81	2.97	2.74	2.03	2.61	3.67	2.59	2.94	3.11	5.29	3.23	3.08	
11	2.84	3.00	2.70	2.10	2.56	3.43	2.70	3.20	3.04	4.77	3.11	3.08	
12	2.94	2.98	2.67	2.10	2.52	2.90	2.86	2.60	2.88	4.06	2.99	3.07	
13	3.00	2.72	2.65	2.07	2.52	2.81	2.80	2.53	2.89	3.63	2.95	3.04	
14	3.01	2.81	2.65	2.05	2.45	2.86	2.70	2.62	2.79	3.32	3.23	3.01	
15	3.01	3.05	2.60	2.03	2.41	2.86	2.64	2.88	2.84	3.26	3.40	3.00	
16	3.00	3.26	2.55	2.00	2.39	2.88	2.58	2.99	2.80	2.91	3.34	3.01	
17	3.00	3.32	2.53	2.07	2.39	2.85	2.53	2.62	2.70	2.87	3.21	3.00	
18	2.99	3.31	2.42	2.10	2.35	2.80	2.50	2.43	3.01	2.81	3.06	2.95	
19	3.04	3.01	2.45	2.42	2.32	2.78	2.53	2.62	3.21	3.31	2.96	2.90	
20	3.06	3.00	2.49	2.90	2.29	2.78	2.96	2.62	3.31	4.22	3.00	3.10	
21	3.05	3.15	2.51	3.43	2.24	2.78	3.23	2.61	4.14	5.40	3.01	3.68	
22	3.03	3.22	2.50	3.86	2.17	2.94	2.71	2.68	4.06	5.30	2.98	3.36	
23	3.01	3.05	2.55	3.67	2.11	3.18	2.64	3.00	3.60	4.54	2.92	3.15	
24	3.01	3.00	2.45	3.64	2.16	3.28	2.81	3.19	3.36	3.97	2.92	3.07	
25	3.01	3.12	2.52	3.21	2.24	3.31	2.77	2.96	3.42	4.00	3.13	3.19	
26	3.01	3.20	2.35	3.18	2.86	3.31	2.79	2.65	3.04	3.78	3.31	3.30	
27	3.00	3.09	2.33	3.20	3.41	3.17	2.89	2.48	3.12	3.51	3.34	3.34	
28	2.98	3.01	2.22	3.05	3.57	2.61	2.79	2.53	3.01	3.32	3.07	3.39	
29	2.96	3.00	2.35	3.10	3.50	2.54	2.71	2.57	2.77	3.10		3.55	
30	2.97	3.10	2.44	3.09	3.38	2.49	2.71	2.48	3.05	3.07		3.41	
31		3.29		3.05	3.26		2.79		3.38	3.20		3.06	
Mean	2.79	3.03	2.59	2.58	2.68	2.99	2.64	2.81	3.40	4.19	3.17	3.15	
Max	3.06	3.32	3.17	3.86	3.57	3.71	3.23	3.20	4.75	7.30	3.68	3.68	7.30
Min	2.08	2.72	2.22	2.00	2.11	2.49	2.34	2.43	2.58	2.81	2.92	2.90	2.00

Annual Max Momentary Gage Height 7.40 m. (MSL.) , at 10.00 Hours , on Jan 2 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.73 m. (MSL.)

Left Bank Elevation 9.88 m. (MSL.) ,

Right Bank Elevation 10.06 m. (MSL.) , Drainage Are 1,547 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	34.80	42.80	12.80	34.00	45.60	13.60	36.80	19.20	129.50	66.00	33.60	
2	3.00	34.40	32.00	11.40	33.20	43.20	14.00	43.60	92.00	364.00	45.20	38.00	
3	3.60	33.60	24.80	9.90	32.80	39.60	13.20	38.40	123.00	298.80	43.60	40.80	
4	4.50	32.80	23.20	7.50	31.20	34.80	12.40	34.00	120.00	164.40	46.00	42.40	
5	5.40	32.40	22.40	6.00	28.80	29.60	11.40	26.80	102.60	81.50	43.20	42.40	
6	7.50	32.00	22.00	3.00	26.40	24.40	10.80	39.20	95.50	58.00	40.40	42.40	
7	18.80	31.60	24.80	0.90	24.80	25.20	10.50	35.20	83.00	80.50	48.00	41.20	
8	25.20	30.80	26.00	0.90	24.80	35.60	10.20	41.20	62.50	145.60	50.40	40.00	
9	27.20	33.60	25.20	0.00	22.80	67.50	12.40	32.80	51.60	176.40	49.20	38.80	
10	28.40	34.80	25.60	0.90	20.40	65.50	19.60	33.60	40.40	161.20	45.20	39.20	
11	29.60	36.00	24.00	3.00	18.40	53.50	24.00	44.00	37.60	124.20	40.40	39.20	
12	33.60	35.20	22.80	3.00	16.80	32.00	30.40	20.00	31.20	85.00	35.60	38.80	
13	36.00	24.80	22.00	2.10	16.80	28.40	28.00	17.20	31.60	63.50	34.00	37.60	
14	36.40	28.40	22.00	1.50	14.00	30.40	24.00	20.80	27.60	48.80	45.20	36.40	
15	36.40	38.00	20.00	0.90	12.40	30.40	21.60	31.20	29.60	46.40	52.00	36.00	
16	36.00	46.40	18.00	0.00	11.70	31.20	19.20	35.60	28.00	32.40	49.60	36.40	
17	36.00	48.80	17.20	2.10	11.70	30.00	17.20	20.80	24.00	30.80	44.40	36.00	
18	35.60	48.40	12.80	3.00	10.50	28.00	16.00	13.20	36.40	28.40	38.40	34.00	
19	37.60	36.40	14.00	12.80	9.60	27.20	17.20	20.80	44.40	48.40	34.40	32.00	
20	38.40	36.00	15.60	32.00	8.70	27.20	34.40	20.80	48.40	93.00	36.00	40.00	
21	38.00	42.00	16.40	53.50	7.20	27.20	45.20	20.40	89.00	170.00	36.40	66.00	
22	37.20	44.80	16.00	75.00	5.10	33.60	24.40	23.20	85.00	162.00	35.20	50.40	
23	36.40	38.00	18.00	65.50	3.30	43.20	21.60	36.00	62.00	110.40	32.80	42.00	
24	36.40	36.00	14.00	64.00	4.80	47.20	28.40	43.60	50.40	80.50	32.80	38.80	
25	36.40	40.80	16.80	44.40	7.20	48.40	26.80	34.40	53.00	82.00	41.20	43.60	
26	36.40	44.00	10.50	43.20	30.40	48.40	27.60	22.00	37.60	71.00	48.40	48.00	
27	36.00	39.60	9.90	44.00	52.50	42.80	31.60	15.20	40.80	57.50	49.60	49.60	
28	35.20	36.40	6.60	38.00	60.50	20.40	27.60	17.20	36.40	48.80	38.80	51.60	
29	34.40	36.00	10.50	40.00	57.00	17.60	24.40	18.80	26.80	40.00		59.50	
30	34.80	40.00	13.60	39.60	51.20	15.60	24.40	15.20	38.00	38.80		52.50	
31		47.60		38.00	46.40		27.60		51.20	44.00		38.40	
Total	842.80	1154.40	589.50	658.90	735.40	1073.70	669.70	852.00	1698.80	3165.80	1202.40	1305.60	13949.00 CMSDAY
Mean	28.09	37.24	19.65	21.25	23.72	35.79	21.60	28.40	54.80	102.12	42.94	42.12	38.22 CMS
Max	38.40	48.80	42.80	75.00	60.50	67.50	45.20	44.00	123.00	364.00	66.00	66.00	364.00 CMS
Min	2.40	24.80	6.60	0.00	3.30	15.60	10.20	13.20	19.20	28.40	32.80	32.00	0.00 CMS
Runoff	72.82	99.74	50.93	56.93	63.54	92.77	57.86	73.61	146.78	273.53	103.89	112.80	1205.19 MCM

Momentary Peak 378.00 CMS. at 7.40 m. (MSL.) at 10.00 Hours , on Jan 2 , 2017

Runoff Yield 24.71 Liters/Second/Square KM. Momentary Peak Yield 244.370 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Bang Kaeo at Ban Khuan In No Mo , Phutthalung (X.109)

Lat 07 - 20 - 29 N Long 100 - 03 - 35 E

Location : on left bank at Ban Khuan In No Mo.

Ban Khuan In No Mo **Amphoe** Ta Mot **Changwat** Phatthalung

Drainge Area 131 sq.km.

Type of Gage Staff gage

Zero Gage at Bottom +0.000 m. (MSL.)

Bench Mark B.M.-H.D.

Location BM On left bank near the Meteorological Station. **Elevation** +32.764 m. (MSL.)

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

Basis of Mean Daily Gage Height Arithmetic mean of 5 readings

Period of Available Gage Records 1979 to date.

Rating Operation

Period of Rating 1979 to date.

Rated by Flot -

Rated by Current Meter 1979 to date.

Stability of Channel Regimes Fairly stable.

Overbank Flow Conditions No overbank flow.

General Description Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

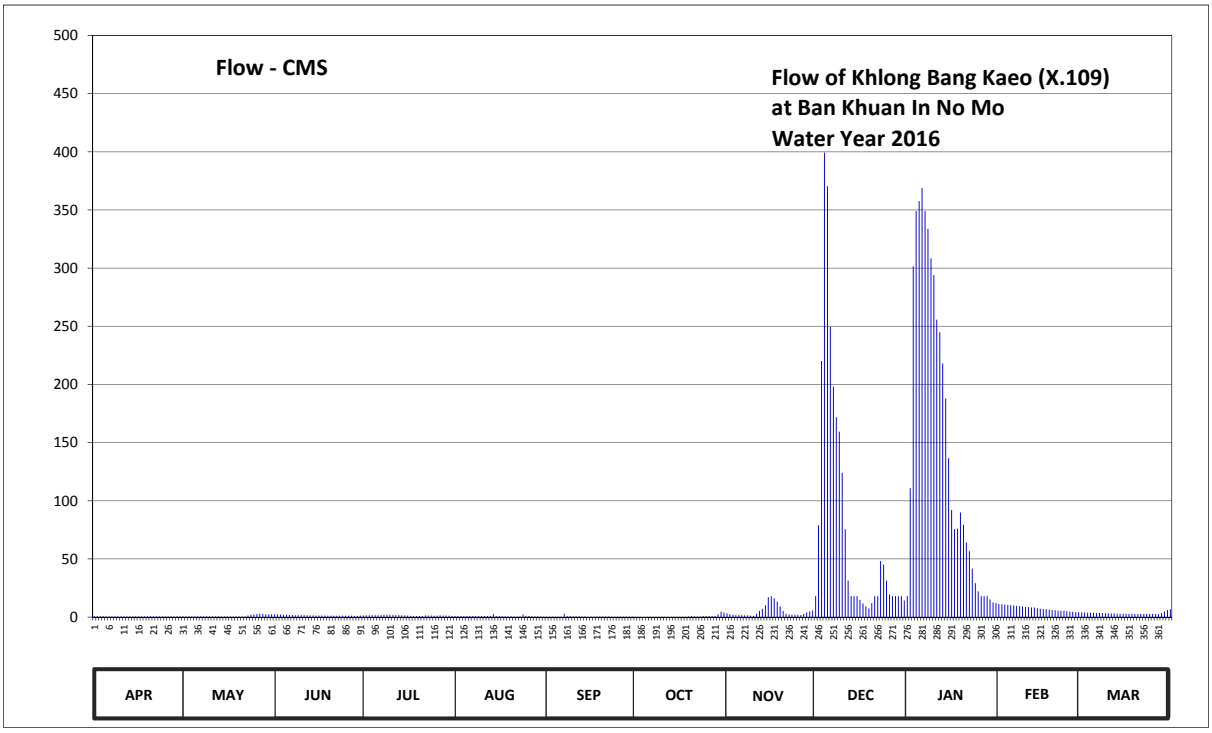
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.25	26.23	26.44	26.35	26.29	26.18	26.16	26.53	27.89	27.97	27.25	26.61	
2	26.25	26.23	26.43	26.35	26.29	26.18	26.16	26.45	29.80	30.38	27.23	26.60	
3	26.25	26.23	26.42	26.35	26.29	26.18	26.16	26.40	31.72	32.41	27.21	26.59	
4	26.25	26.23	26.41	26.36	26.28	26.17	26.16	26.37	33.07	32.75	27.20	26.58	
5	26.24	26.23	26.40	26.37	26.28	26.17	26.15	26.36	32.89	32.81	27.19	26.57	
6	26.24	26.23	26.39	26.37	26.28	26.17	26.15	26.36	31.98	32.88	27.17	26.56	
7	26.24	26.23	26.38	26.38	26.28	26.47	26.15	26.35	31.50	32.75	27.15	26.56	
8	26.24	26.23	26.37	26.39	26.28	26.26	26.15	26.35	31.22	32.64	27.13	26.55	
9	26.24	26.23	26.37	26.40	26.28	26.25	26.15	26.32	31.08	32.46	27.11	26.54	
10	26.24	26.23	26.36	26.40	26.28	26.24	26.15	26.31	30.60	32.35	27.09	26.53	
11	26.24	26.23	26.36	26.39	26.29	26.24	26.15	26.49	29.73	32.03	27.06	26.52	
12	26.24	26.23	26.36	26.37	26.29	26.23	26.15	26.73	28.89	31.94	27.04	26.51	
13	26.23	26.23	26.35	26.36	26.29	26.21	26.14	26.92	28.36	31.70	27.02	26.50	
14	26.23	26.22	26.35	26.35	26.46	26.20	26.14	27.18	28.06	31.40	26.96	26.49	
15	26.23	26.22	26.34	26.35	26.28	26.19	26.14	27.65	27.81	30.78	26.91	26.49	
16	26.23	26.22	26.34	26.34	26.28	26.19	26.14	27.83	27.49	30.06	26.88	26.49	
17	26.23	26.22	26.34	26.31	26.27	26.19	26.14	27.58	27.28	29.73	26.87	26.48	
18	26.23	26.22	26.33	26.30	26.23	26.20	26.14	27.38	27.11	29.74	26.84	26.48	
19	26.23	26.22	26.32	26.29	26.23	26.21	26.21	27.11	26.94	30.02	26.80	26.48	
20	26.23	26.22	26.32	26.29	26.23	26.22	26.30	26.72	27.30	29.81	26.79	26.48	
21	26.23	26.22	26.32	26.29	26.22	26.20	26.23	26.49	28.10	29.48	26.76	26.47	
22	26.23	26.22	26.32	26.33	26.22	26.20	26.20	26.42	28.69	29.29	26.75	26.47	
23	26.23	26.34	26.32	26.33	26.22	26.19	26.20	26.41	29.13	29.04	26.73	26.47	
24	26.23	26.40	26.32	26.33	26.42	26.19	26.30	26.40	29.09	28.86	26.71	26.47	
25	26.23	26.42	26.32	26.32	26.30	26.19	26.30	26.39	28.89	28.76	26.68	26.47	
26	26.23	26.46	26.32	26.32	26.28	26.19	26.29	26.38	28.72	28.48	26.66	26.46	
27	26.23	26.49	26.32	26.35	26.25	26.19	26.29	26.48	28.51	28.20	26.63	26.45	
28	26.23	26.47	26.31	26.34	26.24	26.19	26.29	26.60	28.30	27.83	26.62	26.55	
29	26.23	26.45	26.31	26.33	26.23	26.18	26.45	26.69	28.06	27.52		26.69	
30	26.23	26.43	26.34	26.32	26.20	26.18	26.67	26.76	27.80	27.33		26.82	
31		26.44		26.29	26.19		26.60		27.45	27.30		26.87	
Mean	26.24	26.29	26.35	26.34	26.27	26.21	26.23	26.68	29.14	30.28	26.94	26.54	
Max	26.25	26.49	26.44	26.40	26.46	26.47	26.67	27.83	33.07	32.88	27.25	26.87	33.07
Min	26.23	26.22	26.31	26.29	26.19	26.17	26.14	26.31	26.94	27.30	26.62	26.45	26.14

Annual Max Momentary Gage Height 33.36 m. (MSL.) , at 19.00 Hours , on Dec 4 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 25.49 m. (MSL.)

Left Bank Elevation 34.05 m. (MSL.) ,

Right Bank Elevation 34.79 m. (MSL.) , Drainage Are 131 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.65	2.40	1.50	0.95	0.40	0.30	3.30	18.00	18.00	11.25	4.10	
2	0.75	0.65	2.30	1.50	0.95	0.40	0.30	2.50	79.00	110.80	10.95	4.00	
3	0.75	0.65	2.20	1.50	0.95	0.40	0.30	2.00	220.20	301.40	10.65	3.90	
4	0.75	0.65	2.10	1.60	0.90	0.35	0.30	1.70	399.20	349.00	10.50	3.80	
5	0.70	0.65	2.00	1.70	0.90	0.35	0.25	1.60	370.40	357.60	10.35	3.70	
6	0.70	0.65	1.90	1.70	0.90	0.35	0.25	1.60	249.60	368.80	10.05	3.60	
7	0.70	0.65	1.80	1.80	0.90	2.70	0.25	1.50	198.00	349.00	9.75	3.60	
8	0.70	0.65	1.70	1.90	0.90	0.80	0.25	1.50	171.80	333.60	9.45	3.50	
9	0.70	0.65	1.70	2.00	0.90	0.75	0.25	1.20	159.40	308.40	9.15	3.40	
10	0.70	0.65	1.60	2.00	0.90	0.70	0.25	1.10	124.00	294.00	8.90	3.30	
11	0.70	0.65	1.60	1.90	0.95	0.70	0.25	2.90	75.50	255.60	8.60	3.20	
12	0.70	0.65	1.60	1.70	0.95	0.65	0.25	5.30	31.30	244.80	8.40	3.10	
13	0.65	0.65	1.50	1.60	0.95	0.55	0.20	7.20	18.00	218.00	8.20	3.00	
14	0.65	0.60	1.50	1.50	2.60	0.50	0.20	10.20	18.00	188.00	7.60	2.90	
15	0.65	0.60	1.40	1.50	0.90	0.45	0.20	17.25	18.00	136.60	7.10	2.90	
16	0.65	0.60	1.40	1.40	0.90	0.45	0.20	18.00	14.85	92.00	6.80	2.90	
17	0.65	0.60	1.40	1.10	0.85	0.45	0.20	16.20	11.70	75.50	6.70	2.80	
18	0.65	0.60	1.30	1.00	0.65	0.50	0.20	13.20	9.15	76.00	6.40	2.80	
19	0.65	0.60	1.20	0.95	0.65	0.55	0.55	9.15	7.40	90.00	6.00	2.80	
20	0.65	0.60	1.20	0.95	0.65	0.60	1.00	5.20	12.00	79.50	5.90	2.80	
21	0.65	0.60	1.20	0.95	0.60	0.50	0.65	2.90	18.00	64.20	5.60	2.70	
22	0.65	0.60	1.20	1.30	0.60	0.50	0.50	2.20	18.00	56.60	5.50	2.70	
23	0.65	1.40	1.20	1.30	0.60	0.45	0.50	2.10	48.10	41.80	5.30	2.70	
24	0.65	2.00	1.20	1.30	2.20	0.45	1.00	2.00	45.30	29.20	5.10	2.70	
25	0.65	2.20	1.20	1.20	1.00	0.45	1.00	1.90	31.30	22.20	4.80	2.70	
26	0.65	2.60	1.20	1.20	0.90	0.45	0.95	1.80	19.40	18.00	4.60	2.60	
27	0.65	2.90	1.20	1.50	0.75	0.45	0.95	2.80	18.00	18.00	4.30	2.50	
28	0.65	2.70	1.10	1.40	0.70	0.45	0.95	4.00	18.00	18.00	4.20	3.50	
29	0.65	2.50	1.10	1.30	0.65	0.40	2.50	4.90	18.00	15.30		4.90	
30	0.65	2.30	1.40	1.20	0.50	0.40	4.70	5.60	18.00	12.45		6.20	
31		2.40		0.95	0.45		4.00		14.25	12.00		6.70	
Total	20.30	34.85	45.80	44.40	28.15	17.10	23.65	152.80	2471.85	4554.35	212.10	106.00	7711.35	CMSDAY
Mean	0.68	1.12	1.53	1.43	0.91	0.57	0.76	5.09	79.74	146.91	7.58	3.42	21.13	CMS
Max	0.75	2.90	2.40	2.00	2.60	2.70	4.70	18.00	399.20	368.80	11.25	6.70	399.20	CMS
Min	0.65	0.60	1.10	0.95	0.45	0.35	0.20	1.10	7.40	12.00	4.20	2.50	0.20	CMS
Runoff	1.75	3.01	3.96	3.84	2.43	1.48	2.04	13.20	213.57	393.50	18.33	9.16	666.26	MCM

Momentary Peak 448.80 CMS. at 33.36 m. (MSL.) at 19.00 Hours , on Dec 4 , 2016

Runoff Yield 161.32 Liters/Second/Square KM. Momentary Peak Yield 3427.000 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Sadao at Ban Takian Pao , Songkhla (X.112)

Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

Location : on right bank at Ban Takian Pao.

	Ban Takian Pao	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	493 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.	**Elevation**	+24.515 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1979 - 1996 , 2006 to date		
Rating Operation			
Period of Rating	1979 - 1996 , 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1996 , 2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 25.070 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

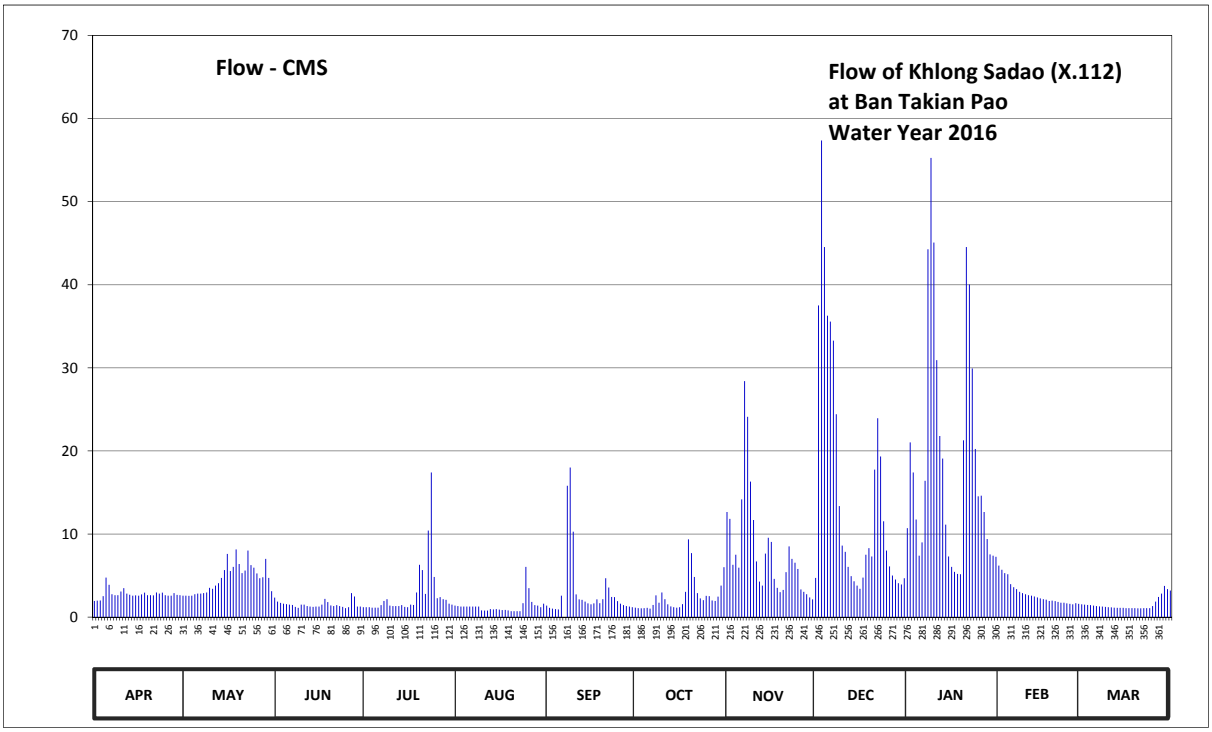
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.65	20.86	20.78	20.40	20.46	20.46	20.38	22.86	21.43	22.60	21.74	20.51	
2	20.66	20.86	20.62	20.40	20.44	20.37	20.36	22.76	24.52	23.64	21.64	20.50	
3	20.67	20.85	20.57	20.40	20.42	20.34	20.35	21.76	25.21	23.35	21.56	20.49	
4	20.84	20.86	20.54	20.38	20.42	20.32	20.36	22.00	24.79	22.75	21.53	20.48	
5	21.44	20.92	20.52	20.38	20.42	20.31	20.37	21.69	24.47	21.98	21.24	20.46	
6	21.22	20.94	20.50	20.38	20.42	20.86	20.34	23.03	24.44	22.30	21.15	20.44	
7	20.92	20.94	20.49	20.48	20.42		20.49	24.10	24.34	23.26	21.09	20.43	
8	20.88	20.96	20.41	20.65	20.42	23.20	20.87	23.85	23.87	24.78	21.01	20.42	
9	20.88	20.99	20.37	20.72	20.42	23.40	20.58	23.25	22.94	25.15	20.96	20.41	
10	21.02	21.13	20.50	20.46	20.27	22.54	20.99	22.74	22.22	24.81	20.92	20.40	
11	21.12	21.10	20.50	20.44	20.26	20.91	20.72	21.84	22.07	24.23	20.88	20.39	
12	20.94	21.20	20.44	20.44	20.26	20.71	20.51	21.32	21.71	23.70	20.86	20.38	
13	20.90	21.27	20.42	20.44	20.32	20.69	20.43	21.20	21.48	23.49	20.83	20.37	
14	20.86	21.43	20.41	20.48	20.31	20.62	20.40	22.03	21.33	22.66	20.79	20.37	
15	20.87	21.63	20.42	20.41	20.32	20.55	20.38	22.41	21.20	21.96	20.75	20.37	
16	20.86	22.02	20.42	20.40	20.30	20.51	20.40	22.31	21.10	21.71	20.72	20.36	
17	20.91	21.61	20.50	20.50	20.28	20.55	20.52	21.40	21.44	21.59	20.70	20.36	
18	20.98	21.71	20.73	20.49	20.29	20.71	21.01	21.13	22.00	21.54	20.65	20.36	
19	20.88	22.13	20.60	20.99	20.27	20.56	22.37	21.00	22.16	21.53	20.66	20.36	
20	20.88	21.78	20.47	21.76	20.24	20.72	22.04	21.07	21.96	23.66	20.64	20.35	
21	20.87	21.56	20.44	21.63	20.24	21.42	21.46	21.58	23.38	24.79	20.61	20.35	
22	20.99	21.62	20.48	20.93	20.24	21.14	20.96	22.20	23.84	24.62	20.58	20.36	
23	20.94	22.10	20.44	22.56	20.24	20.81	20.75	21.90	23.51	24.18	20.58	20.36	
24	20.98	21.75	20.41	23.35	20.56	20.80	20.68	21.81	22.72	23.58	20.55	20.36	
25	20.88	21.69	20.36	21.46	21.71	20.64	20.85	21.66	22.10	23.07	20.53	20.44	
26	20.86	21.55	20.40	20.76	21.12	20.54	20.84	21.08	21.72	23.08	20.51	20.62	
27	20.86	21.42	20.96	20.80	20.61	20.48	20.67	21.01	21.50	22.86	20.56	20.81	
28	20.96	21.45	20.83	20.72	20.48	20.44	20.65	20.92	21.38	22.38	20.53	20.94	
29	20.89	21.90	20.42	20.69	20.46	20.42	20.82	20.79	21.27	22.01		21.19	
30	20.88	21.43	20.42	20.54	20.40	20.40	21.20	20.71	21.23	21.98		21.09	
31		21.03		20.50	20.54		21.70		21.42	21.95		21.05	
Mean	20.92	21.38	20.51	20.80	20.44	20.88	20.79	21.91	22.54	23.07	20.88	20.51	
Max	21.44	22.13	20.96	23.35	21.71	23.40	22.37	24.10	25.21	25.15	21.74	21.19	25.21
Min	20.65	20.85	20.36	20.38	20.24	20.31	20.34	20.71	21.10	21.53	20.51	20.35	20.24

Annual Max Momentary Gage Height 25.24 m. (MSL.) , at 06.00 Hours , on Dec 3 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 19.80 m. (MSL.)

Left Bank Elevation 25.39 m. (MSL.) ,

Right Bank Elevation 25.06 m. (MSL.) , Drainage Are 493 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.95	2.58	2.34	1.20	1.38	1.38	1.14	12.64	4.72	10.70	6.20	1.53	
2	1.98	2.58	1.86	1.20	1.32	1.11	1.08	11.82	37.50	21.02	5.70	1.50	
3	2.01	2.55	1.71	1.20	1.26	1.02	1.05	6.30	57.35	17.40	5.30	1.47	
4	2.52	2.58	1.62	1.14	1.26	0.96	1.08	7.50	44.53	11.75	5.15	1.44	
5	4.76	2.76	1.56	1.14	1.26	0.93	1.11	5.95	36.28	7.40	3.96	1.38	
6	3.88	2.82	1.50	1.14	1.26	2.58	1.02	14.17	35.56	9.00	3.60	1.32	
7	2.76	2.82	1.47	1.44	1.26		1.47	28.40	33.28	16.40	3.36	1.29	
8	2.64	2.88	1.23	1.95	1.26	15.80	2.61	24.10	24.42	44.26	3.04	1.26	
9	2.64	2.97	1.11	2.16	1.26	18.00	1.74	16.30	13.36	55.25	2.88	1.23	
10	3.08	3.52	1.50	1.38	0.81	10.28	2.97	11.68	8.60	45.08	2.76	1.20	
11	3.48	3.40	1.50	1.32	0.78	2.73	2.16	6.70	7.85	30.93	2.64	1.17	
12	2.82	3.80	1.32	1.32	0.78	2.13	1.53	4.28	6.05	21.80	2.58	1.14	
13	2.70	4.08	1.26	1.32	0.96	2.07	1.29	3.80	4.92	19.08	2.49	1.11	
14	2.58	4.72	1.23	1.44	0.93	1.86	1.20	7.65	4.32	11.12	2.37	1.11	
15	2.61	5.65	1.26	1.23	0.96	1.65	1.14	9.55	3.80	7.30	2.25	1.11	
16	2.58	7.60	1.26	1.20	0.90	1.53	1.20	9.05	3.40	6.05	2.16	1.08	
17	2.73	5.55	1.50	1.50	0.84	1.65	1.56	4.60	4.76	5.45	2.10	1.08	
18	2.94	6.05	2.19	1.47	0.87	2.13	3.04	3.52	7.50	5.20	1.95	1.08	
19	2.64	8.15	1.80	2.97	0.81	1.68	9.35	3.00	8.30	5.15	1.98	1.08	
20	2.64	6.40	1.41	6.30	0.72	2.16	7.70	3.28	7.30	21.28	1.92	1.05	
21	2.61	5.30	1.32	5.65	0.72	4.68	4.84	5.40	17.76	44.53	1.83	1.05	
22	2.97	5.60	1.44	2.79	0.72	3.56	2.88	8.50	23.94	40.02	1.74	1.08	
23	2.82	8.00	1.32	10.42	0.72	2.43	2.25	7.00	19.33	29.92	1.74	1.08	
24	2.94	6.25	1.23	17.40	1.68	2.40	2.04	6.55	11.54	20.24	1.65	1.08	
25	2.64	5.95	1.08	4.84	6.05	1.92	2.55	5.80	8.00	14.53	1.59	1.32	
26	2.58	5.25	1.20	2.28	3.48	1.62	2.52	3.32	6.10	14.62	1.53	1.86	
27	2.58	4.68	2.88	2.40	1.83	1.44	2.01	3.04	5.00	12.64	1.68	2.43	
28	2.88	4.80	2.49	2.16	1.44	1.32	1.95	2.76	4.52	9.40	1.59	2.82	
29	2.67	7.00	1.26	2.07	1.38	1.26	2.46	2.37	4.08	7.55		3.76	
30	2.64	4.72	1.26	1.62	1.20	1.20	3.80	2.13	3.92	7.40		3.36	
31		3.12		1.50	1.62		6.00		4.68	7.25		3.20	
Total	83.27	144.13	46.11	87.15	41.72	93.48	78.74	241.16	462.67	579.72	77.74	47.67	1983.56	CMSDAY
Mean	2.78	4.65	1.54	2.81	1.35	3.22	2.54	8.04	14.92	18.70	2.78	1.54	5.45	CMS
Max	4.76	8.15	2.88	17.40	6.05	18.00	9.35	28.40	57.35	55.25	6.20	3.76	57.35	CMS
Min	1.95	2.55	1.08	1.14	0.72	0.93	1.02	2.13	3.40	5.15	1.53	1.05	0.72	CMS
Runoff	7.19	12.45	3.98	7.53	3.60	8.08	6.80	20.84	39.97	50.09	6.72	4.12	171.38	MCM

Momentary Peak 58.40 CMS. at 25.24 m. (MSL.) at 06.00 Hours , on Dec 3, 2016

Runoff Yield 11.02 Liters/Second/Square KM. Momentary Peak Yield 118.460 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

	Ban Thung Prap	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	118 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 15 meters from the gage observer's house.	**Elevation**	+37.552 m. (MSL.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

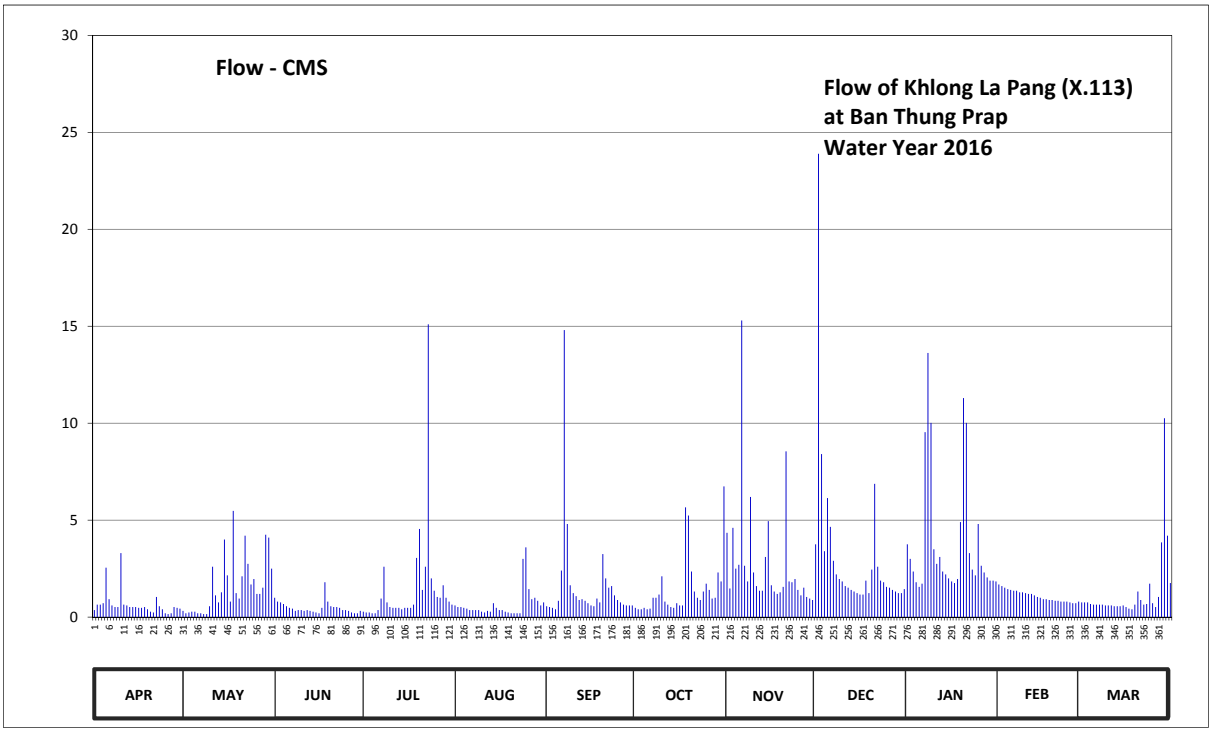
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.59	31.58	31.75	31.57	31.65	31.64	31.62	32.47	32.35	32.35	31.92	31.69	
2	31.66	31.55	31.70	31.56	31.63	31.63	31.60	31.87	34.60	32.20	31.90	31.69	
3	31.66	31.56	31.69	31.56	31.63	31.62	31.60	32.52	33.13	32.07	31.88	31.69	
4	31.68	31.57	31.67	31.55	31.62	31.60	31.62	32.10	32.28	31.95	31.86	31.67	
5	32.11	31.57	31.64	31.55	31.61	31.71	31.60	32.14	32.79	31.89	31.85	31.66	
6	31.73	31.55	31.62	31.59	31.59	32.08	31.61	33.98	32.53	31.93	31.84	31.66	
7	31.65	31.55	31.61	31.74	31.59	33.93	31.75	32.13	32.18	33.28	31.84	31.66	
8	31.63	31.54	31.58	32.12	31.59	32.56	31.75	31.96	32.04	33.79	31.82	31.66	
9	31.63	31.54	31.59	31.69	31.59	31.91	31.79	32.80	31.99	33.34	31.82	31.65	
10	32.26	31.64	31.59	31.63	31.57	31.81	32.02	32.06	31.96	32.30	31.81	31.65	
11	31.66	32.12	31.58	31.62	31.56	31.77	31.70	31.90	31.90	32.15	31.80	31.65	
12	31.65	31.78	31.59	31.62	31.58	31.72	31.66	31.84	31.88	32.22	31.80	31.64	
13	31.63	31.69	31.58	31.62	31.57	31.73	31.63	31.84	31.85	32.07	31.78	31.64	
14	31.63	31.82	31.57	31.60	31.68	31.71	31.62	32.22	31.83	32.04	31.76	31.64	
15	31.63	32.40	31.56	31.62	31.62	31.68	31.68	32.59	31.81	32.00	31.75	31.65	
16	31.62	32.03	31.55	31.62	31.59	31.65	31.65	31.91	31.79	31.96	31.73	31.63	
17	31.62	31.70	31.62	31.62	31.59	31.64	31.65	31.83	31.79	31.94	31.73	31.61	
18	31.63	32.68	31.95	31.66	31.57	31.74	32.71	31.80	31.97	31.99	31.72	31.60	
19	31.60	31.81	31.70	32.21	31.56	31.69	32.64	31.82	31.81	32.58	31.72	31.66	
20	31.57	31.74	31.64	32.51	31.55	32.25	32.07	31.89	32.09	33.50	31.71	31.83	
21	31.56	32.02	31.63	31.85	31.55	32.00	31.83	33.15	32.91	33.34	31.71	31.72	
22	31.76	32.44	31.63	32.12	31.55	31.88	31.75	31.96	32.12	32.26	31.70	31.66	
23	31.64	32.15	31.62	33.96	31.55	31.90	31.72	31.95	31.97	32.09	31.70	31.67	
24	31.60	31.92	31.59	32.00	32.20	31.78	31.83	31.99	31.95	32.03	31.70	31.93	
25	31.55	31.99	31.59	31.84	32.32	31.72	31.93	31.85	31.89	32.56	31.69	31.68	
26	31.54	31.80	31.58	31.76	31.86	31.69	31.85	31.78	31.88	32.13	31.68	31.63	
27	31.55	31.80	31.56	31.75	31.73	31.66	31.74	31.88	31.85	32.06	31.68	31.76	
28	31.63	31.88	31.55	31.91	31.75	31.65	31.75	31.76	31.83	32.01	31.70	32.37	
29	31.62	32.45	31.55	31.75	31.71	31.65	32.06	31.74	31.81	31.97		33.37	
30	31.61	32.42	31.58	31.70	31.65	31.65	31.96	31.72	31.81	31.97		32.44	
31		32.10		31.66	31.69		32.89		31.86	31.96		31.94	
Mean	31.66	31.88	31.62	31.82	31.66	31.86	31.85	32.12	32.14	32.32	31.77	31.79	
Max	32.26	32.68	31.95	33.96	32.32	33.93	32.89	33.98	34.60	33.79	31.92	33.37	34.60
Min	31.54	31.54	31.55	31.55	31.55	31.60	31.60	31.72	31.79	31.89	31.68	31.60	31.54

Annual Max Momentary Gage Height 35.04 m. (MSL.) , at 13.00 Hours , on Dec 2 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 31.18 m. (MSL.)

Left Bank Elevation 36.55 m. (MSL.) ,

Right Bank Elevation 36.64 m. (MSL.) , Drainage Are 118 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.32	1.00	0.28	0.60	0.56	0.48	4.35	3.75	3.75	1.68	0.76	
2	0.64	0.20	0.80	0.24	0.52	0.52	0.40	1.48	23.90	3.00	1.60	0.76	
3	0.64	0.24	0.76	0.24	0.52	0.48	0.40	4.60	8.41	2.35	1.52	0.76	
4	0.72	0.28	0.68	0.20	0.48	0.40	0.48	2.50	3.40	1.80	1.44	0.68	
5	2.55	0.28	0.56	0.20	0.44	0.84	0.40	2.70	6.14	1.56	1.40	0.64	
6	0.92	0.20	0.48	0.36	0.36	2.40	0.44	15.30	4.65	1.72	1.36	0.64	
7	0.60	0.20	0.44	0.96	0.36	14.80	1.00	2.65	2.90	9.54	1.36	0.64	
8	0.52	0.16	0.32	2.60	0.36	4.80	1.00	1.84	2.20	13.62	1.28	0.64	
9	0.52	0.16	0.36	0.76	0.36	1.64	1.16	6.20	1.96	10.02	1.28	0.60	
10	3.30	0.56	0.36	0.52	0.28	1.24	2.10	2.30	1.84	3.50	1.24	0.60	
11	0.64	2.60	0.32	0.48	0.24	1.08	0.80	1.60	1.60	2.75	1.20	0.60	
12	0.60	1.12	0.36	0.48	0.32	0.88	0.64	1.36	1.52	3.10	1.20	0.56	
13	0.52	0.76	0.32	0.48	0.28	0.92	0.52	1.36	1.40	2.35	1.12	0.56	
14	0.52	1.28	0.28	0.40	0.72	0.84	0.48	3.10	1.32	2.20	1.04	0.56	
15	0.52	4.00	0.24	0.48	0.48	0.72	0.72	4.95	1.24	2.00	1.00	0.60	
16	0.48	2.15	0.20	0.48	0.36	0.60	0.60	1.64	1.16	1.84	0.92	0.52	
17	0.48	0.80	0.48	0.48	0.36	0.56	0.60	1.32	1.16	1.76	0.92	0.44	
18	0.52	5.48	1.80	0.64	0.28	0.96	5.66	1.20	1.88	1.96	0.88	0.40	
19	0.40	1.24	0.80	3.05	0.24	0.76	5.24	1.28	1.24	4.90	0.88	0.64	
20	0.28	0.96	0.56	4.55	0.20	3.25	2.35	1.56	2.45	11.30	0.84	1.32	
21	0.24	2.10	0.52	1.40	0.20	2.00	1.32	8.55	6.87	10.02	0.84	0.88	
22	1.04	4.20	0.52	2.60	0.20	1.52	1.00	1.84	2.60	3.30	0.80	0.64	
23	0.56	2.75	0.48	15.10	0.20	1.60	0.88	1.80	1.88	2.45	0.80	0.68	
24	0.40	1.68	0.36	2.00	3.00	1.12	1.32	1.96	1.80	2.15	0.80	1.72	
25	0.20	1.96	0.36	1.36	3.60	0.88	1.72	1.40	1.56	4.80	0.76	0.72	
26	0.16	1.20	0.32	1.04	1.44	0.76	1.40	1.12	1.52	2.65	0.72	0.52	
27	0.20	1.20	0.24	1.00	0.92	0.64	0.96	1.52	1.40	2.30	0.72	1.04	
28	0.52	1.52	0.20	1.64	1.00	0.60	1.00	1.04	1.32	2.05	0.80	3.85	
29	0.48	4.25	0.20	1.00	0.84	0.60	2.30	0.96	1.24	1.88		10.26	
30	0.44	4.10	0.32	0.80	0.60	0.60	1.84	0.88	1.24	1.88		4.20	
31		2.50		0.64	0.76		6.74		1.44	1.84		1.76	
Total	19.97	50.45	14.64	46.46	20.52	48.57	45.95	84.36	96.99	120.34	30.40	39.19	617.84	CMSDAY
Mean	0.67	1.63	0.49	1.50	0.66	1.62	1.48	2.81	3.13	3.88	1.09	1.26	1.69	CMS
Max	3.30	5.48	1.80	15.10	3.60	14.80	6.74	15.30	23.90	13.62	1.68	10.26	23.90	CMS
Min	0.16	0.16	0.20	0.20	0.20	0.40	0.40	0.88	1.16	1.56	0.72	0.40	0.16	CMS
Runoff	1.73	4.36	1.26	4.01	1.77	4.20	3.97	7.29	8.38	10.40	2.63	3.39	53.38	MCM

Momentary Peak 33.58 CMS. at 35.04 m. (MSL.) at 13.00 Hours , on Dec 2 , 2016

Runoff Yield 14.29 Liters/Second/Square KM. Momentary Peak Yield 283.500 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

Ban Khlong Lam **Amphoe** Srinagarindra **Changwat** Phatthalung

Drainge Area	258 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 21 meters from the top staff gage. **Elevation** +27.274 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

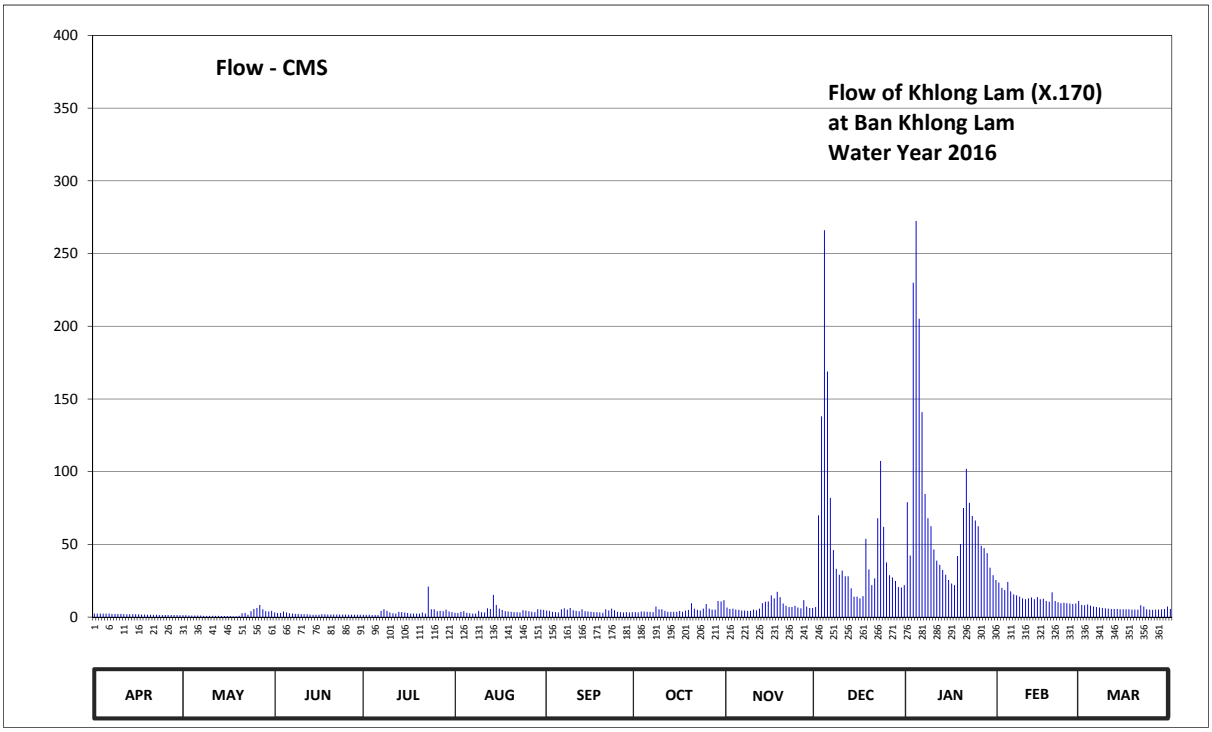
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.13	20.07	20.17	20.09	20.16	20.23	20.18	20.32	20.33	22.14	20.88	20.38	
2	20.13	20.07	20.15	20.09	20.15	20.22	20.17	20.28	21.96	21.36	20.77	20.37	
3	20.13	20.06	20.15	20.09	20.19	20.19	20.20	20.29	23.13	24.35	20.72	20.39	
4	20.13	20.06	20.20	20.08	20.21	20.18	20.20	20.26	24.80	24.88	20.89	20.36	
5	20.13	20.06	20.17	20.08	20.16	20.17	20.19	20.25	23.57	24.04	20.69	20.34	
6	20.13	20.06	20.14	20.08	20.14	20.27	20.19	20.23	22.20	23.17	20.62	20.33	
7	20.12	20.06	20.13	20.22	20.13	20.30	20.18	20.23	21.45	22.25	20.60	20.32	
8	20.12	20.05	20.12	20.27	20.13	20.26	20.34	20.22	21.13	21.92	20.57	20.31	
9	20.12	20.05	20.12	20.22	20.22	20.31	20.27	20.22	21.03	21.81	20.53	20.30	
10	20.12	20.05	20.11	20.17	20.18	20.24	20.27	20.26	21.10	21.46	20.51	20.29	
11	20.11	20.05	20.11	20.14	20.17	20.22	20.22	20.24	21.00	21.27	20.53	20.28	
12	20.11	20.05	20.11	20.13	20.30	20.21	20.19	20.29	21.00	21.20	20.55	20.28	
13	20.11	20.05	20.10	20.19	20.28	20.27	20.19	20.42	20.76	21.11	20.51	20.28	
14	20.11	20.04	20.09	20.18	20.61	20.21	20.19	20.45	20.57	21.03	20.56	20.27	
15	20.11	20.04	20.09	20.17	20.38	20.20	20.19	20.46	20.57	20.93	20.51	20.27	
16	20.11	20.04	20.09	20.15	20.29	20.19	20.22	20.60	20.53	20.86	20.52	20.27	
17	20.10	20.04	20.11	20.13	20.25	20.18	20.19	20.53	20.58	20.83	20.47	20.27	
18	20.10	20.03	20.11	20.13	20.21	20.18	20.23	20.68	21.63	21.35	20.45	20.26	
19	20.09	20.03	20.10	20.13	20.20	20.17	20.25	20.56	21.12	21.55	20.67	20.26	
20	20.09	20.05	20.10	20.13	20.19	20.16	20.42	20.41	20.83	22.06	20.47	20.26	
21	20.09	20.14	20.10	20.17	20.18	20.27	20.29	20.36	20.96	22.55	20.44	20.37	
22	20.09	20.15	20.10	20.13	20.18	20.23	20.25	20.33	21.92	22.13	20.42	20.34	
23	20.08	20.09	20.10	20.80	20.17	20.29	20.23	20.33	22.64	21.95	20.43	20.27	
24	20.08	20.21	20.10	20.27	20.24	20.24	20.29	20.36	21.80	21.89	20.42	20.26	
25	20.08	20.28	20.10	20.27	20.23	20.19	20.40	20.32	21.24	21.81	20.41	20.25	
26	20.08	20.31	20.09	20.21	20.21	20.18	20.29	20.30	21.02	21.52	20.40	20.26	
27	20.08	20.38	20.09	20.22	20.19	20.17	20.26	20.49	20.98	21.48	20.41	20.26	
28	20.08	20.27	20.09	20.21	20.18	20.18	20.26	20.34	20.91	21.40	20.47	20.27	
29	20.08	20.21	20.09	20.26	20.27	20.17	20.47	20.31	20.79	21.15		20.28	
30	20.07	20.20	20.09	20.20	20.26	20.18	20.46	20.31	20.78	21.02		20.34	
31		20.22		20.18	20.25		20.49		20.83	20.93		20.28	
Mean	20.10	20.11	20.11	20.19	20.22	20.22	20.26	20.35	21.39	21.85	20.55	20.30	
Max	20.13	20.38	20.20	20.80	20.61	20.31	20.49	20.68	24.80	24.88	20.89	20.39	24.88
Min	20.07	20.03	20.09	20.08	20.13	20.16	20.17	20.22	20.33	20.83	20.40	20.25	20.03

Annual Max Momentary Gage Height 26.83 m. (MSL.) , at 18.00 Hours , on Jan 3 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 18.66 m. (MSL.)

Left Bank Elevation 27.97 m. (MSL.) ,

Right Bank Elevation 27.58 m. (MSL.) , Drainage Are 258 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	1.26	3.20	1.62	3.00	4.46	3.40	6.60	6.90	79.00	23.80	8.40	
2	2.40	1.26	2.80	1.62	2.80	4.24	3.20	5.56	70.00	42.40	20.10	8.10	
3	2.40	1.08	2.80	1.62	3.60	3.60	3.80	5.78	138.10	230.00	18.60	8.70	
4	2.40	1.08	3.80	1.44	4.02	3.40	3.80	5.12	266.00	272.40	24.15	7.80	
5	2.40	1.08	3.20	1.44	3.00	3.20	3.60	4.90	168.90	205.20	17.70	7.20	
6	2.40	1.08	2.60	1.44	2.60	5.34	3.60	4.46	82.00	140.90	15.60	6.90	
7	2.20	1.08	2.40	4.24	2.40	6.00	3.40	4.46	46.10	84.75	15.00	6.60	
8	2.20	0.90	2.20	5.34	2.40	5.12	7.20	4.24	33.20	68.00	14.10	6.30	
9	2.20	0.90	2.20	4.24	4.24	6.30	5.34	4.24	29.20	62.50	12.90	6.00	
10	2.20	0.90	2.00	3.20	3.40	4.68	5.34	5.12	32.00	46.52	12.30	5.78	
11	2.00	0.90	2.00	2.60	3.20	4.24	4.24	4.68	28.00	38.80	12.90	5.56	
12	2.00	0.90	2.00	2.40	6.00	4.02	3.60	5.78	28.00	36.00	13.50	5.56	
13	2.00	0.90	1.80	3.60	5.56	5.34	3.60	9.60	19.80	32.40	12.30	5.56	
14	2.00	0.72	1.62	3.40	15.30	4.02	3.60	10.50	14.10	29.20	13.80	5.34	
15	2.00	0.72	1.62	3.20	8.40	3.80	3.60	10.80	14.10	25.55	12.30	5.34	
16	2.00	0.72	1.62	2.80	5.78	3.60	4.24	15.00	12.90	23.10	12.60	5.34	
17	1.80	0.72	2.00	2.40	4.90	3.40	3.60	12.90	14.40	22.05	11.10	5.34	
18	1.80	0.54	2.00	2.40	4.02	3.40	4.46	17.40	53.78	42.00	10.50	5.12	
19	1.62	0.54	1.80	2.40	3.80	3.20	4.90	13.80	32.80	50.30	17.10	5.12	
20	1.62	0.90	1.80	2.40	3.60	3.00	9.60	9.30	22.05	75.00	11.10	5.12	
21	1.62	2.60	1.80	3.20	3.40	5.34	5.78	7.80	26.60	102.00	10.20	8.10	
22	1.62	2.80	1.80	2.40	3.40	4.46	4.90	6.90	68.00	78.50	9.60	7.20	
23	1.44	1.62	1.80	21.00	3.20	5.78	4.46	6.90	107.40	69.50	9.90	5.34	
24	1.44	4.02	1.80	5.34	4.68	4.68	5.78	7.80	62.00	66.50	9.60	5.12	
25	1.44	5.56	1.80	5.34	4.46	3.60	9.00	6.60	37.60	62.50	9.30	4.90	
26	1.44	6.30	1.62	4.02	4.02	3.40	5.78	6.00	28.80	49.04	9.00	5.12	
27	1.44	8.40	1.62	4.24	3.60	3.20	5.12	11.70	27.30	47.36	9.30	5.12	
28	1.44	5.34	1.62	4.02	3.40	3.40	5.12	7.20	24.85	44.00	11.10	5.34	
29	1.44	4.02	1.62	5.12	5.34	3.20	11.10	6.30	20.70	34.00		5.56	
30	1.26	3.80	1.62	3.80	5.12	3.40	10.80	6.30	20.40	28.80		7.20	
31		4.24		3.40	4.90		11.70		22.05	25.55		5.56	
Total	56.62	66.88	62.56	115.68	137.54	124.82	167.66	233.74	1558.03	2213.82	379.45	189.74	5306.54	CMSDAY
Mean	1.89	2.16	2.09	3.73	4.44	4.16	5.41	7.79	50.26	71.41	13.55	6.12	14.54	CMS
Max	2.40	8.40	3.80	21.00	15.30	6.30	11.70	17.40	266.00	272.40	24.15	8.70	272.40	CMS
Min	1.26	0.54	1.62	1.44	2.40	3.00	3.20	4.24	6.90	22.05	9.00	4.90	0.54	CMS
Runoff	4.89	5.78	5.41	9.99	11.88	10.78	14.49	20.20	134.61	191.27	32.78	16.39	458.49	MCM

Momentary Peak 457.00 CMS. at 26.83 m. (MSL.) at 18.00 Hours , on Jan 3 , 2017

Runoff Yield 56.42 Liters/Second/Square KM. Momentary Peak Yield 1773.380 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

Lat 06 - 49 - 26 N Long 100 - 26 - 17 E

Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	1,063 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1.13 meters from the top staff gage.	**Elevation**	+16.125 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

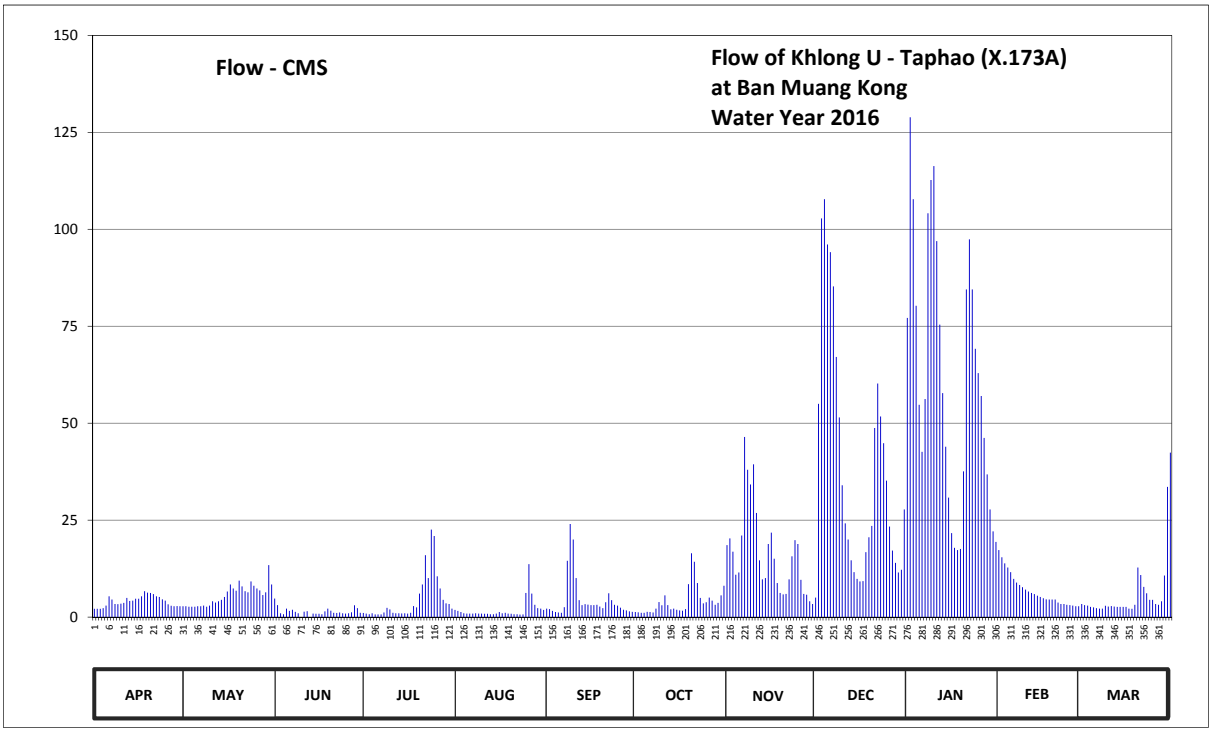
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.59	9.70	10.00	9.41	9.54	9.60	9.45	11.24	10.03	13.89	11.15	9.80	
2	9.59	9.70	9.75	9.38	9.50	9.58	9.44	11.36	13.12	15.04	11.01	9.75	
3	9.59	9.68	9.40	9.35	9.45	9.50	9.42	11.12	14.54	14.65	10.89	9.73	
4	9.62	9.68	9.35	9.40	9.40	9.45	9.42	10.64	14.65	13.98	10.80	9.67	
5	9.73	9.68	9.60	9.34	9.38	9.43	9.46	10.69	14.39	13.11	10.70	9.65	
6	10.07	9.70	9.50	9.34	9.38	9.42	9.45	11.41	14.34	12.58	10.54	9.62	
7	9.96	9.70	9.55	9.34	9.38	9.66	9.43	12.75	14.12	13.17	10.45	9.60	
8	9.80	9.73	9.46	9.43	9.40	10.94	9.60	12.35	13.57	14.57	10.39	9.60	
9	9.79	9.68	9.40	9.63	9.38	11.60	9.87	12.16	12.97	14.76	10.33	9.72	
10	9.81	9.73	9.20	9.56	9.38	11.34	9.74	12.42	12.15	14.83	10.27	9.69	
11	9.84	9.90	9.47	9.42	9.37	10.56	10.10	11.77	11.61	14.41	10.22	9.71	
12	10.02	9.85	9.49	9.40	9.37	9.94	9.75	10.95	11.34	13.84	10.18	9.69	
13	9.91	9.90		9.40	9.35	9.75	9.57	10.53	10.95	13.23	10.14	9.67	
14	9.92	9.95	9.38	9.39	9.35	9.79	9.60	10.56	10.70	12.64	10.09	9.67	
15	9.99	10.05	9.37	9.40	9.38	9.77	9.55	11.26	10.54	11.99	10.05	9.67	
16	9.99	10.22	9.37	9.38	9.45	9.75	9.52	11.46	10.48	11.45	10.01	9.67	
17	10.07	10.40	9.35	9.42	9.40	9.75	9.51	10.98	10.49	11.19	9.97	9.60	
18	10.23	10.30	9.48	9.71	9.42	9.76	9.58	10.44	11.11	11.15	9.96	9.59	
19	10.19	10.24	9.60	9.65	9.38	9.69	10.41	10.18	11.38	11.17	9.96	9.76	
20	10.18	10.50	9.51	10.16	9.37	9.62	11.09	10.13	11.57	12.33	9.96	10.80	
21	10.14	10.35	9.42	10.40	9.35	9.86	10.92	10.15	12.85	14.10	9.85	10.63	
22	10.07	10.23	9.41	11.05	9.35	10.17	10.44	10.53	13.33	14.42	9.80	10.34	
23	10.05	10.20	9.43	10.56	9.33	9.94	10.02	11.03	12.98	14.10	9.80	10.17	
24	9.97	10.48	9.40	11.51	9.34	9.76	9.82	11.33	12.68	13.64	9.76	9.95	
25	9.92	10.37	9.38	11.40	10.18	9.73	9.86	11.26	12.21	13.43	9.75	9.95	
26	9.78	10.30	9.40	10.60	10.87	9.64	10.03	10.52	11.56	13.20	9.73	9.80	
27	9.72	10.25	9.44	10.30	10.16	9.55	9.92	10.15	11.14	12.74	9.70	9.76	
28	9.70	10.11	9.74	9.95	9.76	9.52	9.76	10.12	10.90	12.29	9.70	9.90	
29	9.71	10.20	9.62	9.82	9.62	9.48	9.84	9.90	10.69	11.82		10.62	
30	9.70	10.85	9.42	9.80	9.60	9.46	10.10	9.80	10.75	11.48		12.13	
31		10.40		9.60	9.54		10.37		11.82	11.30		12.57	
Mean	9.89	10.07	9.48	9.82	9.52	9.87	9.84	10.97	12.10	13.11	10.18	10.02	
Max	10.23	10.85	10.00	11.51	10.87	11.60	11.09	12.75	14.65	15.04	11.15	12.57	15.04
Min	9.59	9.68	9.20	9.34	9.33	9.42	9.42	9.80	10.03	11.15	9.70	9.59	9.20

Annual Max Momentary Gage Height 15.10 m. (MSL.) , at 13.00 Hours , on Jan 2 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 8.86 m. (MSL.)

Left Bank Elevation 15.27 m. (MSL.) ,

Right Bank Elevation 16.17 m. (MSL.) , Drainage Are 1,063 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.14	2.80	4.80	1.06	1.84	2.20	1.30	18.56	5.04	77.15	17.30	3.40	
2	2.14	2.80	3.10	0.90	1.60	2.08	1.24	20.30	55.00	128.90	15.43	3.10	
3	2.14	2.68	1.00	0.75	1.30	1.60	1.12	16.88	102.80	107.75	13.88	2.98	
4	2.32	2.68	0.75	1.00	1.00	1.30	1.12	10.94	107.75	80.30	12.80	2.62	
5	2.98	2.68	2.20	0.70	0.90	1.18	1.36	11.49	96.10	54.75	11.60	2.50	
6	5.36	2.80	1.60	0.70	0.90	1.12	1.30	21.05	94.10	42.60	9.84	2.32	
7	4.52	2.80	1.90	0.70	0.90	2.56	1.18	46.45	85.30	56.25	8.90	2.20	
8	3.40	2.98	1.36	1.18	1.00	14.52	2.20	38.00	67.10	104.15	8.30	2.20	
9	3.34	2.68	1.00	2.38	0.90	24.00	3.89	34.20	51.51	112.70	7.70	2.92	
10	3.47	2.98	0.00	1.96	0.90	20.00	3.04	39.40	34.00	116.30	7.10	2.74	
11	3.68	4.10	1.42	1.12	0.85	10.06	5.60	26.86	24.16	96.95	6.60	2.86	
12	4.96	3.75	1.54	1.00	0.85	4.38	3.10	14.65	20.00	75.40	6.24	2.74	
13	4.17	4.10		1.00	0.75	3.10	2.02	9.73	14.65	57.75	5.92	2.62	
14	4.24	4.45	0.90	0.95	0.75	3.34	2.20	10.06	11.60	43.92	5.52	2.62	
15	4.73	5.20	0.85	1.00	0.90	3.22	1.90	18.84	9.84	30.82	5.20	2.62	
16	4.73	6.60	0.85	0.90	1.30	3.10	1.72	21.80	9.20	21.65	4.88	2.62	
17	5.36	8.40	0.75	1.12	1.00	3.10	1.66	15.04	9.30	17.86	4.59	2.20	
18	6.70	7.40	1.48	2.86	1.12	3.16	2.08	8.80	16.74	17.30	4.52	2.14	
19	6.32	6.80	2.20	2.50	0.90	2.74	8.50	6.24	20.60	17.58	4.52	3.16	
20	6.24	9.40	1.66	6.08	0.85	2.32	16.47	5.84	23.52	37.60	4.52	12.80	
21	5.92	7.90	1.12	8.40	0.75	3.82	14.26	6.00	48.75	84.50	3.75	10.83	
22	5.36	6.70	1.06	15.95	0.75	6.16	8.80	9.73	60.25	97.40	3.40	7.80	
23	5.20	6.40	1.18	10.06	0.65	4.38	4.96	15.69	51.74	84.50	3.40	6.16	
24	4.59	9.20	1.00	22.56	0.70	3.16	3.54	19.85	44.84	69.20	3.16	4.45	
25	4.24	8.10	0.90	20.90	6.24	2.98	3.82	18.84	35.20	62.90	3.10	4.45	
26	3.28	7.40	1.00	10.50	13.64	2.44	5.04	9.62	23.36	57.00	2.98	3.40	
27	2.92	6.90	1.24	7.40	6.08	1.90	4.24	6.00	17.16	46.22	2.80	3.16	
28	2.80	5.68	3.04	4.45	3.16	1.72	3.16	5.76	14.00	36.80	2.80	4.10	
29	2.86	6.40	2.32	3.54	2.32	1.48	3.68	4.10	11.49	27.76		10.72	
30	2.80	13.40	1.12	3.40	2.20	1.36	5.60	3.40	12.20	22.10		33.60	
31		8.40		2.20	1.84		8.10		27.76	19.40		42.40	
Total	122.91	174.56	43.34	139.22	58.84	138.48	128.20	494.12	1205.06	1905.46	190.75	194.43	4795.37	CMSDAY
Mean	4.10	5.63	1.49	4.49	1.90	4.62	4.14	16.47	38.87	61.47	6.81	6.27	13.17	CMS
Max	6.70	13.40	4.80	22.56	13.64	24.00	16.47	46.45	107.75	128.90	17.30	42.40	128.90	CMS
Min	2.14	2.68	0.00	0.70	0.65	1.12	1.12	3.40	5.04	17.30	2.80	2.14	0.00	CMS
Runoff	10.62	15.08	3.74	12.03	5.08	11.96	11.08	42.69	104.12	164.63	16.48	16.80	414.32	MCM

Momentary Peak 132.50 CMS. at 15.10 m. (MSL.) at 13.00 Hours , on Jan 2 , 2017

Runoff Yield 12.35 Liters/Second/Square KM. Momentary Peak Yield 124.540 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Wa at Ban Khlong Wa , Songkhla (X.174)

Lat 06 - 59 - 42 N Long 100 - 29 - 05 E

Location : on right bank at the bridge.

	Ban Khlong Wa	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge Area	116 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+10.954 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

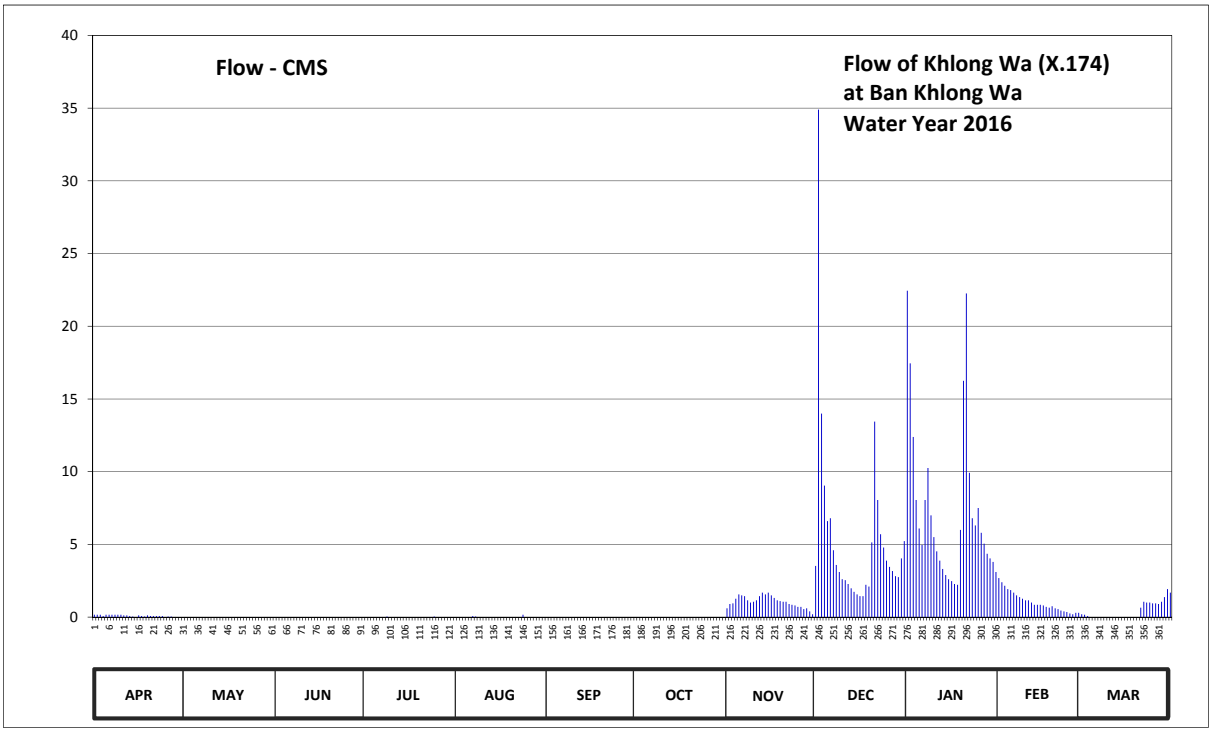
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.39	4.34	4.30	4.33	4.30	4.33	4.19	4.48	4.96	6.48	4.84	4.40	
2	4.39	4.33	4.30	4.32	4.32	4.31	4.19	4.54	7.05	6.19	4.80	4.39	
3	4.39	4.32	4.30	4.32	4.32	4.30	4.20	4.55	5.95	5.83	4.76	4.37	
4	4.37	4.33	4.33	4.29	4.32	4.30	4.18	4.61	5.54	5.45	4.72	4.32	
5	4.39	4.35	4.32	4.30	4.32	4.25	4.18	4.66	5.31	5.26	4.71	4.33	
6	4.39	4.34	4.29	4.31	4.32	4.27	4.20	4.65	5.33	5.14	4.68	4.33	
7	4.39	4.35	4.31	4.30	4.37	4.34	4.19	4.64	5.10	5.45	4.65	4.33	
8	4.39	4.35	4.33	4.31	4.36	4.34	4.20	4.59	4.97	5.65	4.63	4.32	
9	4.39	4.33	4.33	4.36	4.34	4.33	4.18	4.56	4.90	5.35	4.61	4.30	
10	4.39	4.32	4.33	4.32	4.33	4.29	4.16	4.57	4.83	5.20	4.59	4.30	
11	4.38	4.32	4.34	4.29	4.33	4.28	4.17	4.59	4.82	5.09	4.59	4.30	
12	4.38	4.33	4.32	4.30	4.32	4.22	4.18	4.64	4.78	5.01	4.56	4.29	
13	4.37	4.34	4.29	4.31	4.29	4.19	4.18	4.68	4.73	4.93	4.53	4.26	
14	4.36	4.33	4.30	4.31	4.28	4.12	4.17	4.66	4.69	4.87	4.53	4.27	
15	4.35	4.32	4.31	4.30	4.27	4.12	4.18	4.68	4.66	4.83	4.53	4.27	
16	4.38	4.30	4.31	4.30	4.26	4.13	4.17	4.65	4.64	4.81	4.52	4.27	
17	4.37	4.30	4.32	4.30	4.27	4.14	4.18	4.62	4.64	4.78	4.50	4.26	
18	4.36	4.30	4.32	4.29	4.29	4.13	4.24	4.59	4.77	4.77	4.49	4.26	
19	4.38	4.32	4.32	4.31	4.29	4.14	4.26	4.58	4.75	5.25	4.51	4.24	
20	4.37	4.32	4.31	4.29	4.29	4.19	4.31	4.57	5.16	6.11	4.48	4.30	
21	4.37	4.32	4.31	4.27	4.29	4.19	4.30	4.57	5.91	6.47	4.47	4.49	
22	4.37	4.30	4.31	4.33	4.27	4.22	4.27	4.54	5.45	5.62	4.45	4.57	
23	4.37	4.28	4.32	4.31	4.29	4.24	4.28	4.53	5.22	5.33	4.44	4.56	
24	4.37	4.29	4.31	4.33	4.39	4.22	4.25	4.52	5.12	5.28	4.43	4.56	
25	4.35	4.32	4.31	4.36	4.35	4.22	4.26	4.50	5.01	5.40	4.41	4.55	
26	4.36	4.31	4.33	4.33	4.34	4.21	4.32	4.50	4.95	5.23	4.40	4.55	
27	4.36	4.30	4.32	4.33	4.33	4.20	4.33	4.47	4.91	5.15	4.42	4.54	
28	4.35	4.34	4.33	4.33	4.32	4.21	4.30	4.48	4.86	5.07	4.42	4.57	
29	4.35	4.33	4.33	4.32	4.30	4.22	4.34	4.44	4.85	5.03		4.63	
30	4.34	4.29	4.33	4.33	4.31	4.20	4.31	4.40	5.03	5.00		4.72	
31		4.30		4.33	4.34		4.31		5.17	4.90		4.68	
Mean	4.37	4.32	4.32	4.31	4.31	4.23	4.23	4.57	5.1	5.32	4.56	4.40	
Max	4.39	4.35	4.34	4.36	4.39	4.34	4.34	4.68	7.05	6.48	4.84	4.72	7.05
Min	4.34	4.28	4.29	4.27	4.26	4.12	4.16	4.40	4.64	4.77	4.40	4.24	4.12

Annual Max Momentary Gage Height 7.58 m. (MSL.) , at 20.00 Hours , on Jan 1 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.75 m. (MSL.)

Left Bank Elevation 8.93 m. (MSL.) ,

Right Bank Elevation 9.16 m. (MSL.) , Drainage Are 116 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.60	3.52	22.44	2.68	0.20		
2	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.90	34.90	17.45	2.40	0.16		
3	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.95	14.00	12.39	2.16	0.08		
4	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.26	9.04	8.05	1.92	0.00		
5	0.16	0.00	0.00	0.00	0.00	0.00	0.00	1.56	6.60	6.10	1.86	0.00		
6	0.16	0.00	0.00	0.00	0.00	0.00	0.00	1.50	6.80	4.96	1.68	0.00		
7	0.16	0.00	0.00	0.00	0.08	0.00	0.00	1.44	4.60	8.05	1.50	0.00		
8	0.16	0.00	0.00	0.00	0.04	0.00	0.00	1.15	3.59	10.25	1.38	0.00		
9	0.16	0.00	0.00	0.04	0.00	0.00	0.00	1.00	3.10	7.00	1.26	0.00		
10	0.16	0.00	0.00	0.00	0.00	0.00	0.00	1.05	2.61	5.50	1.15	0.00		
11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.15	2.54	4.52	1.15	0.00		
12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.44	2.28	3.88	1.00	0.00		
13	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.98	3.31	0.85	0.00		
14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.56	1.74	2.89	0.85	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.56	2.61	0.85	0.00		
16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.44	2.47	0.80	0.00		
17	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.32	1.44	2.28	0.70	0.00		
18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.15	2.22	2.22	0.65	0.00		
19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.10	2.10	6.00	0.75	0.00		
20	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.05	5.14	16.25	0.60	0.00		
21	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.05	13.44	22.26	0.55	0.65		
22	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.90	8.05	9.92	0.45	1.05		
23	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.85	5.70	6.80	0.40	1.00		
24	0.08	0.00	0.00	0.00	0.16	0.00	0.00	0.80	4.78	6.30	0.35	1.00		
25	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.70	3.88	7.50	0.25	0.95		
26	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.70	3.45	5.80	0.20	0.95		
27	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.55	3.17	5.05	0.30	0.90		
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	2.82	4.36	0.30	1.05		
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	2.75	4.04		1.38		
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.04	3.80		1.92		
31		0.00		0.00	0.00		0.00		5.23	3.10		1.68		
Total	2.72	0.00	0.00	0.08	0.28	0.00	0.00	31.79	168.51	227.55	28.99	12.97	472.89	CMSDAY
Mean	0.09	0.00	0.00	0.00	0.01	0.00	0.00	1.06	5.44	7.34	1.04	0.42	1.30	CMS
Max	0.16	0.00	0.00	0.04	0.16	0.00	0.00	1.68	34.90	22.44	2.68	1.92	34.90	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.44	2.22	0.20	0.00	0.00	CMS
Runoff	0.24	0.00	0.00	0.01	0.02	0.00	0.00	2.75	14.56	19.66	2.50	1.12	40.86	MCM

Momentary Peak 51.24 CMS. at 7.58 m. (MSL.) at 20.00 Hours , on Jan 1 , 2017

Runoff Yield 11.18 Liters/Second/Square KM. Momentary Peak Yield 442.070 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

Location : on left bank at Ban Lo Han.

Ban Lo Han **Amphoe** Pa Bon **Changwat** Phatthalung

Drainge Area	38 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (A.D.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the top staff gage. **Elevation** +7.165 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2007 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Flot	-
Rated by Current Meter	2007 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2016.

Gage Height in Meter (A.D.) Water Year April 1, 2016 to March 31, 2017

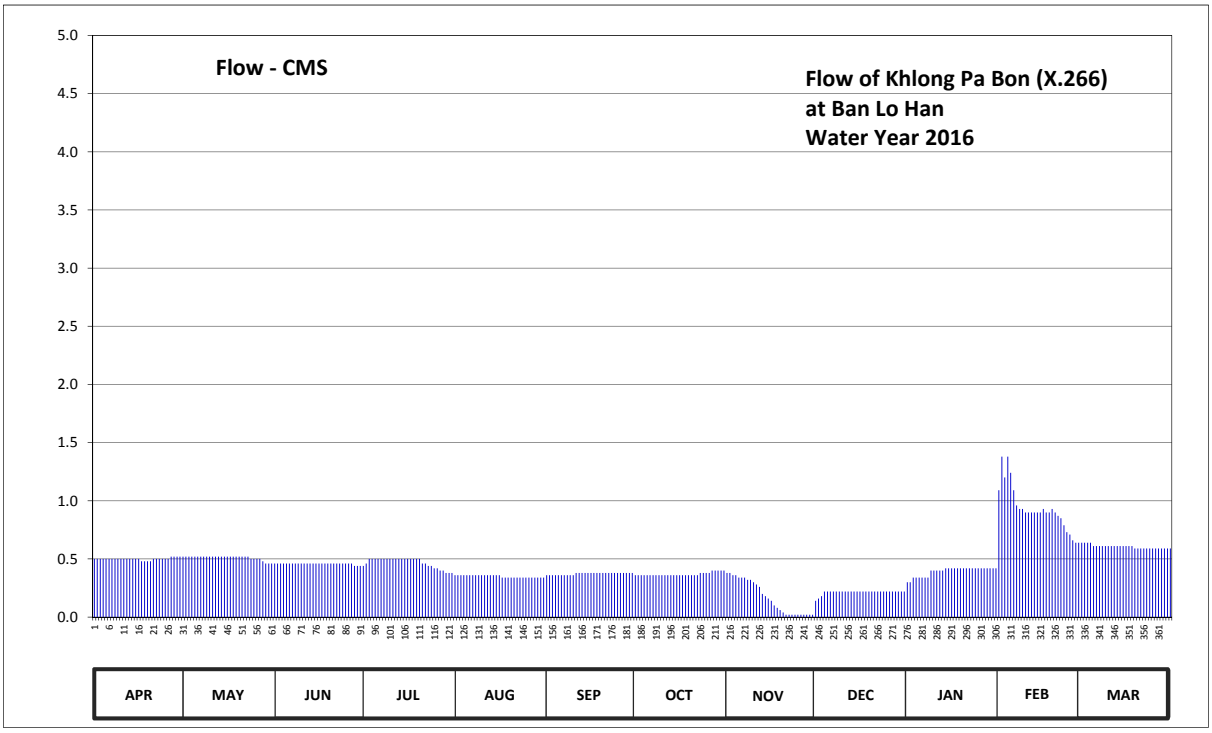
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.21	0.18	0.17	0.13	0.13	0.13	0.14	0.02	0.10	0.42	0.26	
2	0.20	0.21	0.18	0.18	0.13	0.13	0.13	0.14	0.03	0.10	0.50	0.26	
3	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.13	0.04	0.12	0.45	0.26	
4	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.13	0.06	0.12	0.50	0.26	
5	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.12	0.06	0.12	0.46	0.25	
6	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.12	0.06	0.12	0.42	0.25	
7	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.12	0.06	0.12	0.38	0.25	
8	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.11	0.06	0.12	0.37	0.25	
9	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.11	0.06	0.15	0.37	0.25	
10	0.20	0.21	0.18	0.20	0.13	0.13	0.13	0.10	0.06	0.15	0.36	0.25	
11	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.09	0.06	0.15	0.36	0.25	
12	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.08	0.06	0.15	0.36	0.25	
13	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.05	0.06	0.15	0.36	0.25	
14	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.04	0.06	0.16	0.36	0.25	
15	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.03	0.06	0.16	0.36	0.25	
16	0.20	0.21	0.18	0.20	0.13	0.14	0.13	0.02	0.06	0.16	0.37	0.25	
17	0.19	0.21	0.18	0.20	0.12	0.14	0.13	0.00	0.06	0.16	0.36	0.25	
18	0.19	0.21	0.18	0.20	0.12	0.14	0.13	-0.01	0.06	0.16	0.36	0.25	
19	0.19	0.21	0.18	0.20	0.12	0.14	0.13	-0.02	0.06	0.16	0.37	0.24	
20	0.19	0.21	0.18	0.20	0.12	0.14	0.13	-0.03	0.06	0.16	0.36	0.24	
21	0.20	0.21	0.18	0.18	0.12	0.14	0.13	-0.04	0.06	0.16	0.35	0.24	
22	0.20	0.21	0.18	0.18	0.12	0.14	0.13	-0.04	0.06	0.16	0.34	0.24	
23	0.20	0.21	0.18	0.17	0.12	0.14	0.14	-0.04	0.06	0.16	0.32	0.24	
24	0.20	0.20	0.18	0.17	0.12	0.14	0.14	-0.04	0.06	0.16	0.30	0.24	
25	0.20	0.20	0.18	0.16	0.12	0.14	0.14	-0.04	0.06	0.16	0.29	0.24	
26	0.20	0.20	0.18	0.16	0.12	0.14	0.14	-0.04	0.06	0.16	0.27	0.24	
27	0.21	0.20	0.18	0.15	0.12	0.14	0.15	-0.04	0.06	0.16	0.26	0.24	
28	0.21	0.19	0.17	0.15	0.12	0.14	0.15	-0.04	0.06	0.16	0.26	0.24	
29	0.21	0.18	0.17	0.14	0.12	0.14	0.15	-0.04	0.06	0.16		0.24	
30	0.21	0.18	0.17	0.14	0.12	0.14	0.15	-0.04	0.06	0.16		0.24	
31		0.18		0.14	0.12		0.15		0.06	0.16		0.24	
Mean	0.20	0.21	0.18	0.18	0.13	0.14	0.13	0.06	0.06	0.15	0.37	0.25	
Max	0.21	0.21	0.18	0.20	0.13	0.14	0.15	0.14	0.06	0.16	0.50	0.26	0.50
Min	0.19	0.18	0.17	0.14	0.12	0.13	0.13	-0.04	0.02	0.10	0.26	0.24	-0.04

Annual Max Momentary Gage Height 0.52 m. (A.D.) , at 12.00 Hours , on Feb. 1 , 2017

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

Left Bank Elevation 6.07 m. (A.D.) ,

Right Bank Elevation 5.97 m. (A.D.) , Drainage Are 38 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	0.52	0.46	0.44	0.36	0.36	0.36	0.38	0.14	0.30	1.09	0.64		
2	0.50	0.52	0.46	0.46	0.36	0.36	0.36	0.38	0.16	0.30	1.38	0.64		
3	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.36	0.18	0.34	1.20	0.64		
4	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.36	0.22	0.34	1.38	0.64		
5	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.34	0.22	0.34	1.24	0.61		
6	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.34	0.22	0.34	1.09	0.61		
7	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.34	0.22	0.34	0.96	0.61		
8	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.32	0.22	0.34	0.93	0.61		
9	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.32	0.22	0.40	0.93	0.61		
10	0.50	0.52	0.46	0.50	0.36	0.36	0.36	0.30	0.22	0.40	0.90	0.61		
11	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.28	0.22	0.40	0.90	0.61		
12	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.26	0.22	0.40	0.90	0.61		
13	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.20	0.22	0.40	0.90	0.61		
14	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.18	0.22	0.42	0.90	0.61		
15	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.16	0.22	0.42	0.90	0.61		
16	0.50	0.52	0.46	0.50	0.36	0.38	0.36	0.14	0.22	0.42	0.93	0.61		
17	0.48	0.52	0.46	0.50	0.34	0.38	0.36	0.10	0.22	0.42	0.90	0.61		
18	0.48	0.52	0.46	0.50	0.34	0.38	0.36	0.08	0.22	0.42	0.90	0.61		
19	0.48	0.52	0.46	0.50	0.34	0.38	0.36	0.06	0.22	0.42	0.93	0.59		
20	0.48	0.52	0.46	0.50	0.34	0.38	0.36	0.04	0.22	0.42	0.90	0.59		
21	0.50	0.52	0.46	0.46	0.34	0.38	0.36	0.02	0.22	0.42	0.87	0.59		
22	0.50	0.52	0.46	0.46	0.34	0.38	0.36	0.02	0.22	0.42	0.85	0.59		
23	0.50	0.52	0.46	0.44	0.34	0.38	0.38	0.02	0.22	0.42	0.79	0.59		
24	0.50	0.50	0.46	0.44	0.34	0.38	0.38	0.02	0.22	0.42	0.73	0.59		
25	0.50	0.50	0.46	0.42	0.34	0.38	0.38	0.02	0.22	0.42	0.71	0.59		
26	0.50	0.50	0.46	0.42	0.34	0.38	0.38	0.02	0.22	0.42	0.66	0.59		
27	0.52	0.50	0.46	0.40	0.34	0.38	0.40	0.02	0.22	0.42	0.64	0.59		
28	0.52	0.48	0.44	0.40	0.34	0.38	0.40	0.02	0.22	0.42	0.64	0.59		
29	0.52	0.46	0.44	0.38	0.34	0.38	0.40	0.02	0.22	0.42		0.59		
30	0.52	0.46	0.44	0.38	0.34	0.38	0.40	0.02	0.22	0.42		0.59		
31		0.46		0.38	0.34		0.40		0.22	0.42		0.59		
Total	15.00	15.82	13.74	14.48	10.86	11.20	11.44	5.14	6.64	12.20	26.05	18.77	161.34	CMSDAY
Mean	0.50	0.51	0.46	0.47	0.35	0.37	0.37	0.17	0.21	0.39	0.93	0.61	0.44	CMS
Max	0.52	0.52	0.46	0.50	0.36	0.38	0.40	0.38	0.22	0.42	1.38	0.64	1.38	CMS
Min	0.48	0.46	0.44	0.38	0.34	0.36	0.36	0.02	0.14	0.30	0.64	0.59	0.02	CMS
Runoff	1.30	1.37	1.19	1.25	0.94	0.97	0.99	0.44	0.57	1.05	2.25	1.62	13.94	MCM

Momentary Peak 1.47 CMS. at 0.52 m. (A.D.) at 12.00 Hours , on Feb. 1 , 2017

Runoff Yield 11.63 Liters/Second/Square KM. Momentary Peak Yield 38.680 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban Mae Khree	**Amphoe** Tamot	**Changwat** Phatthalung
Drainge Area	295 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+27.878 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 26.490 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

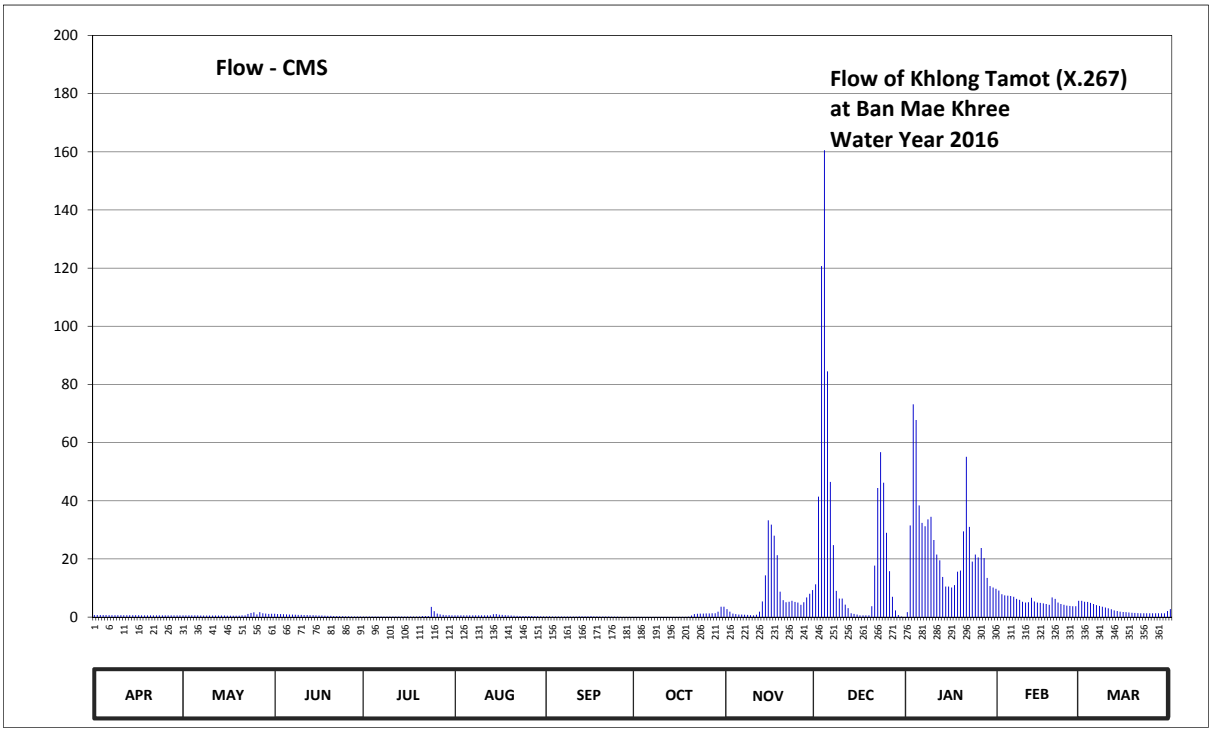
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.64	21.60	21.76	21.40	21.60	21.44	21.30	22.02	22.75	21.87	22.61	22.33	
2	21.64	21.60	21.74	21.41	21.60	21.43	21.30	21.89	24.03	23.70	22.52	22.30	
3	21.64	21.59	21.73	21.42	21.60	21.42	21.30	21.78	25.77	24.87	22.49	22.29	
4	21.63	21.59	21.72	21.42	21.60	21.41	21.30	21.73	26.40	24.75	22.48	22.26	
5	21.63	21.59	21.71	21.42	21.60	21.40	21.30	21.70	25.11	23.93	22.47	22.22	
6	21.62	21.59	21.70	21.42	21.60	21.40	21.30	21.69	24.20	23.73	22.45	22.18	
7	21.62	21.58	21.69	21.42	21.60	21.40	21.30	21.67	23.43	23.69	22.39	22.15	
8	21.62	21.58	21.68	21.42	21.60	21.40	21.30	21.65	22.60	23.77	22.36	22.12	
9	21.62	21.58	21.66	21.42	21.60	21.40	21.30	21.62	22.40	23.80	22.30	22.09	
10	21.62	21.57	21.65	21.42	21.60	21.40	21.30	21.60	22.40	23.50	22.27	22.05	
11	21.62	21.57	21.64	21.42	21.60	21.42	21.30	21.67	22.20	23.30	22.28	22.01	
12	21.62	21.57	21.63	21.42	21.60	21.43	21.30	21.89	22.06	23.20	22.42	21.96	
13	21.62	21.57	21.62	21.42	21.60	21.44	21.30	22.31	21.80	22.90	22.31	21.93	
14	21.61	21.57	21.61	21.42	21.72	21.44	21.30	22.93	21.75	22.70	22.27	21.89	
15	21.61	21.57	21.59	21.42	21.74	21.44	21.30	23.76	21.70	22.70	22.26	21.88	
16	21.61	21.55	21.57	21.42	21.68	21.45	21.30	23.71	21.60	22.68	22.24	21.87	
17	21.60	21.55	21.56	21.42	21.65	21.44	21.30	23.56	21.60	22.73	22.22	21.85	
18	21.60	21.55	21.55	21.42	21.62	21.43	21.30	23.29	21.60	23.00	22.19	21.83	
19	21.60	21.55	21.53	21.42	21.60	21.42	21.36	22.58	21.60	23.02	22.43	21.82	
20	21.59	21.55	21.51	21.42	21.57	21.41	21.56	22.35	22.14	23.62	22.39	21.81	
21	21.59	21.60	21.49	21.50	21.55	21.40	21.73	22.28	23.11	24.44	22.27	21.80	
22	21.59	21.60	21.48	21.50	21.52	21.39	21.76	22.30	24.13	23.68	22.22	21.80	
23	21.59	21.75	21.46	21.50	21.50	21.38	21.77	22.33	24.48	23.18	22.19	21.80	
24	21.59	21.82	21.45	22.11	21.50	21.37	21.78	22.29	24.19	23.30	22.16	21.80	
25	21.60	21.86	21.43	21.92	21.50	21.35	21.79	22.27	23.60	23.25	22.15	21.80	
26	21.60	21.71	21.43	21.78	21.50	21.33	21.79	22.19	23.01	23.39	22.14	21.80	
27	21.60	21.87	21.42	21.71	21.48	21.31	21.80	22.28	22.45	23.24	22.14	21.80	
28	21.60	21.80	21.42	21.65	21.46	21.30	21.80	22.43	21.96	22.88	22.33	21.80	
29	21.60	21.77	21.42	21.62	21.46	21.30	21.89	22.53	21.63	22.71		21.80	
30	21.60	21.75	21.42	21.61	21.44	21.30	22.12	22.62	21.40	22.68		21.93	
31		21.76		21.60	21.44		22.12		21.23	22.65		22.02	
Mean	21.61	21.64	21.58	21.51	21.57	21.39	21.51	22.30	22.85	23.32	22.32	21.97	
Max	21.64	21.87	21.76	22.11	21.74	21.45	22.12	23.76	26.40	24.87	22.61	22.33	26.40
Min	21.59	21.55	21.42	21.40	21.44	21.30	21.30	21.60	21.23	21.87	22.14	21.80	21.23

Annual Max Momentary Gage Height 26.57 m. (MSL.) , at 10.00 Hours , on Dec 4 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 20.55 m. (MSL.)

Left Bank Elevation 26.83 m. (MSL.) ,

Right Bank Elevation 26.48 m. (MSL.) , Drainage Are 295 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.60	1.14	0.20	0.60	0.28	0.10	2.76	11.30	1.72	9.15	5.63	
2	0.72	0.60	1.06	0.22	0.60	0.26	0.10	1.84	41.40	31.50	7.88	5.30	
3	0.72	0.58	1.02	0.24	0.60	0.24	0.10	1.22	120.70	73.15	7.48	5.20	
4	0.69	0.58	0.98	0.24	0.60	0.22	0.10	1.02	160.50	67.75	7.36	4.90	
5	0.69	0.58	0.94	0.24	0.60	0.20	0.10	0.90	84.50	38.40	7.24	4.50	
6	0.66	0.58	0.90	0.24	0.60	0.20	0.10	0.87	46.50	32.40	7.00	4.12	
7	0.66	0.56	0.87	0.24	0.60	0.20	0.10	0.81	24.75	31.25	6.29	3.85	
8	0.66	0.56	0.84	0.24	0.60	0.20	0.10	0.75	9.00	33.60	5.96	3.58	
9	0.66	0.56	0.78	0.24	0.60	0.20	0.10	0.66	6.40	34.50	5.30	3.32	
10	0.66	0.54	0.75	0.24	0.60	0.20	0.10	0.60	6.40	26.50	5.00	3.00	
11	0.66	0.54	0.72	0.24	0.60	0.24	0.10	0.81	4.30	21.50	5.10	2.68	
12	0.66	0.54	0.69	0.24	0.60	0.26	0.10	1.84	3.08	19.50	6.64	2.32	
13	0.66	0.54	0.66	0.24	0.60	0.28	0.10	5.41	1.30	13.80	5.41	2.11	
14	0.63	0.54	0.63	0.24	0.98	0.28	0.10	14.34	1.10	10.50	5.00	1.84	
15	0.63	0.54	0.58	0.24	1.06	0.28	0.10	33.30	0.90	10.50	4.90	1.78	
16	0.63	0.50	0.54	0.24	0.84	0.30	0.10	31.80	0.60	10.20	4.70	1.72	
17	0.60	0.50	0.52	0.24	0.75	0.28	0.10	28.00	0.60	10.98	4.50	1.60	
18	0.60	0.50	0.50	0.24	0.66	0.26	0.10	21.30	0.60	15.60	4.21	1.48	
19	0.60	0.50	0.46	0.24	0.60	0.24	0.16	8.72	0.60	15.98	6.76	1.42	
20	0.58	0.50	0.42	0.24	0.54	0.22	0.52	5.85	3.76	29.50	6.29	1.36	
21	0.58	0.60	0.38	0.40	0.50	0.20	1.02	5.10	17.70	55.10	5.00	1.30	
22	0.58	0.60	0.36	0.40	0.44	0.19	1.14	5.30	44.40	31.00	4.50	1.30	
23	0.58	1.10	0.32	0.40	0.40	0.18	1.18	5.63	56.70	19.10	4.21	1.30	
24	0.58	1.42	0.30	3.49	0.40	0.17	1.22	5.20	46.20	21.50	3.94	1.30	
25	0.60	1.66	0.26	2.04	0.40	0.15	1.26	5.00	29.00	20.50	3.85	1.30	
26	0.60	0.94	0.26	1.22	0.40	0.13	1.26	4.21	15.79	23.75	3.76	1.30	
27	0.60	1.72	0.24	0.94	0.36	0.11	1.30	5.10	7.00	20.30	3.76	1.30	
28	0.60	1.30	0.24	0.75	0.32	0.10	1.30	6.76	2.32	13.46	5.63	1.30	
29	0.60	1.18	0.24	0.66	0.32	0.10	1.84	8.02	0.69	10.66		1.30	
30	0.60	1.10	0.24	0.63	0.28	0.10	3.58	9.30	0.20	10.20		2.11	
31		1.14		0.60	0.28		3.58		0.03	9.75		2.76	
Total	19.01	23.70	17.84	16.27	17.33	6.27	21.16	222.42	748.32	764.15	156.82	78.28	2091.57	CMSDAY
Mean	0.63	0.76	0.59	0.52	0.56	0.21	0.68	7.41	24.14	24.65	5.60	2.53	5.73	CMS
Max	0.72	1.72	1.14	3.49	1.06	0.30	3.58	33.30	160.50	73.15	9.15	5.63	160.50	CMS
Min	0.58	0.50	0.24	0.20	0.28	0.10	0.10	0.60	0.03	1.72	3.76	1.30	0.03	CMS
Runoff	1.64	2.05	1.54	1.41	1.50	0.54	1.83	19.22	64.65	66.02	13.55	6.76	180.71	MCM

Momentary Peak 172.40 CMS. at 26.57 m. (MSL.) at 10.00 Hours , on Dec 4 , 2016

Runoff Yield 19.42 Liters/Second/Square KM. Momentary Peak Yield 584.410 Liters/Second/Square KM.

WATER YEAR : 2016

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

Ban Khao Pu **Amphoe** Si Banphot **Changwat** Phatthalung

Drainge Area	47 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +55.054 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2009 to date
Rating Operation	
Period of Rating	2009 to date
Rated by Flot	-
Rated by Current Meter	2009 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

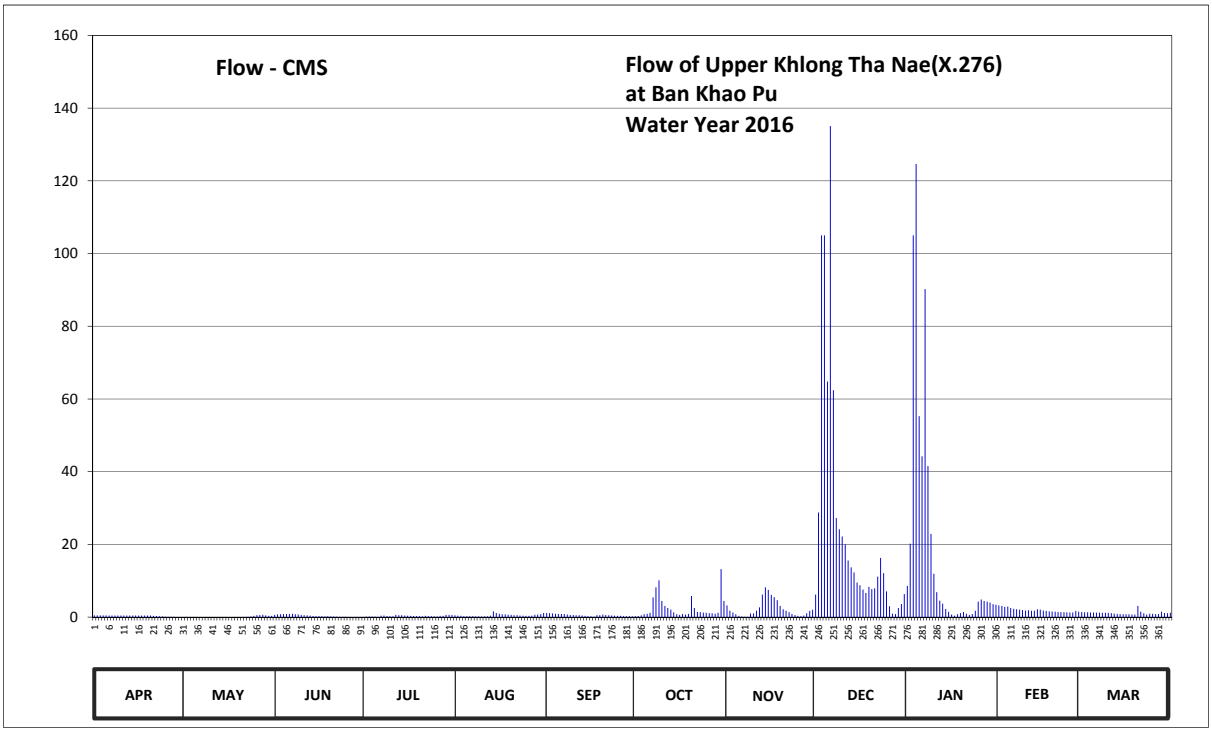
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.36	50.15	50.40	50.16	50.36	50.56	50.28	50.89	51.22	51.42	50.89	50.62	
2	50.36	50.12	50.45	50.21	50.33	50.55	50.30	50.69	52.45	52.10	50.87	50.60	
3	50.36	50.09	50.46	50.24	50.32	50.53	50.36	50.59	53.91	54.20	50.84	50.60	
4	50.36	50.09	50.48	50.24	50.29	50.51	50.46	50.47	54.16	54.61	50.85	50.59	
5	50.36	50.08	50.48	50.22	50.28	50.49	50.50	50.32	53.52	53.28	50.80	50.59	
6	50.35	50.08	50.49	50.20	50.27	50.49	50.57	50.24	54.77	52.96	50.77	50.58	
7	50.35	50.08	50.50	50.33	50.27	50.48	51.14	50.19	53.46	53.78	50.75	50.58	
8	50.35	50.08	50.47	50.34	50.26	50.44	51.39	50.18	52.39	52.88	50.74	50.57	
9	50.35	50.08	50.45	50.30	50.25	50.41	51.52	50.52	52.27	52.22	50.72	50.57	
10	50.35	50.08	50.39	50.27	50.24	50.39	51.04	50.53	52.19	51.64	50.70	50.57	
11	50.35	50.08	50.37	50.25	50.25	50.38	50.87	50.69	52.09	51.28	50.71	50.55	
12	50.35	50.08	50.36	50.40	50.26	50.37	50.80	50.82	51.86	51.05	50.69	50.52	
13	50.35	50.08	50.33	50.38	50.33	50.35	50.74	51.22	51.75	50.95	50.69	50.49	
14	50.35	50.07	50.30	50.38	50.66	50.32	50.60	51.39	51.66	50.76	50.75	50.48	
15	50.34	50.07	50.29	50.35	50.56	50.27	50.47	51.33	51.48	50.63	50.74	50.47	
16	50.34	50.07	50.28	50.33	50.50	50.25	50.40	51.21	51.43	50.44	50.70	50.47	
17	50.34	50.06	50.27	50.32	50.47	50.22	50.48	51.15	51.34	50.33	50.68	50.46	
18	50.34	50.06	50.25	50.30	50.45	50.37	50.43	51.06	51.26	50.46	50.66	50.44	
19	50.34	50.06	50.27	50.30	50.42	50.37	50.49	50.87	51.40	50.55	50.65	50.43	
20	50.34	50.11	50.26	50.27	50.40	50.43	51.18	50.75	51.35	50.62	50.64	50.87	
21	50.32	50.14	50.24	50.26	50.38	50.39	50.80	50.69	51.37	50.50	50.62	50.64	
22	50.30	50.15	50.22	50.31	50.37	50.37	50.62	50.61	51.59	50.40	50.61	50.54	
23	50.27	50.19	50.20	50.28	50.35	50.35	50.61	50.49	51.90	50.48	50.61	50.44	
24	50.25	50.24	50.19	50.27	50.33	50.33	50.58	50.39	51.65	50.69	50.60	50.51	
25	50.22	50.31	50.17	50.25	50.32	50.32	50.57	50.32	51.30	51.02	50.59	50.50	
26	50.20	50.37	50.16	50.23	50.32	50.31	50.55	50.28	50.86	51.08	50.59	50.48	
27	50.19	50.39	50.15	50.31	50.33	50.29	50.54	50.35	50.52	51.04	50.68	50.48	
28	50.17	50.42	50.15	50.32	50.42	50.27	50.50	50.54	50.48	51.02	50.64	50.64	
29	50.15	50.36	50.15	50.41	50.44	50.27	50.57	50.68	50.80	50.99		50.56	
30	50.15	50.32	50.14	50.40	50.48	50.26	51.72	50.73	50.94	50.93		50.54	
31		50.31		50.39	50.56		51.04		51.23	50.91		50.57	
Mean	50.31	50.16	50.31	50.30	50.37	50.38	50.71	50.67	51.89	51.46	50.71	50.55	
Max	50.36	50.42	50.50	50.41	50.66	50.56	51.72	51.39	54.77	54.61	50.89	50.87	54.77
Min	50.15	50.06	50.14	50.16	50.24	50.22	50.28	50.18	50.48	50.33	50.59	50.43	50.06

Annual Max Momentary Gage Height 54.99 m. (MSL.) , at 23.00 Hours , on Jan 3 , 2017

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 49.68 m. (MSL.)

Left Bank Elevation 55.75 m. (MSL.) ,

Right Bank Elevation 55.94 m. (MSL.) , Drainage Are 47 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.05	0.60	0.06	0.48	1.14	0.26	3.22	6.22	8.60	3.22	1.40	
2	0.48	0.02	0.75	0.12	0.39	1.10	0.30	1.75	28.80	20.20	3.06	1.30	
3	0.48	0.00	0.78	0.18	0.36	1.02	0.48	1.26	105.00	105.00	2.82	1.30	
4	0.48	0.00	0.84	0.18	0.28	0.94	0.78	0.81	105.00	124.65	2.90	1.26	
5	0.48	0.00	0.84	0.14	0.26	0.87	0.90	0.36	64.80	55.28	2.50	1.26	
6	0.45	0.00	0.87	0.10	0.24	0.87	1.18	0.18	135.05	44.24	2.29	1.22	
7	0.45	0.00	0.90	0.39	0.24	0.84	5.40	0.09	62.40	90.20	2.15	1.22	
8	0.45	0.00	0.81	0.42	0.22	0.72	8.18	0.08	27.24	41.54	2.08	1.18	
9	0.45	0.00	0.75	0.30	0.20	0.63	10.10	0.98	24.15	22.90	1.94	1.18	
10	0.45	0.00	0.57	0.24	0.18	0.57	4.46	1.02	22.18	11.94	1.80	1.18	
11	0.45	0.00	0.51	0.20	0.20	0.54	3.06	1.75	20.00	6.88	1.87	1.10	
12	0.45	0.00	0.48	0.60	0.22	0.51	2.50	2.66	15.58	4.55	1.75	0.98	
13	0.45	0.00	0.39	0.54	0.39	0.45	2.08	6.22	13.70	3.70	1.75	0.87	
14	0.45	0.00	0.30	0.54	1.60	0.36	1.30	8.18	12.26	2.22	2.15	0.84	
15	0.42	0.00	0.28	0.45	1.14	0.24	0.81	7.46	9.50	1.45	2.08	0.81	
16	0.42	0.00	0.26	0.39	0.90	0.20	0.60	6.11	8.75	0.72	1.80	0.81	
17	0.42	0.00	0.24	0.36	0.81	0.14	0.84	5.50	7.58	0.39	1.70	0.78	
18	0.42	0.00	0.20	0.30	0.75	0.51	0.69	4.64	6.66	0.78	1.60	0.72	
19	0.42	0.00	0.24	0.30	0.66	0.51	0.87	3.06	8.30	1.10	1.55	0.69	
20	0.42	0.01	0.22	0.24	0.60	0.69	5.80	2.15	7.70	1.40	1.50	3.06	
21	0.36	0.04	0.18	0.22	0.54	0.57	2.50	1.75	7.94	0.90	1.40	1.50	
22	0.30	0.05	0.14	0.33	0.51	0.51	1.40	1.35	11.15	0.60	1.35	1.06	
23	0.24	0.09	0.10	0.26	0.45	0.45	1.35	0.87	16.30	0.84	1.35	0.72	
24	0.20	0.18	0.09	0.24	0.39	0.39	1.22	0.57	12.10	1.75	1.30	0.94	
25	0.14	0.33	0.07	0.20	0.36	0.36	1.18	0.36	7.10	4.28	1.26	0.90	
26	0.10	0.51	0.06	0.16	0.36	0.33	1.10	0.26	2.98	4.82	1.26	0.84	
27	0.09	0.57	0.05	0.33	0.39	0.28	1.06	0.45	0.98	4.46	1.70	0.84	
28	0.07	0.66	0.05	0.36	0.66	0.24	0.90	1.06	0.84	4.28	1.50	1.50	
29	0.05	0.48	0.05	0.63	0.72	0.24	1.18	1.70	2.50	4.02		1.14	
30	0.05	0.36	0.04	0.60	0.84	0.22	13.22	2.01	3.62	3.54		1.06	
31		0.33		0.57	1.14		4.46		6.33	3.38		1.18	
Total	10.57	3.68	11.66	9.95	16.48	16.44	80.16	67.86	762.71	580.61	53.63	34.84	1648.59 CMSDAY
Mean	0.35	0.12	0.39	0.32	0.53	0.55	2.59	2.26	24.60	18.73	1.92	1.12	4.52 CMS
Max	0.48	0.66	0.90	0.63	1.60	1.14	13.22	8.18	135.05	124.65	3.22	3.06	135.05 CMS
Min	0.05	0.00	0.04	0.06	0.18	0.14	0.26	0.08	0.84	0.39	1.26	0.69	0.00 CMS
Runoff	0.91	0.32	1.01	0.86	1.42	1.42	6.93	5.86	65.90	50.16	4.63	3.01	142.44 MCM

Momentary Peak 150.30 CMS. at 54.99 m. (MSL.) at 23.00 Hours , on Jan 3 , 2017

Runoff Yield 96.10 Liters/Second/Square KM. Momentary Peak Yield 3197.870 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Trang River at Ban Tha Pradu , Trang (X.56)

Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban Tha Pradu	**Amphoe** Huai Yot	**Changwat** Trang
Drainge Area	1,801 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+19.353 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

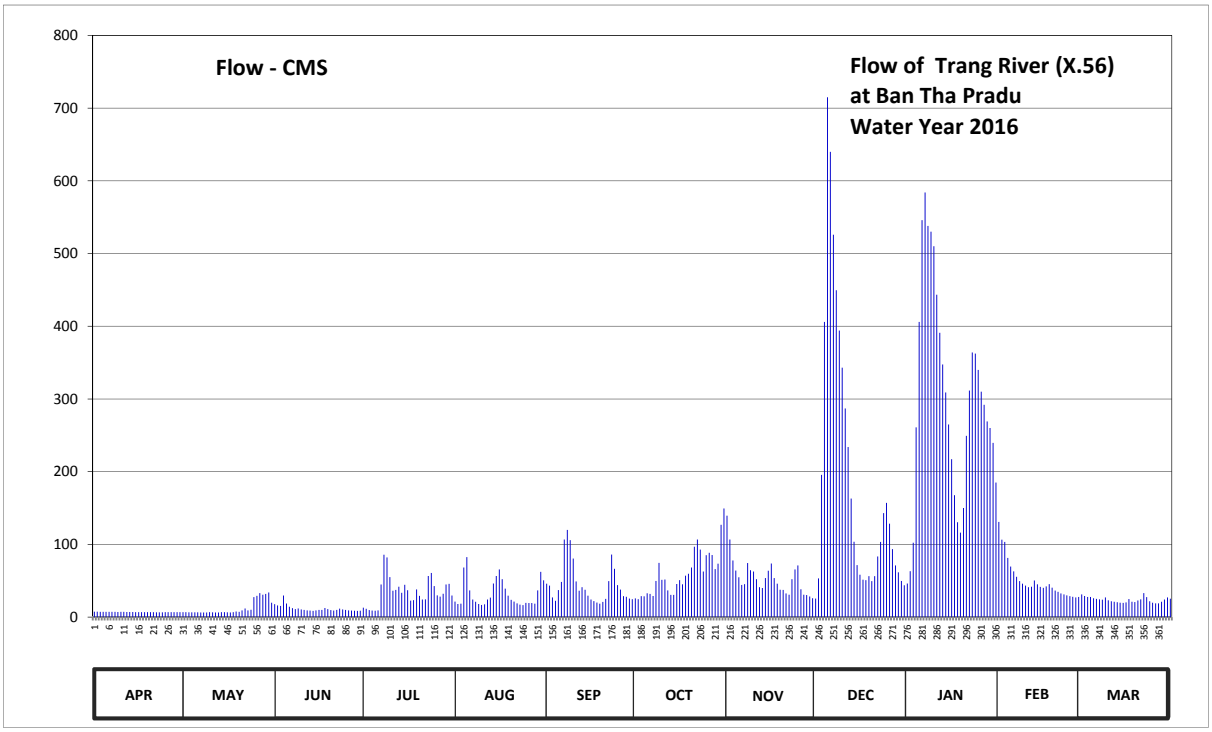
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.95	6.87	7.72	7.40	7.92	9.15	8.14	11.91	8.13	9.16	11.74	8.41	
2	6.94	6.87	7.60	7.30	7.74	9.02	8.08	11.19	9.41	9.74	11.18	8.30	
3	6.93	6.86	7.56	7.17	7.77	8.20	8.29	10.23	12.92	11.04	11.08	8.24	
4	6.93	6.85	8.33	7.11	9.91	7.97	8.28	9.77	14.84	13.71	10.35	8.24	
5	6.93	6.85	7.78	7.08	10.38	8.71	8.49	9.46	16.38	14.84	9.95	8.15	
6	6.92	6.85	7.49	7.13	8.69	9.25	8.44	9.06	16.08	15.63	9.73	8.10	
7	6.92	6.84	7.35	9.09	8.06	11.19	8.30	9.12	15.53	15.82	9.48	8.07	
8	6.92	6.83	7.26	10.49	7.90	11.52	9.29	10.11	15.13	15.59	9.28	8.05	
9	6.91	6.83	7.33	10.37	7.74	11.16	10.12	9.78	14.76	15.55	9.15	8.20	
10	6.92	6.87	7.24	9.47	7.65	10.32	9.34	9.72	14.42	15.45	9.02	8.00	
11	6.92	6.85	7.18	8.66	7.70	9.27	9.36	9.37	13.97	15.09	8.91	7.94	
12	6.91	6.83	7.13	8.72	8.06	8.66	8.69	8.91	13.40	14.74	8.94	7.91	
13	6.90	6.83	7.09	8.94	8.19	8.91	8.38	8.85	12.38	14.45	9.31	7.87	
14	6.90	6.87	7.06	8.52	9.16	8.73	8.38	9.42	11.09	14.19	9.11	7.84	
15	6.89	6.88	7.13	9.07	9.52	8.32	9.13	9.76	10.02	13.75	8.93	7.83	
16	6.89	6.86	7.19	8.70	9.82	8.06	9.33	10.09	9.58	13.19	8.86	7.86	
17	6.88	6.84	7.18	7.98	9.37	7.95	9.10	9.42	9.35	12.46	8.96	8.09	
18	6.88	6.87	7.37	8.01	8.81	7.85	9.53	9.15	9.33	11.73	9.12	7.91	
19	6.88	6.97	7.26	8.75	8.32	7.77	9.62	8.73	9.51	11.43	8.87	7.88	
20	6.87	6.92	7.17	8.31	8.04	7.89	9.91	8.72	9.28	12.12	8.68	7.99	
21	6.87	7.13	7.11	8.06	7.92	8.10	10.86	8.48	9.51	13.59	8.59	8.07	
22	6.86	7.33	7.18	8.07	7.79	9.28	11.19	8.39	10.41	14.21	8.48	8.50	
23	6.85	7.12	7.31	9.52	7.67	10.50	10.73	9.37	11.08	14.56	8.41	8.23	
24	6.85	7.20	7.23	9.66	7.63	9.85	9.72	9.82	11.98	14.55	8.35	7.94	
25	6.87	8.23	7.19	8.98	7.83	9.05	10.47	10.00	12.26	14.40	8.29	7.84	
26	6.89	8.31	7.12	8.35	7.82	8.74	10.58	8.76	11.69	14.20	8.25	7.80	
27	6.89	8.50	7.10	8.26	7.82	8.29	10.48	8.39	10.75	14.02	8.20	7.79	
28	6.89	8.39	7.07	8.46	7.76	8.25	9.83	8.37	10.00	13.79	8.24	7.90	
29	6.88	8.45	7.06	9.09	8.69	8.12	10.08	8.27	9.69	13.70		8.06	
30	6.88	8.54	7.08	9.14	9.71	8.08	11.66	8.15	9.29	13.47		8.20	
31		7.84		8.33	9.32		12.11		9.04	12.75		8.11	
Mean	6.90	7.23	7.30	8.52	8.41	8.94	9.55	9.36	11.65	13.64	9.20	8.04	
Max	6.95	8.54	8.33	10.49	10.38	11.52	12.11	11.91	16.38	15.82	11.74	8.50	16.38
Min	6.85	6.83	7.06	7.08	7.63	7.77	8.08	8.15	8.13	9.16	8.20	7.79	6.83

Annual Max Momentary Gage Height 16.60 m. (MSL.) , at 14.00 Hours , on Dec 5 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 5.72 m. (MSL.)

Left Bank Elevation 18.73 m. (MSL.) ,

Right Bank Elevation 18.72 m. (MSL.) , Drainage Are 1,801 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	6.70	17.80	13.00	21.40	46.00	25.80	139.50	25.60	46.20	131.00	31.20	
2	7.40	6.70	16.00	11.50	18.10	43.40	24.60	106.70	53.30	63.20	106.40	29.00	
3	7.30	6.60	15.40	9.70	18.55	27.00	28.80	77.90	195.60	102.20	103.40	27.80	
4	7.30	6.50	29.60	9.10	68.30	22.40	28.60	64.10	406.00	261.00	81.50	27.80	
5	7.30	6.50	18.70	8.80	82.40	37.20	32.80	54.80	715.00	406.00	69.50	26.00	
6	7.20	6.50	14.35	9.30	36.80	48.50	31.80	44.20	640.00	546.00	62.90	25.00	
7	7.20	6.40	12.25	44.80	24.20	106.70	29.00	45.40	526.00	584.00	55.40	24.40	
8	7.20	6.30	10.90	85.70	21.00	120.00	49.70	74.30	449.50	538.00	49.40	24.00	
9	7.10	6.30	11.95	82.10	18.10	105.80	74.60	64.40	394.00	530.00	46.00	27.00	
10	7.20	6.70	10.60	55.10	16.75	80.60	51.20	62.60	343.00	510.00	43.40	23.00	
11	7.20	6.50	9.80	36.20	17.50	49.10	51.80	52.10	287.00	443.50	41.20	21.80	
12	7.10	6.30	9.30	37.40	24.20	36.20	36.80	41.20	234.00	391.00	41.80	21.20	
13	7.00	6.30	8.90	41.80	26.80	41.20	30.60	40.00	163.00	347.50	50.30	20.40	
14	7.00	6.70	8.60	33.40	46.20	37.60	30.60	53.60	103.70	309.00	45.20	19.80	
15	6.90	6.80	9.30	44.40	56.60	29.40	45.60	63.80	71.60	265.00	41.60	19.60	
16	6.90	6.60	9.90	37.00	65.60	24.20	50.90	73.70	58.40	217.20	40.20	20.20	
17	6.80	6.40	9.80	22.60	52.10	22.00	45.00	53.60	51.50	167.60	42.20	24.80	
18	6.80	6.70	12.55	23.20	39.20	20.00	56.90	46.00	50.90	130.50	45.40	21.20	
19	6.80	7.70	10.90	38.00	29.40	18.55	59.60	37.60	56.30	116.20	40.40	20.60	
20	6.70	7.20	9.70	29.20	23.80	20.80	68.30	37.40	49.40	150.00	36.60	22.80	
21	6.70	9.30	9.10	24.20	21.40	25.00	96.80	32.60	56.30	249.20	34.80	24.40	
22	6.60	11.95	9.80	24.40	18.85	49.40	106.70	30.80	83.30	311.50	32.60	33.00	
23	6.50	9.20	11.65	56.60	17.05	86.00	92.90	52.10	103.40	364.00	31.20	27.60	
24	6.50	10.00	10.45	60.80	16.45	66.50	62.60	65.60	143.00	362.50	30.00	21.80	
25	6.70	27.60	9.90	42.60	19.60	44.00	85.10	71.00	157.00	340.00	28.80	19.80	
26	6.90	29.20	9.20	30.00	19.40	37.80	88.40	38.20	128.50	310.00	28.00	19.00	
27	6.90	33.00	9.00	28.20	19.40	28.80	85.40	30.80	93.50	292.00	27.00	18.85	
28	6.90	30.80	8.70	32.20	18.40	28.00	65.90	30.40	71.00	269.00	27.80	21.00	
29	6.80	32.00	8.60	44.80	36.80	25.40	73.40	28.40	61.70	260.00		24.20	
30	6.80	33.80	8.80	45.80	62.30	24.60	127.00	26.00	49.70	239.60		27.00	
31		19.80		29.60	50.60		149.50		43.80	185.00		25.20	
Total	209.20	379.05	351.50	1091.50	1007.25	1352.15	1886.70	1638.80	5865.00	9306.90	1414.00	739.45	25241.50 CMSDAY
Mean	6.97	12.23	11.72	35.21	32.49	45.07	60.86	54.63	189.19	300.22	50.50	23.85	69.15 CMS
Max	7.50	33.80	29.60	85.70	82.40	120.00	149.50	139.50	715.00	584.00	131.00	33.00	715.00 CMS
Min	6.50	6.30	8.60	8.80	16.45	18.55	24.60	26.00	25.60	46.20	27.00	18.85	6.30 CMS
Runoff	18.07	32.75	30.37	94.31	87.03	116.83	163.01	141.59	506.74	804.12	122.17	63.89	2180.87 MCM

Momentary Peak 770.00 CMS. at 16.60 m. (MSL.) at 14.00 Hours , on Dec 5 , 2016

Runoff Yield 38.40 Liters/Second/Square KM. Momentary Peak Yield 427.540 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Palian at Ban Palian Nai , Trang (X.139A)

Lat 07 - 18 - 55 N Long 99 - 49 - 32 E

Location : on left bank at the bridge.

	Ban Palian Nai	**Amphoe** Palian	**Changwat** Trang
Drainge Area	160 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+6.999 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

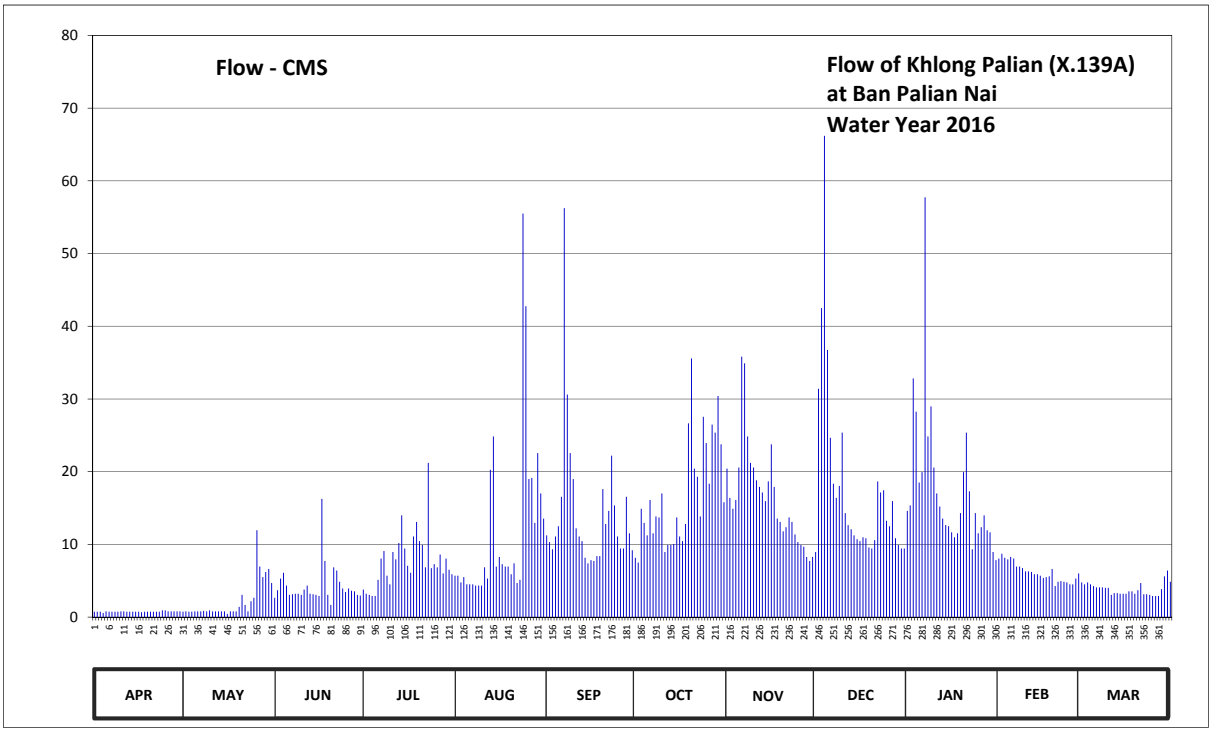
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.49	0.77	0.91	1.13	1.61	1.36	2.22	1.43	1.84	1.35	1.03	
2	0.49	0.50	0.90	0.84	1.13	1.54	1.30	1.96	2.84	1.89	1.41	1.00	
3	0.49	0.49	1.09	0.82	1.03	1.46	1.86	1.86	3.32	2.91	1.36	1.03	
4	0.46	0.49	1.17	0.80	1.11	1.60	1.73	1.94	4.24	2.67	1.34	1.00	
5	0.50	0.50	0.98	0.80	1.00	1.70	1.61	2.23	3.08	2.10	1.37	0.97	
6	0.49	0.50	0.82	1.07	1.00	1.97	1.94	3.04	2.47	2.19	1.35	0.95	
7	0.49	0.50	0.83	1.35	1.00	3.87	1.63	3.00	2.09	3.93	1.25	0.95	
8	0.49	0.51	0.84	1.44	0.98	2.80	1.79	2.48	1.96	2.48	1.25	0.95	
9	0.49	0.50	0.84	1.13	0.98	2.35	1.78	2.27	2.07	2.71	1.23	0.94	
10	0.50	0.52	0.82	1.00	0.98	2.13	2.00	2.23	2.51	2.23	1.19	0.94	
11	0.50	0.50	0.91	1.43	1.24	1.68	1.43	2.12	1.82	2.00	1.19	0.82	
12	0.49	0.50	0.98	1.34	1.09	1.60	1.51	2.06	1.71	1.88	1.18	0.85	
13	0.49	0.50	0.84	1.53	2.21	1.55	1.51	2.01	1.67	1.77	1.15	0.85	
14	0.49	0.50	0.83	1.80	2.48	1.36	1.52	1.93	1.61	1.71	1.15	0.84	
15	0.49	0.50	0.82	1.47	1.25	1.29	1.78	2.11	1.57	1.70	1.13	0.84	
16	0.49	0.44	0.80	1.26	1.37	1.33	1.60	2.42	1.55	1.64	1.10	0.84	
17	0.48	0.50	1.95	1.17	1.28	1.32	1.55	2.06	1.59	1.59	1.11	0.88	
18	0.49	0.50	1.32	1.60	1.25	1.38	1.72	1.77	1.58	1.63	1.12	0.88	
19	0.49	0.50	0.82	1.74	1.25	1.38	2.58	1.74	1.48	1.82	1.22	0.84	
20	0.49	0.60	0.64	1.55	1.15	2.04	3.03	1.65	1.47	2.19	0.97	0.90	
21	0.49	0.82	1.24	1.51	1.29	1.72	2.22	1.69	1.56	2.51	1.04	1.02	
22	0.49	0.64	1.20	1.24	1.02	1.84	2.15	1.78	2.11	2.02	1.05	0.83	
23	0.49	0.50	1.04	2.27	1.07	2.33	1.79	1.74	2.01	1.46	1.04	0.83	
24	0.52	0.71	0.93	1.23	3.84	1.89	2.63	1.62	2.03	1.82	1.03	0.82	
25	0.52	0.77	0.87	1.28	3.33	1.60	2.43	1.54	1.75	1.63	1.00	0.80	
26	0.50	1.66	0.93	1.24	2.13	1.47	2.09	1.51	1.70	1.69	1.00	0.80	
27	0.50	1.25	0.89	1.40	2.14	1.47	2.57	1.49	1.93	1.80	1.09	0.80	
28	0.50	1.11	0.88	1.16	1.73	1.97	2.51	1.37	1.58	1.66	1.16	0.92	
29	0.50	1.18	0.82	1.35	2.35	1.63	2.79	1.32	1.51	1.64		1.12	
30	0.50	1.22	0.81	1.21	2.00	1.45	2.42	1.37	1.47	1.43		1.20	
31		1.02		1.15	1.77		1.92		1.47	1.33		1.04	
Mean	0.49	0.67	0.95	1.29	1.53	1.78	1.96	1.95	1.97	2.00	1.17	0.92	
Max	0.52	1.66	1.95	2.27	3.84	3.87	3.03	3.04	4.24	3.93	1.41	1.20	4.24
Min	0.46	0.44	0.64	0.80	0.98	1.29	1.30	1.32	1.43	1.33	0.97	0.80	0.44

Annual Max Momentary Gage Height 4.93 m. (MSL.) , at 13.00 Hours , on Dec 4, 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.08 m. (MSL.)

Left Bank Elevation 5.50 m. (MSL.) ,

Right Bank Elevation 5.23 m. (MSL.) , Drainage Are 160 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.74	2.66	3.78	5.70	11.24	8.16	20.42	8.96	14.60	8.05	4.77	
2	0.74	0.80	3.70	3.22	5.70	10.32	7.50	16.40	31.40	15.35	8.72	4.50	
3	0.74	0.74	5.31	3.06	4.77	9.32	14.90	14.90	42.50	32.83	8.16	4.77	
4	0.56	0.74	6.10	2.90	5.50	11.10	12.95	16.10	66.20	28.26	7.94	4.50	
5	0.80	0.80	4.34	2.90	4.50	12.50	11.24	20.58	36.74	18.50	8.27	4.26	
6	0.74	0.80	3.06	5.13	4.50	16.55	16.10	35.82	24.66	19.94	8.05	4.10	
7	0.74	0.80	3.14	8.05	4.50	56.25	11.52	34.90	18.35	57.75	6.95	4.10	
8	0.74	0.86	3.22	9.08	4.34	30.60	13.85	24.84	16.40	24.84	6.95	4.10	
9	0.74	0.80	3.22	5.70	4.34	22.55	13.70	21.22	18.05	28.98	6.73	4.02	
10	0.80	0.92	3.06	4.50	4.34	18.98	17.00	20.58	25.38	20.58	6.30	4.02	
11	0.80	0.80	3.78	8.96	6.84	12.22	8.96	18.82	14.30	17.00	6.30	3.06	
12	0.74	0.80	4.34	7.94	5.31	11.10	9.93	17.90	12.65	15.20	6.20	3.30	
13	0.74	0.80	3.22	10.19	20.26	10.45	9.93	17.15	12.08	13.55	5.90	3.30	
14	0.74	0.80	3.14	14.00	24.84	8.16	10.06	15.95	11.24	12.65	5.90	3.22	
15	0.74	0.80	3.06	9.44	6.95	7.39	13.70	18.66	10.71	12.50	5.70	3.22	
16	0.74	0.44	2.90	7.06	8.27	7.83	11.10	23.76	10.45	11.66	5.40	3.22	
17	0.68	0.80	16.25	6.10	7.28	7.72	10.45	17.90	10.97	10.97	5.50	3.54	
18	0.74	0.80	7.72	11.10	6.95	8.38	12.80	13.55	10.84	11.52	5.60	3.54	
19	0.74	0.80	3.06	13.10	6.95	8.38	26.64	13.10	9.56	14.30	6.62	3.22	
20	0.74	1.40	1.68	10.45	5.90	17.60	35.59	11.80	9.44	19.94	4.26	3.70	
21	0.74	3.06	6.84	9.93	7.39	12.80	20.42	12.36	10.58	25.38	4.86	4.68	
22	0.74	1.68	6.40	6.84	4.68	14.60	19.30	13.70	18.66	17.30	4.95	3.14	
23	0.74	0.80	4.86	21.22	5.13	22.21	13.85	13.10	17.15	9.32	4.86	3.14	
24	0.92	2.18	3.94	6.73	55.50	15.35	27.54	11.38	17.45	14.30	4.77	3.06	
25	0.92	2.66	3.46	7.28	42.75	11.10	23.94	10.32	13.25	11.52	4.50	2.90	
26	0.80	11.94	3.94	6.84	18.98	9.44	18.35	9.93	12.50	12.36	4.50	2.90	
27	0.80	6.95	3.62	8.60	19.14	9.44	26.46	9.68	15.95	14.00	5.31	2.90	
28	0.80	5.50	3.54	6.00	12.95	16.55	25.38	8.27	10.84	11.94	6.00	3.86	
29	0.80	6.20	3.06	8.05	22.55	11.52	30.42	7.72	9.93	11.66		5.60	
30	0.80	6.62	2.98	6.51	17.00	9.20	23.76	8.27	9.44	8.96		6.40	
31		4.68		5.90	13.55		15.80		9.44	7.83		4.86	
Total	22.80	68.51	129.60	240.56	367.36	430.85	521.30	499.08	546.07	545.49	173.25	119.90	3664.77 CMSDAY
Mean	0.76	2.21	4.32	7.76	11.85	14.36	16.82	16.64	17.62	17.60	6.19	3.87	10.04 CMS
Max	0.92	11.94	16.25	21.22	55.50	56.25	35.59	35.82	66.20	57.75	8.72	6.40	66.20 CMS
Min	0.56	0.44	1.68	2.90	4.34	7.39	7.50	7.72	8.96	7.83	4.26	2.90	0.44 CMS
Runoff	1.97	5.92	11.20	20.78	31.74	37.23	45.04	43.12	47.18	47.13	14.97	10.36	316.64 MCM

Momentary Peak 86.90 CMS. at 4.93 m. (MSL.) at 13.00 Hours , on Dec 4 , 2016

Runoff Yield 62.75 Liters/Second/Square KM. Momentary Peak Yield 543.130 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Wang Pa Khian.

	Ban Wang Pa Khian	**Amphoe** Langu	**Changwat** Satun
Drainge Area	480 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	**Elevation**	+16.164 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

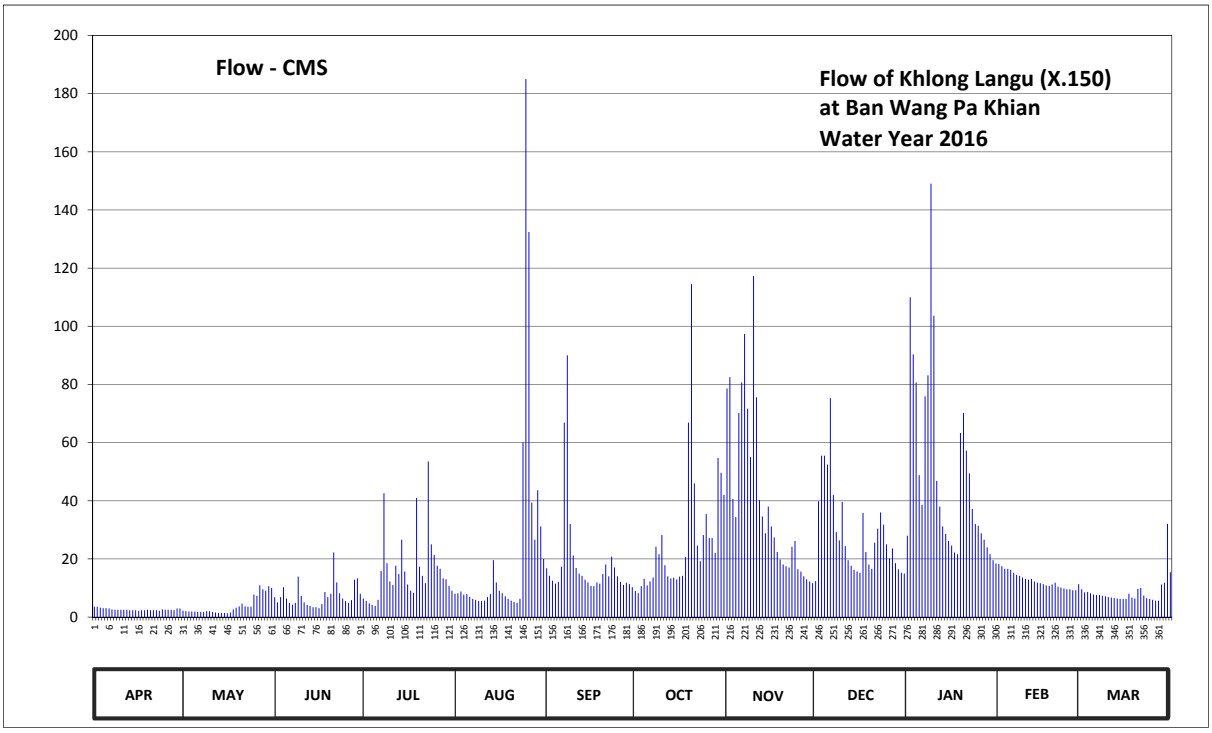
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.17	5.08	5.39	5.36	5.47	6.05	5.53	8.82	5.76	6.65	6.15	5.57	
2	5.17	5.07	5.27	5.30	5.48	5.88	5.48	8.95	7.24	9.77	6.10	5.50	
3	5.15	5.06	5.39	5.25	5.52	5.77	5.64	7.28	8.00	9.21	6.04	5.51	
4	5.14	5.06	5.62	5.21	5.45	5.70	5.81	6.97	8.00	8.89	6.04	5.48	
5	5.14	5.06	5.36	5.19	5.46	5.74	5.66	8.54	7.87	7.69	6.02	5.45	
6	5.13	5.05	5.26	5.33	5.40	6.09	5.75	8.89	8.71	7.18	5.95	5.44	
7	5.11	5.05	5.22	5.99	5.35	8.43	5.84	9.41	7.35	8.73	5.90	5.44	
8	5.10	5.05	5.26	7.38	5.33	9.20	6.46	8.59	6.71	8.97	5.88	5.42	
9	5.10	5.07	5.86	6.17	5.30	6.85	6.33	7.98	6.57	10.76	5.84	5.41	
10	5.10	5.07	5.42	5.75	5.30	6.31	6.66	9.98	7.23	9.59	5.81	5.39	
11	5.10	5.05	5.27	5.67	5.31	6.06	6.12	8.72	6.47	7.59	5.79	5.38	
12	5.10	5.04	5.21	6.11	5.39	5.93	5.87	7.26	6.23	7.15	5.81	5.37	
13	5.09	5.03	5.19	5.92	5.46	5.88	5.82	6.98	6.11	6.81	5.75	5.36	
14	5.09	5.03	5.16	6.58	6.23	5.79	5.84	6.69	6.02	6.68	5.72	5.35	
15	5.09	5.03	5.16	5.98	5.73	5.73	5.80	7.15	5.98	6.56	5.71	5.35	
16	5.08	5.02	5.14	5.68	5.54	5.65	5.86	6.81	5.95	6.48	5.69	5.35	
17	5.09	5.04	5.23	5.54	5.48	5.64	5.88	6.62	7.04	6.36	5.66	5.47	
18	5.09	5.11	5.51	5.49	5.41	5.73	6.28	6.37	6.37	6.33	5.65	5.38	
19	5.10	5.15	5.39	7.30	5.35	5.70	8.43	6.24	6.14	8.31	5.68	5.36	
20	5.09	5.18	5.47	6.09	5.31	5.92	9.90	6.14	6.04	8.54	5.72	5.58	
21	5.09	5.24	6.36	5.88	5.28	6.14	7.55	6.10	6.53	8.07	5.63	5.60	
22	5.09	5.18	5.73	5.71	5.26	5.87	6.48	6.07	6.77	7.72	5.61	5.43	
23	5.08	5.17	5.48	7.92	5.35	6.29	6.21	6.46	7.05	7.11	5.59	5.37	
24	5.11	5.17	5.36	6.50	8.18	6.07	6.66	6.56	6.84	6.85	5.57	5.35	
25	5.10	5.45	5.30	6.32	11.48	5.87	7.02	6.03	6.50	6.82	5.57	5.33	
26	5.10	5.42	5.26	6.11	10.36	5.74	6.61	5.98	6.26	6.69	5.55	5.31	
27	5.10	5.66	5.32	6.04	7.22	5.67	6.61	5.87	6.43	6.58	5.55	5.31	
28	5.09	5.57	5.79	5.82	6.58	5.72	6.35	5.80	6.17	6.45	5.69	5.68	
29	5.13	5.54	5.82	5.80	7.43	5.69	7.97	5.75	6.03	6.33		5.72	
30	5.13	5.64	5.47	5.65	6.81	5.62	7.73	5.71	5.95	6.23		6.85	
31		5.60		5.54	6.25		7.35		5.93	6.16		5.96	
Mean	5.11	5.19	5.42	5.95	6.11	6.09	6.50	7.16	6.65	7.52	5.77	5.50	
Max	5.17	5.66	6.36	7.92	11.48	9.20	9.90	9.98	8.71	10.76	6.15	6.85	11.48
Min	5.08	5.02	5.14	5.19	5.26	5.62	5.48	5.71	5.76	6.16	5.55	5.31	5.02

Annual Max Momentary Gage Height 11.68 m. (MSL.) , at 12.00 Hours , on Aug 25 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 4.38 m. (MSL.)

Left Bank Elevation 14.52 m. (MSL.) ,

Right Bank Elevation 13.95 m. (MSL.) , Drainage Are 480 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.55	2.20	6.85	6.40	8.05	16.75	8.95	78.60	12.40	28.00	18.25	9.55	
2	3.55	2.05	5.05	5.50	8.20	14.20	8.20	82.50	39.80	109.95	17.50	8.50	
3	3.25	1.90	6.85	4.75	8.80	12.55	10.60	40.60	55.50	90.35	16.60	8.65	
4	3.10	1.90	10.30	4.15	7.75	11.50	13.15	34.40	55.50	80.70	16.60	8.20	
5	3.10	1.90	6.40	3.85	7.90	12.10	10.90	70.20	52.40	48.80	16.30	7.75	
6	2.95	1.75	4.90	5.95	7.00	17.35	12.25	80.70	75.30	38.60	15.25	7.60	
7	2.65	1.75	4.30	15.85	6.25	66.90	13.60	97.35	42.00	75.90	14.50	7.60	
8	2.50	1.75	4.90	42.60	5.95	90.00	24.20	71.70	29.20	83.10	14.20	7.30	
9	2.50	2.05	13.90	18.55	5.50	32.00	21.60	55.00	26.40	149.00	13.60	7.15	
10	2.50	2.05	7.30	12.25	5.50	21.20	28.20	117.30	39.60	103.65	13.15	6.85	
11	2.50	1.75	5.05	11.05	5.65	16.90	17.80	75.60	24.40	46.80	12.85	6.70	
12	2.50	1.60	4.15	17.65	6.85	14.95	14.05	40.20	19.60	38.00	13.15	6.55	
13	2.35	1.45	3.85	14.80	7.90	14.20	13.30	34.60	17.65	31.20	12.25	6.40	
14	2.35	1.45	3.40	26.60	19.60	12.85	13.60	28.80	16.30	28.60	11.80	6.25	
15	2.35	1.45	3.40	15.70	11.95	11.95	13.00	38.00	15.70	26.20	11.65	6.25	
16	2.20	1.30	3.10	11.20	9.10	10.75	13.90	31.20	15.25	24.60	11.35	6.25	
17	2.35	1.60	4.45	9.10	8.20	10.60	14.20	27.40	35.80	22.20	10.90	8.05	
18	2.35	2.65	8.65	8.35	7.15	11.95	20.60	22.40	22.40	21.60	10.75	6.70	
19	2.50	3.25	6.85	41.00	6.25	11.50	66.90	19.80	18.10	63.30	11.20	6.40	
20	2.35	3.70	8.05	17.35	5.65	14.80	114.50	18.10	16.60	70.20	11.80	9.70	
21	2.35	4.60	22.20	14.20	5.20	18.10	46.00	17.50	25.60	57.25	10.45	10.00	
22	2.35	3.70	11.95	11.65	4.90	14.05	24.60	17.05	30.40	49.40	10.15	7.45	
23	2.20	3.55	8.20	53.50	6.25	20.80	19.20	24.20	36.00	37.20	9.85	6.55	
24	2.65	3.55	6.40	25.00	60.00	17.05	28.20	26.20	31.80	32.00	9.55	6.25	
25	2.50	7.75	5.50	21.40	185.00	14.05	35.40	16.45	25.00	31.40	9.55	5.95	
26	2.50	7.30	4.90	17.65	132.40	12.10	27.20	15.70	20.20	28.80	9.25	5.65	
27	2.50	10.90	5.80	16.60	39.40	11.05	27.20	14.05	23.60	26.60	9.25	5.65	
28	2.35	9.55	12.85	13.30	26.60	11.80	22.00	13.00	18.55	24.00	11.35	11.20	
29	2.95	9.10	13.30	13.00	43.60	11.35	54.75	12.25	16.45	21.60		11.80	
30	2.95	10.60	8.05	10.75	31.20	10.30	49.60	11.65	15.25	19.60		32.00	
31		10.00		9.10	20.00		42.00		14.95	18.40		15.40	
Total	78.75	120.10	220.85	498.80	713.75	565.65	829.65	1232.50	887.70	1527.00	353.05	266.30	7294.10 CMSDAY
Mean	2.63	3.87	7.36	16.09	23.02	18.86	26.76	41.08	28.64	49.26	12.61	8.59	19.98 CMS
Max	3.55	10.90	22.20	53.50	185.00	90.00	114.50	117.30	75.30	149.00	18.25	32.00	185.00 CMS
Min	2.20	1.30	3.10	3.85	4.90	10.30	8.20	11.65	12.40	18.40	9.25	5.65	1.30 CMS
Runoff	6.80	10.38	19.08	43.10	61.67	48.87	71.68	106.49	76.70	131.93	30.50	23.01	630.21 MCM

Momentary Peak 195.00 CMS. at 11.68 m. (MSL.) at 12.00 Hours , on Aug 25 , 2016

Runoff Yield 41.61 Liters/Second/Square KM. Momentary Peak Yield 406.040 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Talat Kao , Phangnga (X.186)

Lat 08 - 49 - 47 N Long 98 - 22 - 17 E

Location : on left bank at Ban Talat Kao.

	Ban	Talat Kao	**Amphoe** Ta Kuaw Pa	**Changwat**	Phangnga
Drainge Area	734	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank about 10 meters from the top staff gage.			**Elevation**	+4.980 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1996 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Flot	-				
Rated by Current Meter	2003 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.				

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

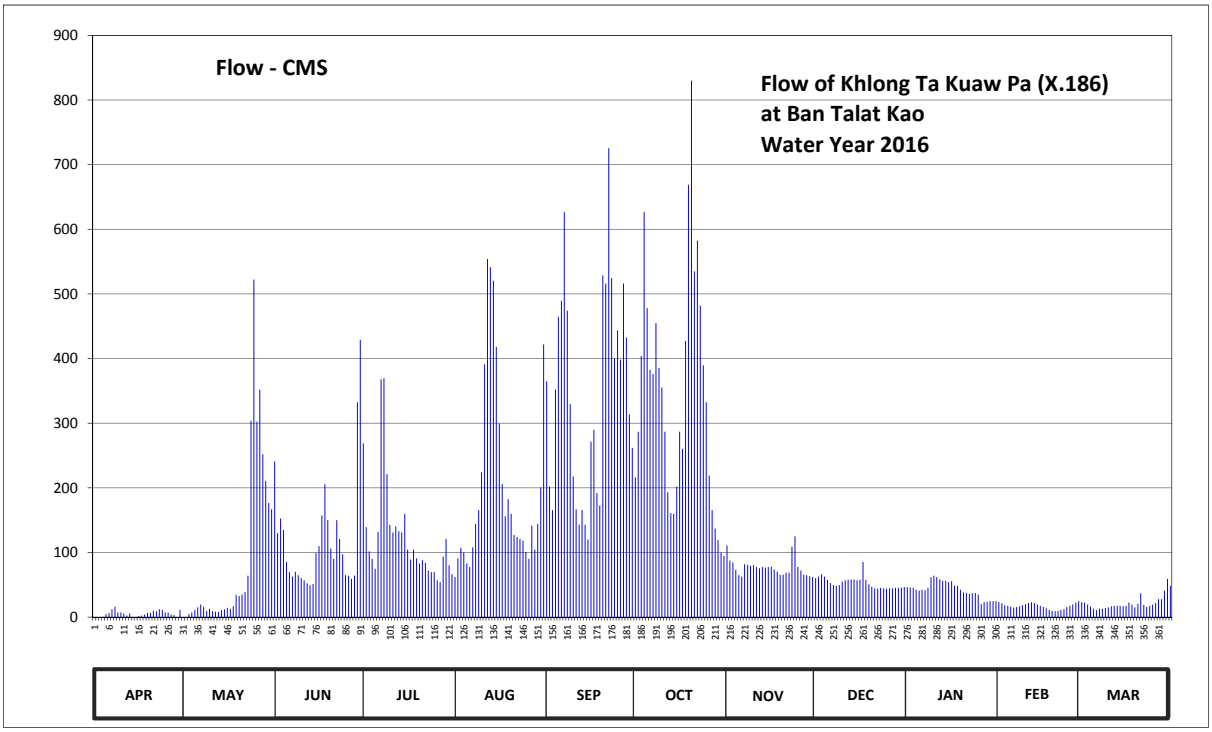
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-1.20	-1.20	1.62	1.82	-0.03	2.48	1.44	0.53	-0.05	-0.26	-0.64	-0.65	
2	-1.20	-1.20	0.72	0.81	0.31	1.33	1.95	0.27	-0.02	-0.27	-0.68	-0.66	
3	-1.20	-1.08	0.92	0.43	0.49	1.03	2.71	0.24	0.03	-0.28	-0.74	-0.71	
4	-1.20	-1.02	0.77	0.30	0.41	2.40	3.81	0.11	-0.02	-0.33	-0.76	-0.79	
5	-1.08	-0.92	0.25	0.13	0.22	3.04	3.11	0.01	-0.09	-0.35	-0.80	-0.87	
6	-1.04	-0.82	0.07	0.74	0.16	3.17	2.59	-0.02	-0.16	-0.33	-0.83	-0.93	
7	-0.90	-0.71	-0.02	2.50	0.50	3.81	2.55	0.21	-0.21	-0.34	-0.81	-0.88	
8	-0.80	-0.80	0.08	2.51	0.85	3.09	2.99	0.20	-0.23	-0.28	-0.78	-0.88	
9	-1.02	-0.96	0.01	1.48	1.03	2.25	2.61	0.18	-0.21	-0.03	-0.74	-0.85	
10	-1.02	-0.88	-0.05	0.84	1.50	1.45	2.42	0.19	-0.13	0.00	-0.70	-0.82	
11	-1.06	-0.97	-0.10	0.73	2.64	1.04	1.95	0.16	-0.10	-0.03	-0.67	-0.78	
12	-1.14	-0.99	-0.17	0.82	3.49	0.84	1.26	0.14	-0.09	-0.08	-0.65	-0.77	
13	-1.06	-1.00	-0.21	0.75	3.43	1.03	0.99	0.16	-0.08	-0.11	-0.67	-0.76	
14	-1.20	-0.92	-0.18	0.73	3.33	0.84	0.98	0.15	-0.08	-0.11	-0.71	-0.76	
15	-1.20	-0.90	0.40	0.98	2.79	0.62	1.33	0.16	-0.10	-0.14	-0.77	-0.78	
16	-1.16	-0.84	0.52	0.46	2.04	1.84	1.95	0.17	-0.09	-0.12	-0.81	-0.76	
17	-1.14	-0.88	0.96	0.29	1.36	1.97	1.76	0.12	0.25	-0.22	-0.86	-0.66	
18	-1.10	-0.78	1.36	0.46	0.95	1.25	2.84	0.08	-0.09	-0.23	-0.92	-0.72	
19	-1.04	-0.46	0.90	0.31	1.17	1.09	3.97	0.02	-0.19	-0.33	-0.96	-0.82	
20	-1.04	-0.49	0.48	0.22	0.98	3.37	4.54	0.02	-0.25	-0.40	-0.97	-0.69	
21	-0.96	-0.45	0.30	0.28	0.69	3.31	3.40	0.06	-0.29	-0.41	-0.96	-0.42	
22	-0.98	-0.39	0.90	0.23	0.66	4.18	3.62	0.06	-0.30	-0.43	-0.92	-0.73	
23	-0.90	0.00	0.63	0.10	0.63	3.35	3.13	0.51	-0.28	-0.42	-0.89	-0.81	
24	-0.92	2.07	0.38	0.07	0.60	2.69	2.63	0.67	-0.29	-0.41	-0.81	-0.77	
25	-1.02	3.34	0.01	0.07	0.42	2.93	2.27	0.16	-0.30	-0.45	-0.77	-0.72	
26	-1.03	2.06	0.00	-0.10	0.30	2.68	1.46	0.10	-0.29	-0.70	-0.71	-0.67	
27	-1.10	2.40	-0.07	-0.14	0.83	3.31	1.03	0.02	-0.29	-0.65	-0.66	-0.57	
28	-1.12	1.70	0.00	0.34	0.46	2.87	0.79	0.01	-0.28	-0.64	-0.62	-0.57	
29	-1.20	1.40	2.27	0.63	0.85	2.14	0.61	-0.01	-0.28	-0.62		-0.35	
30	-0.92	1.12	2.85	0.19	1.32	1.77	0.41	-0.03	-0.27	-0.62		-0.07	
31		1.04		0.03	2.81		0.35		-0.26	-0.62		-0.23	
Mean	-1.07	-0.11	0.52	0.61	1.20	2.24	2.18	0.16	-0.16	-0.33	-0.78	-0.69	
Max	-0.80	3.34	2.85	2.51	3.49	4.18	4.54	0.67	0.25	0.00	-0.62	-0.07	4.54
Min	-1.20	-1.20	-0.21	-0.14	-0.03	0.62	0.35	-0.03	-0.30	-0.70	-0.97	-0.93	-1.20

Annual Max Momentary Gage Height 4.72 m. (MSL.) , at 09.00 Hours , on Oct 20 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.63 m. (MSL.)

Left Bank Elevation 5.12 m. (MSL.) ,

Right Bank Elevation 5.00 m. (MSL.) , Drainage Are 734 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	240.80	268.80	61.90	364.80	216.20	111.00	60.50	46.40	23.60	23.00	
2	0.00	0.00	130.00	139.20	90.90	201.90	287.00	87.30	62.60	45.80	21.20	22.40	
3	0.00	4.80	152.40	101.70	107.10	165.60	403.80	84.60	66.40	45.20	18.40	19.60	
4	0.00	7.20	135.00	90.00	99.90	352.00	626.60	72.90	62.60	42.20	17.60	16.40	
5	4.80	11.20	85.50	74.70	82.80	464.60	477.90	64.80	57.70	41.00	16.00	13.20	
6	6.40	15.20	69.60	132.00	77.40	489.30	382.40	62.60	52.80	42.20	14.80	10.80	
7	12.00	19.60	62.60	368.00	108.00	626.60	376.00	81.90	49.40	41.60	15.60	12.80	
8	16.00	16.00	70.40	369.60	144.00	474.10	455.10	81.00	48.20	45.20	16.80	12.80	
9	7.20	9.60	64.80	221.40	165.60	329.50	385.80	79.20	49.40	61.90	18.40	14.00	
10	7.20	12.80	60.50	142.80	224.00	217.50	355.20	80.10	54.90	64.00	20.00	15.20	
11	5.60	9.20	57.00	131.00	391.20	166.80	287.00	77.40	57.00	61.90	21.80	16.80	
12	2.40	8.40	52.10	140.40	553.90	142.80	193.20	75.60	57.70	58.40	23.00	17.20	
13	5.60	8.00	49.40	133.00	541.30	165.60	160.80	77.40	58.40	56.30	21.80	17.60	
14	0.00	11.20	51.40	131.00	520.30	142.80	159.60	76.50	58.40	56.30	19.60	17.60	
15	0.00	12.00	99.00	159.60	418.20	120.00	201.90	77.40	57.00	54.20	17.20	16.80	
16	1.60	14.40	110.00	104.40	299.60	271.60	287.00	78.30	57.70	55.60	15.60	17.60	
17	2.40	12.80	157.20	89.10	205.80	289.80	260.40	73.80	85.50	48.80	13.60	22.40	
18	4.00	16.80	205.80	104.40	156.00	192.00	427.20	70.40	57.70	48.20	11.20	19.20	
19	6.40	34.40	150.00	90.90	182.40	172.80	668.90	65.60	50.70	42.20	9.60	15.20	
20	6.40	32.60	106.20	82.80	159.60	528.70	830.00	65.60	47.00	38.00	9.20	20.60	
21	9.60	35.00	90.00	88.20	127.00	516.10	535.00	68.80	44.60	37.40	9.60	36.80	
22	8.80	38.60	150.00	83.70	124.00	725.60	582.40	68.80	44.00	36.20	11.20	18.80	
23	12.00	64.00	121.00	72.00	121.00	524.50	481.70	109.00	45.20	36.80	12.40	15.60	
24	11.20	303.80	97.20	69.60	118.00	400.20	389.40	125.00	44.60	37.40	15.60	17.20	
25	7.20	522.40	64.80	69.60	100.80	443.70	332.50	77.40	44.00	35.00	17.20	19.20	
26	6.80	302.40	64.00	57.00	90.00	398.40	218.80	72.00	44.60	20.00	19.60	21.80	
27	4.00	352.00	59.10	54.20	141.60	516.10	165.60	65.60	44.60	23.00	22.40	27.80	
28	3.20	252.00	64.00	93.60	104.40	432.60	137.00	64.80	45.20	23.60	24.80	27.80	
29	0.00	211.00	332.50	121.00	144.00	313.60	119.00	63.30	45.20	24.80		41.00	
30	11.20	176.40	429.00	80.10	200.60	261.80	99.90	61.90	45.80	24.80		59.10	
31		166.80		66.40	421.80		94.50		46.40	24.80		48.20	
Total	162.00	2680.60	3581.30	3930.20	6283.10	10411.40	10597.80	2320.00	1645.80	1319.20	477.80	674.50	44083.70 CMSDAY
Mean	5.40	86.47	119.38	126.78	202.68	347.05	341.86	77.33	53.09	42.55	17.06	21.76	120.78 CMS
Max	16.00	522.40	429.00	369.60	553.90	725.60	830.00	125.00	85.50	64.00	24.80	59.10	830.00 CMS
Min	0.00	0.00	49.40	54.20	61.90	120.00	94.50	61.90	44.00	20.00	9.20	10.80	0.00 CMS
Runoff	14.00	231.60	309.42	339.57	542.86	899.54	915.65	200.45	142.20	113.98	41.28	58.28	3808.83 MCM

Momentary Peak 886.40 CMS. at 4.72 m. (MSL.) at 09.00 Hours , on Oct 20 , 2016

Runoff Yield 164.62 Liters/Second/Square KM. Momentary Peak Yield 1208.160 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Hin Dan , Phangnga (X.187)

Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

	Ban Hin Dan	**Amphoe** Ta Kuaw Pa	**Changwat** Phangnga
Drainge Area	546 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 4 meters from the top staff gage.	**Elevation**	+9.230 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

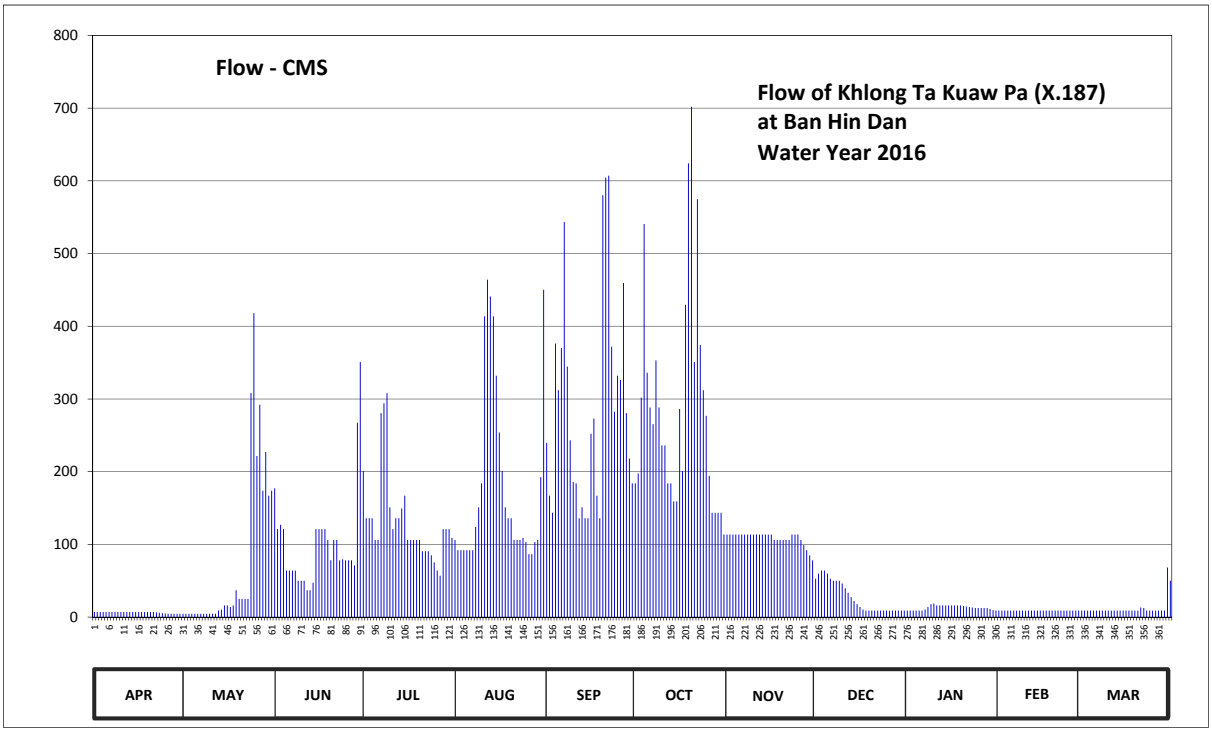
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.46	4.41	5.76	5.90	5.30	6.12	5.80	5.35	4.92	4.50	4.50	4.50	
2	4.46	4.41	5.40	5.50	5.20	5.70	5.88	5.35	4.97	4.50	4.50	4.50	
3	4.46	4.41	5.44	5.50	5.20	5.55	6.45	5.35	5.00	4.50	4.50	4.50	
4	4.46	4.41	5.40	5.50	5.20	6.81	7.51	5.35	5.00	4.50	4.50	4.50	
5	4.46	4.41	5.00	5.30	5.20	6.50	6.62	5.35	4.97	4.50	4.50	4.50	
6	4.46	4.41	5.00	5.30	5.20	6.78	6.38	5.35	4.92	4.50	4.50	4.50	
7	4.46	4.41	5.00	6.34	5.20	7.52	6.26	5.35	4.90	4.52	4.50	4.50	
8	4.46	4.41	5.00	6.41	5.42	6.66	6.70	5.35	4.90	4.57	4.50	4.50	
9	4.46	4.41	4.90	6.48	5.60	6.14	6.38	5.35	4.90	4.62	4.50	4.50	
10	4.46	4.41	4.90	5.60	5.80	5.81	6.10	5.35	4.87	4.63	4.50	4.50	
11	4.46	4.41	4.90	5.40	6.98	5.80	6.10	5.35	4.82	4.60	4.50	4.50	
12	4.46	4.41	4.80	5.50	7.20	5.50	5.80	5.35	4.77	4.60	4.50	4.50	
13	4.46	4.50	4.80	5.50	7.10	5.60	5.80	5.35	4.72	4.60	4.50	4.50	
14	4.46	4.52	4.88	5.59	6.98	5.50	5.65	5.35	4.67	4.60	4.50	4.50	
15	4.46	4.60	5.40	5.70	6.60	5.50	5.65	5.35	4.62	4.60	4.50	4.50	
16	4.46	4.60	5.40	5.30	6.20	6.19	6.37	5.35	4.57	4.60	4.50	4.50	
17	4.46	4.57	5.40	5.30	5.90	6.30	5.90	5.30	4.52	4.60	4.50	4.50	
18	4.46	4.60	5.40	5.30	5.60	5.70	7.05	5.30	4.50	4.60	4.50	4.50	
19	4.46	4.80	5.30	5.30	5.50	5.50	7.82	5.30	4.50	4.60	4.50	4.50	
20	4.46	4.70	5.10	5.30	5.50	7.66	8.08	5.30	4.50	4.59	4.50	4.50	
21	4.46	4.70	5.30	5.19	5.30	7.75	6.69	5.30	4.50	4.58	4.50	4.56	
22	4.45	4.70	5.30	5.19	5.30	7.76	7.64	5.30	4.50	4.57	4.50	4.55	
23	4.44	4.70	5.10	5.19	5.30	6.79	6.80	5.35	4.50	4.56	4.50	4.50	
24	4.43	6.48	5.11	5.15	5.32	6.35	6.50	5.35	4.50	4.55	4.50	4.50	
25	4.42	7.00	5.10	5.08	5.28	6.60	6.32	5.35	4.50	4.55	4.50	4.50	
26	4.41	6.02	5.10	5.00	5.16	6.57	5.86	5.30	4.50	4.55	4.50	4.50	
27	4.41	6.40	5.10	4.95	5.16	7.18	5.55	5.25	4.50	4.55	4.50	4.50	
28	4.41	5.74	5.05	5.40	5.28	6.34	5.55	5.20	4.50	4.55	4.50	4.50	
29	4.41	6.05	6.27	5.40	5.30	6.00	5.55	5.15	4.50	4.53		4.50	
30	4.41	5.70	6.69	5.40	5.85	5.80	5.55	5.10	4.50	4.51		5.03	
31		5.74		5.32	7.14		5.35		4.50	4.50		4.90	
Mean	4.45	4.94	5.24	5.46	5.72	6.33	6.31	5.31	4.68	4.56	4.50	4.53	
Max	4.46	7.00	6.69	6.48	7.20	7.76	8.08	5.35	5.00	4.63	4.50	5.03	8.08
Min	4.41	4.41	4.80	4.95	5.16	5.50	5.35	5.10	4.50	4.50	4.50	4.50	4.41

Annual Max Momentary Gage Height 8.35 m. (MSL.) , at 06.00 Hours , on Oct 20 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.19 m. (MSL.)

Left Bank Elevation 9.93 m. (MSL.) ,

Right Bank Elevation 10.56 m. (MSL.) , Drainage Are 546 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.00	4.50	177.20	201.00	106.00	239.60	184.00	113.50	52.80	9.00	9.00	9.00		
2	7.00	4.50	121.00	136.00	92.00	167.00	197.60	113.50	59.80	9.00	9.00	9.00		
3	7.00	4.50	127.00	136.00	92.00	143.50	302.00	113.50	64.00	9.00	9.00	9.00		
4	7.00	4.50	121.00	136.00	92.00	376.20	540.60	113.50	64.00	9.00	9.00	9.00		
5	7.00	4.50	64.00	106.00	92.00	312.00	336.20	113.50	59.80	9.00	9.00	9.00		
6	7.00	4.50	64.00	106.00	92.00	369.80	288.20	113.50	52.80	9.00	9.00	9.00		
7	7.00	4.50	64.00	280.60	92.00	543.20	265.40	113.50	50.00	10.40	9.00	9.00		
8	7.00	4.50	64.00	294.00	124.00	344.60	353.00	113.50	50.00	13.90	9.00	9.00		
9	7.00	4.50	50.00	308.00	151.00	243.20	288.20	113.50	50.00	17.80	9.00	9.00		
10	7.00	4.50	50.00	151.00	184.00	185.70	236.00	113.50	46.10	18.70	9.00	9.00		
11	7.00	4.50	50.00	121.00	413.60	184.00	236.00	113.50	39.60	16.00	9.00	9.00		
12	7.00	4.50	37.00	136.00	464.00	136.00	184.00	113.50	33.40	16.00	9.00	9.00		
13	7.00	9.00	37.00	136.00	441.00	151.00	184.00	113.50	27.40	16.00	9.00	9.00		
14	7.00	10.40	47.40	149.50	413.60	136.00	159.00	113.50	22.30	16.00	9.00	9.00		
15	7.00	16.00	121.00	167.00	332.00	136.00	159.00	113.50	17.80	16.00	9.00	9.00		
16	7.00	16.00	121.00	106.00	254.00	252.20	286.30	113.50	13.90	16.00	9.00	9.00		
17	7.00	13.90	121.00	106.00	201.00	273.00	201.00	106.00	10.40	16.00	9.00	9.00		
18	7.00	16.00	121.00	106.00	151.00	167.00	429.50	106.00	9.00	16.00	9.00	9.00		
19	7.00	37.00	106.00	106.00	136.00	136.00	624.00	106.00	9.00	16.00	9.00	9.00		
20	7.00	25.00	78.00	106.00	136.00	580.20	702.00	106.00	9.00	15.30	9.00	9.00		
21	7.00	25.00	106.00	90.60	106.00	604.50	350.90	106.00	9.00	14.60	9.00	13.20		
22	6.50	25.00	106.00	90.60	106.00	607.20	574.80	106.00	9.00	13.90	9.00	12.50		
23	6.00	25.00	78.00	90.60	106.00	371.90	374.00	113.50	9.00	13.20	9.00	9.00		
24	5.50	308.00	79.40	85.00	109.00	282.50	312.00	113.50	9.00	12.50	9.00	9.00		
25	5.00	418.00	78.00	75.20	103.20	332.00	276.80	113.50	9.00	12.50	9.00	9.00		
26	4.50	221.60	78.00	64.00	86.40	326.00	194.20	106.00	9.00	12.50	9.00	9.00		
27	4.50	292.00	78.00	57.00	86.40	459.40	143.50	99.00	9.00	12.50	9.00	9.00		
28	4.50	173.80	71.00	121.00	103.20	280.60	143.50	92.00	9.00	12.50	9.00	9.00		
29	4.50	227.00	267.30	121.00	106.00	218.00	143.50	85.00	9.00	11.10		9.00		
30	4.50	167.00	350.90	121.00	192.50	184.00	143.50	78.00	9.00	9.70		68.20		
31		173.80		109.00	450.20		113.50		9.00	9.00		50.00		
Total	192.50	2253.50	3034.20	4119.10	5614.10	8742.30	8926.20	3252.50	840.10	408.10	252.00	386.90	38021.50	CMSDAY
Mean	6.42	72.69	101.14	132.87	181.10	291.41	287.94	108.42	27.10	13.16	9.00	12.48	104.17	CMS
Max	7.00	418.00	350.90	308.00	464.00	607.20	702.00	113.50	64.00	18.70	9.00	68.20	702.00	CMS
Min	4.50	4.50	37.00	57.00	86.40	136.00	113.50	78.00	9.00	9.00	9.00	9.00	4.50	CMS
Runoff	16.63	194.70	262.15	355.89	485.06	755.33	771.22	281.02	72.58	35.26	21.77	33.43	3285.06	MCM

Momentary Peak 783.00 CMS. at 8.35 m. (MSL.) at 06.00 Hours , on Oct 20 , 2016

Runoff Yield 190.87 Liters/Second/Square KM. Momentary Peak Yield 1434.720 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Rommanee at Ban Rommanee , Phangnga (X.188A)

Lat 08 - 45 - 50 N Long 98 - 27 - 35 E

Location : on left bank at the bridge.

	Ban Rommanee	**Amphoe** Kapong	**Changwat** Phangnga
Drainge Area	232 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutmentof the bridge.		**Elevation** +18.740 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 16.320 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

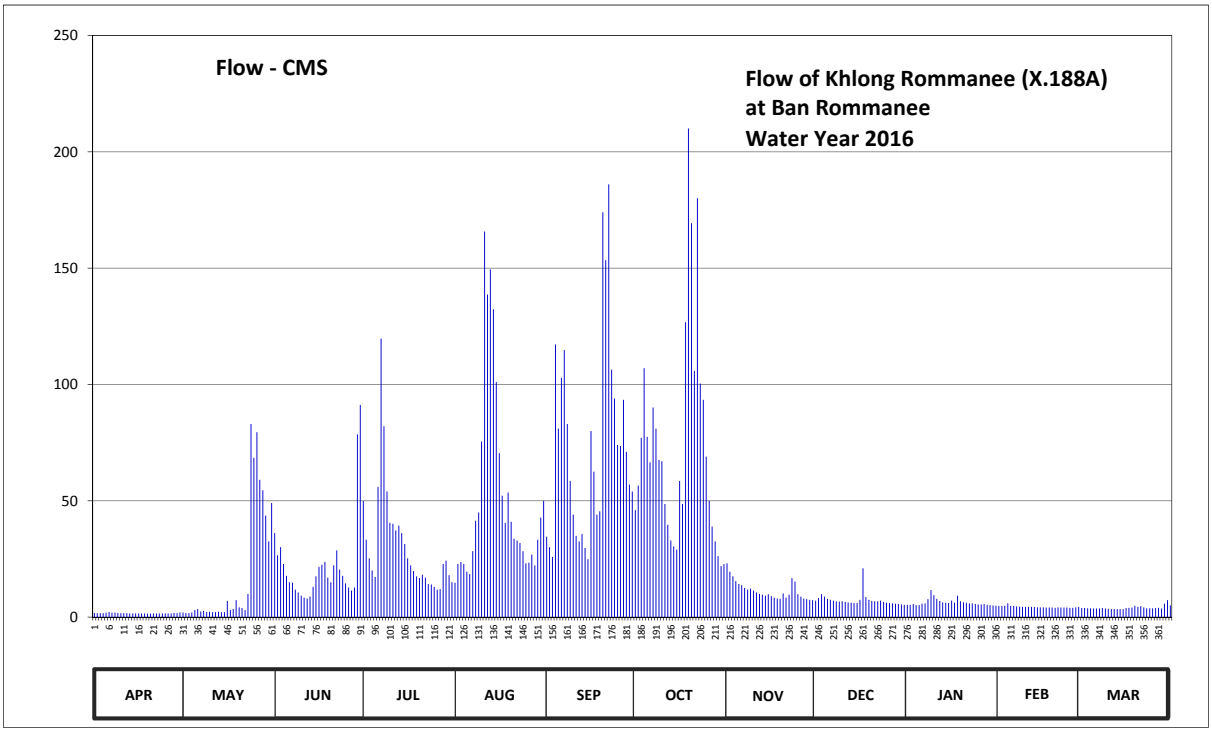
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.08	13.10	14.59	14.91	13.91	14.55	14.82	14.22	13.54	13.42	13.38	13.29	
2	13.07	13.08	14.33	14.52	14.21	14.43	15.05	14.10	13.61	13.42	13.38	13.29	
3	13.07	13.07	14.43	14.29	14.24	14.31	15.46	14.02	13.69	13.44	13.39	13.28	
4	13.07	13.10	14.21	14.12	14.21	16.17	16.00	13.94	13.64	13.41	13.46	13.28	
5	13.09	13.20	14.03	14.01	14.10	15.54	15.47	13.89	13.59	13.41	13.38	13.27	
6	13.12	13.24	13.92	15.04	14.06	15.93	15.25	13.87	13.56	13.45	13.38	13.27	
7	13.09	13.14	13.91	16.21	14.38	16.13	15.71	13.82	13.54	13.46	13.36	13.27	
8	13.09	13.17	13.79	15.56	14.72	15.58	15.54	13.79	13.52	13.58	13.35	13.29	
9	13.08	13.12	13.73	15.00	14.80	15.09	15.27	13.81	13.51	13.78	13.34	13.27	
10	13.07	13.13	13.66	14.70	15.43	14.78	15.26	13.77	13.52	13.67	13.34	13.26	
11	13.07	13.11	13.62	14.69	16.83	14.56	14.88	13.73	13.50	13.59	13.34	13.25	
12	13.07	13.11	13.60	14.62	16.48	14.50	14.68	13.70	13.49	13.53	13.34	13.25	
13	13.06	13.13	13.64	14.67	16.63	14.58	14.51	13.68	13.48	13.49	13.33	13.24	
14	13.06	13.11	13.84	14.59	16.39	14.42	14.44	13.66	13.47	13.48	13.32	13.24	
15	13.06	13.11	14.02	14.47	15.90	14.28	14.40	13.69	13.47	13.47	13.32	13.24	
16	13.06	13.53	14.17	14.29	15.33	15.52	15.09	13.65	13.56	13.54	13.32	13.29	
17	13.06	13.21	14.20	14.19	14.96	15.17	14.88	13.62	14.15	13.48	13.31	13.30	
18	13.06	13.25	14.24	14.11	14.70	14.78	16.31	13.60	13.63	13.66	13.31	13.31	
19	13.05	13.55	14.00	14.02	14.99	14.81	17.28	13.59	13.56	13.52	13.31	13.39	
20	13.05	13.32	13.92	13.99	14.71	16.92	16.87	13.71	13.53	13.49	13.30	13.34	
21	13.06	13.29	14.19	14.05	14.53	16.68	15.98	13.62	13.52	13.48	13.32	13.37	
22	13.06	13.20	14.39	14.00	14.51	17.04	16.98	13.68	13.52	13.46	13.31	13.31	
23	13.06	13.70	14.13	13.89	14.48	15.99	15.89	13.99	13.54	13.46	13.31	13.28	
24	13.06	15.58	14.03	13.88	14.38	15.78	15.77	13.93	13.50	13.44	13.31	13.28	
25	13.06	15.29	13.90	13.84	14.22	15.40	15.30	13.69	13.48	13.43	13.30	13.28	
26	13.06	15.51	13.83	13.79	14.23	15.39	14.91	13.64	13.47	13.43	13.30	13.29	
27	13.06	15.10	13.77	13.80	14.34	15.77	14.66	13.60	13.46	13.44	13.32	13.30	
28	13.08	15.01	13.83	14.21	14.19	15.34	14.50	13.58	13.45	13.42	13.34	13.27	
29	13.07	14.77	15.49	14.26	14.52	15.06	14.32	13.56	13.44	13.41		13.45	
30	13.10	14.50	15.73	14.04	14.75	15.00	14.18	13.55	13.43	13.40		13.55	
31		14.89		13.92	14.91		14.21		13.42	13.39		13.40	
Mean	13.07	13.70	14.10	14.38	14.84	15.32	15.29	13.76	13.54	13.49	13.34	13.30	
Max	13.12	15.58	15.73	16.21	16.83	17.04	17.28	14.22	14.15	13.78	13.46	13.55	17.28
Min	13.05	13.07	13.60	13.79	13.91	14.28	14.18	13.55	13.42	13.39	13.30	13.24	13.05

Annual Max Momentary Gage Height 18.19 m. (MSL.) , at 22.00 Hours , on Sep 21 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 12.48 m. (MSL.)

Left Bank Elevation 16.31 m. (MSL.) ,

Right Bank Elevation 17.49 m. (MSL.) , Drainage Are 232 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	2.00	36.10	49.95	14.75	34.50	45.90	23.10	7.10	5.30	4.80	3.90	
2	1.70	1.80	26.55	33.30	22.80	30.05	56.50	19.50	8.20	5.30	4.80	3.90	
3	1.70	1.70	30.05	25.20	23.70	25.85	77.00	17.50	9.80	5.60	4.90	3.80	
4	1.70	2.00	22.80	20.10	22.80	117.20	107.00	15.50	8.80	5.15	5.90	3.80	
5	1.90	3.00	17.75	17.25	19.50	81.00	77.50	14.25	7.85	5.15	4.80	3.70	
6	2.20	3.40	15.00	56.00	18.50	102.80	66.50	13.75	7.40	5.75	4.80	3.70	
7	1.90	2.40	14.75	119.70	28.30	114.80	90.05	12.50	7.10	5.90	4.60	3.70	
8	1.90	2.70	11.80	82.00	41.40	83.00	81.00	11.80	6.80	7.70	4.50	3.90	
9	1.80	2.20	10.60	54.00	45.00	58.50	67.50	12.25	6.65	11.60	4.40	3.70	
10	1.70	2.30	9.20	40.50	75.50	44.10	67.00	11.40	6.80	9.40	4.40	3.60	
11	1.70	2.10	8.40	40.10	165.70	34.90	48.60	10.60	6.50	7.85	4.40	3.50	
12	1.70	2.10	8.00	37.30	138.60	32.50	39.70	10.00	6.35	6.95	4.40	3.50	
13	1.60	2.30	8.80	39.30	149.40	35.70	32.90	9.60	6.20	6.35	4.30	3.40	
14	1.60	2.10	13.00	36.10	132.30	29.70	30.40	9.20	6.05	6.20	4.20	3.40	
15	1.60	2.10	17.50	31.45	101.00	24.90	29.00	9.80	6.05	6.05	4.20	3.40	
16	1.60	6.95	21.60	25.20	70.50	80.00	58.50	9.00	7.40	7.10	4.20	3.90	
17	1.60	3.10	22.50	22.20	52.20	62.50	48.60	8.40	21.00	6.20	4.10	4.00	
18	1.60	3.50	23.70	19.80	40.50	44.10	126.70	8.00	8.60	9.20	4.10	4.10	
19	1.50	7.25	17.00	17.50	53.55	45.45	210.00	7.85	7.40	6.80	4.10	4.90	
20	1.50	4.20	15.00	16.75	40.95	174.00	169.30	10.20	6.95	6.35	4.00	4.40	
21	1.60	3.90	22.20	18.25	33.70	153.40	105.80	8.40	6.80	6.20	4.20	4.70	
22	1.60	3.00	28.65	17.00	32.90	186.00	180.00	9.60	6.80	5.90	4.10	4.10	
23	1.60	10.00	20.40	14.25	31.80	106.40	100.40	16.75	7.10	5.90	4.10	3.80	
24	1.60	83.00	17.75	14.00	28.30	93.90	93.35	15.25	6.50	5.60	4.10	3.80	
25	1.60	68.50	14.50	13.00	23.10	74.00	69.00	9.80	6.20	5.45	4.00	3.80	
26	1.60	79.50	12.75	11.80	23.40	73.50	49.95	8.80	6.05	5.45	4.00	3.90	
27	1.60	59.00	11.40	12.00	26.90	93.35	38.90	8.00	5.90	5.60	4.20	4.00	
28	1.80	54.50	12.75	22.80	22.20	71.00	32.50	7.70	5.75	5.30	4.40	3.70	
29	1.70	43.65	78.50	24.30	33.30	57.00	26.20	7.40	5.60	5.15		5.75	
30	2.00	32.50	91.15	18.00	42.75	54.00	21.90	7.25	5.45	5.00		7.25	
31		49.05		15.00	49.95		22.80		5.30	4.90		5.00	
Total	51.00	545.80	660.15	964.10	1605.25	2218.10	2270.45	343.15	226.45	196.35	123.00	126.00	9329.80 CMSDAY
Mean	1.70	17.61	22.00	31.10	51.78	73.94	73.24	11.44	7.30	6.33	4.39	4.06	25.56 CMS
Max	2.20	83.00	91.15	119.70	165.70	186.00	210.00	23.10	21.00	11.60	5.90	7.25	210.00 CMS
Min	1.50	1.70	8.00	11.80	14.75	24.90	21.90	7.25	5.30	4.90	4.00	3.40	1.50 CMS
Runoff	4.41	47.16	57.04	83.30	138.69	191.64	196.17	29.65	19.57	16.96	10.63	10.89	806.09 MCM

Momentary Peak 371.60 CMS. at 18.19 m. (MSL.) at 22.00 Hours , on Sep 21 , 2016

Runoff Yield 110.18 Liters/Second/Square KM. Momentary Peak Yield 1601.720 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

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

Location : on left bank at Ban Ket Ho.

	Ban Ket Ho	**Amphoe** Kathu	**Changwat** Phuket
Drainge Area	28 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		**Elevation** +17.360 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

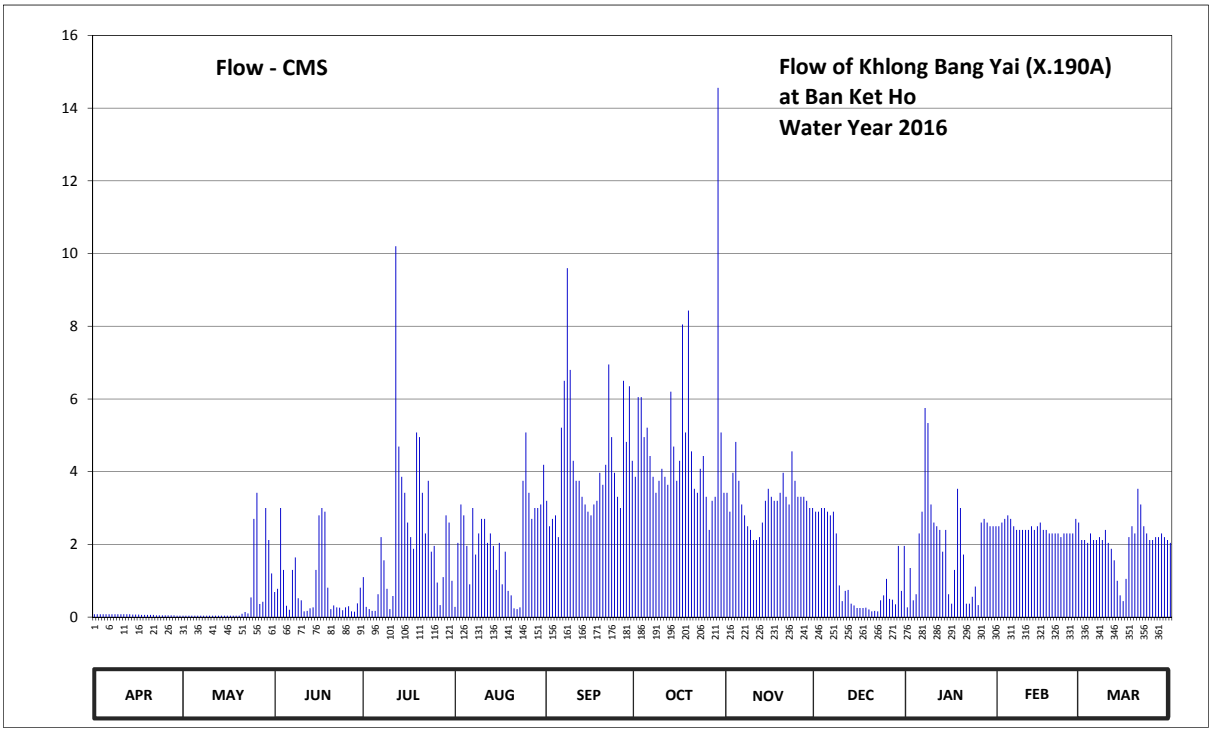
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.25	14.18	14.83	14.94	14.58	15.20	15.26	15.22	15.17	14.57	15.13	15.09	
2	14.25	14.18	14.86	14.58	15.08	15.13	15.43	15.17	15.17	14.99	15.14	15.09	
3	14.25	14.18	15.18	14.51	15.19	15.15	15.43	15.27	15.18	14.73	15.15	15.08	
4	14.25	14.18	14.98	14.43	15.16	15.16	15.35	15.34	15.18	14.81	15.16	15.11	
5	14.25	14.18	14.61	14.43	15.07	15.10	15.37	15.25	15.17	15.11	15.15	15.09	
6	14.25	14.18	14.48	14.81	14.90	15.37	15.31	15.19	15.16	15.17	15.13	15.09	
7	14.25	14.18	14.98	15.10	15.18	15.46	15.26	15.16	15.17	15.41	15.12	15.10	
8	14.25	14.18	15.03	15.02	15.04	15.63	15.22	15.13	15.11	15.38	15.12	15.09	
9	14.25	14.18	14.76	14.86	15.11	15.48	15.25	15.12	14.89	15.19	15.12	15.12	
10	14.25	14.18	14.73	14.51	15.15	15.30	15.28	15.09	14.72	15.14	15.12	15.08	
11	14.25	14.18	14.42	14.79	15.15	15.25	15.26	15.09	14.84	15.13	15.12	15.06	
12	14.25	14.18	14.43	15.66	15.08	15.25	15.24	15.10	14.85	15.12	15.13	15.02	
13	14.25	14.18	14.53	15.33	15.11	15.21	15.44	15.14	14.67	15.05	15.12	14.92	
14	14.24	14.18	14.57	15.26	15.07	15.19	15.33	15.20	14.62	15.12	15.13	14.80	
15	14.24	14.19	14.98	15.22	14.98	15.17	15.25	15.23	14.55	14.81	15.14	14.72	
16	14.24	14.19	15.16	15.14	15.08	15.16	15.30	15.21	14.55	14.67	15.12	14.93	
17	14.23	14.18	15.18	15.10	14.90	15.19	15.55	15.20	14.55	14.98	15.12	15.10	
18	14.23	14.18	15.17	15.06	15.05	15.20	15.36	15.20	14.56	15.23	15.11	15.13	
19	14.22	14.19	14.87	15.36	14.84	15.27	15.57	15.22	14.50	15.18	15.11	15.11	
20	14.22	14.19	14.51	15.35	14.80	15.24	15.32	15.27	14.42	15.04	15.11	15.23	
21	14.22	14.28	14.62	15.22	14.53	15.29	15.23	15.21	14.44	14.67	15.11	15.19	
22	14.21	14.37	14.57	15.11	14.51	15.49	15.22	15.19	14.41	14.67	15.10	15.13	
23	14.21	14.30	14.56	15.25	14.57	15.35	15.28	15.32	14.73	14.78	15.11	15.11	
24	14.21	14.77	14.47	15.05	15.25	15.27	15.31	15.25	14.80	14.88	15.11	15.09	
25	14.20	15.15	14.57	15.07	15.36	15.21	15.21	15.21	14.93	14.63	15.11	15.09	
26	14.20	15.22	14.60	14.91	15.22	15.18	15.12	15.21	14.75	15.14	15.11	15.10	
27	14.20	14.66	14.41	14.63	15.15	15.46	15.20	15.21	14.74	15.15	15.15	15.10	
28	14.20	14.71	14.40	14.94	15.18	15.34	15.21	15.20	14.65	15.14	15.14	15.11	
29	14.19	15.18	14.68	15.16	15.18	15.45	15.84	15.18	15.07	15.13		15.10	
30	14.19	15.09	14.87	15.14	15.19	15.30	15.36	15.18	14.84	15.13		15.09	
31		14.96		14.92	15.29		15.22		15.07	15.13		15.08	
Mean	14.23	14.40	14.73	15.00	15.03	15.28	15.32	15.20	14.82	15.01	15.12	15.07	
Max	14.25	15.22	15.18	15.66	15.36	15.63	15.84	15.34	15.18	15.41	15.16	15.23	15.84
Min	14.19	14.18	14.40	14.43	14.51	15.10	15.12	15.09	14.41	14.57	15.10	14.72	14.18

Annual Max Momentary Gage Height 16.72 m. (MSL.) , at 04.00 Hours , on Oct 29 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 13.73 m. (MSL.)

Left Bank Elevation 17.54 m. (MSL.) ,

Right Bank Elevation 17.57 m. (MSL.) , Drainage Are 28 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.04	0.69	1.10	0.28	3.20	3.86	3.42	2.90	0.27	2.50	2.12	
2	0.08	0.04	0.78	0.28	2.04	2.50	6.05	2.90	2.90	1.35	2.60	2.12	
3	0.08	0.04	3.00	0.22	3.10	2.70	6.05	3.97	3.00	0.46	2.70	2.04	
4	0.08	0.04	1.30	0.17	2.80	2.80	4.95	4.82	3.00	0.63	2.80	2.30	
5	0.08	0.04	0.31	0.17	1.96	2.20	5.21	3.75	2.90	2.30	2.70	2.12	
6	0.08	0.04	0.20	0.63	0.90	5.21	4.43	3.10	2.80	2.90	2.50	2.12	
7	0.08	0.04	1.30	2.20	3.00	6.50	3.86	2.80	2.90	5.75	2.40	2.20	
8	0.08	0.04	1.64	1.56	1.72	9.60	3.42	2.50	2.30	5.34	2.40	2.12	
9	0.08	0.04	0.52	0.78	2.30	6.80	3.75	2.40	0.87	3.10	2.40	2.40	
10	0.08	0.04	0.46	0.22	2.70	4.30	4.08	2.12	0.44	2.60	2.40	2.04	
11	0.08	0.04	0.16	0.58	2.70	3.75	3.86	2.12	0.72	2.50	2.40	1.88	
12	0.08	0.04	0.17	10.20	2.04	3.75	3.64	2.20	0.75	2.40	2.50	1.56	
13	0.08	0.04	0.24	4.69	2.30	3.31	6.20	2.60	0.37	1.80	2.40	1.00	
14	0.07	0.04	0.27	3.86	1.96	3.10	4.69	3.20	0.32	2.40	2.50	0.60	
15	0.07	0.04	1.30	3.42	1.30	2.90	3.75	3.53	0.25	0.63	2.60	0.44	
16	0.07	0.04	2.80	2.60	2.04	2.80	4.30	3.31	0.25	0.37	2.40	1.05	
17	0.06	0.04	3.00	2.20	0.90	3.10	8.05	3.20	0.25	1.30	2.40	2.20	
18	0.06	0.04	2.90	1.88	1.80	3.20	5.08	3.20	0.26	3.53	2.30	2.50	
19	0.06	0.04	0.81	5.08	0.72	3.97	8.43	3.42	0.21	3.00	2.30	2.30	
20	0.06	0.04	0.22	4.95	0.60	3.64	4.56	3.97	0.16	1.72	2.30	3.53	
21	0.06	0.09	0.32	3.42	0.24	4.19	3.53	3.31	0.17	0.37	2.30	3.10	
22	0.05	0.14	0.27	2.30	0.22	6.95	3.42	3.10	0.16	0.37	2.20	2.50	
23	0.05	0.10	0.26	3.75	0.27	4.95	4.08	4.56	0.46	0.56	2.30	2.30	
24	0.05	0.54	0.19	1.80	3.75	3.97	4.43	3.75	0.60	0.84	2.30	2.12	
25	0.05	2.70	0.27	1.96	5.08	3.31	3.31	3.31	1.05	0.33	2.30	2.12	
26	0.05	3.42	0.30	0.95	3.42	3.00	2.40	3.31	0.50	2.60	2.30	2.20	
27	0.05	0.36	0.16	0.33	2.70	6.50	3.20	3.31	0.48	2.70	2.70	2.20	
28	0.05	0.42	0.15	1.10	3.00	4.82	3.31	3.20	0.35	2.60	2.60	2.30	
29	0.04	3.00	0.38	2.80	3.00	6.35	14.56	3.00	1.96	2.50		2.20	
30	0.04	2.12	0.81	2.60	3.10	4.30	5.08	3.00	0.72	2.50		2.12	
31		1.20		1.00	4.19		3.42		1.96	2.50		2.04	
Total	1.98	14.89	25.18	68.80	66.13	127.67	148.96	96.38	35.96	62.22	68.50	63.84	780.51	CMSDAY
Mean	0.07	0.48	0.84	2.22	2.13	4.26	4.81	3.21	1.16	2.01	2.45	2.06	2.14	CMS
Max	0.08	3.42	3.00	10.20	5.08	9.60	14.56	4.82	3.00	5.75	2.80	3.53	14.56	CMS
Min	0.04	0.04	0.15	0.17	0.22	2.20	2.40	2.12	0.16	0.27	2.20	0.44	0.04	CMS
Runoff	0.17	1.29	2.18	5.94	5.71	11.03	12.87	8.33	3.11	5.38	5.92	5.52	67.44	MCM

Momentary Peak 73.00 CMS. at 16.72 m. (MSL.) at 04.00 Hours , on Oct 29 , 2016

Runoff Yield 76.37 Liters/Second/Square KM. Momentary Peak Yield 2607.140 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

Lat 07 - 53 - 20 N Long 98 - 23 - 40 E

Location : on left bank at Satree Phuket School.

	Ban -	**Amphoe** Mueang	**Changwat** Phuket
Drainge Area	54 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 8 meters from the top staff gage.	**Elevation**	+4.964 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

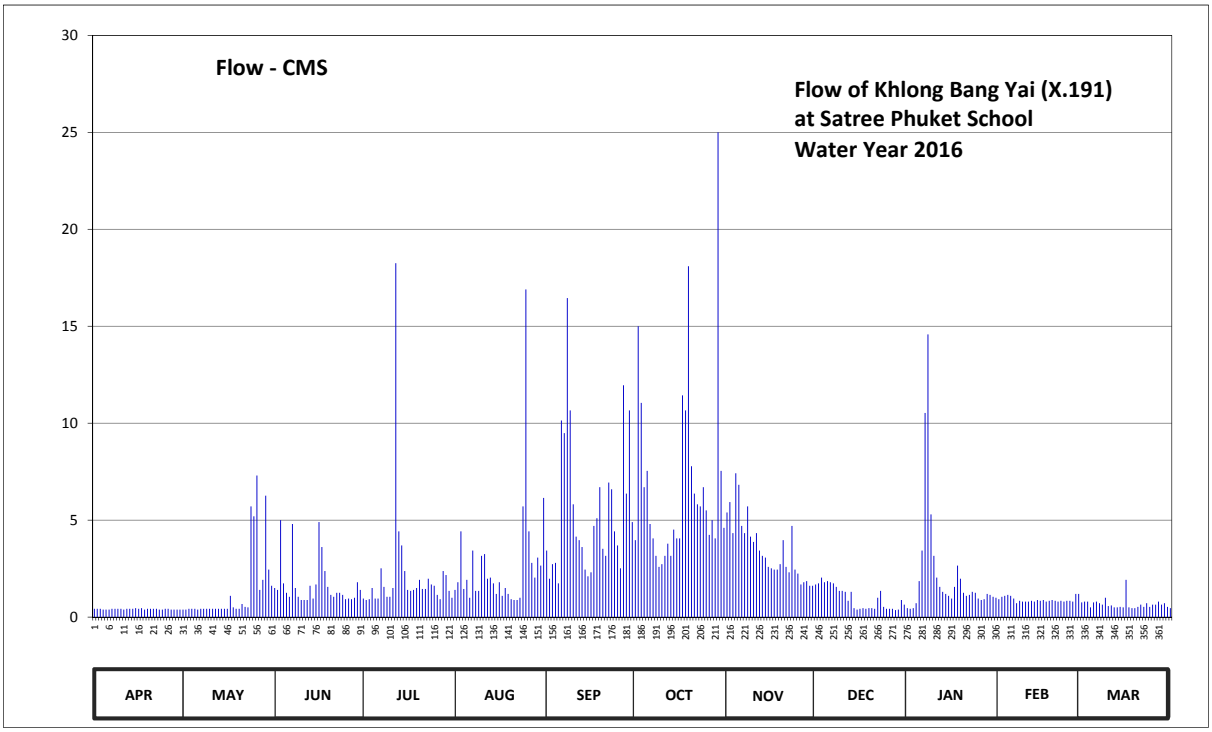
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.44	1.70	1.59	1.68	1.97	2.03	2.18	1.73	1.46	1.58	1.54	
2	1.45	1.44	1.68	1.57	1.75	1.78	2.95	2.23	1.74	1.45	1.61	1.55	
3	1.45	1.45	2.14	1.58	2.08	1.89	2.65	2.07	1.79	1.46	1.62	1.55	
4	1.44	1.45	1.74	1.70	1.69	1.90	2.30	2.36	1.75	1.53	1.63	1.47	
5	1.44	1.45	1.65	1.59	1.77	1.74	2.37	2.31	1.76	1.76	1.62	1.54	
6	1.44	1.44	1.61	1.59	1.60	2.58	2.12	2.11	1.75	1.97	1.59	1.55	
7	1.45	1.45	2.12	1.86	1.97	2.53	2.04	2.07	1.74	2.61	1.53	1.53	
8	1.45	1.45	1.70	1.71	1.67	3.05	1.94	2.21	1.71	2.92	1.56	1.51	
9	1.45	1.45	1.61	1.61	1.67	2.62	1.87	2.05	1.67	2.17	1.55	1.60	
10	1.45	1.45	1.57	1.61	1.94	2.22	1.89	2.02	1.67	1.94	1.55	1.49	
11	1.44	1.45	1.57	1.70	1.95	2.05	1.94	2.07	1.66	1.79	1.55	1.50	
12	1.45	1.45	1.57	3.17	1.78	2.03	2.01	1.97	1.56	1.71	1.56	1.47	
13	1.45	1.45	1.72	2.08	1.79	1.99	1.94	1.94	1.66	1.66	1.55	1.47	
14	1.45	1.45	1.59	2.00	1.74	1.85	2.09	1.93	1.46	1.64	1.57	1.48	
15	1.46	1.45	1.73	1.84	1.64	1.80	2.04	1.87	1.44	1.62	1.56	1.47	
16	1.45	1.45	2.13	1.68	1.75	1.83	2.04	1.86	1.45	1.59	1.57	1.77	
17	1.46	1.62	1.99	1.67	1.62	2.11	2.68	1.85	1.46	1.71	1.55	1.47	
18	1.44	1.47	1.84	1.68	1.70	2.15	2.62	1.85	1.45	1.88	1.56	1.46	
19	1.45	1.45	1.71	1.70	1.64	2.30	3.16	1.89	1.46	1.78	1.57	1.46	
20	1.45	1.45	1.63	1.77	1.58	1.98	2.39	2.03	1.46	1.65	1.56	1.48	
21	1.45	1.52	1.61	1.69	1.57	1.94	2.27	1.87	1.45	1.62	1.55	1.51	
22	1.45	1.48	1.65	1.69	1.57	2.32	2.22	1.83	1.60	1.63	1.56	1.48	
23	1.44	1.47	1.65	1.78	1.60	2.29	2.21	2.11	1.67	1.66	1.55	1.53	
24	1.44	2.21	1.63	1.73	2.21	2.08	2.30	1.85	1.48	1.65	1.56	1.48	
25	1.45	2.16	1.58	1.72	3.08	2.00	2.19	1.82	1.45	1.59	1.56	1.51	
26	1.45	2.35	1.59	1.63	2.08	1.86	2.06	1.73	1.45	1.57	1.55	1.51	
27	1.44	1.68	1.58	1.58	1.90	2.72	2.14	1.75	1.45	1.58	1.64	1.55	
28	1.44	1.77	1.60	1.84	1.79	2.27	2.04	1.76	1.43	1.64	1.64	1.51	
29	1.44	2.26	1.75	1.81	1.93	2.62	3.62	1.72	1.44	1.63		1.53	
30	1.44	1.85	1.68	1.67	1.88	2.13	2.37	1.72	1.57	1.61		1.48	
31		1.72		1.60	2.25		2.10		1.51	1.60		1.46	
Mean	1.45	1.60	1.71	1.76	1.83	2.15	2.28	1.97	1.58	1.74	1.57	1.51	
Max	1.46	2.35	2.14	3.17	3.08	3.05	3.62	2.36	1.79	2.92	1.64	1.77	3.62
Min	1.44	1.44	1.57	1.57	1.57	1.74	1.87	1.72	1.43	1.45	1.53	1.46	1.43

Annual Max Momentary Gage Height 4.35 m. (MSL.) , at 06.00 Hours , on Oct 29 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.11 m. (MSL.)

Left Bank Elevation 4.70 m. (MSL.) ,

Right Bank Elevation 4.71 m. (MSL.) , Drainage Are 54 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.39	1.50	0.96	1.40	3.43	3.97	5.40	1.68	0.46	0.92	0.76	
2	0.43	0.39	1.40	0.88	1.80	1.98	15.00	5.93	1.74	0.43	1.05	0.80	
3	0.43	0.43	5.00	0.92	4.42	2.73	11.05	4.33	2.04	0.46	1.10	0.80	
4	0.39	0.43	1.74	1.50	1.45	2.80	6.70	7.42	1.80	0.72	1.15	0.50	
5	0.39	0.43	1.25	0.96	1.92	1.74	7.54	6.82	1.86	1.86	1.10	0.76	
6	0.39	0.39	1.05	0.96	1.00	10.14	4.80	4.70	1.80	3.43	0.96	0.80	
7	0.43	0.43	4.80	2.52	3.43	9.49	4.06	4.33	1.74	10.53	0.72	0.72	
8	0.43	0.43	1.50	1.56	1.35	16.45	3.16	5.71	1.56	14.58	0.84	0.64	
9	0.43	0.43	1.05	1.05	1.35	10.66	2.59	4.15	1.35	5.30	0.80	1.00	
10	0.43	0.43	0.88	1.05	3.16	5.82	2.73	3.88	1.35	3.16	0.80	0.57	
11	0.39	0.43	0.88	1.50	3.25	4.15	3.16	4.33	1.30	2.04	0.80	0.60	
12	0.43	0.43	0.88	18.25	1.98	3.97	3.79	3.43	0.84	1.56	0.84	0.50	
13	0.43	0.43	1.62	4.42	2.04	3.61	3.16	3.16	1.30	1.30	0.80	0.50	
14	0.43	0.43	0.96	3.70	1.74	2.45	4.51	3.07	0.46	1.20	0.88	0.53	
15	0.46	0.43	1.68	2.38	1.20	2.10	4.06	2.59	0.39	1.10	0.84	0.50	
16	0.43	0.43	4.90	1.40	1.80	2.31	4.06	2.52	0.43	0.96	0.88	1.92	
17	0.46	1.10	3.61	1.35	1.10	4.70	11.44	2.45	0.46	1.56	0.80	0.50	
18	0.39	0.50	2.38	1.40	1.50	5.10	10.66	2.45	0.43	2.66	0.84	0.46	
19	0.43	0.43	1.56	1.50	1.20	6.70	18.10	2.73	0.46	1.98	0.88	0.46	
20	0.43	0.43	1.15	1.92	0.92	3.52	7.78	3.97	0.46	1.25	0.84	0.53	
21	0.43	0.68	1.05	1.45	0.88	3.16	6.37	2.59	0.43	1.10	0.80	0.64	
22	0.43	0.53	1.25	1.45	0.88	6.94	5.82	2.31	1.00	1.15	0.84	0.53	
23	0.39	0.50	1.25	1.98	1.00	6.59	5.71	4.70	1.35	1.30	0.80	0.72	
24	0.39	5.71	1.15	1.68	5.71	4.42	6.70	2.45	0.53	1.25	0.84	0.53	
25	0.43	5.20	0.92	1.62	16.90	3.70	5.50	2.24	0.43	0.96	0.84	0.64	
26	0.43	7.30	0.96	1.15	4.42	2.52	4.24	1.68	0.43	0.88	0.80	0.64	
27	0.39	1.40	0.92	0.92	2.80	11.96	5.00	1.80	0.43	0.92	1.20	0.80	
28	0.39	1.92	1.00	2.38	2.04	6.37	4.06	1.86	0.36	1.20	1.20	0.64	
29	0.39	6.26	1.80	2.17	3.07	10.66	25.00	1.62	0.39	1.15		0.72	
30	0.39	2.45	1.40	1.35	2.66	4.90	7.54	1.62	0.88	1.05		0.53	
31		1.62		1.00	6.15		4.60		0.64	1.00		0.46	
Total	12.52	42.79	51.49	67.33	84.52	165.07	212.86	106.24	30.32	68.50	25.16	20.70	887.50	CMSDAY
Mean	0.42	1.38	1.72	2.17	2.73	5.50	6.87	3.54	0.98	2.21	0.90	0.67	2.43	CMS
Max	0.46	7.30	5.00	18.25	16.90	16.45	25.00	7.42	2.04	14.58	1.20	1.92	25.00	CMS
Min	0.39	0.39	0.88	0.88	0.88	1.74	2.59	1.62	0.36	0.43	0.72	0.46	0.36	CMS
Runoff	1.08	3.70	4.45	5.82	7.30	14.26	18.39	9.18	2.62	5.92	2.17	1.79	76.68	MCM

Momentary Peak 36.65 CMS. at 4.35 m. (MSL.) at 06.00 Hours , on Oct 29 , 2016

Runoff Yield 44.98 Liters/Second/Square KM. Momentary Peak Yield 677.950 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Kapong at Ban Tha Na , Phang Nga (X.196)

Lat 08 - 42 - 02 N Long 98 - 24 - 42 E

Location : on left bank at the bridge.

	Ban Tha Na **Amphoe** Kapong **Changwat** Phang Nga
Drainge Area	139 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the top staff gage. **Elevation** +20.086 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Flot	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 17.450 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

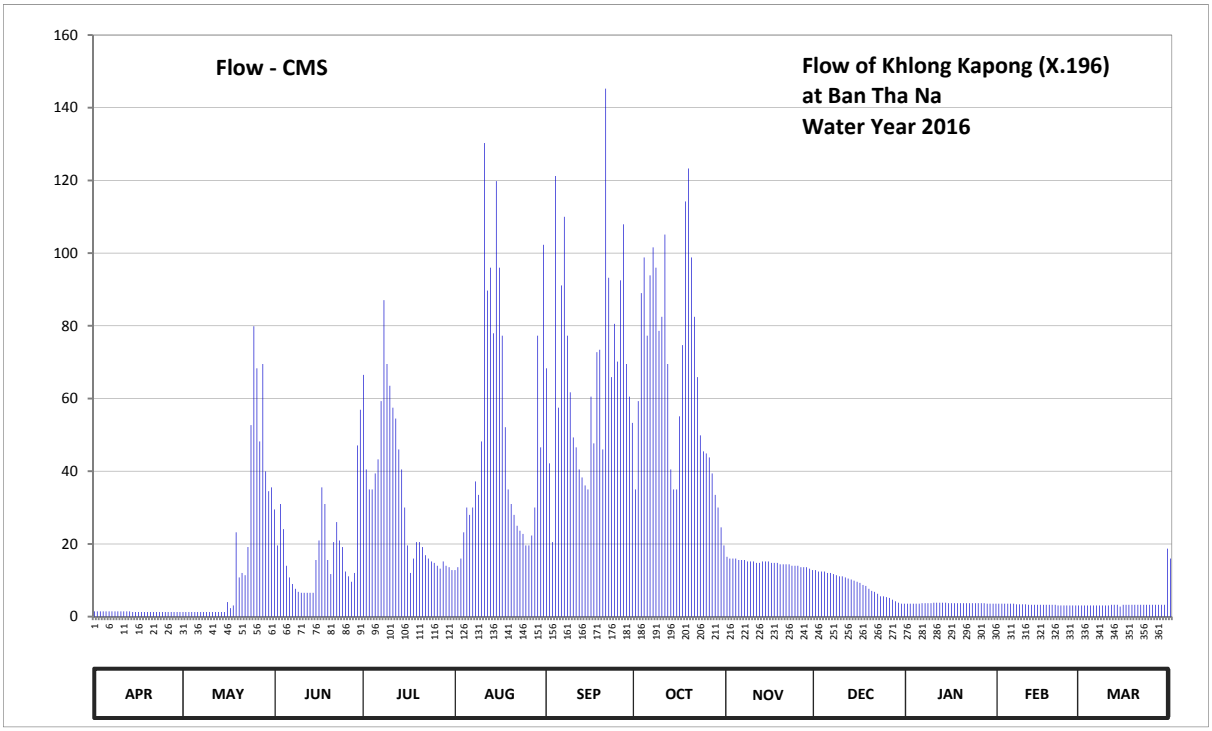
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.03	15.02	15.89	16.55	15.52	16.58	16.00	15.61	15.52	15.17	15.17	15.14	
2	15.03	15.02	15.68	16.10	15.54	16.13	16.43	15.60	15.51	15.17	15.17	15.14	
3	15.03	15.02	15.92	16.00	15.60	15.70	16.90	15.60	15.51	15.17	15.17	15.14	
4	15.03	15.02	15.78	16.00	15.76	17.36	17.04	15.60	15.51	15.17	15.17	15.14	
5	15.03	15.02	15.55	16.08	15.90	16.40	16.72	15.59	15.50	15.17	15.17	15.14	
6	15.03	15.02	15.46	16.15	15.86	16.93	16.97	15.59	15.50	15.18	15.17	15.14	
7	15.03	15.02	15.40	16.43	15.90	17.20	17.08	15.59	15.49	15.18	15.16	15.14	
8	15.03	15.02	15.35	16.87	16.04	16.72	17.00	15.58	15.48	15.18	15.16	15.14	
9	15.03	15.02	15.32	16.60	15.97	16.47	16.74	15.58	15.47	15.18	15.16	15.14	
10	15.03	15.02	15.31	16.50	16.24	16.26	16.80	15.58	15.47	15.19	15.16	15.14	
11	15.03	15.02	15.31	16.40	17.49	16.21	17.13	15.57	15.46	15.19	15.15	15.15	
12	15.03	15.02	15.31	16.35	16.91	16.10	16.60	15.57	15.45	15.19	15.15	15.15	
13	15.03	15.02	15.31	16.20	17.00	16.06	16.10	15.58	15.44	15.19	15.15	15.15	
14	15.02	15.02	15.31	16.10	16.73	16.02	16.00	15.58	15.43	15.19	15.15	15.12	
15	15.02	15.02	15.59	15.90	17.34	16.00	16.00	15.58	15.42	15.18	15.15	15.15	
16	15.02	15.20	15.71	15.68	17.00	16.45	16.36	15.57	15.41	15.18	15.15	15.15	
17	15.02	15.09	16.01	15.50	16.72	16.23	16.68	15.57	15.39	15.18	15.15	15.15	
18	15.02	15.14	15.92	15.60	16.31	16.65	17.26	15.57	15.38	15.18	15.15	15.15	
19	15.02	15.76	15.59	15.70	16.00	16.66	17.39	15.56	15.35	15.18	15.15	15.15	
20	15.02	15.46	15.49	15.70	15.92	16.20	17.04	15.56	15.33	15.18	15.15	15.15	
21	15.02	15.50	15.70	15.67	15.86	17.69	16.80	15.56	15.32	15.18	15.14	15.15	
22	15.02	15.48	15.82	15.62	15.80	16.96	16.54	15.56	15.30	15.18	15.14	15.15	
23	15.02	15.67	15.71	15.60	15.77	16.54	16.27	15.55	15.27	15.18	15.14	15.15	
24	15.02	16.32	15.67	15.58	15.75	16.77	16.19	15.55	15.27	15.18	15.14	15.15	
25	15.02	16.76	15.51	15.57	15.68	16.61	16.18	15.55	15.26	15.18	15.14	15.15	
26	15.02	16.58	15.47	15.55	15.68	16.95	16.16	15.54	15.25	15.18	15.14	15.15	
27	15.02	16.24	15.42	15.53	15.74	17.17	16.08	15.54	15.23	15.18	15.14	15.15	
28	15.02	16.60	15.50	15.58	15.90	16.60	15.97	15.54	15.21	15.17	15.14	15.15	
29	15.02	16.09	16.22	15.55	16.72	16.45	15.90	15.53	15.19	15.17		15.15	
30	15.02	15.99	16.39	15.54	16.21	16.33	15.79	15.52	15.17	15.17		15.66	
31		16.01		15.52	17.09		15.68		15.17	15.17		15.60	
Mean	15.02	15.46	15.62	15.93	16.19	16.55	16.51	15.57	15.38	15.18	15.15	15.18	
Max	15.03	16.76	16.39	16.87	17.49	17.69	17.39	15.61	15.52	15.19	15.17	15.66	17.69
Min	15.02	15.02	15.31	15.50	15.52	15.70	15.68	15.52	15.17	15.17	15.14	15.12	15.02

Annual Max Momentary Gage Height 18.00 m. (MSL.) , at 12.00 Hours , on Sep 4 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 13.74 m. (MSL)

Left Bank Elevation 17.44 m. (MSL.) ,

Right Bank Elevation 17.92 m. (MSL.) , Drainage Are 139 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.30	29.50	66.50	12.80	68.30	35.00	16.45	12.80	3.55	3.55	3.10	
2	1.45	1.30	19.60	40.50	13.60	42.15	59.30	16.00	12.40	3.55	3.55	3.10	
3	1.45	1.30	31.00	35.00	16.00	20.50	89.00	16.00	12.40	3.55	3.55	3.10	
4	1.45	1.30	24.10	35.00	23.20	121.20	98.80	16.00	12.40	3.55	3.55	3.10	
5	1.45	1.30	14.00	39.40	30.00	57.50	77.30	15.60	12.00	3.55	3.55	3.10	
6	1.45	1.30	10.80	43.25	28.00	91.10	93.90	15.60	12.00	3.70	3.55	3.10	
7	1.45	1.30	9.00	59.30	30.00	110.00	101.60	15.60	11.70	3.70	3.40	3.10	
8	1.45	1.30	7.65	87.05	37.20	77.30	96.00	15.20	11.40	3.70	3.40	3.10	
9	1.45	1.30	6.84	69.50	33.50	61.70	78.60	15.20	11.10	3.70	3.40	3.10	
10	1.45	1.30	6.57	63.50	48.20	49.30	82.50	15.20	11.10	3.85	3.40	3.10	
11	1.45	1.30	6.57	57.50	130.30	46.55	105.10	14.80	10.80	3.85	3.25	3.25	
12	1.45	1.30	6.57	54.50	89.70	40.50	69.50	14.80	10.50	3.85	3.25	3.25	
13	1.45	1.30	6.57	46.00	96.00	38.30	40.50	15.20	10.20	3.85	3.25	3.25	
14	1.30	1.30	6.57	40.50	77.95	36.10	35.00	15.20	9.90	3.85	3.25	2.80	
15	1.30	1.30	15.60	30.00	119.80	35.00	35.00	15.20	9.60	3.70	3.25	3.25	
16	1.30	4.00	20.95	19.60	96.00	60.50	55.10	14.80	9.30	3.70	3.25	3.25	
17	1.30	2.35	35.55	12.00	77.30	47.65	74.70	14.80	8.73	3.70	3.25	3.25	
18	1.30	3.10	31.00	16.00	52.10	72.75	114.20	14.80	8.46	3.70	3.25	3.25	
19	1.30	23.20	15.60	20.50	35.00	73.40	123.30	14.40	7.65	3.70	3.25	3.25	
20	1.30	10.80	11.70	20.50	31.00	46.00	98.80	14.40	7.11	3.70	3.25	3.25	
21	1.30	12.00	20.50	19.15	28.00	145.25	82.50	14.40	6.84	3.70	3.10	3.25	
22	1.30	11.40	26.00	16.90	25.00	93.20	65.90	14.40	6.30	3.70	3.10	3.25	
23	1.30	19.15	20.95	16.00	23.65	65.90	49.85	14.00	5.61	3.70	3.10	3.25	
24	1.30	52.70	19.15	15.20	22.75	80.55	45.45	14.00	5.61	3.70	3.10	3.25	
25	1.30	79.90	12.40	14.80	19.60	70.15	44.90	14.00	5.38	3.70	3.10	3.25	
26	1.30	68.30	11.10	14.00	19.60	92.50	43.80	13.60	5.15	3.70	3.10	3.25	
27	1.30	48.20	9.60	13.20	22.30	107.90	39.40	13.60	4.69	3.70	3.10	3.25	
28	1.30	69.50	12.00	15.20	30.00	69.50	33.50	13.60	4.23	3.55	3.10	3.25	
29	1.30	39.95	47.10	14.00	77.30	60.50	30.00	13.20	3.85	3.55		3.25	
30	1.30	34.50	56.90	13.60	46.55	53.30	24.55	12.80	3.55	3.55		18.70	
31		35.55		12.80	102.30		19.60		3.55	3.55		16.00	
Total	40.95	534.10	551.44	1020.95	1494.70	2034.55	2042.65	442.85	266.31	114.10	92.20	127.00	8761.80 CMSDAY
Mean	1.36	17.23	18.38	32.93	48.22	67.82	65.89	14.76	8.59	3.68	3.29	4.10	24.00 CMS
Max	1.45	79.90	56.90	87.05	130.30	145.25	123.30	16.45	12.80	3.85	3.55	18.70	145.25 CMS
Min	1.30	1.30	6.57	12.00	12.80	20.50	19.60	12.80	3.55	3.55	3.10	2.80	1.30 CMS
Runoff	3.54	46.15	47.64	88.21	129.14	175.79	176.48	38.26	23.01	9.86	7.97	10.97	757.02 MCM

Momentary Peak 169.00 CMS. at 18.00 m. (MSL.) at 12.00 Hours , on Sep 4 , 2016

Runoff Yield 172.70 Liters/Second/Square KM. Momentary Peak Yield 1215.830 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Trang River at Ban Klang , Trang (X.228)

Lat 07 - 38 - 45 N Long 99 - 31 - 59 E

Location : on left bank at Ban Klang.

	Ban Klang	**Amphoe** Mueang	**Changwat** Trang
Drainge Area	1,374 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	**Elevation**	+11.741 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 9.640 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

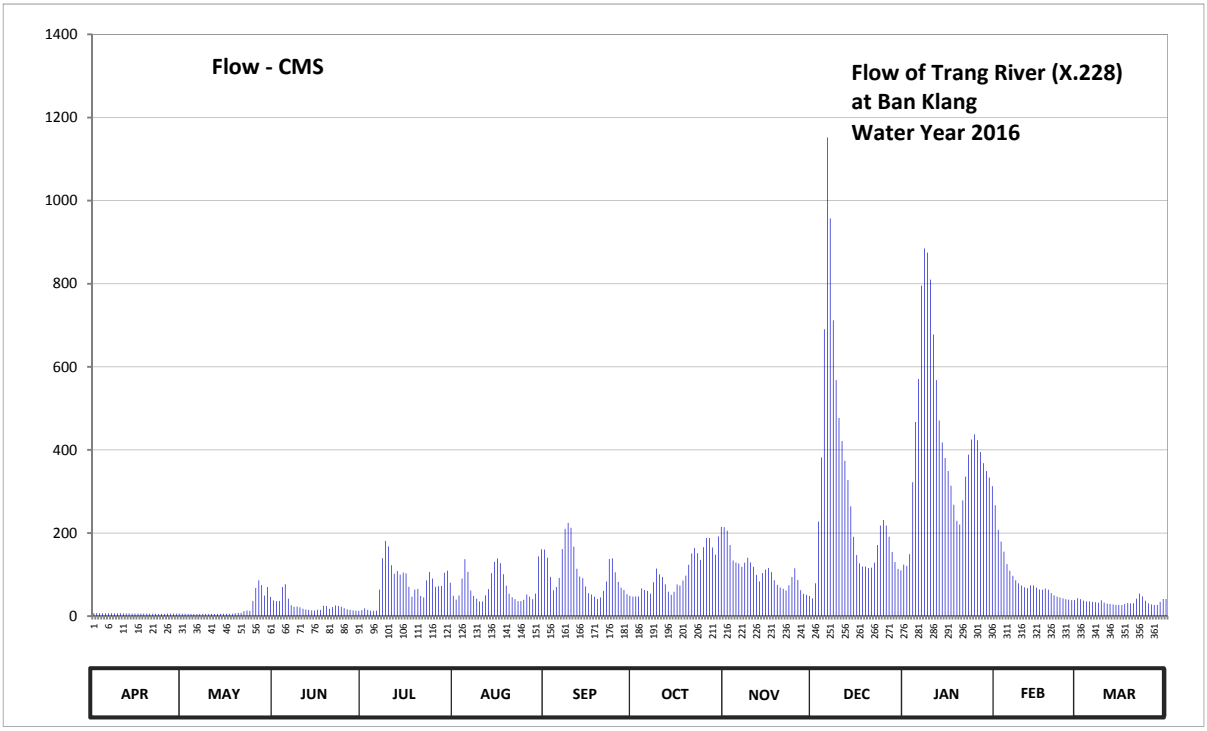
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.86	1.78	3.02	2.22	3.40	5.98	3.33	6.90	3.19	5.26	7.52	3.20	
2	1.86	1.78	2.96	2.39	3.09	5.59	3.34	6.78	4.15	5.20	6.81	3.12	
3	1.85	1.77	2.99	2.24	3.42	4.53	3.35	6.20	7.07	5.76	6.36	3.01	
4	1.84	1.76	3.93	2.16	4.43	3.73	3.84	5.46	8.45	8.02	5.88	2.95	
5	1.85	1.75	4.09	2.14	5.52	3.93	3.74	5.36	9.87	8.92	5.28	2.95	
6	1.84	1.75	3.17	2.15	4.84	4.48	3.70	5.31	10.74	9.41	4.90	2.91	
7	1.84	1.77	2.64	3.77	3.71	6.01	3.52	5.14	10.45	10.13	4.60	2.88	
8	1.83	1.77	2.51	5.57	3.38	6.84	4.22	5.35	9.93	10.31	4.33	2.85	
9	1.84	1.76	2.53	6.38	3.17	7.03	5.03	5.59	9.40	10.29	4.15	3.04	
10	1.84	1.76	2.47	6.14	2.95	6.88	4.69	5.37	8.97	10.16	4.02	2.85	
11	1.83	1.77	2.36	5.23	2.95	6.12	4.52	5.14	8.68	9.83	3.91	2.77	
12	1.83	1.75	2.29	4.73	3.43	5.02	4.09	4.66	8.40	9.40	3.86	2.74	
13	1.82	1.76	2.24	4.89	3.80	4.55	3.65	4.26	8.06	8.94	4.02	2.70	
14	1.81	1.76	2.19	4.67	4.76	4.46	3.45	4.76	7.49	8.66	4.02	2.67	
15	1.80	1.79	2.18	4.79	5.39	3.96	3.64	4.98	6.55	8.44	3.89	2.66	
16	1.80	1.79	2.26	4.74	5.56	3.55	4.08	5.07	5.72	8.23	3.77	2.65	
17	1.80	1.77	2.24	3.94	5.33	3.47	4.01	4.82	5.32	7.95	3.76	2.73	
18	1.80	1.79	2.60	3.32	4.70	3.33	4.31	4.33	5.16	7.53	3.83	2.82	
19	1.80	1.85	2.58	3.77	4.00	3.14	4.61	4.05	5.16	7.09	3.76	2.78	
20	1.79	1.89	2.36	3.81	3.52	3.27	5.25	3.90	5.06	6.98	3.56	2.80	
21	1.78	1.88	2.50	3.38	3.28	3.70	5.80	3.82	5.09	7.63	3.43	3.16	
22	1.78	2.10	2.62	3.27	3.13	4.26	6.06	3.71	5.35	8.13	3.33	3.53	
23	1.77	2.18	2.57	4.32	2.97	5.53	5.81	4.03	6.20	8.49	3.26	3.34	
24	1.76	2.13	2.52	4.83	2.97	5.56	5.48	4.52	6.95	8.70	3.19	3.00	
25	1.77	2.98	2.41	4.44	3.08	4.81	6.10	5.05	7.12	8.77	3.12	2.79	
26	1.80	3.87	2.30	3.94	3.47	4.23	6.50	4.35	6.95	8.69	3.09	2.70	
27	1.81	4.33	2.24	3.97	3.33	3.89	6.50	3.73	6.55	8.53	3.05	2.67	
28	1.80	4.04	2.19	3.98	3.12	3.75	6.08	3.51	5.87	8.36	3.05	2.67	
29	1.80	3.41	2.15	4.78	3.53	3.49	5.74	3.45	5.38	8.23		2.91	
30	1.80	3.93	2.14	4.91	5.65	3.40	6.56	3.38	5.01	8.11		3.14	
31		3.30		4.19	6.00		6.91		4.93	7.94		3.14	
Mean	1.81	2.25	2.58	4.03	3.93	4.62	4.77	4.77	6.88	8.33	4.21	2.91	
Max	1.86	4.33	4.09	6.38	6.00	7.03	6.91	6.90	10.74	10.31	7.52	3.53	10.74
Min	1.76	1.75	2.14	2.14	2.95	3.14	3.33	3.38	3.19	5.20	3.05	2.65	1.75

Annual Max Momentary Gage Height 10.81 m. (MSL.) , at 12.00 Hours , on Dec 6 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.13 m. (MSL.)

Left Bank Elevation 9.63 m. (MSL.) ,

Right Bank Elevation 9.67 m. (MSL.) , Drainage Are 1,374 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.20	5.60	37.60	14.40	49.00	160.00	46.90	214.00	42.70	124.00	267.00	43.00	
2	7.20	5.60	35.80	18.70	39.70	140.50	47.20	205.60	79.00	121.00	207.70	40.60	
3	7.00	5.40	36.70	14.80	49.80	94.20	47.50	171.00	227.60	149.00	179.60	37.30	
4	6.80	5.20	70.20	13.20	90.20	62.20	66.60	134.00	382.00	322.40	155.00	35.50	
5	7.00	5.00	76.60	12.80	137.00	70.20	62.60	129.00	690.40	467.00	125.00	35.50	
6	6.80	5.00	42.10	13.00	106.60	92.20	61.00	126.50	1152.00	570.50	109.00	34.30	
7	6.80	5.40	26.20	63.80	61.40	161.50	53.80	118.60	957.50	795.00	97.00	33.40	
8	6.60	5.40	22.30	139.50	48.40	209.80	81.80	128.50	712.00	885.00	86.20	32.50	
9	6.80	5.20	22.90	180.80	42.10	224.40	114.20	140.50	568.00	875.00	79.00	38.20	
10	6.80	5.20	21.10	168.00	35.50	212.60	100.60	129.50	477.00	810.00	73.80	32.50	
11	6.60	5.40	17.80	122.50	35.50	167.00	93.80	118.60	421.40	677.60	69.40	30.10	
12	6.60	5.00	15.80	102.20	50.20	113.80	76.60	99.40	374.00	568.00	67.40	29.20	
13	6.40	5.20	14.80	108.60	65.00	95.00	59.00	83.40	327.20	471.00	73.80	28.00	
14	6.20	5.20	13.80	99.80	103.40	91.40	51.00	103.40	264.00	417.80	73.80	27.10	
15	6.00	5.80	13.60	104.60	130.50	71.40	58.60	112.20	191.00	380.40	68.60	26.80	
16	6.00	5.80	15.20	102.60	139.00	55.00	76.20	115.80	147.00	349.20	63.80	26.50	
17	6.00	5.40	14.80	70.60	127.50	51.80	73.40	105.80	127.00	314.00	63.40	28.90	
18	6.00	5.80	25.00	46.60	101.00	46.90	85.40	86.20	119.40	268.00	66.20	31.60	
19	6.00	7.00	24.40	63.80	73.00	41.20	97.40	75.00	119.40	229.20	63.40	30.40	
20	5.80	7.80	17.80	65.40	53.80	45.10	123.50	69.00	115.40	220.40	55.40	31.00	
21	5.60	7.60	22.00	48.40	45.40	61.00	151.00	65.80	116.60	278.30	50.20	41.80	
22	5.60	12.00	25.60	45.10	40.90	83.40	164.00	61.40	128.50	335.90	46.90	54.20	
23	5.40	13.60	24.10	85.80	36.10	137.50	151.50	74.20	171.00	388.40	44.80	47.20	
24	5.20	12.60	22.60	106.20	36.10	139.00	135.00	93.80	218.00	425.00	42.70	37.00	
25	5.40	36.40	19.30	90.60	39.40	105.40	166.00	115.00	231.60	437.60	40.60	30.70	
26	6.00	67.80	16.00	70.60	51.80	82.20	188.00	87.00	218.00	423.20	39.70	28.00	
27	6.20	86.20	14.80	71.80	46.90	68.60	188.00	62.20	191.00	395.10	38.50	27.10	
28	6.00	74.60	13.80	72.20	40.60	63.00	165.00	53.40	154.50	368.00	38.50	27.10	
29	6.00	49.40	13.00	104.20	54.20	52.60	148.00	51.00	130.00	349.20		34.30	
30	6.00	70.20	12.80	109.40	143.50	49.00	191.60	48.40	113.40	333.30		41.20	
31		46.00		80.60	161.00		214.80		110.20	312.80		41.20	
Total	188.00	587.80	748.50	2410.60	2234.50	3047.90	3340.00	3178.20	9276.80	13061.30	2386.40	1062.20	41522.20 CMSDAY
Mean	6.27	18.96	24.95	77.76	72.08	101.60	107.74	105.94	299.25	421.33	85.23	34.26	113.76 CMS
Max	7.20	86.20	76.60	180.80	161.00	224.40	214.80	214.00	1152.00	885.00	267.00	54.20	1152.00 CMS
Min	5.20	5.00	12.80	12.80	35.50	41.20	46.90	48.40	42.70	121.00	38.50	26.50	5.00 CMS
Runoff	16.24	50.79	64.67	208.28	193.06	263.34	288.58	274.60	801.52	1128.50	206.18	91.77	3587.52 MCM

Momentary Peak 1209.00 CMS. at 10.81 m. (MSL.) at 12.00 Hours , on Dec 6 , 2016

Runoff Yield 82.79 Liters/Second/Square KM. Momentary Peak Yield 879.910 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

Location : on right bank at Ban Yan Ta Khaow.

	Ban Yan Ta Khaow	**Amphoe** Yan Ta Khaow	**Changwat** Trang
Drainge Area	587 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	**Elevation**	+5.628 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

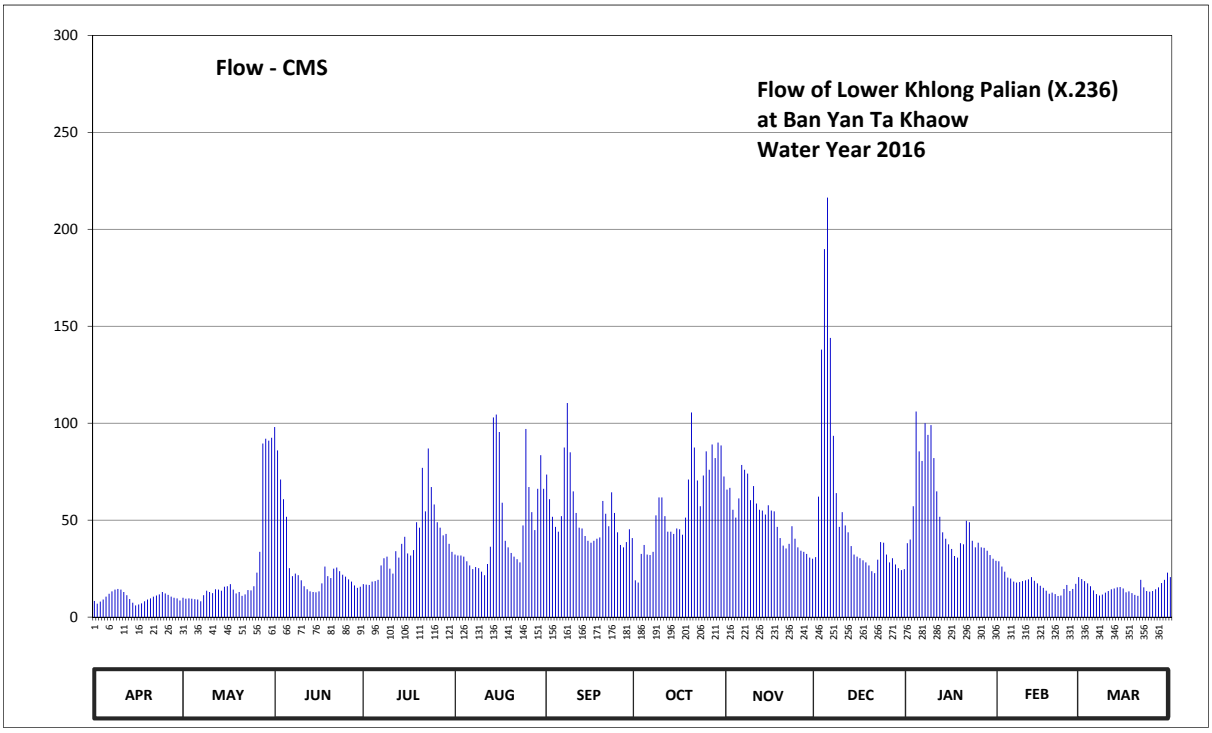
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.17	2.70	0.57	1.17	2.21	0.66	2.05	1.12	1.37	1.04	0.69	
2	-0.03	0.14	2.46	0.56	1.15	1.94	0.61	2.07	1.97	1.43	0.94	0.64	
3	0.04	0.15	2.16	0.55	1.15	1.73	1.18	1.82	3.40	1.86	0.84	0.59	
4	0.11	0.14	1.94	0.63	1.13	1.60	1.34	1.72	4.24	2.86	0.72	0.52	
5	0.21	0.12	1.73	0.64	1.04	1.54	1.17	1.95	4.62	2.45	0.70	0.41	
6	0.31	0.11	0.91	0.67	0.96	1.74	1.16	2.31	3.50	2.35	0.63	0.30	
7	0.38	0.05	0.75	0.96	0.89	2.49	1.22	2.26	2.61	2.74	0.61	0.25	
8	0.43	0.26	0.80	1.10	0.93	2.94	1.75	2.22	2.01	2.62	0.62	0.28	
9	0.45	0.40	0.77	1.13	0.91	2.44	1.96	1.93	1.60	2.72	0.64	0.34	
10	0.43	0.36	0.66	0.90	0.84	2.03	1.96	2.09	1.79	2.38	0.66	0.39	
11	0.36	0.33	0.52	0.80	0.77	1.78	1.74	1.89	1.62	2.03	0.68	0.44	
12	0.26	0.44	0.44	1.23	0.99	1.59	1.54	1.82	1.53	1.73	0.73	0.46	
13	0.13	0.43	0.38	1.11	1.31	1.58	1.54	1.81	1.32	1.53	0.65	0.49	
14	0.00	0.40	0.36	1.36	2.80	1.48	1.51	1.76	1.17	1.44	0.59	0.50	
15	-0.09	0.51	0.35	1.47	2.83	1.41	1.58	1.87	1.13	1.35	0.53	0.46	
16	-0.06	0.52	0.38	1.19	2.65	1.38	1.57	1.81	1.10	1.27	0.48	0.35	
17	-0.02	0.57	0.59	1.15	1.90	1.41	1.50	1.80	1.06	1.14	0.40	0.38	
18	0.05	0.43	0.94	1.25	1.41	1.44	1.72	1.60	1.02	1.11	0.31	0.33	
19	0.11	0.32	0.75	1.66	1.30	1.46	2.16	1.45	0.96	1.37	0.34	0.27	
20	0.15	0.36	0.71	1.59	1.20	1.92	2.85	1.33	0.85	1.35	0.30	0.24	
21	0.21	0.24	0.90	2.28	1.13	1.77	2.49	1.28	0.81	1.68	0.23	0.67	
22	0.25	0.29	0.92	1.80	1.08	1.61	2.15	1.36	1.07	1.66	0.25	0.49	
23	0.29	0.42	0.85	2.48	1.02	2.02	1.86	1.61	1.39	1.41	0.45	0.39	
24	0.36	0.41	0.78	2.08	1.62	1.78	2.20	1.44	1.38	1.30	0.55	0.37	
25	0.32	0.52	0.74	1.88	2.68	1.53	2.45	1.30	1.17	1.38	0.39	0.39	
26	0.27	0.82	0.68	1.66	2.08	1.34	2.26	1.24	1.02	1.30	0.45	0.44	
27	0.21	1.22	0.63	1.59	1.79	1.30	2.52	1.22	1.10	1.29	0.58	0.49	
28	0.17	2.53	0.54	1.49	1.56	1.39	2.38	1.18	0.98	1.24	0.73	0.60	
29	0.15	2.58	0.48	1.51	2.06	1.57	2.54	1.11	0.91	1.16		0.67	
30	0.08	2.56	0.51	1.36	2.41	1.45	2.51	1.09	0.87	1.09		0.82	
31		2.59		1.22	2.06		2.19		0.89	1.05		0.73	
Mean	0.22	0.66	0.91	1.29	1.51	1.73	1.82	1.68	1.62	1.67	0.57	0.46	
Max	0.45	2.59	2.70	2.48	2.83	2.94	2.85	2.31	4.62	2.86	1.04	0.82	4.62
Min	-0.09	0.05	0.35	0.55	0.77	1.30	0.61	1.09	0.81	1.05	0.23	0.24	-0.09

Annual Max Momentary Gage Height 4.96 m. (MSL.) , at 02.00 Hours , on Dec 5 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.34 m. (MSL.)

Left Bank Elevation 6.60 m. (MSL.) ,

Right Bank Elevation 6.68 m. (MSL.) , Drainage Are 587 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.30	9.95	98.00	16.97	32.29	73.50	18.98	65.75	30.94	38.10	28.78	19.67	
2	6.95	9.50	86.00	16.76	31.75	60.80	17.83	66.65	62.15	40.05	26.08	18.52	
3	8.00	9.65	71.00	16.55	31.75	51.70	32.56	55.40	138.00	57.20	23.44	17.39	
4	9.05	9.50	60.80	18.29	31.21	46.50	37.20	51.30	189.80	106.00	20.40	15.92	
5	10.55	9.20	51.70	18.52	28.78	44.10	32.29	61.25	216.40	85.50	19.90	13.79	
6	12.07	9.05	25.27	19.21	26.62	52.10	32.02	78.50	144.00	80.50	18.29	11.90	
7	13.26	8.15	21.15	26.62	24.74	87.50	33.68	76.00	93.50	100.00	17.83	11.15	
8	14.17	11.30	22.40	30.40	25.81	110.40	52.50	74.00	63.95	94.00	18.06	11.60	
9	14.55	13.60	21.65	31.21	25.27	85.00	61.70	60.35	46.50	99.00	18.52	12.58	
10	14.17	12.92	18.98	25.00	23.44	64.85	61.70	67.55	54.10	82.00	18.98	13.43	
11	12.92	12.41	15.92	22.40	21.65	53.70	52.10	58.55	47.30	64.85	19.44	14.36	
12	11.30	14.36	14.36	33.97	27.43	46.10	44.10	55.40	43.70	51.70	20.65	14.74	
13	9.35	14.17	13.26	30.67	36.30	45.70	44.10	54.95	36.60	43.70	18.75	15.31	
14	7.40	13.60	12.92	37.80	103.00	41.80	42.90	52.90	32.29	40.40	17.39	15.50	
15	6.05	15.71	12.75	41.45	104.50	39.35	45.70	57.65	31.21	37.50	16.13	14.74	
16	6.50	15.92	13.26	32.83	95.50	38.40	45.30	54.95	30.40	35.13	15.12	12.75	
17	7.10	16.97	17.39	31.75	59.00	39.35	42.50	54.50	29.32	31.48	13.60	13.26	
18	8.15	14.17	26.08	34.55	39.35	40.40	51.30	46.50	28.24	30.67	12.07	12.41	
19	9.05	12.24	21.15	48.90	36.00	41.10	71.00	40.75	26.62	38.10	12.58	11.45	
20	9.65	12.92	20.15	46.10	33.10	59.90	105.50	36.90	23.70	37.50	11.90	11.00	
21	10.55	11.00	25.00	77.00	31.21	53.30	87.50	35.42	22.66	49.70	10.85	19.21	
22	11.15	11.75	25.54	54.50	29.86	46.90	70.50	37.80	29.59	48.90	11.15	15.31	
23	11.75	13.98	23.70	87.00	28.24	64.40	57.20	46.90	38.70	39.35	14.55	13.43	
24	12.92	13.79	21.90	67.10	47.30	53.70	73.00	40.40	38.40	36.00	16.55	13.09	
25	12.24	15.92	20.90	58.10	97.00	43.70	85.50	36.00	32.29	38.40	13.43	13.43	
26	11.45	22.92	19.44	48.90	67.10	37.20	76.00	34.26	28.24	36.00	14.55	14.36	
27	10.55	33.68	18.29	46.10	54.10	36.00	89.00	33.68	30.40	35.71	17.18	15.31	
28	9.95	89.50	16.34	42.15	44.90	38.70	82.00	32.56	27.16	34.26	20.65	17.60	
29	9.65	92.00	15.12	42.90	66.20	45.30	90.00	30.67	25.27	32.02		19.21	
30	8.60	91.00	15.71	37.80	83.50	40.75	88.50	30.13	24.22	30.13		22.92	
31		92.50		33.68	66.20		72.50		24.74	29.05		20.65	
Total	307.35	733.33	846.13	1175.18	1453.10	1582.20	1796.66	1527.62	1690.39	1602.90	486.82	465.99	13667.67 CMSDAY
Mean	10.25	23.66	28.20	37.91	46.87	52.74	57.96	50.92	54.53	51.71	17.39	15.03	37.45 CMS
Max	14.55	92.50	98.00	87.00	104.50	110.40	105.50	78.50	216.40	106.00	28.78	22.92	216.40 CMS
Min	6.05	8.15	12.75	16.55	21.65	36.00	17.83	30.13	22.66	29.05	10.85	11.00	6.05 CMS
Runoff	26.56	63.36	73.11	101.54	125.55	136.70	155.23	131.99	146.05	138.49	42.06	40.26	1180.89 MCM

Momentary Peak 240.20 CMS. at 4.96 m. (MSL.) at 02.00 Hours , on Dec 5 , 2016

Runoff Yield 63.70 Liters/Second/Square KM. Momentary Peak Yield 408.640 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

Ban Bang Tong **Amphoe** Mueang **Changwat** Phangnga

Drainge Area	242 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +16.857 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Flot	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2016.

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

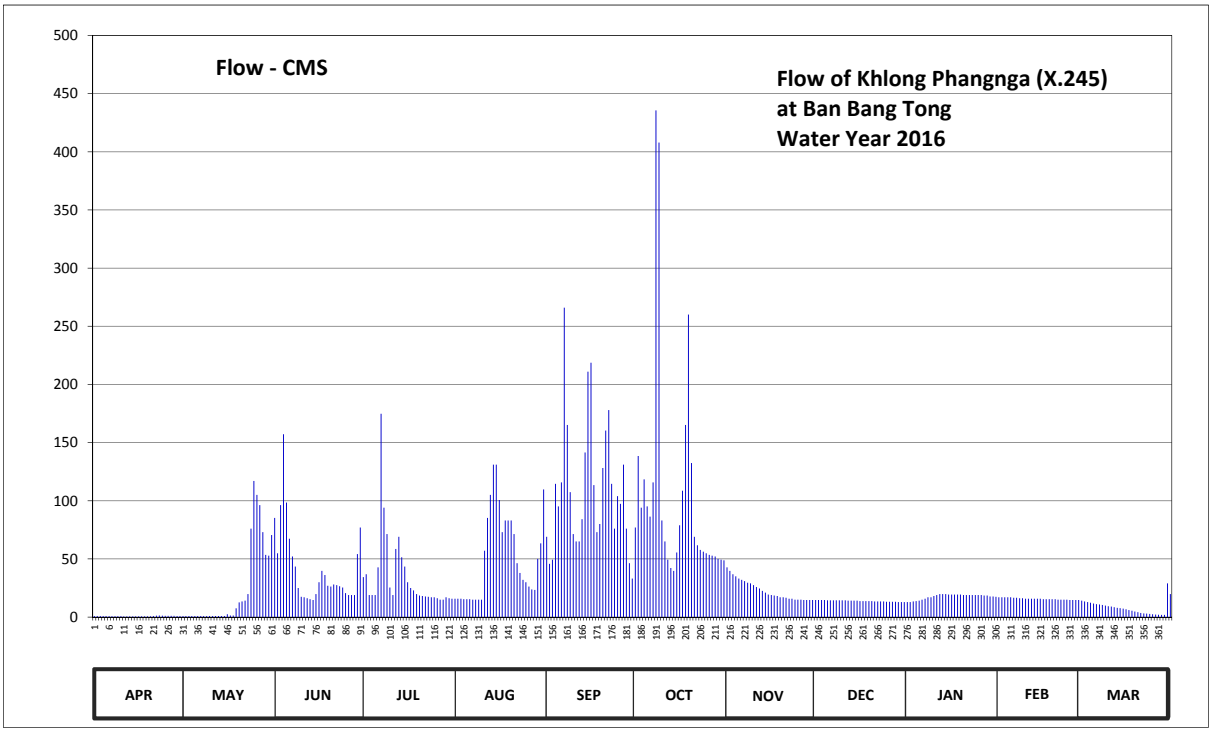
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.69	7.70	9.42	8.74	8.32	9.25	9.34	8.88	8.29	8.23	8.35	8.27	
2	7.69	7.70	9.07	8.78	8.32	8.93	9.85	8.83	8.29	8.23	8.35	8.25	
3	7.69	7.70	9.52	8.40	8.32	8.99	9.50	8.78	8.29	8.25	8.35	8.23	
4	7.69	7.70	9.97	8.40	8.31	9.68	9.71	8.75	8.29	8.26	8.35	8.21	
5	7.69	7.70	9.54	8.40	8.31	9.51	9.51	8.72	8.28	8.27	8.35	8.19	
6	7.68	7.70	9.23	8.88	8.31	9.69	9.43	8.70	8.28	8.30	8.34	8.17	
7	7.68	7.70	9.03	10.08	8.30	10.58	9.69	8.68	8.28	8.32	8.34	8.16	
8	7.68	7.70	8.89	9.50	8.30	10.02	11.27	8.65	8.28	8.35	8.33	8.15	
9	7.68	7.70	8.55	9.28	8.30	9.62	11.17	8.64	8.28	8.35	8.33	8.13	
10	7.68	7.70	8.36	8.56	8.30	9.28	9.40	8.61	8.28	8.38	8.32	8.11	
11	7.67	7.70	8.35	8.40	9.10	9.20	9.20	8.57	8.28	8.40	8.32	8.10	
12	7.67	7.70	8.33	9.12	9.42	9.20	8.99	8.54	8.27	8.42	8.32	8.08	
13	7.67	7.70	8.31	9.25	9.60	9.41	8.87	8.49	8.27	8.42	8.32	8.06	
14	7.67	7.70	8.29	9.02	9.80	9.87	8.83	8.45	8.27	8.42	8.32	8.05	
15	7.67	7.70	8.42	8.89	9.80	10.30	9.08	8.41	8.27	8.41	8.32	8.03	
16	7.67	7.82	8.66	8.66	9.56	10.34	9.36	8.40	8.26	8.41	8.31	8.01	
17	7.67	7.74	8.83	8.55	9.30	9.67	9.63	8.39	8.26	8.41	8.31	7.98	
18	7.67	7.74	8.77	8.50	9.40	9.30	10.02	8.38	8.26	8.41	8.31	7.96	
19	7.67	8.04	8.60	8.42	9.40	9.37	10.55	8.35	8.26	8.41	8.31	7.93	
20	7.67	8.22	8.58	8.39	9.40	9.78	9.81	8.35	8.26	8.40	8.31	7.91	
21	7.69	8.25	8.62	8.38	9.28	9.99	9.25	8.34	8.25	8.40	8.30	7.88	
22	7.72	8.27	8.61	8.37	8.94	10.10	9.16	8.32	8.25	8.40	8.30	7.86	
23	7.73	8.42	8.59	8.36	8.80	9.68	9.11	8.32	8.25	8.40	8.30	7.85	
24	7.72	9.33	8.56	8.35	8.70	9.33	9.09	8.30	8.25	8.40	8.30	7.84	
25	7.71	9.70	8.44	8.35	8.66	9.59	9.07	8.30	8.24	8.40	8.29	7.82	
26	7.71	9.60	8.40	8.33	8.58	9.53	9.05	8.30	8.24	8.40	8.29	7.81	
27	7.71	9.52	8.40	8.30	8.52	9.80	9.04	8.29	8.24	8.39	8.29	7.80	
28	7.71	9.30	8.40	8.30	8.51	9.33	9.03	8.29	8.24	8.39	8.29	7.79	
29	7.70	9.05	9.06	8.35	9.00	8.94	9.00	8.29	8.23	8.37		7.79	
30	7.70	9.04	9.34	8.33	9.18	8.72	8.99	8.29	8.23	8.37		8.64	
31		9.27		8.32	9.64		8.98		8.23	8.36		8.42	
Mean	7.69	8.22	8.77	8.64	8.89	9.57	9.45	8.49	8.26	8.37	8.32	8.05	
Max	7.73	9.70	9.97	10.08	9.80	10.58	11.27	8.88	8.29	8.42	8.35	8.64	11.27
Min	7.67	7.70	8.29	8.30	8.30	8.72	8.83	8.29	8.23	8.23	8.29	7.79	7.67

Annual Max Momentary Gage Height 11.30 m. (MSL.) , at 06.00 Hours , on Oct 8 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 6.17 m. (MSL.)

Left Bank Elevation 15.64 m. (MSL.) ,

Right Bank Elevation 16.46 m. (MSL.) , Drainage Are 242 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	1.00	85.20	34.40	15.80	69.00	77.00	42.80	14.70	12.90	17.00	14.10	
2	0.90	1.00	54.90	36.80	15.80	45.80	138.50	39.80	14.70	12.90	17.00	13.50	
3	0.90	1.00	96.20	19.00	15.80	49.40	94.00	36.80	14.70	13.50	17.00	12.90	
4	0.90	1.00	157.20	19.00	15.40	114.60	118.40	35.00	14.70	13.80	17.00	12.30	
5	0.90	1.00	98.40	19.00	15.40	95.10	95.10	33.20	14.40	14.10	17.00	11.70	
6	0.80	1.00	67.40	42.80	15.40	115.80	86.30	32.00	14.40	15.00	16.60	11.10	
7	0.80	1.00	52.10	174.80	15.00	266.00	115.80	31.00	14.40	15.80	16.60	10.80	
8	0.80	1.00	43.40	94.00	15.00	165.20	435.60	29.50	14.40	17.00	16.20	10.50	
9	0.80	1.00	25.00	71.40	15.00	107.40	407.90	29.00	14.40	17.00	16.20	9.90	
10	0.80	1.00	17.40	25.40	15.00	71.40	83.00	27.50	14.40	18.20	15.80	9.30	
11	0.70	1.00	17.00	19.00	57.00	65.00	65.00	25.80	14.40	19.00	15.80	9.00	
12	0.70	1.00	16.20	58.60	85.20	65.00	49.40	24.60	14.10	19.80	15.80	8.50	
13	0.70	1.00	15.40	69.00	105.00	84.10	42.20	22.60	14.10	19.80	15.80	8.00	
14	0.70	1.00	14.70	51.40	131.00	141.50	39.80	21.00	14.10	19.80	15.80	7.75	
15	0.70	1.00	19.80	43.40	131.00	211.00	55.60	19.40	14.10	19.40	15.80	7.25	
16	0.70	2.40	30.00	30.00	100.60	218.60	79.00	19.00	13.80	19.40	15.40	6.75	
17	0.70	1.40	39.80	25.00	73.00	113.40	108.60	18.60	13.80	19.40	15.40	6.00	
18	0.70	1.40	36.20	23.00	83.00	73.00	165.20	18.20	13.80	19.40	15.40	5.50	
19	0.70	7.50	27.00	19.80	83.00	80.00	260.00	17.00	13.80	19.40	15.40	4.75	
20	0.70	12.60	26.20	18.60	83.00	128.20	132.50	17.00	13.80	19.00	15.40	4.25	
21	0.90	13.50	28.00	18.20	71.40	160.40	69.00	16.60	13.50	19.00	15.00	3.60	
22	1.20	14.10	27.50	17.80	46.40	178.00	61.80	15.80	13.50	19.00	15.00	3.20	
23	1.30	19.80	26.60	17.40	38.00	114.60	57.80	15.80	13.50	19.00	15.00	3.00	
24	1.20	76.00	25.40	17.00	32.00	76.00	56.30	15.00	13.50	19.00	15.00	2.80	
25	1.10	117.00	20.60	17.00	30.00	103.90	54.90	15.00	13.20	19.00	14.70	2.40	
26	1.10	105.00	19.00	16.20	26.20	97.30	53.50	15.00	13.20	19.00	14.70	2.20	
27	1.10	96.20	19.00	15.00	23.80	131.00	52.80	14.70	13.20	18.60	14.70	2.00	
28	1.10	73.00	19.00	15.00	23.40	76.00	52.10	14.70	13.20	18.60	14.70	1.90	
29	1.00	53.50	54.20	17.00	50.00	46.40	50.00	14.70	12.90	17.80		1.90	
30	1.00	52.80	77.00	16.20	63.40	33.20	49.40	14.70	12.90	17.80		29.00	
31		70.60		15.80	109.80		48.80		12.90	17.40		19.80	
Total	26.50	731.80	1255.80	1077.00	1599.80	3296.30	3255.30	691.80	430.50	548.80	441.20	255.65	13610.45 CMSDAY
Mean	0.88	23.61	41.86	34.74	51.61	109.88	105.01	23.06	13.89	17.70	15.76	8.25	37.29 CMS
Max	1.30	117.00	157.20	174.80	131.00	266.00	435.60	42.80	14.70	19.80	17.00	29.00	435.60 CMS
Min	0.70	1.00	14.70	15.00	15.00	33.20	39.80	14.70	12.90	12.90	14.70	1.90	0.70 CMS
Runoff	2.29	63.23	108.50	93.05	138.22	284.80	281.26	59.77	37.20	47.42	38.12	22.09	1175.94 MCM

Momentary Peak 444.00 CMS. at 11.30 m. (MSL.) at 06.00 Hours , on Oct 8 , 2016

Runoff Yield 154.09 Liters/Second/Square KM. Momentary Peak Yield 1834.710 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Upper Khlong Tha Prae at Ban Karakat , Satun (X.261)

Lat 06 - 50 - 19 N Long 100 - 04 - 10 E

Location : on right bank at Ban Karakat.

	Ban Karakat	**Amphoe** Khuan Kalong	**Changwat** Satun
Drainge Area	99 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.	**Elevation**	+30.451 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

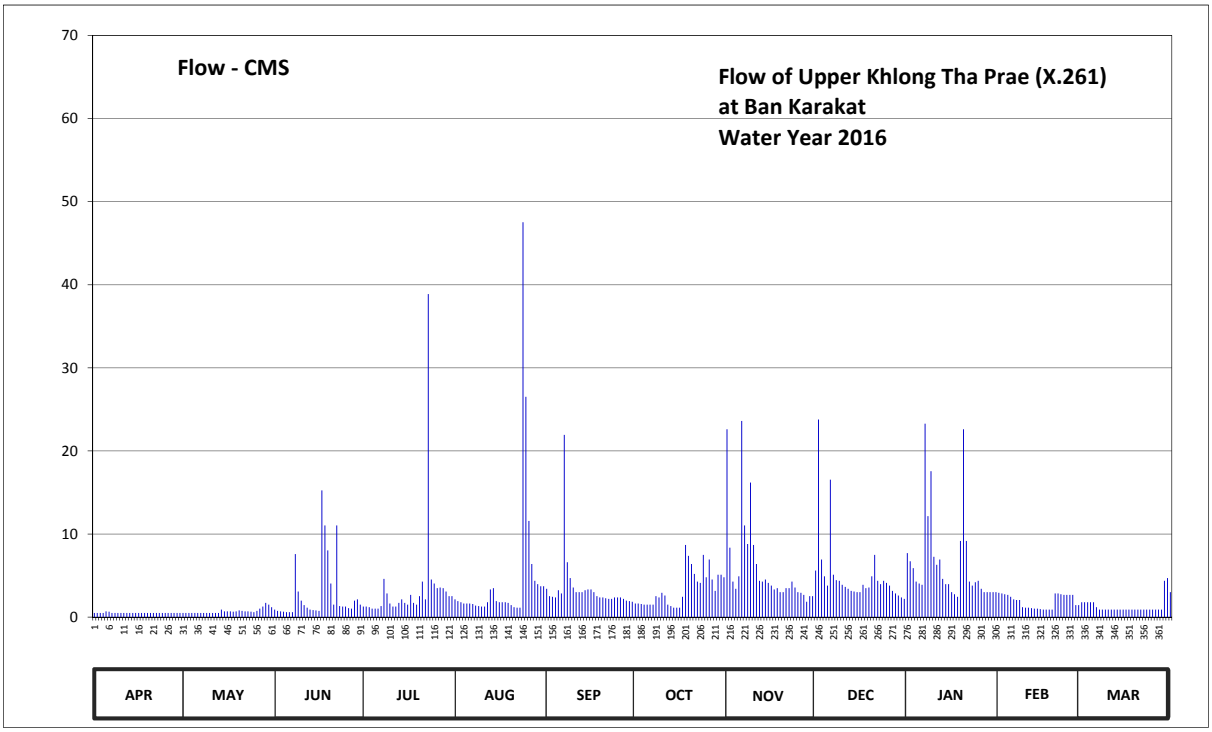
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.62	26.62	26.70	26.76	26.89	27.05	26.82	28.51	27.30	27.50	26.99	26.84	
2	26.62	26.62	26.67	26.76	26.86	26.94	26.82	27.56	28.58	27.41	26.98	26.84	
3	26.62	26.62	26.66	26.75	26.84	26.93	26.81	27.16	27.43	27.33	26.97	26.84	
4	26.62	26.62	26.65	26.72	26.82	26.92	26.80	27.05	27.23	27.16	26.96	26.84	
5	26.66	26.62	26.64	26.72	26.82	27.03	26.80	27.23	27.10	27.13	26.93	26.84	
6	26.65	26.62	26.64	26.72	26.82	26.98	26.80	28.57	28.15	27.11	26.89	26.75	
7	26.62	26.62	26.64	26.77	26.81	28.47	26.80	27.78	27.25	28.55	26.88	26.70	
8	26.62	26.62	27.49	27.20	26.78	27.40	26.94	27.60	27.18	27.86	26.88	26.70	
9	26.62	26.62	27.01	26.98	26.77	27.21	26.92	28.13	27.17	28.21	26.75	26.70	
10	26.62	26.62	26.87	26.82	26.76	27.07	26.99	27.59	27.11	27.46	26.74	26.70	
11	26.62	26.62	26.79	26.76	26.76	27.00	26.95	27.38	27.08	27.37	26.74	26.70	
12	26.62	26.62	26.74	26.76	26.84	27.00	26.80	27.17	27.05	27.43	26.73	26.70	
13	26.62	26.62	26.70	26.83	27.04	27.00	26.77	27.16	27.02	27.20	26.72	26.70	
14	26.62	26.70	26.69	26.89	27.06	27.03	26.74	27.19	27.01	27.12	26.72	26.70	
15	26.62	26.66	26.68	26.83	26.86	27.04	26.74	27.14	27.00	27.12	26.71	26.70	
16	26.62	26.66	26.67	26.80	26.84	27.04	26.74	27.10	27.00	27.00	26.70	26.70	
17	26.62	26.66	28.07	26.96	26.84	27.00	26.93	27.04	27.11	26.97	26.70	26.70	
18	26.62	26.65	27.78	26.83	26.84	26.94	27.59	27.06	27.06	26.93	26.70	26.70	
19	26.62	26.66	27.53	26.80	26.83	26.92	27.47	27.00	27.07	27.63	26.70	26.70	
20	26.62	26.68	27.13	26.94	26.79	26.92	27.38	27.00	27.23	28.51	26.98	26.70	
21	26.62	26.67	26.80	27.16	26.75	26.91	27.26	27.06	27.48	27.63	26.98	26.70	
22	26.62	26.66	27.78	26.89	26.74	26.90	27.16	27.06	27.17	27.16	26.97	26.70	
23	26.62	26.66	26.77	29.32	26.74	26.90	27.14	27.16	27.12	27.10	26.96	26.70	
24	26.62	26.65	26.76	27.19	29.68	26.92	27.48	27.07	27.17	27.15	26.96	26.70	
25	26.62	26.64	26.76	27.13	28.74	26.92	27.22	27.00	27.14	27.17	26.96	26.70	
26	26.62	26.67	26.73	27.06	27.82	26.92	27.43	26.99	27.10	27.05	26.96	26.70	
27	26.62	26.72	26.72	27.07	27.38	26.90	27.19	26.96	27.02	27.00	26.79	26.70	
28	26.62	26.76	26.87	27.06	27.17	26.87	27.02	26.85	26.98	27.00	26.79	26.70	
29	26.62	26.83	26.89	27.01	27.12	26.86	27.25	26.94	26.95	27.00		27.17	
30	26.62	26.80	26.80	26.94	27.09	26.85	27.25	26.94	26.92	27.00		27.21	
31		26.75		26.94	27.09		27.22		26.90	27.00		27.00	
Mean	26.62	26.66	26.92	26.98	27.07	27.03	27.04	27.28	27.20	27.33	26.85	26.77	
Max	26.66	26.83	28.07	29.32	29.68	28.47	27.59	28.57	28.58	28.55	26.99	27.21	29.68
Min	26.62	26.62	26.64	26.72	26.74	26.85	26.74	26.85	26.90	26.93	26.70	26.70	26.62

Annual Max Momentary Gage Height 29.94 m. (MSL.) , at 18.00 Hours , on Aug 24 , 2016

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 26.32 m. (MSL.)

Left Bank Elevation 30.32 m. (MSL.) ,

Right Bank Elevation 31.74 m. (MSL.) , Drainage Are 99 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	0.50	0.90	1.26	2.13	3.40	1.64	22.60	5.60	7.70	2.92	1.78		
2	0.50	0.50	0.75	1.26	1.92	2.52	1.64	8.36	23.78	6.71	2.84	1.78		
3	0.50	0.50	0.70	1.20	1.78	2.44	1.57	4.28	6.93	5.90	2.76	1.78		
4	0.50	0.50	0.65	1.02	1.64	2.36	1.50	3.40	4.90	4.28	2.68	1.78		
5	0.70	0.50	0.60	1.02	1.64	3.24	1.50	4.90	3.80	4.04	2.44	1.78		
6	0.65	0.50	0.60	1.02	1.64	2.84	1.50	23.61	16.54	3.88	2.13	1.20		
7	0.50	0.50	0.60	1.32	1.57	21.93	1.50	11.04	5.10	23.27	2.06	0.90		
8	0.50	0.50	7.59	4.60	1.38	6.60	2.52	8.80	4.44	12.14	2.06	0.90		
9	0.50	0.50	3.08	2.84	1.32	4.70	2.36	16.20	4.36	17.55	1.20	0.90		
10	0.50	0.50	1.99	1.64	1.26	3.56	2.92	8.69	3.88	7.26	1.14	0.90		
11	0.50	0.50	1.44	1.26	1.26	3.00	2.60	6.40	3.64	6.30	1.14	0.90		
12	0.50	0.50	1.14	1.26	1.78	3.00	1.50	4.36	3.40	6.93	1.08	0.90		
13	0.50	0.50	0.90	1.71	3.32	3.00	1.32	4.28	3.16	4.60	1.02	0.90		
14	0.50	0.90	0.85	2.13	3.48	3.24	1.14	4.52	3.08	3.96	1.02	0.90		
15	0.50	0.70	0.80	1.71	1.92	3.32	1.14	4.12	3.00	3.96	0.96	0.90		
16	0.50	0.70	0.75	1.50	1.78	3.32	1.14	3.80	3.00	3.00	0.90	0.90		
17	0.50	0.70	15.25	2.68	1.78	3.00	2.44	3.32	3.88	2.76	0.90	0.90		
18	0.50	0.65	11.04	1.71	1.78	2.52	8.69	3.48	3.48	2.44	0.90	0.90		
19	0.50	0.70	8.03	1.50	1.71	2.36	7.37	3.00	3.56	9.16	0.90	0.90		
20	0.50	0.80	4.04	2.52	1.44	2.36	6.40	3.00	4.90	22.60	2.84	0.90		
21	0.50	0.75	1.50	4.28	1.20	2.28	5.20	3.48	7.48	9.16	2.84	0.90		
22	0.50	0.70	11.04	2.13	1.14	2.20	4.28	3.48	4.36	4.28	2.76	0.90		
23	0.50	0.70	1.32	38.88	1.14	2.20	4.12	4.28	3.96	3.80	2.68	0.90		
24	0.50	0.65	1.26	4.52	47.52	2.36	7.48	3.56	4.36	4.20	2.68	0.90		
25	0.50	0.60	1.26	4.04	26.52	2.36	4.80	3.00	4.12	4.36	2.68	0.90		
26	0.50	0.75	1.08	3.48	11.58	2.36	6.93	2.92	3.80	3.40	2.68	0.90		
27	0.50	1.02	1.02	3.56	6.40	2.20	4.52	2.68	3.16	3.00	1.44	0.90		
28	0.50	1.26	1.99	3.48	4.36	1.99	3.16	1.85	2.84	3.00	1.44	0.90		
29	0.50	1.71	2.13	3.08	3.96	1.92	5.10	2.52	2.60	3.00		4.36		
30	0.50	1.50	1.50	2.52	3.72	1.85	5.10	2.52	2.36	3.00		4.70		
31		1.20		2.52	3.72		4.80		2.20	3.00		3.00		
Total	15.35	22.49	85.80	107.65	147.79	104.43	107.88	182.45	155.67	202.64	53.09	41.96	1227.20	CMSDAY
Mean	0.51	0.73	2.86	3.47	4.77	3.48	3.48	6.08	5.02	6.54	1.90	1.35	3.36	CMS
Max	0.70	1.71	15.25	38.88	47.52	21.93	8.69	23.61	23.78	23.27	2.92	4.70	47.52	CMS
Min	0.50	0.50	0.60	1.02	1.14	1.85	1.14	1.85	2.20	2.44	0.90	0.90	0.50	CMS
Runoff	1.33	1.94	7.41	9.30	12.77	9.02	9.32	15.76	13.45	17.51	4.59	3.63	106.03	MCM

Momentary Peak 54.00 CMS. at 29.94 m. (MSL.) at 18.00 Hours , on Aug 24 , 2016

Runoff Yield 33.96 Liters/Second/Square KM. Momentary Peak Yield 545.450 Liters/Second/Square KM.

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Duson at Ban Panjor , Satun (X.279)

Lat 06 - 46 - 39 N Long 100 - 04 - 16 E

Location : on right bank at Ban Panjor.

	Ban Panjor	**Amphoe** Khuan Don	**Changwat** Satun
Drainge Area	262 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+18.423 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.	**Elevation**	+25.537 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2016.		

Gage Height in Meter (MSL.) Water Year April 1, 2016 to March 31, 2017

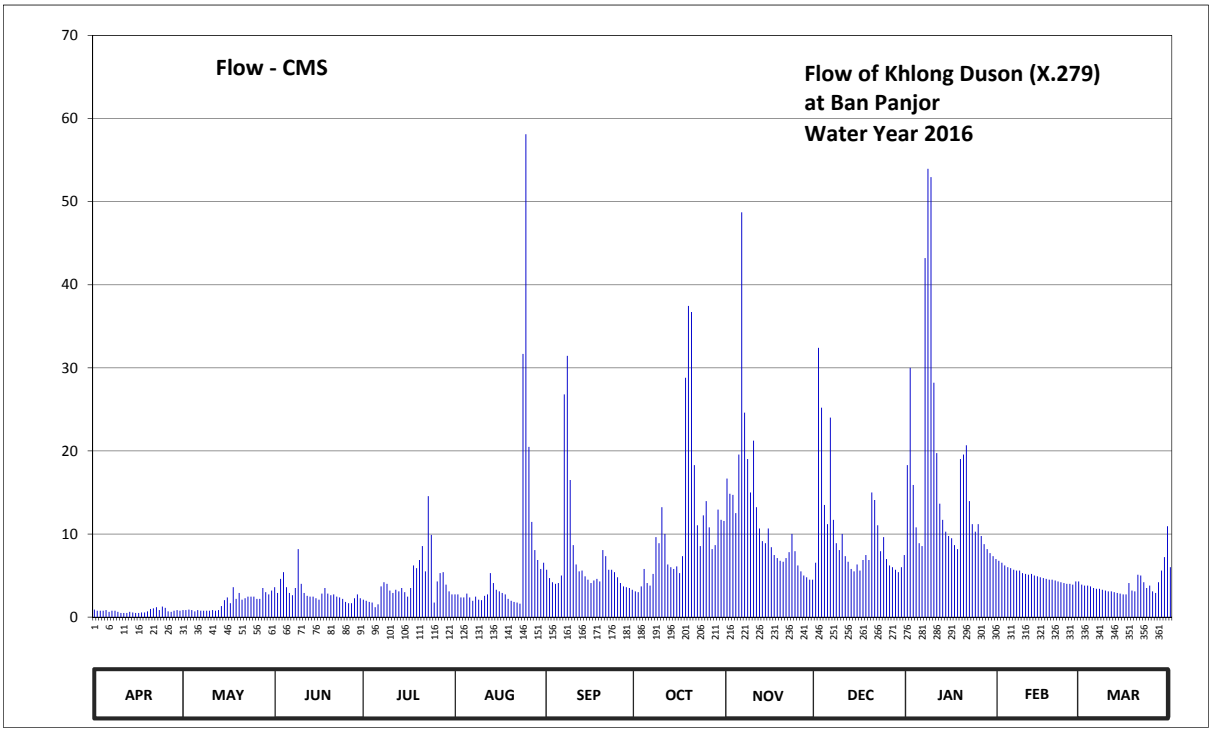
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.13	19.12	19.46	19.30	19.37	19.67	19.41	20.51	19.75	20.60	19.77	19.49	
2	19.11	19.12	19.39	19.28	19.37	19.57	19.40	20.39	21.30	21.20	19.75	19.48	
3	19.11	19.13	19.56	19.26	19.33	19.52	19.47	20.38	20.96	20.46	19.72	19.48	
4	19.11	19.12	19.64	19.25	19.33	19.50	19.68	20.23	20.30	20.10	19.70	19.47	
5	19.12	19.10	19.46	19.17	19.38	19.51	19.51	20.67	20.13	19.95	19.69	19.45	
6	19.09	19.12	19.39	19.22	19.33	19.60	19.48	21.98	20.90	19.92	19.67	19.44	
7	19.11	19.11	19.36	19.47	19.28	21.04	19.62	20.93	20.17	21.75	19.66	19.44	
8	19.11	19.11	19.45	19.52	19.34	21.26	20.01	20.64	19.95	22.19	19.66	19.43	
9	19.09	19.11	19.89	19.50	19.30	20.50	19.95	20.40	19.88	22.15	19.63	19.42	
10	19.07	19.11	19.50	19.42	19.29	19.93	20.28	20.76	20.04	21.11	19.62	19.41	
11	19.07	19.12	19.39	19.39	19.35	19.73	20.04	20.28	19.82	20.68	19.61	19.41	
12	19.07	19.11	19.35	19.43	19.37	19.65	19.73	20.09	19.76	20.31	19.62	19.40	
13	19.09	19.12	19.34	19.41	19.63	19.66	19.70	19.97	19.68	20.17	19.60	19.39	
14	19.08	19.19	19.34	19.45	19.51	19.59	19.68	19.95	19.65	20.06	19.59	19.38	
15	19.07	19.29	19.32	19.40	19.43	19.55	19.71	20.09	19.73	20.02	19.58	19.37	
16	19.07	19.33	19.30	19.34	19.41	19.51	19.63	19.91	19.66	20.00	19.57	19.37	
17	19.08	19.24	19.38	19.45	19.39	19.54	19.82	19.83	19.78	19.93	19.56	19.51	
18	19.08	19.46	19.45	19.72	19.37	19.56	21.14	19.80	19.83	19.89	19.55	19.42	
19	19.10	19.31	19.38	19.69	19.31	19.53	21.51	19.77	19.78	20.64	19.55	19.41	
20	19.14	19.39	19.36	19.78	19.28	19.88	21.48	19.76	20.40	20.67	19.54	19.61	
21	19.15	19.30	19.37	19.92	19.26	19.82	20.60	19.80	20.34	20.73	19.53	19.60	
22	19.17	19.32	19.34	19.65	19.25	19.67	20.12	19.86	20.12	20.33	19.52	19.52	
23	19.12	19.34	19.33	20.37	19.23	19.67	19.92	20.04	19.87	20.13	19.51	19.45	
24	19.18	19.34	19.31	20.03	21.27	19.64	20.21	19.87	20.01	20.06	19.50	19.48	
25	19.16	19.34	19.26	19.25	22.35	19.58	20.33	19.72	19.79	20.13	19.50	19.41	
26	19.10	19.31	19.24	19.53	20.72	19.51	20.10	19.65	19.72	20.02	19.49	19.39	
27	19.09	19.31	19.24	19.63	20.15	19.47	19.89	19.60	19.70	19.94	19.53	19.52	
28	19.11	19.45	19.32	19.64	19.88	19.46	19.93	19.58	19.67	19.89	19.53	19.66	
29	19.12	19.40	19.37	19.49	19.78	19.45	20.26	19.55	19.64	19.85		19.81	
30	19.11	19.37	19.32	19.41	19.68	19.43	20.17	19.55	19.70	19.82		20.11	
31		19.42		19.37	19.75		20.16		19.83	19.79		19.70	
Mean	19.11	19.25	19.39	19.51	19.64	19.73	20.03	20.12	20.00	20.40	19.60	19.50	
Max	19.18	19.46	19.89	20.37	22.35	21.26	21.51	21.98	21.30	22.19	19.77	20.11	22.35
Min	19.07	19.10	19.24	19.17	19.23	19.43	19.40	19.55	19.64	19.79	19.49	19.37	19.07

Annual Max Momentary Gage Height 22.86 m. (MSL.) , at 05.00 Hours , on Aug 25 , 2016

Zero Gage at Bottom Elevation 18.42 m. (MSL.) , River Bed 17.98 m. (MSL.)

Left Bank Elevation 23.99 m. (MSL.) ,

Right Bank Elevation 22.86 m. (MSL.) , Drainage Are 262 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2016 to March 31, 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	0.84	3.60	2.10	2.73	5.70	3.10	16.68	6.55	18.30	6.77	3.90	
2	0.77	0.84	2.91	1.96	2.73	4.70	3.00	14.85	32.40	30.00	6.55	3.80	
3	0.77	0.91	4.60	1.82	2.37	4.20	3.70	14.70	25.20	15.90	6.22	3.80	
4	0.77	0.84	5.40	1.75	2.37	4.00	5.80	12.52	13.50	10.80	6.00	3.70	
5	0.84	0.70	3.60	1.19	2.82	4.10	4.10	19.56	11.19	8.90	5.90	3.50	
6	0.63	0.84	2.91	1.54	2.37	5.00	3.80	48.72	24.00	8.54	5.70	3.40	
7	0.77	0.77	2.64	3.70	1.96	26.80	5.20	24.60	11.71	43.20	5.60	3.40	
8	0.77	0.77	3.50	4.20	2.46	31.44	9.63	19.02	8.90	53.95	5.60	3.30	
9	0.63	0.77	8.18	4.00	2.10	16.50	8.90	15.00	8.06	52.95	5.30	3.20	
10	0.49	0.77	4.00	3.20	2.03	8.66	13.22	21.24	10.02	28.20	5.20	3.10	
11	0.49	0.84	2.91	2.91	2.55	6.33	10.02	13.22	7.34	19.74	5.10	3.10	
12	0.49	0.77	2.55	3.30	2.73	5.50	6.33	10.67	6.66	13.65	5.20	3.00	
13	0.63	0.84	2.46	3.10	5.30	5.60	6.00	9.14	5.80	11.71	5.00	2.91	
14	0.56	1.33	2.46	3.50	4.10	4.90	5.80	8.90	5.50	10.28	4.90	2.82	
15	0.49	2.03	2.28	3.00	3.30	4.50	6.11	10.67	6.33	9.76	4.80	2.73	
16	0.49	2.37	2.10	2.46	3.10	4.10	5.30	8.42	5.60	9.50	4.70	2.73	
17	0.56	1.68	2.82	3.50	2.91	4.40	7.34	7.46	6.88	8.66	4.60	4.10	
18	0.56	3.60	3.50	6.22	2.73	4.60	28.80	7.10	7.46	8.18	4.50	3.20	
19	0.70	2.19	2.82	5.90	2.19	4.30	37.44	6.77	6.88	19.02	4.50	3.10	
20	0.98	2.91	2.64	6.88	1.96	8.06	36.72	6.66	15.00	19.56	4.40	5.10	
21	1.05	2.10	2.73	8.54	1.82	7.34	18.30	7.10	14.10	20.67	4.30	5.00	
22	1.19	2.28	2.46	5.50	1.75	5.70	11.06	7.82	11.06	13.95	4.20	4.20	
23	0.84	2.46	2.37	14.55	1.61	5.70	8.54	10.02	7.94	11.19	4.10	3.50	
24	1.26	2.46	2.19	9.89	31.68	5.40	12.24	7.94	9.63	10.28	4.00	3.80	
25	1.12	2.46	1.82	1.75	58.10	4.80	13.95	6.22	6.99	11.19	4.00	3.10	
26	0.70	2.19	1.68	4.30	20.48	4.10	10.80	5.50	6.22	9.76	3.90	2.91	
27	0.63	2.19	1.68	5.30	11.45	3.70	8.18	5.00	6.00	8.78	4.30	4.20	
28	0.77	3.50	2.28	5.40	8.06	3.60	8.66	4.80	5.70	8.18	4.30	5.60	
29	0.84	3.00	2.73	3.90	6.88	3.50	12.94	4.50	5.40	7.70		7.22	
30	0.77	2.73	2.28	3.10	5.80	3.30	11.71	4.50	6.00	7.34		10.93	
31		3.20		2.73	6.55		11.58		7.46	6.99		6.00	
Total	22.47	55.18	90.10	131.19	208.99	210.53	338.27	359.30	311.48	516.83	139.64	124.35	2508.33	CMSDAY
Mean	0.75	1.78	3.00	4.23	6.74	7.02	10.91	11.98	10.05	16.67	4.99	4.01	6.87	CMS
Max	1.26	3.60	8.18	14.55	58.10	31.44	37.44	48.72	32.40	53.95	6.77	10.93	58.10	CMS
Min	0.49	0.70	1.68	1.19	1.61	3.30	3.00	4.50	5.40	6.99	3.90	2.73	0.49	CMS
Runoff	1.94	4.77	7.78	11.33	18.06	18.19	29.23	31.04	26.91	44.65	12.06	10.74	216.72	MCM

Momentary Peak 73.30 CMS. at 22.86 m. (MSL.) at 05.00 Hours , on Aug 25 , 2016

Runoff Yield 26.23 Liters/Second/Square KM. Momentary Peak Yield 279.770 Liters/Second/Square KM.

Suspended Sediment Station

Water Year 2016

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

Ban Na Ang **Amphoe** Ban Phu **Changwat** Udon Thani

Drainge Area	1,309 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	1999 - 2016
Number of observation	257
R-Square	0.8793
Remarks	Continued Sediment Station

$$QS = 4.0066\ QW^{1.20000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	14.97	21.15	9.20	87.00	469.79	48.58	9.20	4.01	4.01	0.00	667.92	
2	0.00	0.00	14.97	27.64	9.20	120.04	417.12	41.39	9.20	4.01	4.01	0.00	647.59	
3	0.00	0.00	14.97	41.39	14.97	154.68	365.54	34.40	9.20	4.01	4.01	0.00	643.18	
4	0.00	0.00	14.97	48.58	14.97	190.68	325.13	27.64	9.20	4.01	0.00	0.00	635.19	
5	0.00	0.00	14.97	71.19	14.97	237.31	285.53	21.15	9.20	4.01	0.00	0.00	658.35	
6	0.00	0.00	14.97	79.03	21.15	285.53	275.77	21.15	9.20	4.01	0.00	0.00	710.82	
7	0.00	0.00	14.97	71.19	21.15	345.24	355.37	63.50	9.20	4.01	0.00	0.00	884.63	
8	0.00	0.00	14.97	71.19	21.15	396.36	365.54	218.46	9.20	4.01	0.00	0.00	1100.88	
9	0.00	0.00	14.97	71.19	21.15	459.18	386.04	480.45	9.20	4.01	0.00	0.00	1446.19	
10	0.00	0.00	14.97	63.50	27.64	556.12	386.04	816.42	9.20	4.01	0.00	0.00	1877.90	
11	0.00	0.00	14.97	55.96	27.64	633.56	406.72	1240.03	9.20	4.01	0.00	0.00	2392.09	
12	0.00	0.00	14.97	55.96	34.40	567.08	417.12	1558.87	9.20	4.01	0.00	0.00	2661.62	
13	0.00	0.00	14.97	48.58	41.39	355.37	427.57	1328.07	9.20	4.01	0.00	0.00	2229.17	
14	0.00	0.00	14.97	48.58	55.96	237.31	448.60	1042.75	9.20	4.01	0.00	0.00	1861.39	
15	0.00	0.00	14.97	41.39	63.50	237.31	459.18	898.72	9.20	4.01	0.00	0.00	1728.29	
16	0.00	0.00	14.97	41.39	79.03	285.53	480.45	769.99	9.20	4.01	0.00	0.00	1684.58	
17	0.00	0.00	14.97	34.40	95.09	325.13	491.15	678.54	9.20	4.01	0.00	0.00	1652.49	
18	0.00	0.00	14.97	34.40	111.61	375.77	491.15	589.10	9.20	4.01	0.00	0.00	1630.22	
19	0.00	0.00	14.97	27.64	128.56	427.57	491.15	501.88	9.20	4.01	0.00	0.00	1604.99	
20	0.00	0.00	14.97	27.64	154.68	480.45	491.15	406.72	9.20	4.01	0.00	0.00	1588.82	
21	0.00	0.00	14.97	27.64	172.52	534.32	480.45	335.16	9.20	4.01	0.00	0.00	1578.27	
22	0.00	0.00	14.97	21.15	190.68	578.08	480.45	266.07	4.01	4.01	0.00	0.00	1559.41	
23	0.00	0.00	14.97	21.15	218.46	438.07	480.45	199.87	4.01	4.01	0.00	0.00	1380.98	
24	0.00	0.00	14.97	14.97	246.84	325.13	480.45	154.68	4.01	4.01	0.00	0.00	1245.06	
25	0.00	0.00	14.97	14.97	266.07	355.37	480.45	103.30	4.01	4.01	0.00	0.00	1243.14	
26	0.00	0.00	14.97	9.20	237.31	375.77	480.45	71.19	4.01	4.01	0.00	0.00	1196.92	
27	0.00	0.00	14.97	9.20	190.68	396.36	427.57	41.39	4.01	4.01	0.00	0.00	1088.19	
28	0.00	0.00	14.97	9.20	154.68	417.12	315.15	21.15	4.01	4.01	0.00	0.00	940.29	
29	0.00	4.01	14.97	9.20	128.56	448.60	218.46	9.20	4.01	4.01		0.00	841.02	
30	0.00	4.01	14.97	9.20	103.30	469.79	145.89	9.20	4.01	4.01		0.00	764.38	
31		9.20		9.20	87.00		87.00		4.01	4.01		0.00	200.42	
Total	0.00	17.22	449.20	1137.12	2963.51	11095.81	12312.88	11999.02	233.37	124.20	12.02	0.00	40344.36	Tonday
Mean	0.00	0.56	14.97	36.68	95.60	369.86	397.19	399.97	7.53	4.01	0.43	0.00	1326.79	Ton/day
Max	0.00	9.20	14.97	79.03	266.07	633.56	491.15	1558.87	9.20	4.01	4.01	0.00	1558.87	Ton/day
Min	0.00	0.00	14.97	9.20	9.20	87.00	87.00	9.20	4.01	4.01	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

Ban Na Lak **Amphoe** Wang Saphung **Changwat** Loei

Drainge Area	1,271 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.9051
Remarks	Continued Sediment Station

$$QS = 1.5514\ QW^{1.46390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.29	1.55	4.28	4.28	162.64	193.24	394.98	203.81	7.75	7.75	38.69	7.75	1093.00
2	58.96	1.55	4.28	7.75	143.18	193.24	306.49	152.81	4.28	7.75	26.78	45.15	952.22
3	51.91	1.55	4.28	4.28	133.76	172.65	282.54	115.53	4.28	7.75	21.37	26.78	826.68
4	45.15	1.55	4.28	4.28	133.76	143.18	236.55	143.18	4.28	7.75	16.37	16.37	756.70
5	32.57	1.55	4.28	4.28	162.64	133.76	236.55	182.85	4.28	7.75	16.37	16.37	803.24
6	21.37	1.55	1.55	4.28	162.64	133.76	282.54	172.65	1.55	7.75	11.81	11.81	813.25
7	21.37	1.55	1.55	652.54	172.65	162.64	318.69	172.65	1.55	7.75	11.81	11.81	1536.55
8	16.37	1.55	4.28	1035.62	270.80	236.55	225.47	318.69	11.81	7.75	11.81	11.81	2152.49
9	11.81	1.55	4.28	448.63	504.41	247.81	182.85	1256.49	7.75	7.75	11.81	7.75	2692.88
10	7.75	1.55	1.55	294.44	318.69	214.55	182.85	4222.31	7.75	7.75	11.81	7.75	5278.74
11	7.75	1.55	1.55	236.55	182.85	182.85	162.64	2195.12	4.28	26.78	66.29	7.75	3075.97
12	7.75	1.55	1.55	162.64	143.18	965.06	162.64	683.58	4.28	16.37	45.15	21.37	2215.11
13	7.75	1.55	1.55	124.54	133.76	1715.68	182.85	236.55	4.28	16.37	32.57	16.37	2473.81
14	4.28	4.28	1.55	106.74	133.76	1612.05	162.64	162.64	4.28	16.37	16.37	11.81	2236.75
15	4.28	4.28	1.55	89.83	143.18	6055.31	162.64	193.24	1.55	11.81	11.81	11.81	6691.28
16	4.28	4.28	1.55	89.83	193.24	2332.22	225.47	225.47	1.55	11.81	11.81	7.75	3109.25
17	7.75	4.28	1.55	106.74	162.64	747.02	331.04	203.81	4.28	11.81	7.75	7.75	1596.40
18	7.75	4.28	4.28	115.53	152.81	462.38	282.54	182.85	32.57	11.81	7.75	11.81	1276.35
19	4.28	4.28	11.81	124.54	143.18	476.26	259.22	172.65	21.37	11.81	7.75	21.37	1258.52
20	4.28	4.28	4.28	124.54	152.81	982.55	247.81	162.64	16.37	7.75	7.75	32.57	1747.61
21	4.28	4.28	4.28	124.54	143.18	1800.05	236.55	152.81	16.37	7.75	21.37	32.57	2548.02
22	4.28	4.28	1.55	133.76	143.18	812.22	214.55	152.81	16.37	7.75	16.37	45.15	1552.26
23	4.28	4.28	1.55	133.76	152.81	462.38	214.55	143.18	11.81	7.75	11.81	21.37	1169.53
24	4.28	4.28	1.55	133.76	182.85	318.69	203.81	143.18	11.81	7.75	11.81	32.57	1056.33
25	4.28	4.28	4.28	133.76	331.04	294.44	214.55	152.81	11.81	7.75	7.75	16.37	1183.11
26	4.28	4.28	4.28	133.76	282.54	282.54	247.81	152.81	11.81	7.75	7.75	16.37	1155.97
27	4.28	4.28	4.28	124.54	270.80	259.22	318.69	143.18	11.81	4.28	7.75	16.37	1169.48
28	1.55	4.28	4.28	124.54	236.55	247.81	306.49	133.76	11.81	4.28	4.28	16.37	1095.99
29	1.55	4.28	1.55	133.76	203.81	203.81	259.22	7.75	11.81	4.28		16.37	848.18
30	1.55	4.28	4.28	143.18	214.55	193.24	236.55	7.75	11.81	4.28		16.37	837.84
31		4.28		182.85	225.47		214.55		7.75	4.28		16.37	655.54
Total	428.28	97.20	97.72	5244.05	6093.38	22237.18	7496.32	12549.58	285.00	288.02	482.45	559.87	55859.05 Tonday
Mean	14.28	3.14	3.26	169.16	196.56	741.24	241.82	418.32	9.19	9.29	17.23	18.06	1841.54 Ton/day
Max	66.29	4.28	11.81	1035.62	504.41	6055.31	394.98	4222.31	32.57	26.78	66.29	45.15	6055.31 Ton/day
Min	1.55	1.55	1.55	4.28	133.76	133.76	162.64	7.75	1.55	4.28	4.28	7.75	1.55 Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Fak Loei **Amphoe** Mueang **Changwat** Loei

Drainge Area	3,093 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	28
R-Square	0.8866
Remarks	Continued Sediment Station

$$QS = 3.1987\ QW^{1.37190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	55.45	21.43	181.68	839.89	742.18	1464.87	1846.65	355.61	143.52	65.18	46.17	131.36	5893.97	
2	75.31	21.43	96.72	1065.84	504.47	820.08	2225.30	294.21	143.52	65.18	46.17	119.49	5477.72	
3	96.72	21.43	75.31	742.18	420.03	592.95	1822.10	181.68	107.94	65.18	46.17	96.72	4268.39	
4	96.72	21.43	55.45	403.65	339.97	470.20	1108.45	131.36	96.72	65.18	55.45	107.94	2952.51	
5	96.72	14.44	55.45	250.31	339.97	309.26	780.87	119.49	85.83	55.45	46.17	119.49	2273.47	
6	96.72	14.44	55.45	250.31	470.20	294.21	1129.92	131.36	75.31	55.45	46.17	119.49	2739.04	
7	96.72	14.44	65.18	920.36	592.95	339.97	2199.47	168.69	46.17	65.18	46.17	119.49	4674.77	
8	96.72	21.43	65.18	2381.98	800.41	521.86	1558.05	704.03	85.83	65.18	46.17	119.49	6466.33	
9	96.72	21.43	55.45	2071.55	1065.84	629.40	900.05	3206.51	75.31	55.45	46.17	119.49	8343.38	
10	85.83	37.37	46.17	1261.07	920.36	723.03	685.16	13537.12	75.31	55.45	46.17	131.36	17604.40	
11	55.45	21.43	46.17	900.05	504.47	704.03	557.09	15999.44	75.31	65.18	46.17	119.49	19094.29	
12	37.37	29.10	46.17	592.95	279.37	780.87	504.47	10006.12	65.18	65.18	46.17	131.36	12584.30	
13	29.10	75.31	37.37	355.61	236.12	3437.22	629.40	3379.14	65.18	75.31	46.17	119.49	8485.42	
14	29.10	85.83	37.37	236.12	222.15	2434.85	521.86	1129.92	65.18	65.18	55.45	119.49	5002.50	
15	29.10	55.45	37.37	222.15	250.31	8114.55	420.03	704.03	55.45	65.18	55.45	131.36	10140.44	
16	29.10	37.37	29.10	155.96	294.21	9773.53	539.40	521.86	55.45	65.18	46.17	131.36	11678.69	
17	29.10	29.10	37.37	181.68	387.46	4154.50	780.87	420.03	65.18	65.18	55.45	119.49	6325.40	
18	29.10	29.10	96.72	181.68	324.52	1773.26	723.03	339.97	65.18	65.18	55.45	107.94	3791.12	
19	21.43	21.43	250.31	222.15	294.21	1511.27	539.40	264.73	65.18	65.18	46.17	107.94	3409.39	
20	21.43	29.10	222.15	264.73	294.21	3466.36	436.58	294.21	65.18	65.18	46.17	119.49	5324.79	
21	21.43	29.10	131.36	294.21	294.21	6997.75	403.65	222.15	65.18	55.45	46.17	143.52	8704.18	
22	21.43	29.10	96.72	264.73	236.12	5394.27	355.61	208.41	65.18	55.45	46.17	143.52	6916.70	
23	21.43	21.43	75.31	279.37	1464.87	2622.32	324.52	194.92	65.18	55.45	75.31	131.36	5331.46	
24	21.43	29.10	65.18	387.46	1748.98	1261.07	279.37	181.68	65.18	55.45	75.31	131.36	4301.55	
25	21.43	85.83	65.18	324.52	1822.10	982.00	371.44	181.68	65.18	55.45	96.72	143.52	4215.03	
26	29.10	55.45	96.72	324.52	1773.26	1418.87	539.40	208.41	65.18	46.17	119.49	143.52	4820.09	
27	21.43	46.17	96.72	264.73	1195.01	1748.98	647.84	194.92	65.18	55.45	119.49	143.52	4599.44	
28	21.43	37.37	131.36	222.15	961.33	1846.65	761.46	181.68	65.18	55.45	119.49	155.96	4559.50	
29	21.43	29.10	168.69	339.97	940.78	1328.08	557.09	155.96	65.18	46.17		143.52	3795.97	
30	21.43	29.10	181.68	900.05	1846.65	1534.61	436.58	143.52	65.18	46.17		131.36	5336.32	
31		55.45		780.87	2980.23		355.61		65.18	46.17		131.36	4414.86	
Total	1425.82	1069.67	2701.04	17882.78	24546.94	67450.87	24940.71	53762.82	2294.89	1847.64	1667.99	3934.26	203525.42	Tonday
Mean	47.53	34.51	90.03	576.86	791.84	2248.36	804.54	1792.09	74.03	59.60	59.57	126.91	6705.88	Ton/day
Max	96.72	85.83	250.31	2381.98	2980.23	9773.53	2225.30	15999.44	143.52	75.31	119.49	155.96	15999.44	Ton/day
Min	21.43	14.44	29.10	155.96	222.15	294.21	279.37	119.49	46.17	46.17	46.17	96.72	14.44	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

Ban Keng Bong **Amphoe** Phu Luang **Changwat** Loei

Drainge Area	549 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.8574
Remarks	Continued Sediment Station

$$QS = 5.5855\ QW^{1.31590}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.62	0.00	5.59	13.91	179.99	146.95	512.32	86.19	34.62	13.91	23.71	23.71	1075.50
2	34.62	0.00	5.59	5.59	197.10	197.10	232.39	23.71	13.91	13.91	23.71	23.71	771.31
3	34.62	0.00	5.59	13.91	179.99	146.95	179.99	23.71	13.91	13.91	23.71	23.71	659.98
4	34.62	5.59	5.59	13.91	179.99	131.05	146.95	23.71	13.91	13.91	23.71	23.71	616.62
5	34.62	5.59	23.71	5.59	179.99	131.05	146.95	34.62	13.91	13.91	23.71	23.71	637.33
6	34.62	5.59	13.91	34.62	179.99	131.05	287.80	23.71	5.59	13.91	23.71	23.71	778.18
7	23.71	5.59	5.59	1813.17	179.99	163.27	214.57	23.71	5.59	13.91	23.71	23.71	2496.49
8	23.71	5.59	5.59	1011.93	250.54	365.83	131.05	72.30	5.59	13.91	23.71	23.71	1933.44
9	5.59	5.59	5.59	365.83	601.04	197.10	115.60	115.60	5.59	13.91	23.71	23.71	1478.83
10	5.59	5.59	5.59	326.25	306.88	197.10	115.60	326.25	5.59	13.91	23.71	23.71	1355.75
11	5.59	5.59	5.59	232.39	197.10	163.27	131.05	86.19	5.59	23.71	23.71	23.71	903.45
12	5.59	5.59	5.59	163.27	163.27	861.16	115.60	72.30	5.59	23.71	23.71	23.71	1469.06
13	5.59	0.00	5.59	115.60	146.95	1037.62	163.27	46.43	5.59	23.71	23.71	23.71	1597.75
14	5.59	5.59	5.59	86.19	131.05	3516.57	115.60	46.43	5.59	23.71	23.71	23.71	3989.31
15	5.59	5.59	5.59	86.19	131.05	6391.24	131.05	46.43	5.59	23.71	23.71	23.71	6879.43
16	5.59	5.59	5.59	72.30	131.05	1063.45	115.60	46.43	5.59	23.71	23.71	23.71	1522.30
17	5.59	5.59	23.71	72.30	131.05	490.69	131.05	46.43	23.71	23.71	23.71	23.71	1001.23
18	5.59	5.59	72.30	115.60	131.05	287.80	115.60	46.43	23.71	23.71	23.71	23.71	874.79
19	5.59	5.59	23.71	179.99	131.05	163.27	115.60	46.43	23.71	23.71	23.71	23.71	766.06
20	5.59	5.59	13.91	163.27	131.05	556.26	115.60	46.43	23.71	23.71	23.71	23.71	1132.52
21	5.59	5.59	5.59	163.27	131.05	534.18	115.60	34.62	23.71	23.71	23.71	23.71	1090.31
22	5.59	5.59	5.59	287.80	131.05	326.25	100.64	34.62	23.71	23.71	23.71	23.71	991.95
23	5.59	5.59	5.59	179.99	131.05	232.39	100.64	34.62	23.71	23.71	23.71	23.71	790.27
24	5.59	5.59	5.59	131.05	131.05	197.10	115.60	34.62	34.62	23.71	23.71	23.71	731.91
25	5.59	5.59	5.59	131.05	131.05	179.99	131.05	46.43	23.71	23.71	23.71	23.71	731.16
26	5.59	5.59	5.59	163.27	131.05	131.05	131.05	34.62	23.71	23.71	23.71	23.71	702.62
27	5.59	5.59	5.59	146.95	197.10	163.27	146.95	34.62	13.91	23.71	23.71	23.71	790.66
28	5.59	5.59	5.59	146.95	179.99	163.27	115.60	34.62	13.91	23.71	23.71	23.71	742.21
29	0.00	5.59	13.91	163.27	131.05	146.95	115.60	34.62	13.91	23.71		23.71	672.30
30	0.00	5.59	23.71	163.27	163.27	163.27	115.60	34.62	13.91	23.71		23.71	730.64
31		5.59		269.01	179.99		115.60		13.91	23.71		23.71	631.51
Total	366.84	150.81	331.73	6837.63	5497.84	18576.46	4637.15	1641.46	469.21	636.94	663.84	734.97	40544.87 Tonday
Mean	12.23	4.86	11.06	220.57	177.35	619.22	149.59	54.72	15.14	20.55	23.71	23.71	1332.68 Ton/day
Max	34.62	5.59	72.30	1813.17	601.04	6391.24	512.32	326.25	34.62	23.71	23.71	23.71	6391.24 Ton/day
Min	0.00	0.00	5.59	5.59	131.05	131.05	100.64	23.71	5.59	13.91	23.71	23.71	0.00 Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at Ban Tha Huai Lua.

Ban Tha Huai Lua **Amphoe** Ban Muang **Changwat** Sakon Nakhon

Drainge Area	2,199 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7931
Remarks	Continued Sediment Station

$$QS = 0.6200\ QW^{1.37620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	227.35	177.57	360.27	326.69	54.91	10.84	7.30	0.00	0.00	1164.93	
2	0.00	0.00	0.00	262.33	210.39	471.37	321.97	49.19	10.84	7.30	0.00	0.00	1333.38	
3	0.00	0.00	0.00	307.91	218.82	540.69	312.58	40.93	10.84	5.68	0.00	0.00	1437.45	
4	0.00	0.00	0.00	331.43	223.08	579.07	307.91	38.27	10.84	5.68	0.00	0.00	1496.28	
5	0.00	0.00	0.62	336.19	240.31	590.17	303.26	33.11	10.84	5.68	0.00	0.00	1520.18	
6	0.00	0.00	1.61	331.43	266.80	629.45	312.58	30.60	10.84	5.68	0.00	0.00	1588.99	
7	0.00	0.00	5.68	321.97	280.32	692.56	326.69	28.15	10.84	5.68	0.00	0.00	1671.90	
8	0.00	0.00	14.74	303.26	294.03	763.25	336.19	28.15	9.02	5.68	0.00	0.00	1754.33	
9	0.00	0.00	21.15	280.32	321.97	793.25	340.97	25.76	9.02	5.68	0.00	0.00	1798.12	
10	0.00	0.00	25.76	253.46	350.58	799.29	336.19	25.76	9.02	5.68	0.00	0.00	1805.74	
11	0.00	0.00	25.76	231.65	360.27	817.47	321.97	25.76	9.02	4.18	0.00	0.00	1796.08	
12	0.00	0.00	28.15	218.82	360.27	817.47	303.26	23.43	9.02	4.18	0.00	0.00	1764.61	
13	0.00	0.00	28.15	135.06	355.42	805.34	275.79	23.43	9.02	4.18	0.00	0.00	1636.38	
14	0.00	0.00	28.15	92.57	350.58	793.25	249.05	23.43	9.02	4.18	0.00	0.00	1550.24	
15	0.00	0.00	30.60	73.08	340.97	775.21	231.65	21.15	9.02	4.18	0.00	0.00	1485.86	
16	0.00	0.00	35.66	60.81	326.69	745.40	218.82	21.15	9.02	4.18	0.00	0.00	1421.74	
17	0.00	0.00	38.27	54.91	307.91	710.06	165.66	18.95	9.02	2.81	0.00	0.00	1307.60	
18	0.00	0.00	38.27	46.39	280.32	675.19	120.41	18.95	9.02	2.81	0.00	0.00	1191.37	
19	0.00	0.00	43.63	40.93	257.88	640.81	95.94	18.95	7.30	2.81	0.00	0.00	1108.26	
20	0.00	0.00	46.39	35.66	244.67	618.16	82.67	16.81	7.30	2.81	0.00	0.00	1054.47	
21	0.00	0.00	49.19	35.66	231.65	595.74	73.08	16.81	7.30	2.81	0.00	0.00	1012.23	
22	0.00	0.00	54.91	35.66	223.08	573.54	63.82	14.74	7.30	1.61	0.00	0.00	974.66	
23	0.00	0.00	63.82	35.66	181.59	546.13	60.81	14.74	7.30	1.61	0.00	0.00	911.65	
24	0.00	0.00	169.60	40.93	177.57	513.72	54.91	14.74	7.30	1.61	0.00	0.00	980.39	
25	0.00	0.00	227.35	49.19	161.74	476.61	52.03	14.74	7.30	0.62	0.00	0.00	989.58	
26	0.00	0.00	231.65	54.91	135.06	440.27	49.19	14.74	7.30	0.62	0.00	0.00	933.73	
27	0.00	0.00	227.35	63.82	113.27	404.73	54.91	12.75	7.30	0.62	0.00	0.00	884.75	
28	0.00	0.00	223.08	76.24	106.24	379.85	60.81	12.75	5.68	0.62	0.00	0.00	865.28	
29	0.00	0.00	218.82	79.44	142.55	350.58	60.81	12.75	5.68	0.00		0.00	870.63	
30	0.00	0.00	218.82	102.78	223.08	331.43	63.82	10.84	5.68	0.00		0.00	956.45	
31		0.00		138.79	257.88		60.81		5.68	0.00		0.00	463.16	
Total	0.00	0.00	2097.20	4658.61	7722.54	18230.31	5945.25	706.45	263.59	106.47	0.00	0.00	39730.43	Tonday
Mean	0.00	0.00	69.91	150.28	249.11	607.68	191.78	23.55	8.50	3.43	0.00	0.00	1304.24	Ton/day
Max	0.00	0.00	231.65	336.19	360.27	817.47	340.97	54.91	10.84	7.30	0.00	0.00	817.47	Ton/day
Min	0.00	0.00	0.00	35.66	106.24	331.43	49.19	10.84	5.68	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Tong Khop **Amphoe** Khok Si Suphan **Changwat** Sakon Nakhon

Drainge Area	861 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.9252
Remarks	Continued Sediment Station

$$QS = 4.4986\ QW^{1.09340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	4.50	4.50	26.14	20.48	43.70	43.70	9.60	4.50	4.50	0.00	0.00	161.62
2	0.00	0.00	4.50	26.14	14.95	37.77	86.90	9.60	4.50	4.50	0.00	0.00	188.86
3	0.00	0.00	4.50	26.14	14.95	31.91	68.09	9.60	4.50	4.50	0.00	0.00	164.18
4	0.00	0.00	4.50	26.14	26.14	31.91	43.70	9.60	4.50	4.50	0.00	0.00	150.99
5	0.00	0.00	4.50	26.14	37.77	37.77	31.91	9.60	4.50	4.50	0.00	0.00	156.68
6	0.00	0.00	4.50	37.77	37.77	43.70	26.14	9.60	4.50	4.50	0.00	0.00	168.47
7	4.50	0.00	4.50	55.78	31.91	80.58	20.48	9.60	4.50	4.50	0.00	0.00	216.35
8	9.60	0.00	4.50	43.70	55.78	80.58	20.48	9.60	4.50	4.50	0.00	4.50	237.74
9	9.60	0.00	9.60	37.77	61.91	61.91	20.48	9.60	4.50	4.50	0.00	20.48	240.34
10	9.60	0.00	9.60	43.70	61.91	49.71	20.48	9.60	4.50	4.50	4.50	37.77	255.86
11	9.60	0.00	9.60	43.70	55.78	138.67	20.48	20.48	4.50	4.50	4.50	26.14	337.95
12	9.60	0.00	9.60	31.91	49.71	527.10	14.95	20.48	4.50	4.50	4.50	20.48	697.33
13	0.00	0.00	9.60	31.91	43.70	226.33	14.95	20.48	4.50	4.50	4.50	9.60	370.07
14	0.00	0.00	9.60	31.91	31.91	497.62	20.48	9.60	4.50	4.50	4.50	4.50	619.11
15	9.60	0.00	9.60	49.71	37.77	274.86	20.48	4.50	4.50	4.50	4.50	4.50	424.51
16	9.60	0.00	9.60	55.78	43.70	86.90	26.14	4.50	4.50	4.50	4.50	4.50	254.21
17	9.60	0.00	9.60	43.70	61.91	80.58	26.14	4.50	4.50	4.50	4.50	0.00	249.53
18	9.60	0.00	9.60	31.91	43.70	55.78	26.14	4.50	4.50	4.50	4.50	4.50	199.22
19	9.60	0.00	9.60	26.14	37.77	55.78	20.48	4.50	4.50	4.50	4.50	4.50	181.86
20	9.60	9.60	14.95	26.14	31.91	49.71	14.95	4.50	4.50	4.50	4.50	4.50	179.36
21	14.95	9.60	14.95	20.48	26.14	37.77	14.95	4.50	4.50	4.50	4.50	0.00	156.85
22	14.95	9.60	14.95	14.95	26.14	31.91	14.95	4.50	4.50	4.50	0.00	9.60	150.56
23	14.95	9.60	14.95	14.95	26.14	31.91	14.95	9.60	4.50	4.50	0.00	9.60	155.66
24	14.95	4.50	55.78	14.95	61.91	31.91	14.95	9.60	4.50	4.50	0.00	9.60	227.15
25	14.95	4.50	31.91	26.14	93.25	68.09	14.95	4.50	4.50	4.50	0.00	4.50	271.79
26	14.95	4.50	20.48	14.95	99.64	74.31	14.95	4.50	4.50	4.50	0.00	4.50	261.79
27	14.95	4.50	26.14	93.25	68.09	68.09	9.60	4.50	4.50	4.50	0.00	4.50	302.61
28	14.95	4.50	20.48	233.21	74.31	55.78	9.60	4.50	4.50	4.50	0.00	4.50	430.83
29	14.95	4.50	20.48	145.28	106.07	43.70	9.60	4.50	4.50	0.00		0.00	353.58
30	14.95	4.50	26.14	68.09	68.09	49.71	9.60	4.50	4.50	0.00		0.00	250.07
31		4.50		31.91	68.09		9.60		4.50	0.00		4.50	123.09
Total	259.63	78.88	402.81	1400.42	1519.29	2986.05	725.30	249.21	139.46	125.96	53.98	197.25	8138.25 Tonday
Mean	8.65	2.54	13.43	45.17	49.01	99.53	23.40	8.31	4.50	4.06	1.93	6.36	266.90 Ton/day
Max	14.95	9.60	55.78	233.21	106.07	527.10	86.90	20.48	4.50	4.50	4.50	37.77	527.10 Ton/day
Min	0.00	0.00	4.50	14.95	14.95	31.91	9.60	4.50	4.50	0.00	0.00	0.00	0.00 Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Don Sawan **Amphoe** That Phanom **Changwat** Nakhon Phanom

Drainge Area	172 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.8879
Remarks	Continued Sediment Station

$$QS = 2.6717\ QW^{1.05010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

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	5.53	0.00	0.00	0.00	0.00	0.00	5.53	
2	0.00	0.00	0.00	0.00	0.00	2.67	5.53	0.00	0.00	0.00	0.00	0.00	8.20	
3	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	2.67	
4	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	2.67	
5	0.00	0.00	0.00	2.67	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	8.02	
6	0.00	0.00	0.00	36.31	2.67	8.47	2.67	0.00	0.00	0.00	0.00	0.00	50.12	
7	0.00	0.00	0.00	26.84	2.67	8.47	2.67	0.00	0.00	0.00	0.00	0.00	40.66	
8	0.00	0.00	0.00	11.46	2.67	5.53	0.00	0.00	0.00	0.00	0.00	0.00	19.66	
9	0.00	0.00	0.00	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	5.34	
10	0.00	0.00	0.00	5.53	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	8.20	
11	0.00	0.00	0.00	2.67	0.00	33.14	0.00	0.00	0.00	0.00	0.00	0.00	35.81	
12	0.00	0.00	0.00	5.53	2.67	55.58	0.00	0.00	0.00	0.00	0.00	0.00	63.79	
13	0.00	0.00	0.00	5.53	2.67	42.69	0.00	0.00	0.00	0.00	0.00	0.00	50.89	
14	0.00	0.00	0.00	2.67	2.67	49.12	0.00	0.00	0.00	0.00	0.00	0.00	54.46	
15	0.00	0.00	0.00	2.67	2.67	39.49	0.00	0.00	0.00	0.00	0.00	0.00	44.84	
16	0.00	0.00	0.00	2.67	2.67	17.54	2.67	0.00	0.00	0.00	0.00	0.00	25.55	
17	0.00	0.00	0.00	0.00	2.67	8.47	2.67	0.00	0.00	0.00	0.00	0.00	13.81	
18	0.00	0.00	0.00	2.67	2.67	5.53	2.67	0.00	0.00	0.00	0.00	0.00	13.55	
19	0.00	0.00	0.00	2.67	0.00	8.47	2.67	0.00	0.00	0.00	0.00	0.00	13.81	
20	0.00	0.00	0.00	2.67	0.00	14.48	2.67	0.00	0.00	0.00	0.00	0.00	19.82	
21	0.00	0.00	0.00	2.67	0.00	5.53	2.67	0.00	0.00	0.00	0.00	0.00	10.88	
22	0.00	0.00	0.00	0.00	0.00	5.53	2.67	0.00	0.00	0.00	0.00	2.67	10.88	
23	0.00	0.00	2.67	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	2.67	13.36	
24	0.00	0.00	2.67	0.00	2.67	8.47	2.67	0.00	0.00	0.00	0.00	0.00	16.48	
25	0.00	0.00	2.67	0.00	2.67	11.46	2.67	0.00	0.00	0.00	0.00	0.00	19.47	
26	0.00	0.00	0.00	0.00	2.67	5.53	0.00	0.00	0.00	0.00	0.00	0.00	8.20	
27	0.00	0.00	2.67	0.00	2.67	5.53	0.00	0.00	0.00	0.00	0.00	0.00	10.88	
28	0.00	0.00	2.67	0.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	8.02	
29	0.00	0.00	2.67	0.00	2.67	2.67	0.00	0.00	0.00	0.00		0.00	8.02	
30	0.00	0.00	2.67	0.00	2.67	5.53	0.00	0.00	0.00	0.00		0.00	10.88	
31		0.00		0.00	2.67		0.00		0.00	0.00		0.00	2.67	
Total	0.00	0.00	18.70	117.92	53.43	360.60	51.14	0.00	0.00	0.00	0.00	5.34	607.14	Tonday
Mean	0.00	0.00	0.62	3.80	1.72	12.02	1.65	0.00	0.00	0.00	0.00	0.17	19.99	Ton/day
Max	0.00	0.00	2.67	36.31	2.67	55.58	5.53	0.00	0.00	0.00	0.00	2.67	55.58	Ton/day
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	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Kan Luang Dong **Amphoe** Dong Luang **Changwat** Muk Dahan

Drainge Area	1,119 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.9200
Remarks	Continued Sediment Station

$$QS = 4.2159\ QW^{1.17080}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	4.22	15.26	21.37	41.15	548.99	9.49	4.22	4.22	0.00	0.00	648.90	
2	0.00	0.00	4.22	9.49	15.26	48.11	307.40	9.49	4.22	4.22	0.00	0.00	402.40	
3	0.00	0.00	4.22	9.49	21.37	27.75	132.45	9.49	4.22	4.22	0.00	0.00	213.20	
4	0.00	0.00	0.00	9.49	21.37	27.75	77.34	9.49	4.22	4.22	0.00	0.00	153.87	
5	0.00	0.00	0.00	9.49	92.64	100.43	55.22	4.22	4.22	4.22	0.00	0.00	270.43	
6	0.00	0.00	4.22	499.12	41.15	148.92	48.11	9.49	4.22	4.22	0.00	0.00	759.43	
7	0.00	0.00	9.49	579.24	27.75	84.94	48.11	9.49	4.22	4.22	0.00	0.00	767.45	
8	0.00	0.00	157.25	62.47	21.37	92.64	41.15	9.49	4.22	4.22	0.00	0.00	392.80	
9	0.00	0.00	48.11	27.75	21.37	182.64	34.35	15.26	4.22	4.22	0.00	4.22	342.13	
10	0.00	4.22	9.49	21.37	27.75	69.85	34.35	9.49	4.22	4.22	0.00	4.22	189.16	
11	0.00	4.22	4.22	27.75	21.37	1202.13	27.75	9.49	4.22	4.22	0.00	4.22	1309.57	
12	0.00	4.22	4.22	15.26	27.75	1782.54	27.75	9.49	4.22	4.22	0.00	4.22	1883.87	
13	0.00	4.22	4.22	15.26	41.15	335.27	21.37	9.49	4.22	4.22	0.00	4.22	443.61	
14	0.00	4.22	4.22	15.26	21.37	1628.51	21.37	9.49	4.22	0.00	0.00	4.22	1712.86	
15	0.00	0.00	4.22	15.26	15.26	489.23	21.37	9.49	4.22	0.00	0.00	4.22	563.25	
16	0.00	0.00	4.22	9.49	21.37	191.22	21.37	4.22	4.22	0.00	0.00	4.22	260.32	
17	0.00	0.00	4.22	9.49	21.37	157.25	21.37	4.22	4.22	0.00	0.00	69.85	291.98	
18	0.00	0.00	4.22	9.49	15.26	116.28	21.37	4.22	4.22	0.00	0.00	15.26	190.30	
19	0.00	0.00	4.22	9.49	9.49	116.28	21.37	4.22	4.22	0.00	0.00	9.49	178.77	
20	0.00	4.22	4.22	9.49	9.49	108.31	21.37	4.22	4.22	0.00	0.00	9.49	175.02	
21	0.00	4.22	4.22	9.49	9.49	69.85	15.26	4.22	4.22	0.00	0.00	199.86	320.82	
22	0.00	4.22	4.22	9.49	9.49	55.22	15.26	4.22	4.22	0.00	0.00	157.25	263.58	
23	0.00	4.22	21.37	21.37	27.75	55.22	15.26	4.22	4.22	0.00	0.00	34.35	187.97	
24	0.00	4.22	124.33	15.26	116.28	640.43	15.26	4.22	4.22	0.00	0.00	21.37	945.56	
25	0.00	0.00	21.37	9.49	279.90	298.20	15.26	4.22	4.22	0.00	0.00	27.75	660.40	
26	0.00	0.00	15.26	9.49	132.45	157.25	15.26	4.22	4.22	0.00	0.00	9.49	347.64	
27	0.00	4.22	21.37	116.28	41.15	108.31	15.26	4.22	4.22	0.00	0.00	4.22	319.23	
28	0.00	4.22	15.26	77.34	69.85	84.94	15.26	4.22	4.22	0.00	0.00	4.22	279.50	
29	0.00	4.22	9.49	48.11	132.45	157.25	15.26	4.22	4.22	0.00		4.22	379.43	
30	0.00	4.22	9.49	21.37	55.22	217.30	9.49	4.22	4.22	0.00		4.22	329.74	
31		4.22		15.26	27.75		9.49		4.22	0.00		4.22	65.15	
Total	0.00	63.24	529.73	1732.36	1417.03	8795.15	1710.23	206.10	130.69	54.81	0.00	608.97	15248.33	Tonday
Mean	0.00	2.04	17.66	55.88	45.71	293.17	55.17	6.87	4.22	1.77	0.00	19.64	502.13	Ton/day
Max	0.00	4.22	157.25	579.24	279.90	1782.54	548.99	15.26	4.22	4.22	0.00	199.86	1782.54	Ton/day
Min	0.00	0.00	0.00	9.49	9.49	27.75	9.49	4.22	4.22	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

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

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

Drainge Area	760 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.7307
Remarks	Continued Sediment Station

$$QS = 5.7453\ QW^{0.88250}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	70.01	51.49	139.08	194.16	105.32	10.59	0.00	0.00	0.00	0.00	570.64	
2	0.00	0.00	70.01	51.49	142.39	190.98	108.75	10.59	0.00	0.00	0.00	0.00	574.21	
3	0.00	0.00	51.49	43.83	145.69	181.41	115.58	10.59	0.00	0.00	0.00	0.00	548.59	
4	0.00	0.00	36.00	36.00	142.39	171.77	125.72	10.59	0.00	0.00	0.00	0.00	522.46	
5	0.00	0.00	27.93	32.00	145.69	162.05	148.98	10.59	0.00	0.00	0.00	0.00	527.24	
6	0.00	0.00	15.15	32.00	142.39	162.05	148.98	5.75	0.00	0.00	0.00	0.00	506.31	
7	0.00	0.00	10.59	32.00	139.08	171.77	148.98	5.75	0.00	0.00	0.00	0.00	508.16	
8	0.00	0.00	5.75	43.83	135.75	165.30	142.39	5.75	0.00	0.00	0.00	0.00	498.77	
9	0.00	0.00	0.00	47.68	132.42	152.26	135.75	5.75	0.00	0.00	0.00	0.00	473.86	
10	0.00	0.00	5.75	43.83	129.08	152.26	132.42	5.75	0.00	0.00	0.00	0.00	469.08	
11	0.00	0.00	36.00	32.00	125.72	155.54	129.08	10.59	0.00	0.00	0.00	0.00	488.92	
12	0.00	0.00	51.49	23.78	122.35	152.26	115.58	10.59	0.00	0.00	0.00	0.00	476.05	
13	0.00	0.00	62.69	15.15	115.58	145.69	105.32	10.59	0.00	0.00	0.00	0.00	455.01	
14	0.00	0.00	51.49	10.59	105.32	145.69	87.90	10.59	0.00	0.00	0.00	0.00	411.58	
15	0.00	0.00	27.93	10.59	91.42	135.75	58.99	10.59	0.00	0.00	0.00	0.00	335.27	
16	0.00	0.00	15.15	5.75	70.01	129.08	55.25	10.59	0.00	0.00	0.00	0.00	285.83	
17	0.00	0.00	10.59	5.75	51.49	132.42	47.68	10.59	0.00	0.00	0.00	0.00	258.52	
18	0.00	0.00	10.59	5.75	39.94	135.75	43.83	5.75	0.00	0.00	0.00	0.00	241.61	
19	0.00	0.00	32.00	5.75	32.00	135.75	39.94	0.00	0.00	0.00	0.00	0.00	245.43	
20	0.00	0.00	47.68	0.00	27.93	135.75	36.00	0.00	0.00	0.00	0.00	0.00	247.36	
21	0.00	0.00	70.01	15.15	23.78	132.42	32.00	0.00	0.00	0.00	0.00	0.00	273.36	
22	0.00	0.00	66.37	27.93	15.15	125.72	27.93	0.00	0.00	0.00	0.00	0.00	263.09	
23	0.00	0.00	58.99	27.93	15.15	118.97	23.78	0.00	0.00	0.00	0.00	0.00	244.81	
24	0.00	0.00	39.94	77.23	32.00	108.75	19.53	0.00	0.00	0.00	0.00	0.00	277.45	
25	0.00	0.00	47.68	91.42	55.25	94.92	27.93	0.00	0.00	0.00	0.00	0.00	317.20	
26	0.00	0.00	43.83	84.37	70.01	80.81	32.00	0.00	0.00	0.00	0.00	0.00	311.02	
27	0.00	0.00	32.00	73.64	84.37	62.69	39.94	0.00	0.00	0.00	0.00	0.00	292.63	
28	0.00	15.15	23.78	77.23	132.42	84.37	36.00	0.00	0.00	0.00	0.00	0.00	368.95	
29	0.00	39.94	19.53	98.40	158.80	94.92	32.00	0.00	0.00	0.00		0.00	443.58	
30	0.00	55.25	36.00	115.58	171.77	101.87	23.78	0.00	0.00	0.00		0.00	504.24	
31		62.69		132.42	181.41		15.15		0.00	0.00		0.00	391.67	
Total	0.00	173.04	1076.40	1350.53	3115.79	4113.12	2342.45	161.57	0.00	0.00	0.00	0.00	12332.90	Tonday
Mean	0.00	5.58	35.88	43.57	100.51	137.10	75.56	5.39	0.00	0.00	0.00	0.00	403.59	Ton/day
Max	0.00	62.69	70.01	132.42	181.41	194.16	148.98	10.59	0.00	0.00	0.00	0.00	194.16	Ton/day
Min	0.00	0.00	0.00	0.00	15.15	62.69	15.15	0.00	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge.

Ban Tha Kok Daeng **Amphoe** Se Ka **Changwat** Bueng Kan

Drainge Area	5,089 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	19
R-Square	0.9454
Remarks	Continued Sediment Station

$$QS = 3.5665\ QW^{0.99870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.51	30.23	92.34	609.35	584.58	1113.66	1601.06	175.65	28.45	24.90	27.39	22.06	4328.18
2	18.51	30.23	95.88	783.39	591.66	1180.48	1579.86	160.76	28.45	24.90	27.39	22.06	4543.58
3	18.51	30.23	85.95	956.68	579.27	1221.84	1553.36	143.04	28.45	24.90	26.32	22.06	4690.62
4	18.51	30.23	73.18	1101.64	568.66	1243.05	1510.95	131.34	28.81	25.26	23.48	22.06	4777.17
5	18.51	30.23	57.21	1186.49	575.73	1280.16	1481.27	119.29	29.88	25.61	23.13	22.06	4849.56
6	18.51	30.23	54.73	1231.38	817.35	1353.33	1436.74	110.07	30.59	25.26	23.13	22.06	5153.36
7	18.51	30.23	53.66	1248.70	897.98	1466.42	1374.89	98.72	30.59	25.26	23.13	21.70	5289.79
8	18.86	30.23	63.25	1261.07	936.17	1542.76	1303.14	90.21	29.88	25.26	23.13	20.64	5344.58
9	23.48	30.23	112.20	1270.97	945.36	1599.30	1270.97	83.82	29.17	25.26	23.13	20.99	5434.88
10	23.84	30.23	151.55	1266.02	940.77	1626.15	1211.59	78.86	29.17	25.26	23.13	21.70	5428.26
11	23.84	30.23	172.46	1261.07	868.27	1653.01	1120.03	75.31	29.17	25.61	23.13	21.35	5303.47
12	23.84	30.23	169.27	1263.55	876.41	1679.86	1034.82	78.15	29.17	25.61	23.13	21.70	5255.73
13	23.84	30.23	147.29	1266.02	888.78	1713.43	945.36	91.63	28.45	25.61	22.06	21.70	5204.42
14	23.84	30.23	124.96	1293.24	913.54	1763.25	861.91	113.61	27.03	25.61	21.70	21.70	5220.63
15	23.84	30.23	108.65	1308.09	934.76	1785.51	772.78	119.29	26.68	25.61	21.70	21.70	5178.84
16	23.84	30.23	96.59	1313.03	949.96	1800.35	694.61	123.54	27.03	25.61	21.70	22.42	5128.92
17	25.61	30.23	90.92	1293.24	956.33	1792.93	589.89	129.57	27.39	25.61	21.70	23.48	5006.90
18	25.61	30.23	96.59	1251.18	959.51	1785.51	477.00	134.18	27.03	24.90	21.70	23.84	4857.29
19	25.61	30.23	119.29	1181.89	964.46	1807.77	405.15	136.66	27.03	24.19	21.70	23.84	4767.82
20	26.68	30.23	162.89	1108.36	974.36	1800.35	381.43	130.28	27.03	23.84	21.70	23.84	4710.98
21	26.68	27.74	185.22	972.94	986.03	1785.51	326.90	120.00	25.97	23.48	21.70	23.48	4525.66
22	26.68	27.74	184.15	756.86	998.40	1755.83	284.41	106.52	24.90	23.13	21.70	23.13	4233.46
23	26.68	27.74	186.28	696.73	1009.01	1821.19	244.74	86.66	24.90	23.13	21.70	23.48	4192.25
24	26.68	28.10	210.73	694.61	1016.08	1794.34	219.23	76.73	24.90	23.13	21.70	23.84	4160.07
25	28.45	30.23	336.82	682.93	1019.62	1768.19	202.22	63.25	24.90	23.13	21.70	23.48	4224.94
26	28.81	30.59	472.05	626.68	1016.08	1736.04	203.29	50.47	24.90	23.13	22.06	23.13	4257.22
27	28.81	31.65	531.15	572.20	986.03	1725.80	206.48	41.95	24.90	23.13	22.06	23.13	4217.27
28	28.81	33.78	552.73	527.96	959.51	1696.47	206.48	38.40	24.90	23.13	22.06	23.13	4137.36
29	29.17	41.24	550.96	516.64	957.39	1659.37	202.22	33.78	24.90	23.84		24.19	4063.70
30	30.23	57.21	547.43	526.19	980.72	1630.39	191.59	29.88	24.90	26.32		24.19	4069.07
31		78.15		552.73	1028.10		183.09		24.90	27.39		24.19	1918.56
Total	723.26	1018.81	5886.38	30581.87	27680.87	48582.22	24077.45	2971.62	844.45	767.00	638.29	702.33	144474.53 Tonday
Mean	24.11	32.86	196.21	986.51	892.93	1619.41	776.69	99.05	27.24	24.74	22.80	22.66	4725.22 Ton/day
Max	30.23	78.15	552.73	1313.03	1028.10	1821.19	1601.06	175.65	30.59	27.39	27.39	24.19	1821.19 Ton/day
Min	18.51	27.74	53.66	516.64	568.66	1113.66	183.09	29.88	24.90	23.13	21.70	20.64	18.51 Ton/day

WATER YEAR : 2016

KHONG RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Non Toom **Amphoe** Mueang **Changwat** Udon Thani

Drainge Area	1,235 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.8552
Remarks	Continued Sediment Station

$$QS = 2.4273\ QW^{1.30810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.43	172.21	130.23	342.71	49.34	49.34	2.43	0.00	0.00	2.43	751.11	
2	0.00	0.00	2.43	198.65	106.45	352.93	83.86	30.95	2.43	0.00	0.00	2.43	780.12	
3	0.00	0.00	2.43	198.65	62.63	332.55	83.86	19.93	2.43	0.00	0.00	2.43	704.91	
4	0.00	0.00	6.01	163.59	25.29	292.68	83.86	14.88	2.43	0.00	0.00	2.43	591.18	
5	0.00	0.00	6.01	98.78	14.88	244.60	62.63	10.22	2.43	0.00	0.00	2.43	441.97	
6	0.00	0.00	19.93	55.89	10.22	216.76	42.99	10.22	2.43	0.00	0.00	2.43	360.85	
7	0.00	0.00	42.99	36.85	10.22	198.65	42.99	10.22	2.43	0.00	0.00	2.43	346.77	
8	0.00	0.00	30.95	30.95	10.22	198.65	62.63	10.22	2.43	0.00	0.00	2.43	348.46	
9	0.00	0.00	10.22	42.99	10.22	207.66	146.69	14.88	2.43	0.00	0.00	2.43	437.50	
10	0.00	0.00	6.01	62.63	6.01	225.95	114.25	36.85	2.43	0.00	0.00	2.43	456.56	
11	0.00	0.00	2.43	55.89	6.01	263.59	83.86	42.99	2.43	0.00	0.00	2.43	459.63	
12	0.00	0.00	2.43	36.85	6.01	273.20	69.55	49.34	2.43	0.00	0.00	2.43	442.24	
13	0.00	0.00	2.43	19.93	6.01	263.59	49.34	49.34	2.43	0.00	0.00	2.43	395.49	
14	0.00	0.00	2.43	10.22	6.01	235.23	36.85	30.95	2.43	0.00	2.43	2.43	328.96	
15	0.00	0.00	2.43	6.01	2.43	225.95	30.95	19.93	2.43	2.43	0.00	2.43	294.97	
16	0.00	0.00	2.43	6.01	2.43	225.95	36.85	14.88	2.43	2.43	0.00	2.43	295.83	
17	0.00	0.00	6.01	6.01	2.43	216.76	69.55	10.22	2.43	2.43	0.00	2.43	318.25	
18	0.00	0.00	6.01	6.01	2.43	207.66	76.63	6.01	2.43	2.43	0.00	2.43	312.02	
19	0.00	0.00	10.22	6.01	2.43	198.65	69.55	6.01	2.43	2.43	0.00	2.43	300.14	
20	0.00	0.00	42.99	2.43	2.43	180.92	55.89	2.43	2.43	2.43	0.00	2.43	294.37	
21	0.00	0.00	69.55	2.43	2.43	146.69	36.85	2.43	2.43	2.43	0.00	2.43	267.65	
22	0.00	0.00	30.95	6.01	2.43	122.18	30.95	2.43	2.43	2.43	0.00	2.43	202.22	
23	0.00	0.00	10.22	25.29	6.01	106.45	25.29	2.43	0.00	2.43	0.00	2.43	180.55	
24	0.00	0.00	10.22	19.93	25.29	122.18	25.29	2.43	0.00	2.43	2.43	2.43	212.62	
25	0.00	0.00	10.22	14.88	42.99	49.34	25.29	2.43	0.00	2.43	2.43	2.43	152.43	
26	0.00	0.00	14.88	6.01	62.63	36.85	30.95	2.43	0.00	2.43	2.43	2.43	161.03	
27	0.00	0.00	19.93	6.01	98.78	30.95	83.86	2.43	0.00	2.43	2.43	2.43	249.24	
28	0.00	0.00	30.95	2.43	163.59	25.29	130.23	2.43	0.00	2.43	2.43	2.43	362.20	
29	0.00	0.00	76.63	2.43	225.95	19.93	91.25	2.43	0.00	2.43		2.43	423.46	
30	0.00	0.00	138.40	19.93	282.90	25.29	49.34	2.43	0.00	2.43		2.43	523.15	
31		2.43		114.25	312.47		55.89		0.00	0.00		2.43	487.47	
Total	0.00	2.43	621.10	1436.16	1650.44	5589.77	1937.33	464.06	53.40	38.84	14.56	75.25	11883.34	Tonday
Mean	0.00	0.08	20.70	46.33	53.24	186.33	62.49	15.47	1.72	1.25	0.52	2.43	390.56	Ton/day
Max	0.00	2.43	138.40	198.65	312.47	352.93	146.69	49.34	2.43	2.43	2.43	2.43	352.93	Ton/day
Min	0.00	0.00	2.43	2.43	2.43	19.93	25.29	2.43	0.00	0.00	0.00	2.43	0.00	Ton/day

WATER YEAR : 2016

NAM MAE ING RIVER BASIN

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

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

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

	Ban Nam Ing		**Amphoe** Khun Tan	**Changwat** Chiang Rai	
Drainge Area	6,266 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	1994-Cont'd				
Actual Measurement	1994-Cont'd				
Using Rating Curve Water Year	2016				
Number of observation	23				
R-Square	0.6890				
Remarks	Continued Sediment Station				

$$QS = 1.0660\ QW^{1.35200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	11.91	26.94	277.62	1971.86	2268.84	312.19	260.58	1.14	1.14	0.00	5132.21	
2	0.00	0.00	31.72	80.97	213.52	1898.14	2289.53	309.16	213.52	1.14	0.94	0.00	5038.64	
3	0.00	0.00	62.86	147.83	111.65	1681.49	2275.74	327.27	177.71	0.94	0.84	0.00	4786.32	
4	0.00	0.00	89.08	156.22	83.65	1564.08	2197.29	358.43	145.76	0.84	0.75	0.00	4596.09	
5	0.00	0.00	97.39	73.06	75.67	1455.15	2108.85	364.74	137.52	1.14	0.00	0.00	4313.51	
6	0.00	0.00	103.03	129.41	100.20	1352.28	2046.29	355.22	100.20	3.58	0.00	0.00	4190.21	
7	0.00	0.00	141.62	141.62	188.71	1311.69	1941.06	336.45	55.48	6.14	0.00	0.00	4122.78	
8	0.00	0.00	48.00	135.48	202.15	1413.76	1831.18	416.81	28.11	6.83	0.00	0.00	4082.33	
9	0.00	0.00	36.69	119.46	255.77	1470.75	1622.56	740.94	24.63	7.54	0.00	0.00	4278.33	
10	0.00	0.00	28.11	103.03	291.32	1455.15	1481.17	966.69	21.17	8.27	0.00	0.00	4354.90	
11	0.00	0.00	22.02	55.48	211.23	1491.61	1408.61	945.53	19.49	10.74	0.00	0.00	4164.71	
12	0.00	0.00	20.32	41.44	416.81	1651.96	1326.87	1055.98	28.11	14.97	0.00	0.00	4556.48	
13	0.00	0.00	11.32	36.69	345.71	1800.98	1276.44	1000.79	25.77	43.06	0.00	0.00	4540.75	
14	0.00	0.00	9.01	34.18	615.63	1916.48	1251.41	862.14	20.32	49.68	0.00	0.00	4758.86	
15	0.00	0.00	7.54	44.69	966.69	1916.48	1177.12	886.95	13.11	39.84	0.00	0.00	5052.41	
16	0.00	11.32	6.48	60.37	1517.80	2289.53	1070.34	932.89	11.32	18.67	0.00	0.00	5918.72	
17	0.00	15.61	4.81	51.37	1831.18	1794.99	1017.95	953.98	8.64	10.16	0.00	0.00	5688.69	
18	0.00	17.05	4.81	38.26	1693.36	1788.91	983.70	992.23	7.90	9.01	0.00	0.00	5535.24	
19	0.00	55.48	3.88	32.94	1301.59	1861.51	932.89	1009.36	9.01	7.54	0.00	0.00	5214.22	
20	0.00	17.85	2.78	34.18	1162.40	2046.29	878.66	1000.79	7.54	6.83	0.00	0.00	5157.32	
21	0.00	83.65	5.14	75.67	1891.97	2121.44	870.39	958.21	6.83	5.14	0.00	0.00	6018.44	
22	0.00	48.00	25.77	275.17	2171.90	2165.61	809.04	920.30	6.48	4.19	0.00	0.00	6426.45	
23	0.00	31.72	78.31	336.45	2241.86	2197.29	768.79	882.80	5.80	4.19	0.00	0.00	6547.21	
24	0.00	25.77	133.45	384.03	2171.90	2121.44	626.60	800.95	5.14	3.88	0.00	0.00	6273.15	
25	0.00	22.02	103.03	265.42	2222.66	2108.85	501.51	689.94	4.19	3.58	0.00	0.00	5921.19	
26	0.00	14.35	83.65	206.68	2351.90	2108.85	443.48	648.76	4.19	3.29	0.00	0.00	5865.13	
27	0.00	11.91	60.37	227.38	2268.84	2133.95	433.40	579.32	2.78	2.94	0.00	0.00	5720.89	
28	0.00	11.32	31.72	246.21	2171.90	2159.23	377.63	494.58	1.14	2.45	0.00	0.00	5496.17	
29	0.00	10.16	26.94	258.17	2178.18	2197.29	364.74	367.97	0.94	1.98		0.00	5406.37	
30	0.00	9.01	22.02	270.28	2190.88	2241.86	371.14	336.45	0.84	1.68		0.00	5444.17	
31		7.54		277.62	2140.31		324.26		0.75	1.46		0.00	2751.94	
Total	0.00	392.75	1313.78	4366.73	35864.95	55688.90	37277.48	20807.80	1354.96	282.81	3.67	0.00	157353.83	Tonday
Mean	0.00	12.67	43.79	140.86	1156.93	1856.30	1202.50	693.59	43.71	9.12	0.13	0.00	5159.61	Ton/day
Max	0.00	83.65	141.62	384.03	2351.90	2289.53	2289.53	1055.98	260.58	49.68	1.14	0.00	2351.90	Ton/day
Min	0.00	0.00	2.78	26.94	75.67	1311.69	324.26	309.16	0.75	0.84	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

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

Ban Ton Yang **Amphoe** Mae Lao **Changwat** Chiang Rai

Drainge Area	2,909 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.9580
Remarks	Continued Sediment Station

$$QS = 3.8240\ QW^{1.54000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.86	0.73	615.24	8.82	1036.48	540.34	295.05	1377.47	787.51	217.25	20.87	3.36	4903.97	
2	0.86	0.73	459.72	21.62	552.41	231.99	356.57	1377.47	764.74	228.27	20.87	3.36	4018.63	
3	0.86	0.73	393.02	17.85	252.42	105.49	339.96	1558.17	753.45	285.91	20.87	3.36	3732.08	
4	0.73	0.73	430.69	16.66	89.01	51.04	347.66	1036.48	742.21	273.97	15.58	2.61	3007.36	
5	0.73	0.73	356.57	13.51	64.77	51.04	479.45	774.96	708.86	233.73	13.15	2.61	2700.11	
6	0.73	0.73	287.78	7.96	212.17	108.90	552.41	654.13	708.86	190.43	11.21	2.26	2737.57	
7	0.73	0.73	140.22	10.61	499.46	519.76	530.01	577.53	686.93	166.64	8.97	2.26	3143.85	
8	0.73	0.73	42.54	33.34	552.41	1634.39	552.41	627.87	643.80	149.28	6.92	1.92	4246.34	
9	0.73	0.73	10.61	76.55	266.37	1142.87	449.97	774.96	527.69	136.70	7.58	1.61	3396.37	
10	0.73	0.73	5.39	85.84	126.52	1355.72	273.44	1715.88	527.69	128.53	7.58	1.61	4229.65	
11	0.73	0.73	4.43	135.67	61.93	1939.19	231.99	5399.02	527.69	217.25	8.27	1.32	8528.21	
12	0.73	0.73	3.82	73.54	40.64	1607.37	984.46	6984.51	491.03	382.01	8.27	1.32	10578.43	
13	0.73	0.73	3.82	25.63	35.12	2142.04	3573.02	3579.51	482.01	366.44	8.27	1.12	10218.44	
14	0.60	0.73	3.82	20.34	38.77	2873.54	2240.87	2204.11	537.00	256.52	8.27	1.12	8185.68	
15	0.60	0.73	3.82	16.66	36.93	3260.44	1534.98	1676.95	473.05	153.55	8.27	0.93	7166.91	
16	0.60	1.01	3.53	14.54	31.59	3086.37	933.78	1406.34	446.53	136.70	9.70	0.93	6071.62	
17	0.73	1.01	3.25	16.66	29.88	1995.97	693.49	1338.69	430.07	85.14	8.97	0.93	4604.78	
18	0.73	1.16	2.98	13.51	21.62	2308.36	393.02	1206.94	405.64	76.22	8.27	0.93	4439.37	
19	0.73	1.16	2.98	11.55	22.93	3527.76	332.32	1142.87	405.64	76.22	7.58	0.93	5532.67	
20	0.73	3.82	2.98	13.51	365.57	3527.76	252.42	1068.99	405.64	73.21	6.28	0.93	5721.84	
21	0.73	1.97	5.73	25.63	1634.39	4019.78	212.17	1039.84	390.03	70.41	5.06	0.93	7406.68	
22	0.73	1.74	11.55	76.55	1269.06	3393.18	218.71	968.01	366.44	70.41	3.77	0.93	6381.08	
23	0.73	3.53	10.61	121.93	1312.14	1995.97	195.09	912.01	405.64	70.41	3.77	0.93	5032.76	
24	0.73	10.61	8.82	200.49	1205.17	1107.01	179.42	857.20	446.53	46.30	3.77	0.60	4066.62	
25	0.73	10.61	8.82	205.71	1534.98	802.82	280.58	833.74	413.83	39.70	3.36	0.60	4135.46	
26	0.73	6.07	8.82	108.90	1534.98	900.39	720.29	810.51	292.08	31.35	3.36	0.60	4418.07	
27	0.73	6.07	11.55	33.34	1018.89	707.03	1399.80	776.10	273.97	23.71	3.36	0.60	4255.14	
28	0.73	3.82	6.07	22.93	789.04	693.49	1269.06	798.98	256.52	20.87	3.77	0.60	3865.87	
29	0.73	3.82	5.73	40.64	884.06	440.29	867.43	833.74	245.03	19.50		0.60	3341.57	
30	0.73	5.73	7.96	225.31	1124.67	309.77	1290.31	845.44	222.62	18.16		0.76	4051.45	
31		149.70		734.01	1184.42		1634.39		222.62	16.85		0.76	3942.75	
Total	21.81	222.72	2862.88	2429.82	17828.78	46380.06	23614.52	45158.40	14991.37	4261.64	245.97	43.33	158061.31	Tonday
Mean	0.73	7.18	95.43	78.38	575.12	1546.00	761.76	1505.28	483.59	137.47	8.78	1.40	5201.13	Ton/day
Max	0.86	149.70	615.24	734.01	1634.39	4019.78	3573.02	6984.51	787.51	382.01	20.87	3.36	6984.51	Ton/day
Min	0.60	0.73	2.98	7.96	21.62	51.04	179.42	577.53	222.62	16.85	3.36	0.60	0.60	Ton/day

WATER YEAR : 2016

NAM MAE KOK RIVER BASIN

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

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

Location : on right bank at the bridge on road.

Ban Kariang Thung Phrao **Amphoe** Mae Suai **Changwat** Chiang Rai

Drainge Area	386 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.6350
Remarks	Continued Sediment Station

$$QS = 1.9860\ QW^{1.58000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	1.18	171.22	14.57	59.06	28.52	37.67	52.44	15.83	11.03	9.93	1.77	404.42
2	1.18	1.18	204.37	20.34	40.10	26.38	40.10	149.06	15.83	12.17	9.93	1.77	522.43
3	1.01	1.37	149.06	26.38	30.72	26.38	30.72	86.64	15.83	11.03	9.93	1.77	390.85
4	1.01	1.56	69.51	30.72	28.52	26.38	30.72	59.06	14.57	11.03	9.93	1.77	284.79
5	1.01	1.77	46.12	40.10	37.67	26.38	40.10	52.44	14.57	13.35	9.93	1.77	285.23
6	0.84	1.77	22.29	43.07	46.12	43.07	59.06	46.12	14.57	12.17	8.88	1.77	299.74
7	0.84	1.77	9.93	52.44	65.96	77.54	43.07	30.72	14.57	12.17	6.90	1.77	317.70
8	0.84	1.77	6.90	82.05	86.64	59.06	40.10	35.30	14.57	12.17	6.32	1.56	347.29
9	0.84	1.77	6.32	59.06	40.10	49.25	30.72	65.96	14.57	12.17	5.75	1.56	288.07
10	0.84	1.77	5.75	49.25	30.72	49.25	30.72	86.64	13.35	11.03	4.68	1.37	285.37
11	0.84	1.56	5.75	40.10	26.38	105.93	65.96	59.06	13.35	9.93	4.68	1.18	334.74
12	0.84	1.37	5.20	30.72	24.30	59.06	116.10	52.44	13.35	9.93	4.68	1.18	319.19
13	0.84	1.18	4.68	24.30	24.30	46.12	52.44	30.72	13.35	9.93	4.17	1.37	213.42
14	0.84	1.56	4.68	20.34	30.72	30.72	30.72	30.72	13.35	9.93	4.17	1.56	179.33
15	0.84	1.99	4.68	13.35	40.10	30.72	30.72	30.72	13.35	8.88	3.69	1.56	180.60
16	0.84	2.79	4.68	11.03	20.34	30.72	30.72	30.72	13.35	8.88	3.69	1.56	159.33
17	0.84	3.69	4.68	11.03	13.35	26.38	30.72	32.98	13.35	7.87	3.23	1.56	149.68
18	0.84	4.68	4.68	12.17	13.35	43.07	30.72	40.10	13.35	7.87	3.23	1.77	175.83
19	0.84	4.68	5.20	15.83	43.07	96.11	30.72	37.67	12.17	7.87	2.79	1.77	258.73
20	0.84	4.68	6.90	18.46	186.61	100.98	26.38	32.98	12.17	7.87	2.79	1.77	402.43
21	1.01	4.68	14.57	22.29	69.51	91.33	26.38	32.98	12.17	7.87	2.79	1.77	287.35
22	1.01	4.68	24.30	30.72	52.44	59.06	30.72	32.98	12.17	8.88	2.38	1.77	261.11
23	1.01	4.17	22.29	55.72	46.12	40.10	26.38	32.98	11.03	8.88	2.38	1.56	252.62
24	1.18	4.17	20.34	65.96	30.72	49.25	26.38	30.72	11.03	8.88	2.38	1.37	252.38
25	1.18	5.75	15.83	30.72	28.52	59.06	26.38	30.72	11.03	8.88	1.99	1.37	221.43
26	1.18	4.68	12.17	26.38	26.38	35.30	28.52	30.72	11.03	8.88	1.99	1.37	188.60
27	1.18	4.68	11.03	26.38	43.07	30.72	30.72	30.72	11.03	8.88	1.77	1.37	201.56
28	1.18	7.87	9.93	37.67	62.47	30.72	30.72	30.72	9.93	8.88	1.77	1.37	233.24
29	1.18	6.90	8.88	62.47	46.12	32.98	49.25	26.38	9.93	8.88		1.37	254.35
30	1.18	24.30	7.87	82.05	40.10	46.12	69.51	15.83	9.93	8.88		1.37	307.15
31		82.05		96.11	40.10		40.10		9.93	8.88		1.37	278.55
Total	29.27	198.04	889.83	1151.80	1373.74	1456.68	1213.27	1337.27	398.63	303.94	136.74	48.25	8537.47 Tonday
Mean	0.98	6.39	29.66	37.15	44.31	48.56	39.14	44.58	12.86	9.80	4.88	1.56	279.87 Ton/day
Max	1.18	82.05	204.37	96.11	186.61	105.93	116.10	149.06	15.83	13.35	9.93	1.77	204.37 Ton/day
Min	0.84	1.18	4.68	11.03	13.35	26.38	26.38	15.83	9.93	7.87	1.77	1.18	0.84 Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

Ban Non Puai **Amphoe** Ban Khwao **Changwat** Chaiyaphum

Drainge Area	4,207 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.8503
Remarks	Continued Sediment Station

$$QS = 7.3971\ QW^{1.00630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	44.89	105.30	570.08	1699.01	1168.20	333.33	52.42	22.35	37.36	22.35	4055.27	
2	0.00	0.00	44.89	272.38	493.62	976.22	1037.63	302.84	52.42	22.35	37.36	22.35	3262.05	
3	0.00	0.00	37.36	302.84	295.22	501.27	976.22	272.38	52.42	22.35	29.85	22.35	2512.24	
4	0.00	0.00	29.85	302.84	150.76	150.76	1076.02	241.93	52.42	22.35	29.85	14.86	2071.63	
5	0.00	0.00	29.85	234.33	105.30	59.96	1483.46	219.12	52.42	22.35	29.85	14.86	2251.47	
6	0.00	0.00	29.85	188.72	112.87	29.85	1514.24	188.72	44.89	22.35	29.85	14.86	2176.18	
7	0.00	0.00	29.85	173.53	112.87	14.86	1460.38	150.76	44.89	22.35	29.85	14.86	2054.18	
8	0.00	0.00	22.35	333.33	105.30	14.86	1406.53	165.94	44.89	22.35	22.35	14.86	2152.72	
9	0.00	0.00	22.35	485.98	120.44	14.86	1468.07	302.84	44.89	22.35	22.35	14.86	2518.98	
10	0.00	0.00	22.35	318.08	128.02	14.86	1491.16	838.14	44.89	22.35	22.35	14.86	2917.03	
11	0.00	0.00	22.35	188.72	75.05	14.86	1321.93	715.52	44.89	22.35	22.35	14.86	2442.85	
12	0.00	0.00	22.35	143.18	67.50	44.89	1099.06	585.38	37.36	22.35	22.35	14.86	2059.26	
13	0.00	0.00	22.35	112.87	75.05	493.62	838.14	531.84	37.36	22.35	22.35	7.40	2163.32	
14	0.00	0.00	14.86	90.17	75.05	631.29	677.22	478.34	37.36	22.35	22.35	7.40	2056.38	
15	0.00	0.00	22.35	75.05	75.05	1106.74	539.49	348.57	37.36	22.35	22.35	7.40	2256.70	
16	0.00	0.00	22.35	67.50	67.50	1752.93	455.42	234.33	37.36	22.35	22.35	7.40	2689.48	
17	0.00	0.00	37.36	59.96	67.50	1853.08	562.43	196.31	37.36	22.35	22.35	7.40	2866.10	
18	0.00	0.00	75.05	52.42	59.96	1521.94	638.95	188.72	37.36	29.85	22.35	7.40	2633.98	
19	0.00	0.00	112.87	67.50	52.42	1260.42	531.84	165.94	37.36	59.96	22.35	7.40	2318.05	
20	0.00	0.00	165.94	75.05	44.89	1037.63	485.98	165.94	37.36	59.96	22.35	0.00	2095.09	
21	0.00	0.00	181.12	105.30	29.85	1229.68	478.34	150.76	37.36	52.42	22.35	0.00	2287.17	
22	0.00	7.40	196.31	120.44	37.36	1444.99	363.83	143.18	29.85	52.42	22.35	0.00	2418.12	
23	0.00	22.35	188.72	128.02	52.42	2038.07	318.08	128.02	29.85	52.42	22.35	0.00	2980.28	
24	0.00	29.85	143.18	143.18	52.42	2022.65	340.95	112.87	29.85	44.89	22.35	0.00	2942.17	
25	0.00	29.85	120.44	165.94	59.96	1568.12	348.57	97.73	29.85	44.89	22.35	0.00	2487.68	
26	0.00	22.35	97.73	188.72	75.05	1845.38	363.83	82.61	29.85	44.89	22.35	0.00	2772.73	
27	0.00	22.35	90.17	196.31	105.30	2099.76	379.08	75.05	29.85	37.36	22.35	0.00	3057.57	
28	0.00	22.35	75.05	188.72	158.35	2385.21	463.06	67.50	29.85	37.36	22.35	0.00	3449.79	
29	0.00	22.35	59.96	181.12	241.93	2084.34	562.43	59.96	29.85	37.36		0.00	3279.29	
30	0.00	29.85	75.05	318.08	715.52	1406.53	577.73	59.96	22.35	37.36		7.40	3249.81	
31		37.36		531.84	1321.93		485.98		22.35	37.36		7.40	2444.22	
Total	0.00	246.03	2059.09	5917.37	5704.51	31318.62	24914.25	7604.48	1188.51	1008.36	693.22	267.34	80921.79	Tonday
Mean	0.00	7.94	68.64	190.88	184.02	1043.95	803.69	253.48	38.34	32.53	24.76	8.62	2656.84	Ton/day
Max	0.00	37.36	196.31	531.84	1321.93	2385.21	1514.24	838.14	52.42	59.96	37.36	22.35	2385.21	Ton/day
Min	0.00	0.00	14.86	52.42	29.85	14.86	318.08	59.96	22.35	22.35	22.35	0.00	0.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at Ban Tha Mao.

	Ban Tha Mao	**Amphoe** Nam Phong	**Changwat** Khon Kaen
Drainge Area	13,638 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2016		
Number of observation	18		
R-Square	0.5566		
Remarks	Continued Sediment Station		

$$QS = 5.4039\ QW^{1.14560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	42.09	42.09	66.97	412.52	111.10	84.28	359.28	633.68	1302.02	818.25	423.28	412.52	4708.07	
2	42.09	42.09	66.97	286.42	66.97	50.22	359.28	633.68	1166.23	771.56	444.90	327.80	4258.19	
3	42.09	42.09	58.52	176.78	42.09	50.22	317.39	679.25	1080.83	771.56	477.58	380.46	4118.85	
4	42.09	42.09	58.52	120.24	42.09	58.52	215.87	532.68	1068.70	748.34	543.79	401.80	3874.72	
5	42.09	42.09	50.22	66.97	42.09	50.22	120.24	196.20	1044.50	656.41	588.51	401.80	3301.33	
6	42.09	42.09	50.22	120.24	42.09	58.52	245.79	186.46	1020.36	577.29	577.29	380.46	3342.89	
7	42.09	42.09	42.09	317.39	42.09	102.06	783.20	255.88	1008.32	543.79	521.60	369.85	4070.43	
8	42.09	42.09	42.09	401.80	66.97	157.63	1032.42	317.39	1044.50	455.76	543.79	369.85	4516.37	
9	42.09	42.09	42.09	369.85	186.46	157.63	1203.07	577.29	1080.83	434.07	521.60	380.46	5037.54	
10	42.09	42.09	42.09	296.70	276.19	138.77	1642.80	972.30	1020.36	477.58	477.58	369.85	5798.41	
11	42.09	42.09	42.09	176.78	186.46	138.77	1836.23	1477.47	1056.59	455.76	455.76	348.74	6258.84	
12	42.09	34.15	42.09	75.56	84.28	186.46	1888.26	1823.25	1068.70	444.90	466.65	338.25	6494.66	
13	42.09	42.09	42.09	58.52	58.52	196.20	1797.33	2032.29	1080.83	455.76	477.58	327.80	6611.09	
14	42.09	42.09	42.09	50.22	58.52	266.01	1617.22	2084.99	1080.83	455.76	466.65	317.39	6523.86	
15	42.09	42.09	42.09	42.09	50.22	477.58	1553.50	2098.19	1056.59	444.90	455.76	286.42	6591.51	
16	42.09	42.09	42.09	34.15	42.09	521.60	1376.87	2045.45	984.29	423.28	477.58	225.79	6257.35	
17	42.09	42.09	42.09	34.15	42.09	466.65	1264.80	2084.99	948.39	359.28	488.54	167.17	5982.32	
18	42.09	42.09	42.09	34.15	42.09	380.46	1227.71	2310.82	924.55	348.74	466.65	148.17	6009.62	
19	42.09	34.15	50.22	34.15	34.15	327.80	1166.23	2566.58	912.65	348.74	466.65	129.46	6112.89	
20	42.09	42.09	42.09	42.09	34.15	477.58	1092.98	2716.17	877.10	348.74	466.65	120.24	6301.98	
21	42.09	42.09	42.09	50.22	26.45	818.25	972.30	2784.52	853.50	338.25	455.76	102.06	6527.57	
22	42.09	42.09	42.09	58.52	26.45	912.65	806.54	2866.81	759.94	317.39	455.76	75.56	6405.89	
23	42.09	42.09	50.22	75.56	26.45	736.77	702.18	2894.31	488.54	327.80	444.90	58.52	5889.43	
24	42.09	42.09	66.97	84.28	26.45	510.55	599.76	2908.08	611.04	369.85	444.90	58.52	5764.58	
25	42.09	42.09	84.28	75.56	26.45	423.28	566.10	2853.08	725.22	369.85	466.65	58.52	5733.16	
26	42.09	42.09	66.97	66.97	26.45	369.85	599.76	2702.53	783.20	369.85	466.65	58.52	5594.93	
27	42.09	42.09	66.97	58.52	34.15	401.80	656.41	2566.58	713.69	401.80	477.58	66.97	5528.65	
28	42.09	42.09	66.97	58.52	42.09	532.68	725.22	2337.58	759.94	391.11	466.65	58.52	5523.45	
29	42.09	42.09	176.78	84.28	75.56	477.58	748.34	1914.35	853.50	401.80		58.52	4874.89	
30	42.09	50.22	434.07	129.46	93.11	391.11	725.22	1540.79	806.54	391.11		58.52	4662.25	
31		50.22		157.63	93.11		667.82		829.98	380.46		58.52	2237.74	
Total	1262.64	1305.12	2046.18	4050.31	2047.43	9921.71	28870.12	51593.64	29012.25	14399.76	13487.29	6917.02	164913.47	Tonday
Mean	42.09	42.10	68.21	130.66	66.05	330.72	931.29	1719.79	935.88	464.51	481.69	223.13	5436.11	Ton/day
Max	42.09	50.22	434.07	412.52	276.19	912.65	1888.26	2908.08	1302.02	818.25	588.51	412.52	2908.08	Ton/day
Min	42.09	34.15	42.09	34.15	26.45	50.22	120.24	186.46	488.54	317.39	423.28	58.52	26.45	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Khai **Amphoe** Mueang **Changwat** Chaiyaphum

Drainge Area	6,282 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.2506
Remarks	Continued Sediment Station

$$QS = 33.6960\ QW^{0.53200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	137.19	275.74	335.05	742.85	382.07	126.39	101.86	60.45	0.00	2161.60	
2	0.00	0.00	0.00	142.32	239.81	332.67	726.17	369.18	126.39	101.86	60.45	0.00	2098.85	
3	0.00	0.00	0.00	147.29	161.39	300.17	690.50	351.34	126.39	101.86	60.45	0.00	1939.39	
4	0.00	0.00	0.00	152.12	142.32	264.24	653.12	332.67	126.39	101.86	60.45	0.00	1833.17	
5	0.00	0.00	0.00	165.85	131.89	209.40	628.95	313.02	120.67	101.86	60.45	0.00	1732.10	
6	0.00	0.00	0.00	156.81	131.89	174.48	624.84	300.17	114.70	101.86	48.72	0.00	1653.48	
7	0.00	0.00	0.00	147.29	126.39	165.85	617.94	284.09	114.70	94.88	48.72	0.00	1599.86	
8	0.00	0.00	0.00	147.29	126.39	152.12	612.37	272.90	114.70	87.41	48.72	0.00	1561.90	
9	0.00	0.00	0.00	147.29	126.39	152.12	612.37	275.74	108.45	79.33	48.72	0.00	1550.40	
10	0.00	0.00	33.70	156.81	131.89	147.29	610.97	297.55	108.45	79.33	48.72	0.00	1614.70	
11	0.00	0.00	48.72	182.75	131.89	142.32	612.37	362.58	108.45	87.41	48.72	0.00	1725.20	
12	0.00	0.00	48.72	142.32	137.19	137.19	612.37	412.75	108.45	87.41	33.70	0.00	1720.09	
13	0.00	0.00	48.72	131.89	126.39	142.32	609.56	422.54	108.45	87.41	33.70	0.00	1710.98	
14	0.00	0.00	48.72	120.67	120.67	252.29	602.51	408.78	108.45	87.41	33.70	0.00	1783.19	
15	0.00	0.00	33.70	120.67	120.67	300.17	592.51	388.38	108.45	79.33	33.70	0.00	1777.57	
16	0.00	0.00	33.70	120.67	126.39	342.12	547.84	364.79	108.45	79.33	33.70	0.00	1756.98	
17	0.00	0.00	0.00	114.70	120.67	396.65	525.87	337.42	108.45	87.41	33.70	0.00	1724.87	
18	0.00	0.00	0.00	108.45	114.70	424.48	506.36	300.17	101.86	87.41	33.70	0.00	1677.14	
19	0.00	0.00	0.00	108.45	114.70	443.41	498.04	264.24	101.86	87.41	0.00	0.00	1618.11	
20	0.00	0.00	0.00	101.86	101.86	456.24	491.29	239.81	101.86	87.41	0.00	0.00	1580.35	
21	0.00	0.00	0.00	101.86	87.41	474.05	479.28	209.40	101.86	79.33	0.00	0.00	1533.20	
22	0.00	0.00	33.70	101.86	79.33	491.29	461.65	190.70	108.45	79.33	0.00	0.00	1546.31	
23	0.00	0.00	48.72	120.67	79.33	509.66	441.55	174.48	108.45	70.45	0.00	0.00	1553.31	
24	0.00	0.00	70.45	131.89	79.33	530.64	426.40	161.39	101.86	70.45	0.00	0.00	1572.41	
25	0.00	0.00	94.88	137.19	70.45	553.98	388.38	142.32	101.86	79.33	0.00	0.00	1568.39	
26	0.00	0.00	120.67	174.48	114.70	582.36	371.35	142.32	101.86	79.33	0.00	0.00	1687.08	
27	0.00	0.00	131.89	198.37	126.39	608.16	360.36	142.32	101.86	70.45	0.00	0.00	1739.78	
28	0.00	0.00	126.39	156.81	137.19	627.58	364.79	137.19	101.86	70.45	0.00	0.00	1722.26	
29	0.00	0.00	126.39	147.29	161.39	653.12	373.52	137.19	101.86	70.45		0.00	1771.21	
30	0.00	0.00	131.89	182.75	226.74	709.15	388.38	131.89	101.86	70.45		0.00	1943.10	
31		0.00		261.30	305.37		388.38		101.86	60.45		0.00	1117.36	
Total	0.00	0.00	1180.94	4467.16	4276.83	11010.57	16562.83	8249.38	3385.67	2610.52	830.46	0.00	52574.35	Tonday
Mean	0.00	0.00	39.36	144.10	137.96	367.02	534.28	274.98	109.22	84.21	29.66	0.00	1720.80	Ton/day
Max	0.00	0.00	131.89	261.30	305.37	709.15	742.85	422.54	126.39	101.86	60.45	0.00	742.85	Ton/day
Min	0.00	0.00	0.00	101.86	70.45	137.19	360.36	131.89	101.86	60.45	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

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

Ban Kaeng Yao **Amphoe** Kuchinarai **Changwat** Kalasin

Drainge Area	1,548 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2007-2016
Number of observation	138
R-Square	0.8262
Remarks	Continued Sediment Station

$$QS = 5.6949\ QW^{1.21140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	115.56	115.56	308.63	466.91	49.90	13.19	5.69	0.00	0.00	1075.45	
2	0.00	0.00	0.00	104.00	81.56	214.56	422.64	49.90	13.19	5.69	0.00	0.00	891.54	
3	0.00	0.00	0.00	127.33	60.15	151.43	364.86	49.90	13.19	5.69	0.00	0.00	772.55	
4	0.00	0.00	0.00	92.66	127.33	127.33	281.16	40.01	13.19	5.69	0.00	0.00	687.37	
5	0.00	0.00	0.00	70.71	151.43	115.56	201.64	40.01	13.19	5.69	0.00	0.00	598.23	
6	0.00	0.00	0.00	730.74	214.56	163.74	176.22	30.54	13.19	5.69	0.00	0.00	1334.68	
7	0.00	0.00	0.00	1507.60	254.15	308.63	176.22	30.54	13.19	5.69	0.00	0.00	2296.01	
8	0.00	0.00	0.00	2285.86	214.56	281.16	176.22	40.01	13.19	0.00	0.00	0.00	3011.00	
9	0.00	0.00	0.00	1975.53	151.43	281.16	163.74	40.01	13.19	0.00	0.00	0.00	2625.05	
10	0.00	0.00	0.00	1185.44	127.33	254.15	139.29	40.01	13.19	0.00	0.00	0.00	1759.40	
11	0.00	0.00	0.00	466.91	104.00	1326.95	127.33	49.90	13.19	0.00	0.00	0.00	2088.28	
12	0.00	0.00	0.00	308.63	104.00	2090.97	104.00	49.90	13.19	0.00	0.00	0.00	2670.69	
13	0.00	0.00	0.00	308.63	115.56	1471.15	81.56	40.01	13.19	0.00	0.00	0.00	2030.10	
14	0.00	0.00	0.00	254.15	115.56	2543.60	70.71	40.01	30.54	0.00	0.00	0.00	3054.57	
15	0.00	0.00	0.00	214.56	92.66	2325.20	70.71	30.54	21.55	0.00	0.00	0.00	2755.22	
16	0.00	0.00	0.00	176.22	70.71	1654.91	70.71	30.54	13.19	0.00	0.00	0.00	2016.28	
17	0.00	0.00	0.00	127.33	70.71	1238.18	70.71	21.55	13.19	5.69	0.00	0.00	1547.36	
18	0.00	0.00	0.00	81.56	70.71	666.86	70.71	21.55	13.19	13.19	0.00	0.00	937.77	
19	0.00	0.00	0.00	60.15	60.15	408.06	60.15	21.55	13.19	5.69	0.00	0.00	628.94	
20	0.00	0.00	0.00	60.15	49.90	308.63	60.15	21.55	13.19	5.69	0.00	0.00	519.27	
21	0.00	0.00	0.00	70.71	49.90	294.84	60.15	21.55	13.19	5.69	0.00	0.00	516.04	
22	0.00	0.00	0.00	70.71	49.90	240.82	49.90	30.54	13.19	0.00	0.00	0.00	455.07	
23	0.00	0.00	30.54	81.56	127.33	188.85	49.90	30.54	5.69	5.69	0.00	0.00	520.10	
24	0.00	0.00	70.71	70.71	281.16	350.65	49.90	21.55	5.69	5.69	0.00	0.00	856.07	
25	0.00	0.00	81.56	70.71	364.86	995.64	60.15	13.19	5.69	5.69	0.00	0.00	1597.49	
26	0.00	0.00	70.71	60.15	408.06	944.90	60.15	13.19	5.69	5.69	0.00	0.00	1568.55	
27	0.00	0.00	70.71	214.56	364.86	811.97	70.71	13.19	5.69	0.00	0.00	0.00	1551.69	
28	0.00	0.00	70.71	254.15	466.91	604.04	70.71	13.19	5.69	0.00	0.00	0.00	1485.40	
29	0.00	0.00	92.66	214.56	557.65	422.64	70.71	13.19	5.69	0.00		0.00	1377.11	
30	0.00	0.00	92.66	176.22	557.65	408.06	60.15	13.19	5.69	0.00		0.00	1313.62	
31		0.00		127.33	466.91		60.15		5.69	0.00		0.00	660.08	
Total	0.00	0.00	580.26	11665.08	6047.20	21503.27	4018.22	921.27	367.09	98.61	0.00	0.00	45200.99	Tonday
Mean	0.00	0.00	19.34	376.29	195.07	716.78	129.62	30.71	11.84	3.18	0.00	0.00	1482.83	Ton/day
Max	0.00	0.00	92.66	2285.86	557.65	2543.60	466.91	49.90	30.54	13.19	0.00	0.00	2543.60	Ton/day
Min	0.00	0.00	0.00	60.15	49.90	115.56	49.90	13.19	5.69	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at the bridge.

Ban Muang Lat **Amphoe** Chang Han **Changwat** Roi Et

Drainge Area	31,879 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.6903
Remarks	Continued Sediment Station

$$QS = 1.7195\ QW^{1.28580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.70	80.96	70.70	793.28	544.02	793.28	5420.58	5065.47	2769.40	210.17	390.52	197.39	16406.49	
2	65.69	86.20	65.69	724.81	576.02	871.91	5486.92	5026.35	2136.64	197.39	405.35	197.39	15840.38	
3	65.69	86.20	60.77	810.61	442.95	907.38	5526.81	4935.32	1644.25	184.79	269.77	148.16	15082.71	
4	65.69	70.70	60.77	657.75	256.25	854.30	5500.21	4844.67	1533.30	405.35	154.14	107.86	14510.98	
5	65.69	70.70	60.77	465.86	332.47	845.52	5420.58	4754.39	1345.84	828.03	290.34	184.79	14664.98	
6	70.70	70.70	65.69	551.99	641.21	880.75	5620.14	4613.29	1239.86	836.76	405.35	223.13	15219.57	
7	65.69	65.69	65.69	442.95	1249.41	997.40	6214.57	4296.19	1268.57	845.52	496.80	166.25	16174.73	
8	65.69	65.69	65.69	368.51	1336.12	1135.85	7059.91	3984.20	1201.80	854.30	184.79	119.08	16441.65	
9	65.69	65.69	70.70	551.99	970.19	1336.12	7498.48	3726.25	1126.50	854.30	136.36	223.13	16625.40	
10	65.69	60.77	70.70	600.29	632.98	1463.60	7626.89	3689.72	1154.61	854.30	166.25	691.10	17076.90	
11	65.69	65.69	65.69	632.98	854.30	1414.27	7584.03	4046.18	1154.61	854.30	130.54	269.77	17138.06	
12	65.69	70.70	60.77	649.47	632.98	1345.84	7441.56	4447.77	1015.62	854.30	107.86	346.78	17039.34	
13	70.70	65.69	55.93	576.02	600.29	1384.85	7313.85	4728.67	961.16	750.33	102.35	600.29	17210.12	
14	70.70	60.77	51.18	465.86	435.37	1726.01	7172.52	4961.29	1052.30	216.63	96.90	576.02	16885.55	
15	65.69	60.77	41.98	442.95	297.28	2465.14	7003.75	5157.02	1297.42	223.13	102.35	520.29	17677.77	
16	65.69	70.70	33.20	504.61	216.63	3677.56	6794.05	5275.26	1463.60	210.17	130.54	473.56	18915.58	
17	60.77	70.70	33.20	512.44	210.17	3934.77	6558.12	5314.81	1316.74	256.25	124.78	346.78	18739.53	
18	60.77	65.69	33.20	397.92	242.88	3775.09	6282.95	5314.81	1154.61	223.13	172.38	210.17	17933.60	
19	60.77	65.69	33.20	197.39	184.79	3496.23	6010.44	5275.26	997.40	172.38	184.79	172.38	16850.74	
20	60.77	65.69	191.07	154.14	160.17	3775.09	5740.64	5248.93	943.16	148.16	197.39	166.25	16851.46	
21	60.77	65.69	29.00	269.77	154.14	4321.37	5580.10	5222.64	952.15	210.17	160.17	420.30	17446.26	
22	65.69	65.69	29.00	353.99	154.14	4754.39	5420.58	5209.50	907.38	276.59	107.86	733.29	18078.11	
23	70.70	65.69	33.20	339.61	184.79	5078.53	5235.78	5222.64	863.10	256.25	124.78	716.35	18191.42	
24	65.69	60.77	41.98	383.15	304.24	5288.43	5078.53	5222.64	898.48	166.25	136.36	716.35	18362.87	
25	65.69	60.77	51.18	390.52	520.29	5354.42	4961.29	5196.37	707.91	154.14	107.86	544.02	18114.46	
26	65.69	60.77	60.77	311.25	934.19	5275.26	4857.60	5104.66	576.02	154.14	119.08	172.38	17691.80	
27	65.69	55.93	51.18	269.77	1043.10	5235.78	4818.84	4961.29	567.99	148.16	236.25	130.54	17584.52	
28	70.70	55.93	70.70	290.34	1052.30	5248.93	4857.60	4651.68	567.99	142.23	290.34	124.78	17423.53	
29	70.70	55.93	154.14	269.77	907.38	5288.43	4922.35	4083.47	567.99	136.36		102.35	16558.86	
30	80.96	65.69	828.03	318.29	608.42	5354.42	5039.38	3412.32	567.99	160.17		107.86	16543.52	
31		75.79		435.37	657.75		5065.47		576.02	318.29		107.86	7236.56	
Total	1996.47	2074.05	2605.77	14133.65	17337.23	88280.92	185114.52	142993.04	34530.41	12102.41	5532.29	9816.70	516517.47	Tonday
Mean	66.55	66.90	86.86	455.92	559.27	2942.70	5971.44	4766.43	1113.88	390.40	197.58	316.67	16934.60	Ton/day
Max	80.96	86.20	828.03	810.61	1336.12	5354.42	7626.89	5314.81	2769.40	854.30	496.80	733.29	7626.89	Ton/day
Min	60.77	55.93	29.00	154.14	154.14	793.28	4818.84	3412.32	567.99	136.36	96.90	102.35	29.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Kut Kwang **Amphoe** Phon Thong **Changwat** Roi Et

Drainge Area	2,647 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	1998 - 2016
Number of observation	179
R-Square	0.8971
Remarks	Continued Sediment Station

$$QS = 6.0651\ QW^{1.23360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	157.29	157.29	130.05	290.18	259.37	592.06	1025.51	78.87	23.52	0.00	91.20	103.86	2909.20	
2	157.29	157.29	130.05	290.18	244.22	369.87	1413.23	78.87	23.52	0.00	91.20	103.86	3059.58	
3	157.29	157.29	130.05	274.69	244.22	290.18	1145.38	78.87	14.26	0.00	91.20	103.86	2687.30	
4	157.29	157.29	130.05	305.82	229.25	244.22	986.13	66.89	14.26	0.00	91.20	103.86	2486.26	
5	157.29	157.29	130.05	556.64	214.46	199.86	812.65	66.89	14.26	0.00	91.20	103.86	2504.45	
6	157.29	157.29	130.05	1434.26	185.46	157.29	682.36	66.89	14.26	0.00	91.20	103.86	3180.21	
7	157.29	157.29	143.55	2669.69	274.69	143.55	627.89	66.89	14.26	0.00	91.20	103.86	4450.16	
8	157.29	157.29	143.55	3200.21	244.22	214.46	487.08	66.89	14.26	0.00	103.86	103.86	4892.97	
9	143.55	143.55	130.05	2908.58	157.29	386.24	353.65	66.89	14.26	0.00	103.86	103.86	4511.76	
10	143.55	143.55	130.05	2067.83	116.82	888.97	259.37	66.89	14.26	0.00	91.20	91.20	4013.69	
11	143.55	143.55	130.05	1518.98	91.20	1756.52	244.22	66.89	14.26	0.00	91.20	91.20	4291.62	
12	143.55	143.55	130.05	1226.65	78.87	4182.04	244.22	66.89	14.26	0.00	91.20	91.20	6412.49	
13	143.55	143.55	143.55	869.77	103.86	3773.26	229.25	66.89	14.26	0.00	91.20	91.20	5670.33	
14	143.55	143.55	143.55	504.30	91.20	5588.91	229.25	66.89	14.26	6.07	91.20	91.20	7113.93	
15	143.55	143.55	143.55	369.87	78.87	6670.13	214.46	66.89	14.26	6.07	91.20	91.20	8033.59	
16	157.29	143.55	130.05	290.18	66.89	5480.11	199.86	66.89	14.26	6.07	91.20	91.20	6737.54	
17	157.29	143.55	130.05	290.18	66.89	3397.50	185.46	66.89	14.26	6.07	91.20	91.20	4640.52	
18	157.29	143.55	130.05	290.18	66.89	2411.53	171.26	66.89	14.26	6.07	91.20	91.20	3640.36	
19	157.29	143.55	130.05	274.69	66.89	1844.48	157.29	55.31	6.07	6.07	91.20	91.20	3024.08	
20	157.29	143.55	143.55	274.69	78.87	774.99	143.55	55.31	6.07	0.00	91.20	91.20	1960.26	
21	157.29	130.05	143.55	259.37	78.87	664.11	157.29	55.31	6.07	0.00	103.86	91.20	1846.96	
22	157.29	130.05	157.29	244.22	78.87	574.30	185.46	44.17	6.07	6.07	103.86	91.20	1778.83	
23	157.29	130.05	171.26	244.22	66.89	627.89	199.86	44.17	6.07	23.52	103.86	78.87	1853.94	
24	157.29	130.05	171.26	259.37	244.22	700.71	199.86	33.54	6.07	23.52	103.86	78.87	2108.62	
25	157.29	130.05	185.46	290.18	419.35	737.67	171.26	33.54	0.00	23.52	103.86	78.87	2331.05	
26	157.29	130.05	229.25	290.18	556.64	700.71	143.55	33.54	0.00	23.52	103.86	78.87	2447.45	
27	157.29	130.05	259.37	305.82	539.09	737.67	130.05	23.52	0.00	14.26	103.86	78.87	2479.85	
28	157.29	130.05	274.69	305.82	645.95	831.61	130.05	23.52	0.00	14.26	103.86	78.87	2695.98	
29	157.29	130.05	290.18	290.18	682.36	869.77	116.82	23.52	0.00	14.26		78.87	2653.29	
30	157.29	130.05	290.18	274.69	737.67	908.24	103.86	23.52	0.00	14.26		78.87	2718.64	
31		130.05		274.69	756.29		91.20		0.00	14.26		78.87	1345.36	
Total	4622.51	4411.47	4854.51	22946.35	7766.62	46718.86	11441.33	1688.86	311.62	207.84	2680.16	2830.10	110480.26	Tonday
Mean	154.08	142.31	161.82	740.20	250.54	1557.30	369.08	56.30	10.05	6.70	95.72	91.29	3635.38	Ton/day
Max	157.29	157.29	290.18	3200.21	756.29	6670.13	1413.23	78.87	23.52	23.52	103.86	103.86	6670.13	Ton/day
Min	143.55	130.05	130.05	244.22	66.89	143.55	91.20	23.52	0.00	0.00	91.20	78.87	0.00	Ton/day

WATER YEAR : 2016

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 Chumphc **Changwat** Chaiyaphum

Drainge Area	323 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.8837
Remarks	Continued Sediment Station

$$QS = 6.9240\ QW^{1.38610}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	18.10	18.10	31.75	18.10	18.10	6.92	6.92	0.00	0.00	117.98	
2	0.00	0.00	0.00	18.10	18.10	31.75	168.44	18.10	6.92	6.92	0.00	0.00	268.33	
3	0.00	0.00	0.00	31.75	6.92	31.75	471.07	18.10	6.92	6.92	0.00	0.00	573.43	
4	0.00	0.00	0.00	47.30	6.92	18.10	502.45	18.10	6.92	6.92	0.00	0.00	606.71	
5	0.00	0.00	0.00	31.75	6.92	18.10	410.05	18.10	6.92	6.92	0.00	0.00	498.76	
6	0.00	0.00	0.00	47.30	6.92	18.10	295.49	18.10	6.92	6.92	0.00	0.00	399.75	
7	0.00	0.00	0.00	102.74	6.92	6.92	216.88	18.10	6.92	6.92	0.00	0.00	365.41	
8	0.00	0.00	0.00	102.74	6.92	6.92	192.23	18.10	6.92	6.92	0.00	0.00	340.77	
9	0.00	0.00	0.00	47.30	6.92	6.92	145.56	18.10	6.92	6.92	0.00	0.00	238.65	
10	0.00	0.00	0.00	18.10	6.92	6.92	102.74	31.75	6.92	6.92	0.00	0.00	180.28	
11	0.00	0.00	0.00	6.92	6.92	6.92	145.56	18.10	6.92	6.92	0.00	0.00	198.27	
12	0.00	0.00	0.00	6.92	6.92	64.45	145.56	18.10	6.92	6.92	0.00	0.00	255.80	
13	0.00	0.00	0.00	6.92	6.92	64.45	192.23	6.92	6.92	6.92	0.00	0.00	291.30	
14	0.00	0.00	0.00	6.92	6.92	1396.71	168.44	6.92	6.92	6.92	0.00	0.00	1599.77	
15	0.00	0.00	0.00	0.00	6.92	808.23	145.56	6.92	6.92	6.92	0.00	0.00	981.48	
16	0.00	0.00	0.00	6.92	6.92	192.23	145.56	6.92	6.92	6.92	0.00	0.00	372.41	
17	0.00	0.00	0.00	0.00	6.92	323.14	145.56	6.92	6.92	6.92	0.00	0.00	496.39	
18	0.00	0.00	0.00	0.00	0.00	168.44	123.63	6.92	6.92	6.92	0.00	6.92	319.77	
19	0.00	0.00	0.00	0.00	0.00	192.23	102.74	6.92	6.92	6.92	0.00	6.92	322.67	
20	0.00	0.00	0.00	31.75	0.00	268.54	102.74	6.92	6.92	6.92	0.00	6.92	430.72	
21	0.00	0.00	0.00	47.30	0.00	410.05	64.45	6.92	6.92	0.00	0.00	6.92	542.57	
22	0.00	0.00	0.00	47.30	0.00	380.44	18.10	6.92	6.92	0.00	0.00	6.92	466.61	
23	0.00	0.00	6.92	31.75	0.00	242.32	18.10	6.92	6.92	0.00	0.00	6.92	319.86	
24	0.00	0.00	6.92	31.75	0.00	145.56	18.10	6.92	6.92	0.00	0.00	6.92	223.10	
25	0.00	0.00	6.92	31.75	6.92	440.27	18.10	6.92	6.92	0.00	0.00	6.92	524.73	
26	0.00	0.00	6.92	18.10	18.10	1354.80	31.75	6.92	6.92	0.00	0.00	6.92	1450.44	
27	0.00	0.00	6.92	18.10	18.10	701.88	31.75	6.92	6.92	0.00	0.00	6.92	797.52	
28	0.00	0.00	6.92	6.92	145.56	323.14	31.75	6.92	6.92	0.00	0.00	6.92	535.06	
29	0.00	0.00	6.92	64.45	667.38	102.74	31.75	6.92	6.92	0.00		6.92	894.01	
30	0.00	0.00	18.10	47.30	633.36	18.10	18.10	6.92	6.92	0.00		6.92	755.73	
31		0.00		47.30	168.44		18.10		6.92	0.00		6.92	247.69	
Total	0.00	0.00	66.57	923.55	1797.91	7781.86	4240.60	355.45	214.64	138.48	0.00	96.94	15616.00	Tonday
Mean	0.00	0.00	2.22	29.79	58.00	259.40	136.79	11.85	6.92	4.47	0.00	3.13	512.56	Ton/day
Max	0.00	0.00	18.10	102.74	667.38	1396.71	502.45	31.75	6.92	6.92	0.00	6.92	1396.71	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	6.92	18.10	6.92	6.92	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Na Charoen.

Ban Na Charoen **Amphoe** Nong Bua Daeng **Changwat** Chaiyaphum

Drainge Area	744 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.9048
Remarks	Continued Sediment Station

$$QS = 2.0654\ QW^{1.10310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	12.19	12.19	50.08	124.18	40.96	9.53	2.07	2.07	0.00	253.27	
2	0.00	0.00	0.00	23.31	12.19	32.02	120.85	34.98	9.53	2.07	2.07	0.00	237.01	
3	0.00	0.00	0.00	14.91	9.53	29.09	107.59	32.02	9.53	2.07	2.07	0.00	206.80	
4	0.00	0.00	2.07	12.19	6.94	23.31	97.74	26.19	9.53	2.07	2.07	0.00	182.10	
5	0.00	0.00	2.07	9.53	6.94	17.67	101.01	23.31	6.94	2.07	2.07	0.00	171.60	
6	0.00	0.00	2.07	20.47	6.94	17.67	94.48	20.47	6.94	2.07	2.07	0.00	173.17	
7	0.00	0.00	2.07	50.08	9.53	20.47	124.18	20.47	6.94	2.07	2.07	0.00	237.88	
8	0.00	0.00	2.07	23.31	9.53	17.67	104.30	26.19	6.94	2.07	0.00	0.00	192.07	
9	0.00	0.00	2.07	17.67	9.53	14.91	84.76	68.79	6.94	2.07	0.00	0.00	206.72	
10	0.00	0.00	2.07	9.53	6.94	14.91	71.96	127.53	6.94	2.07	0.00	0.00	241.93	
11	0.00	0.00	2.07	6.94	4.44	12.19	65.63	81.54	4.44	2.07	0.00	0.00	179.31	
12	0.00	0.00	2.07	6.94	4.44	40.96	53.16	56.26	4.44	2.07	0.00	0.00	170.32	
13	0.00	0.00	2.07	6.94	4.44	62.49	37.96	37.96	4.44	2.07	0.00	0.00	158.35	
14	0.00	0.00	2.07	6.94	4.44	168.27	34.98	34.98	4.44	2.07	0.00	0.00	258.17	
15	0.00	0.00	2.07	6.94	6.94	192.49	34.98	32.02	4.44	2.07	0.00	0.00	281.93	
16	0.00	0.00	2.07	6.94	4.44	107.59	34.98	26.19	4.44	2.07	0.00	0.00	188.70	
17	0.00	0.00	2.07	6.94	4.44	68.79	34.98	23.31	4.44	2.07	0.00	0.00	147.02	
18	0.00	0.00	2.07	4.44	4.44	34.98	43.98	20.47	4.44	2.07	0.00	0.00	116.87	
19	0.00	0.00	2.07	6.94	4.44	23.31	43.98	20.47	4.44	2.07	0.00	0.00	107.71	
20	0.00	2.07	2.07	6.94	4.44	26.19	43.98	17.67	4.44	2.07	0.00	0.00	109.85	
21	0.00	2.07	2.07	6.94	4.44	110.89	34.98	14.91	4.44	2.07	0.00	0.00	182.78	
22	0.00	2.07	2.07	6.94	2.07	161.41	23.31	14.91	4.44	2.07	0.00	0.00	219.27	
23	0.00	2.07	4.44	6.94	4.44	127.53	23.31	14.91	4.44	2.07	0.00	0.00	190.13	
24	0.00	0.00	4.44	9.53	12.19	273.95	56.26	14.91	4.44	2.07	0.00	0.00	377.78	
25	0.00	0.00	4.44	6.94	20.47	292.00	78.33	14.91	4.44	2.07	0.00	0.00	423.59	
26	0.00	0.00	4.44	6.94	23.31	224.04	81.54	14.91	4.44	2.07	0.00	0.00	361.68	
27	0.00	0.00	4.44	6.94	26.19	171.71	62.49	12.19	4.44	2.07	0.00	0.00	290.46	
28	0.00	0.00	2.07	6.94	94.48	127.53	59.37	12.19	4.44	2.07	0.00	0.00	309.07	
29	0.00	0.00	2.07	17.67	175.16	110.89	53.16	9.53	4.44	2.07		0.00	374.98	
30	0.00	0.00	2.07	20.47	182.07	127.53	47.02	9.53	4.44	2.07		0.00	395.20	
31		0.00		20.47	110.89		43.98		4.44	2.07		0.00	181.85	
Total	0.00	8.26	67.62	376.82	792.84	2702.54	2023.41	904.67	172.93	64.03	14.46	0.00	7127.59	Tonday
Mean	0.00	0.27	2.25	12.16	25.58	90.08	65.27	30.16	5.58	2.07	0.52	0.00	233.92	Ton/day
Max	0.00	2.07	4.44	50.08	182.07	292.00	124.18	127.53	9.53	2.07	2.07	0.00	292.00	Ton/day
Min	0.00	0.00	0.00	4.44	2.07	12.19	23.31	9.53	4.44	2.07	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Nang Dad Khok.

Ban Nang Dad Khok **Amphoe** Nong Bua Daeng **Changwat** Chaiyaphum

Drainge Area	508 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.9657
Remarks	Continued Sediment Station

$$QS = 1.2553\ QW^{1.80800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.26	1.26	1.26	257.47	188.71	95.85	210.57	95.85	4.40	4.40	1.26	1.26	863.52
2	1.26	1.26	4.40	660.78	129.65	42.33	1534.74	53.89	4.40	4.40	1.26	1.26	2439.60
3	1.26	1.26	9.15	233.50	42.33	32.04	1589.58	32.04	4.40	4.40	1.26	1.26	1952.44
4	0.00	1.26	4.40	95.85	9.15	23.04	1034.33	23.04	4.40	4.40	1.26	1.26	1202.36
5	0.00	1.26	1.26	53.89	9.15	15.39	989.17	23.04	4.40	4.40	1.26	1.26	1104.46
6	0.00	1.26	1.26	42.33	9.15	15.39	944.91	15.39	4.40	1.26	1.26	1.26	1037.85
7	0.00	1.26	1.26	901.56	9.15	23.04	698.59	15.39	4.40	1.26	1.26	1.26	1658.40
8	0.00	1.26	1.26	588.01	15.39	15.39	486.02	15.39	4.40	1.26	1.26	1.26	1130.87
9	0.00	1.26	1.26	148.23	9.15	15.39	553.05	53.89	4.40	1.26	1.26	1.26	790.39
10	0.00	1.26	1.26	42.33	9.15	15.39	308.55	233.50	4.40	1.26	1.26	1.26	619.59
11	0.00	1.26	1.26	15.39	4.40	15.39	233.50	112.18	4.40	1.26	1.26	1.26	391.52
12	0.00	1.26	1.26	9.15	4.40	80.68	148.23	53.89	4.40	1.26	1.26	1.26	307.02
13	0.00	1.26	1.26	9.15	4.40	660.78	95.85	32.04	4.40	1.26	1.26	1.26	812.88
14	0.00	4.40	1.26	9.15	4.40	1175.20	66.68	32.04	4.40	1.26	1.26	1.26	1301.27
15	0.00	4.40	1.26	9.15	4.40	2121.41	53.89	23.04	4.40	1.26	1.26	1.26	2225.70
16	0.00	4.40	1.26	4.40	4.40	944.91	53.89	15.39	4.40	1.26	1.26	1.26	1036.80
17	0.00	9.15	1.26	4.40	4.40	623.92	53.89	15.39	4.40	1.26	1.26	1.26	720.56
18	0.00	4.40	4.40	4.40	4.40	363.71	42.33	15.39	4.40	1.26	1.26	1.26	447.18
19	0.00	4.40	4.40	4.40	4.40	210.57	15.39	9.15	4.40	1.26	1.26	1.26	260.86
20	0.00	4.40	1.26	15.39	4.40	210.57	15.39	9.15	4.40	1.26	1.26	1.26	268.71
21	0.00	4.40	1.26	15.39	4.40	453.96	23.04	9.15	4.40	1.26	1.26	1.26	519.75
22	1.26	4.40	1.26	9.15	4.40	486.02	23.04	9.15	4.40	1.26	1.26	1.26	546.82
23	1.26	1.26	4.40	9.15	4.40	453.96	23.04	9.15	4.40	1.26	1.26	1.26	514.76
24	1.26	1.26	4.40	95.85	4.40	453.96	23.04	9.15	4.40	1.26	1.26	1.26	601.46
25	1.26	1.26	4.40	148.23	9.15	1701.83	112.18	9.15	4.40	1.26	1.26	1.26	1995.60
26	1.26	1.26	4.40	53.89	112.18	1375.41	95.85	9.15	4.40	1.26	1.26	1.26	1661.54
27	1.26	1.26	1.26	80.68	80.68	944.91	66.68	9.15	4.40	1.26	1.26	4.40	1197.17
28	1.26	1.26	4.40	167.93	53.89	486.02	80.68	9.15	4.40	1.26	1.26	1.26	812.73
29	1.26	1.26	23.04	453.96	80.68	335.62	95.85	4.40	4.40	1.26		1.26	1002.96
30	1.26	1.26	308.55	233.50	1480.76	210.57	112.18	4.40	4.40	1.26		1.26	2359.37
31		1.26		95.85	519.05		112.18		4.40	1.26		1.26	735.24
Total	15.06	71.93	402.89	4472.50	2828.90	13602.66	9896.32	961.06	136.26	54.62	35.15	42.05	32519.40 Tonday
Mean	0.50	2.32	13.43	144.27	91.25	453.42	319.24	32.04	4.40	1.76	1.26	1.36	1065.24 Ton/day
Max	1.26	9.15	308.55	901.56	1480.76	2121.41	1589.58	233.50	4.40	4.40	1.26	4.40	2121.41 Ton/day
Min	0.00	1.26	1.26	4.40	4.40	15.39	15.39	4.40	4.40	1.26	1.26	1.26	0.00 Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Non Han.

Ban Non Han **Amphoe** Chum Pae **Changwat** Khon Kaen

Drainge Area	1,218 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.6914
Remarks	Continued Sediment Station

$$QS = 5.1870\ QW^{1.05310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.19	10.76	10.76	16.50	83.54	134.47	128.04	28.25	34.23	16.50	10.76	22.33	501.33	
2	5.19	10.76	10.76	16.50	71.02	128.04	128.04	22.33	28.25	28.25	10.76	28.25	488.15	
3	5.19	10.76	10.76	16.50	46.34	121.63	121.63	22.33	28.25	34.23	10.76	28.25	456.63	
4	5.19	10.76	10.76	16.50	28.25	102.49	115.23	22.33	22.33	34.23	10.76	28.25	407.09	
5	5.19	10.76	10.76	16.50	22.33	77.27	121.63	22.33	22.33	34.23	10.76	34.23	388.32	
6	5.19	10.76	10.76	16.50	22.33	58.62	121.63	28.25	16.50	34.23	10.76	34.23	369.75	
7	5.19	10.76	10.76	28.25	28.25	46.34	128.04	34.23	16.50	28.25	16.50	34.23	387.29	
8	5.19	10.76	10.76	89.84	28.25	46.34	134.47	46.34	16.50	28.25	28.25	34.23	479.17	
9	5.19	10.76	10.76	96.16	34.23	46.34	134.47	102.49	16.50	28.25	28.25	34.23	547.62	
10	5.19	10.76	10.76	77.27	22.33	58.62	134.47	115.23	16.50	22.33	22.33	22.33	518.13	
11	5.19	10.76	10.76	71.02	16.50	64.80	128.04	121.63	16.50	22.33	16.50	22.33	506.36	
12	5.19	10.76	10.76	71.02	10.76	71.02	128.04	128.04	16.50	22.33	16.50	16.50	507.42	
13	5.19	10.76	16.50	52.46	10.76	89.84	128.04	128.04	22.33	16.50	16.50	10.76	507.67	
14	5.19	10.76	16.50	46.34	10.76	96.16	121.63	121.63	28.25	16.50	16.50	5.19	495.39	
15	5.19	10.76	10.76	10.76	10.76	121.63	108.85	115.23	34.23	16.50	16.50	10.76	471.93	
16	5.19	10.76	10.76	10.76	10.76	134.47	96.16	96.16	34.23	16.50	16.50	28.25	470.49	
17	5.19	10.76	10.76	10.76	10.76	134.47	89.84	71.02	28.25	10.76	16.50	40.26	439.34	
18	5.19	10.76	10.76	10.76	10.76	134.47	96.16	71.02	28.25	10.76	16.50	40.26	445.66	
19	5.19	10.76	10.76	10.76	16.50	128.04	89.84	46.34	28.25	10.76	16.50	34.23	407.93	
20	5.19	10.76	10.76	10.76	10.76	128.04	83.54	40.26	22.33	34.23	16.50	28.25	401.39	
21	10.76	10.76	10.76	10.76	10.76	134.47	64.80	34.23	22.33	28.25	10.76	22.33	370.99	
22	10.76	10.76	10.76	16.50	10.76	140.91	46.34	28.25	22.33	28.25	16.50	22.33	364.46	
23	10.76	10.76	10.76	22.33	10.76	134.47	46.34	28.25	16.50	28.25	16.50	22.33	358.02	
24	10.76	10.76	10.76	40.26	10.76	134.47	34.23	28.25	16.50	22.33	16.50	16.50	352.08	
25	10.76	10.76	10.76	46.34	34.23	134.47	40.26	52.46	16.50	22.33	16.50	16.50	411.87	
26	10.76	10.76	10.76	58.62	89.84	134.47	52.46	71.02	10.76	22.33	16.50	16.50	504.78	
27	10.76	10.76	16.50	64.80	108.85	134.47	58.62	58.62	10.76	16.50	16.50	16.50	523.63	
28	10.76	10.76	16.50	77.27	115.23	134.47	64.80	46.34	10.76	16.50	16.50	16.50	536.39	
29	10.76	10.76	16.50	71.02	128.04	134.47	64.80	40.26	10.76	16.50		16.50	520.37	
30	10.76	10.76	16.50	71.02	128.04	128.04	40.26	34.23	10.76	16.50		16.50	483.37	
31		10.76		83.54	128.04		28.25		10.76	10.76		16.50	288.62	
Total	211.37	333.65	357.29	1258.38	1281.30	3267.79	2878.94	1805.40	635.71	694.40	451.10	736.31	13911.63	Tonday
Mean	7.05	10.76	11.91	40.59	41.33	108.93	92.87	60.18	20.51	22.40	16.11	23.75	456.39	Ton/day
Max	10.76	10.76	16.50	96.16	128.04	140.91	134.47	128.04	34.23	34.23	28.25	40.26	140.91	Ton/day
Min	5.19	10.76	10.76	10.76	10.76	46.34	28.25	22.33	10.76	10.76	10.76	5.19	5.19	Ton/day

WATER YEAR : 2016

CHI RIVER BASIN

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

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

Location : on left bank at Ban Kui Chuak.

Ban Kui Chuak **Amphoe** Kosum Phisai **Changwat** Maha Sarakham

Drainge Area	29,265 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2004-Cont'd
Actual Measurement	2004-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.6262
Remarks	Continued Sediment Station

$$QS = 2.9473\ QW^{1.18120}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.37	50.06	55.48	306.48	364.04	349.51	3584.20	4213.22	1787.98	599.48	320.73	378.67	12044.22
2	29.35	50.06	55.48	386.01	299.40	430.51	3573.85	3991.30	1485.17	599.48	327.89	335.07	11563.57
3	29.35	50.06	55.48	320.73	243.67	430.51	3491.22	3896.76	1306.05	575.95	342.28	292.34	11034.41
4	29.35	60.98	55.48	271.32	223.25	460.58	3214.60	3833.93	1191.59	560.34	364.04	327.89	10593.36
5	34.37	60.98	55.48	209.79	364.04	599.48	2881.42	3553.16	1035.87	544.80	393.37	299.40	10032.19
6	29.35	60.98	55.48	170.22	583.78	537.06	3082.68	3173.92	1096.03	483.33	453.03	313.59	10039.47
7	29.35	60.98	60.98	230.03	513.93	468.15	3875.80	3001.93	976.25	445.51	445.51	320.73	10429.14
8	29.35	60.98	66.56	378.67	430.51	599.48	4522.64	2921.51	959.31	400.76	400.76	299.40	11069.93
9	29.35	50.06	55.48	475.73	292.34	678.93	4965.66	2981.79	950.86	371.34	393.37	320.73	11565.66
10	29.35	34.37	50.06	552.56	327.89	662.92	5052.83	3429.45	917.18	313.59	408.17	313.59	12091.97
11	29.35	44.73	50.06	498.59	371.34	583.78	5096.51	4107.31	825.53	393.37	393.37	349.51	12743.47
12	29.35	60.98	50.06	415.59	313.59	646.97	5063.75	4587.07	875.33	378.67	371.34	349.51	13142.23
13	29.35	55.48	44.73	320.73	250.54	711.12	4976.54	4911.30	883.68	378.67	349.51	313.59	13225.25
14	34.37	55.48	44.73	342.28	176.73	950.86	4770.38	5063.75	1027.32	378.67	335.07	306.48	13486.13
15	34.37	55.48	39.50	349.51	125.81	1494.22	4565.58	5096.51	1130.64	378.67	327.89	299.40	13897.57
16	34.37	50.06	34.37	257.44	132.03	1713.79	4436.94	4998.32	1010.25	378.67	313.59	306.48	13666.32
17	34.37	44.73	34.37	216.50	144.59	1695.32	4223.83	4911.30	833.80	378.67	320.73	271.32	13109.51
18	34.37	50.06	34.37	150.94	113.53	1566.89	4043.97	4792.02	759.83	356.77	327.89	216.50	12447.13
19	29.35	50.06	39.50	119.65	95.47	1603.42	3938.73	4759.57	743.54	342.28	364.04	216.50	12302.13
20	34.37	50.06	39.50	150.94	83.72	1928.36	3959.74	4781.20	695.00	342.28	342.28	216.50	12623.95
21	39.50	55.48	39.50	157.33	89.57	2534.42	3928.23	4835.34	646.97	342.28	342.28	230.03	13240.93
22	34.37	55.48	44.73	113.53	95.47	3052.36	3813.02	4824.50	670.92	320.73	349.51	223.25	13597.88
23	34.37	55.48	55.48	132.03	95.47	3316.64	3792.13	4792.02	711.12	285.30	349.51	203.11	13822.67
24	34.37	55.48	72.21	157.33	107.46	3255.36	3708.74	4705.56	670.92	320.73	327.89	189.85	13605.89
25	34.37	55.48	72.21	113.53	203.11	2891.44	3677.54	4565.58	607.36	327.89	313.59	183.27	13045.37
26	34.37	44.73	95.47	119.65	243.67	2652.62	3802.57	4266.32	544.80	313.59	378.67	183.27	12679.74
27	34.37	44.73	189.85	113.53	230.03	2791.55	4012.35	3677.54	521.62	342.28	393.37	216.50	12567.72
28	34.37	44.73	292.34	119.65	243.67	3255.36	4245.07	3133.32	575.95	349.51	378.67	196.46	12869.09
29	34.37	44.73	292.34	157.33	230.03	3573.85	4372.84	2672.40	639.02	364.04		183.27	12564.22
30	39.50	50.06	278.30	292.34	250.54	3532.50	4394.19	2175.39	631.08	349.51		170.22	12163.63
31		55.48		327.89	299.40		4351.51		591.62	313.59		144.59	6084.08
Total	981.12	1618.57	2409.61	7927.83	7538.63	48967.95	127419.06	122653.27	27302.59	12230.77	10128.39	8171.04	377348.85 Tonday
Mean	32.70	52.21	80.32	255.74	243.18	1632.27	4110.29	4088.44	880.73	394.54	361.73	263.58	12395.73 Ton/day
Max	39.50	60.98	292.34	552.56	583.78	3573.85	5096.51	5096.51	1787.98	599.48	453.03	378.67	5096.51 Ton/day
Min	29.35	34.37	34.37	113.53	83.72	349.51	2881.42	2175.39	521.62	285.30	313.59	144.59	29.35 Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Ban Dan Taka.

Ban Dan Taka **Amphoe** Chaloem Phra Kia **Changwat** Nakhon Ratchasima

Drainge Area	4,724 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	27
R-Square	0.8727
Remarks	Continued Sediment Station

$$QS = 1.5447\ QW^{1.27420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	2.20	5.58	13.56	89.65	38.36	105.20	79.59	44.10	2.46	0.02	0.00	380.74	
2	0.00	2.20	5.09	15.15	89.65	34.86	99.96	97.36	40.25	2.20	0.00	0.00	386.73	
3	0.00	1.95	4.22	14.03	67.39	33.17	92.21	110.51	35.71	1.95	0.00	0.00	361.13	
4	0.00	1.70	4.71	12.62	53.54	29.04	92.21	119.91	29.86	1.58	0.00	0.00	345.18	
5	0.00	1.07	5.58	14.03	53.54	25.04	88.38	122.63	23.47	1.35	0.00	0.00	335.08	
6	0.17	1.29	5.95	15.15	52.44	19.11	85.85	114.52	17.10	1.07	0.00	0.00	312.65	
7	0.81	1.13	6.32	21.93	48.11	15.79	117.21	101.27	13.56	0.81	0.00	0.00	326.92	
8	0.56	1.13	7.07	34.01	42.17	13.09	183.98	87.11	10.35	0.81	0.00	0.00	380.28	
9	0.86	1.24	7.62	57.96	37.42	13.56	260.25	74.66	8.75	1.07	0.00	0.00	463.39	
10	0.70	1.18	8.46	54.64	35.71	15.79	360.76	68.59	8.18	1.29	0.00	0.00	555.32	
11	0.51	1.07	7.07	42.17	27.42	15.79	368.23	67.39	7.90	1.41	0.00	0.00	538.97	
12	0.51	1.02	6.69	30.68	18.44	17.77	321.53	63.82	8.75	1.35	0.00	0.00	470.56	
13	0.00	0.91	5.09	18.44	11.25	16.45	291.18	56.85	8.18	1.24	0.00	0.00	409.58	
14	0.00	1.02	4.10	31.51	8.18	19.79	280.59	49.18	6.69	1.07	0.00	0.00	402.13	
15	1.83	0.91	4.10	35.71	9.62	28.23	235.77	48.11	5.40	0.91	0.00	0.00	370.58	
16	0.96	0.96	4.10	36.56	10.80	28.23	176.58	41.21	4.96	0.91	0.00	0.00	305.28	
17	1.02	1.07	4.22	35.71	5.40	25.04	139.21	35.71	3.98	0.86	0.00	0.00	252.19	
18	1.53	1.53	4.84	33.17	2.03	20.47	114.52	34.01	3.50	0.75	0.00	0.00	216.35	
19	3.86	3.38	5.09	29.04	1.47	15.79	87.11	30.68	3.74	0.75	0.00	0.00	180.92	
20	4.46	5.40	5.76	31.51	2.03	21.93	50.26	25.83	3.74	0.75	0.00	0.00	151.67	
21	5.22	6.69	6.13	37.42	2.55	42.17	51.35	17.77	3.98	0.70	0.00	0.00	173.97	
22	5.58	6.69	7.07	36.56	2.46	49.18	43.13	23.47	4.96	0.70	0.00	0.00	179.82	
23	4.84	7.07	7.90	34.01	3.86	47.04	36.56	26.62	5.22	0.70	0.00	0.00	173.83	
24	3.98	6.50	9.04	31.51	3.98	55.74	33.17	27.42	5.09	0.65	0.00	0.00	177.08	
25	1.95	5.40	8.46	25.83	2.12	55.74	37.42	25.83	4.71	0.65	0.00	0.00	168.11	
26	1.76	4.71	7.90	25.83	2.29	51.35	43.13	29.04	4.34	0.65	0.00	0.00	171.01	
27	5.40	4.71	8.46	27.42	15.79	53.54	47.04	34.86	3.98	0.56	0.00	0.00	201.76	
28	3.98	4.34	9.33	26.62	34.01	60.29	48.11	40.25	3.38	0.33	0.00	0.00	230.65	
29	3.15	4.96	9.91	26.62	48.11	68.59	48.11	47.04	3.04	0.17		0.00	259.71	
30	2.92	5.09	9.91	42.17	59.13	83.33	54.64	48.11	2.81	0.17		0.00	308.28	
31		5.58		63.82	47.04		63.82		2.63	0.14		0.00	183.03	
Total	56.57	94.11	195.77	955.39	887.57	1014.28	4057.49	1749.37	332.32	30.05	0.02	0.00	9372.94	Tonday
Mean	1.89	3.04	6.53	30.82	28.63	33.81	130.89	58.31	10.72	0.97	0.00	0.00	25.47	Ton/day
Max	5.58	7.07	9.91	63.82	89.65	83.33	368.23	122.63	44.10	2.46	0.02	0.00	368.23	Ton/day
Min	0.00	0.91	4.10	12.62	1.47	13.09	33.17	17.77	2.63	0.14	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Phong Sawai **Amphoe** Tha Tum **Changwat** Surin

Drainge Area	34,654 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.7489
Remarks	Continued Sediment Station

$$QS = 8.6842\ QW^{0.81760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	86.36	10.08	2.80	9.04	83.80	120.69	1001.75	1628.32	1001.75	181.58	152.95	118.32	4397.43
2	81.22	9.04	2.80	8.33	93.94	130.09	1051.94	1589.12	948.01	183.74	150.70	113.54	4362.45
3	78.62	8.33	2.33	7.60	172.89	150.70	1108.11	1556.62	896.60	185.89	148.44	108.72	4424.84
4	76.00	7.60	1.84	6.86	170.70	209.23	1166.97	1520.60	844.01	190.18	146.18	106.29	4446.48
5	73.37	8.33	1.84	7.60	148.44	311.11	1234.59	1490.71	788.35	192.32	146.18	101.39	4504.23
6	73.37	7.97	2.80	9.39	139.33	354.56	1301.16	1456.83	729.42	185.89	146.18	98.92	4505.80
7	66.23	7.24	2.80	11.43	155.19	382.25	1337.97	1425.05	671.83	181.58	146.18	91.43	4479.17
8	59.38	6.49	2.80	35.52	188.04	416.71	1393.11	1397.68	622.98	179.42	146.18	88.90	4537.19
9	57.06	6.86	2.33	148.44	217.58	418.50	1443.23	1370.19	575.77	181.58	146.18	83.80	4651.52
10	57.06	6.11	1.84	200.82	234.05	414.91	1485.75	1351.80	527.68	181.58	146.18	88.90	4696.67
11	47.54	5.72	1.84	198.70	242.19	422.09	1530.91	1328.73	462.86	185.89	146.18	98.92	4671.58
12	44.61	4.93	1.32	225.85	248.26	429.24	1578.01	1309.05	405.90	185.89	143.90	73.37	4650.32
13	40.12	4.52	1.32	240.16	254.29	509.15	1640.24	1281.39	374.91	185.89	143.90	70.71	4746.61
14	35.52	5.72	0.75	248.26	256.30	542.97	1717.90	1253.59	328.26	181.58	143.90	68.48	4783.23
15	32.37	5.72	0.75	250.27	256.30	560.69	1805.38	1223.30	291.80	179.42	146.18	68.48	4820.65
16	28.07	5.72	0.00	242.19	254.29	573.26	1881.44	1200.65	282.04	179.42	146.18	70.71	4863.98
17	25.87	5.33	0.00	229.96	244.22	578.28	1953.00	1177.91	314.94	175.07	143.90	76.00	4924.48
18	23.62	4.93	0.00	211.33	227.91	580.78	2011.77	1163.40	289.86	172.89	143.90	70.71	4901.09
19	20.74	4.52	0.00	192.32	198.70	593.26	2055.92	1156.25	262.29	170.70	143.90	76.00	4874.60
20	18.97	4.11	0.00	166.30	111.13	618.05	2073.51	1159.83	232.01	170.70	141.62	76.00	4772.23
21	17.77	3.68	0.00	127.75	32.37	642.62	2064.72	1163.40	202.93	172.89	141.62	73.37	4643.12
22	16.55	3.68	0.00	98.92	26.98	671.83	2038.29	1174.11	181.58	172.89	137.03	76.00	4597.84
23	15.93	3.68	0.00	81.22	49.96	710.34	2011.77	1189.29	188.04	166.30	132.41	76.00	4624.95
24	14.68	3.68	0.00	43.12	61.68	748.39	1977.15	1200.65	198.70	161.88	127.75	73.37	4611.06
25	13.08	4.52	0.75	37.07	66.23	783.67	1928.79	1204.43	205.04	161.88	120.69	73.37	4599.52
26	11.77	4.11	1.32	68.48	68.48	818.61	1881.44	1196.87	207.14	161.88	115.94	73.37	4609.39
27	10.76	3.68	1.84	103.84	73.37	853.21	1827.37	1174.11	209.23	161.88	115.94	76.00	4611.23
28	10.08	3.68	4.52	130.09	83.80	889.78	1783.33	1138.34	209.23	164.09	115.94	70.71	4603.59
29	9.39	3.25	7.60	130.09	86.36	925.52	1732.30	1101.36	205.04	159.66		66.23	4426.78
30	9.74	2.80	9.04	113.54	98.92	962.93	1689.04	1051.94	194.45	157.43		66.23	4356.05
31		3.25		96.44	108.72		1652.14		188.04	155.19		63.97	2267.74
Total	1155.83	169.24	55.22	3680.94	4654.40	16323.41	51358.99	38635.52	13040.69	5427.15	3926.20	2538.22	140965.82 Tonday
Mean	38.53	5.46	1.84	118.74	150.14	544.11	1656.74	1287.85	420.67	175.07	140.22	81.88	385.10 Ton/day
Max	86.36	10.08	9.04	250.27	256.30	962.93	2073.51	1628.32	1001.75	192.32	152.95	118.32	2073.51 Ton/day
Min	9.39	2.80	0.00	6.86	26.98	120.69	1001.75	1051.94	181.58	155.19	115.94	63.97	0.00 Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

Ban Mueang Kong **Amphoe** Rasi Salai **Changwat** Si Sa Ket

Drainge Area	45,295 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.7128
Remarks	Continued Sediment Station

$$QS = 57.0080\ QW^{0.50540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	182.53	358.39	69.97	460.49	124.49	501.93	1287.51	1709.92	1040.36	331.68	328.58	272.52	6668.38	
2	187.09	348.73	57.01	515.13	111.49	524.41	1310.22	1676.65	990.47	334.75	323.87	268.75	6648.58	
3	191.54	343.80	57.01	463.10	109.22	557.85	1335.72	1647.02	923.01	334.75	320.70	266.85	6550.56	
4	195.89	343.80	40.16	392.55	109.22	546.93	1354.53	1621.10	840.45	334.75	320.70	264.93	6365.01	
5	195.89	341.31	40.16	314.26	111.49	512.12	1397.46	1584.12	832.13	334.75	319.10	264.93	6247.72	
6	200.15	331.16	69.97	283.52	128.59	501.93	1427.11	1530.69	830.45	334.75	319.10	263.01	6220.43	
7	200.15	328.58	80.92	255.15	191.54	568.57	1483.95	1476.33	837.13	334.75	312.63	263.01	6332.70	
8	212.43	318.03	90.58	240.79	330.13	629.14	1499.06	1420.19	813.53	336.27	312.63	259.11	6461.89	
9	224.04	312.63	80.92	196.75	362.66	679.64	1502.82	1386.85	629.14	339.30	312.63	259.11	6286.49	
10	235.10	295.84	69.97	169.13	397.75	699.74	1510.30	1277.66	658.95	340.81	307.69	259.11	6222.05	
11	245.67	284.12	57.01	214.01	432.03	721.21	1521.46	1107.14	701.72	342.31	302.67	257.13	6186.47	
12	255.81	259.11	57.01	299.28	383.29	801.47	1573.40	1390.40	740.20	345.29	300.98	255.15	6661.36	
13	265.57	220.24	40.16	327.02	361.24	860.50	1586.79	1385.07	767.82	349.71	300.98	253.15	6718.24	
14	278.07	208.41	69.97	376.53	352.63	943.56	1594.77	1376.16	766.01	349.71	299.28	251.13	6866.23	
15	298.71	216.37	99.33	381.94	346.77	1055.37	1597.42	1367.19	749.52	349.71	299.28	249.09	7010.69	
16	328.58	208.41	99.33	389.93	336.27	1096.02	1600.07	1308.61	671.44	349.71	297.56	247.04	6932.98	
17	336.27	208.41	99.33	384.62	328.58	1091.22	1605.35	1167.49	597.58	351.17	295.84	244.98	6710.85	
18	341.31	208.41	99.33	379.25	319.10	1092.82	1673.60	1153.00	549.13	345.29	294.11	251.13	6706.47	
19	351.17	200.15	99.33	373.80	310.99	1096.02	1709.92	1147.52	526.70	343.80	292.37	249.09	6700.87	
20	374.71	177.86	17.80	361.24	294.11	1050.39	1756.11	1147.52	346.77	343.80	292.37	251.13	6413.82	
21	392.55	152.42	90.58	340.81	288.86	976.27	1769.74	1127.50	336.27	343.80	290.62	249.09	6358.54	
22	381.50	128.59	90.58	276.23	259.11	1105.56	1780.20	1065.27	331.68	343.80	290.62	249.09	6302.22	
23	415.85	114.87	90.58	268.75	166.13	1192.44	1783.67	1058.68	328.58	343.80	290.62	247.04	6301.03	
24	447.64	99.33	80.92	230.00	139.81	1204.73	1780.20	1055.37	328.58	343.80	288.86	247.04	6246.28	
25	443.78	99.33	80.92	132.43	128.59	1213.43	1783.67	1055.37	328.58	343.80	288.86	244.98	6143.74	
26	435.98	99.33	90.58	122.46	298.71	1204.73	1817.55	1057.03	328.58	340.81	287.09	234.38	6317.23	
27	405.42	99.33	25.27	120.40	328.58	1167.49	1817.55	1057.03	331.68	336.27	285.31	223.29	6197.63	
28	367.80	90.58	118.16	113.85	356.00	1172.88	1805.84	1057.03	331.68	334.75	274.38	214.01	6236.97	
29	372.42	90.58	295.84	120.40	388.17	1185.36	1783.67	1058.68	331.68	333.22		206.79	6166.82	
30	365.47	80.92	407.95	132.43	424.02	1225.51	1762.74	1058.68	331.68	333.22		191.54	6314.15	
31		69.97		146.82	455.24		1730.97		330.13	331.68		186.18	3251.00	
Total	9129.11	6639.03	2766.71	8783.08	8674.78	27179.23	49943.35	38531.27	18451.60	10556.01	8449.46	7643.78	196747.40	Tonday
Mean	304.30	214.16	92.22	283.33	279.83	905.97	1611.08	1284.38	595.21	340.52	301.77	246.57	538.28	Ton/day
Max	447.64	358.39	407.95	515.13	455.24	1225.51	1817.55	1709.92	1040.36	351.17	328.58	272.52	1817.55	Ton/day
Min	182.53	69.97	17.80	113.85	109.22	501.93	1287.51	1055.37	328.58	331.68	274.38	186.18	17.80	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at Satuk.

	Ban Satuk		**Amphoe** Satuk	**Changwat** Buri Ram	
Drainge Area	28,458 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2000-Cont'd				
Actual Measurement	2000-Cont'd				
Using Rating Curve Water Year	2016				
Number of observation	37				
R-Square	0.8474				
Remarks	Continued Sediment Station				

$$QS = 14.0370\ QW^{0.71480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	148.83	27.79	886.92	1168.99	769.16	54.67	0.00	0.00	3056.36	
2	0.00	0.00	0.00	0.00	155.04	51.12	929.87	1146.21	726.64	45.61	0.00	0.00	3054.51	
3	0.00	0.00	0.00	0.00	127.89	124.55	960.74	1127.97	680.34	39.82	0.00	0.00	3061.30	
4	0.00	0.00	0.00	0.00	132.84	181.85	974.64	1109.60	635.37	35.07	0.00	0.00	3069.37	
5	0.00	0.00	0.00	103.67	153.50	234.57	1009.87	1093.76	607.06	36.45	0.00	0.00	3238.88	
6	0.00	0.00	0.00	226.69	191.85	285.31	1042.45	1074.64	578.22	35.07	0.00	0.00	3434.23	
7	0.00	0.00	0.00	278.03	224.70	304.96	1068.23	1058.59	545.06	27.79	0.00	0.00	3507.36	
8	0.00	0.00	0.00	285.31	222.70	304.96	1116.96	1065.02	501.48	22.21	0.00	0.00	3518.64	
9	0.00	0.00	0.00	288.92	208.54	322.39	1168.99	1055.37	448.29	21.37	0.00	0.00	3513.87	
10	0.00	0.00	0.00	281.68	198.17	310.23	1214.01	1039.21	398.81	19.64	0.00	0.00	3461.76	
11	0.00	0.00	0.00	272.53	189.73	294.31	1277.69	1029.47	349.80	16.93	0.00	0.00	3430.45	
12	0.00	0.00	0.00	261.37	189.73	303.19	1332.95	1019.69	287.12	15.03	0.00	0.00	3409.07	
13	0.00	0.00	0.00	253.83	191.85	285.31	1378.95	1016.42	255.72	13.02	0.00	0.00	3395.11	
14	0.00	0.00	0.00	244.28	198.17	306.72	1416.40	1013.14	204.42	11.97	0.00	0.00	3395.09	
15	0.00	0.00	0.00	224.70	204.42	332.67	1425.94	1016.42	167.17	11.97	0.00	0.00	3383.27	
16	0.00	0.00	0.00	200.26	210.58	334.37	1430.70	1029.47	137.71	14.04	0.00	0.00	3357.13	
17	0.00	0.00	0.00	176.40	187.59	360.03	1430.70	1055.37	124.55	17.85	0.00	0.00	3352.50	
18	0.00	0.00	0.00	155.04	140.93	409.31	1425.94	1074.64	112.56	16.93	2.71	0.00	3338.05	
19	0.00	0.00	0.00	112.56	132.84	454.32	1406.83	1096.94	97.73	15.03	4.44	0.00	3320.68	
20	0.00	0.00	0.00	75.89	127.89	487.91	1383.61	1113.28	87.81	14.04	2.71	0.00	3293.14	
21	0.00	0.00	0.00	72.79	117.75	518.70	1360.23	1116.96	80.44	19.64	0.00	0.00	3286.53	
22	0.00	0.00	0.00	94.93	94.93	559.89	1332.95	1113.28	68.05	35.07	0.00	0.00	3299.10	
23	0.00	0.00	0.00	110.80	84.89	590.91	1300.82	1100.11	56.41	41.78	0.00	0.00	3285.72	
24	0.00	0.00	0.00	137.71	83.42	624.82	1282.33	1081.03	52.91	35.07	0.00	0.00	3297.28	
25	0.00	0.00	0.00	144.11	105.47	669.64	1268.38	1042.45	51.12	23.04	0.00	0.00	3304.22	
26	0.00	0.00	0.00	178.23	93.53	699.43	1254.38	993.41	45.61	18.76	0.00	0.00	3283.34	
27	0.00	0.00	0.00	165.67	72.79	733.07	1226.18	946.76	47.48	14.04	0.00	0.00	3205.99	
28	0.00	0.00	0.00	110.80	71.22	766.92	1210.29	902.98	52.91	8.55	0.00	0.00	3123.68	
29	0.00	0.00	0.00	81.93	61.50	809.56	1199.08	859.11	56.41	4.44		0.00	3072.05	
30	0.00	0.00	0.00	94.93	56.41	849.77	1195.34	816.72	56.41	0.00		0.00	3069.57	
31		0.00		101.85	37.81		1180.31		56.41	0.00		0.00	1376.38	
Total	0.00	0.00	0.00	4734.93	4417.53	12538.59	38092.66	31377.02	8339.17	684.89	9.86	0.00	100194.65	Tonday
Mean	0.00	0.00	0.00	152.74	142.50	417.95	1228.80	1045.90	269.01	22.09	0.35	0.00	273.28	Ton/day
Max	0.00	0.00	0.00	288.92	224.70	849.77	1430.70	1168.99	769.16	54.67	4.44	0.00	1430.70	Ton/day
Min	0.00	0.00	0.00	0.00	37.81	27.79	886.92	816.72	45.61	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Seri Prachathipatai Bridge.

Ban Chumchondeengam **Amphoe** Mueang **Changwat** Ubon Ratchathani

Drainge Area	107,345 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2016
Number of observation	40
R-Square	0.7489
Remarks	Continued Sediment Station

$$QS = 6.7315\ QW^{0.88840}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.12	111.22	138.16	1933.99	732.07	1525.83	5930.44	5054.47	2747.36	65.73	54.37	50.21	18372.95
2	24.09	119.59	158.44	2222.16	621.47	1670.24	5968.69	4933.24	2645.95	65.73	51.13	49.28	18530.00
3	24.09	127.88	194.16	2587.98	631.62	1694.15	6019.65	4709.34	2556.81	56.66	49.28	46.47	18698.10
4	24.09	123.74	201.98	3023.88	601.10	1610.27	6045.11	4673.87	2286.98	48.34	46.47	42.70	18728.54
5	24.09	121.67	213.64	2835.70	549.80	1562.09	6095.99	4602.82	2091.79	43.65	41.75	39.84	18222.83
6	32.09	121.67	306.28	2860.88	539.47	1586.20	6235.63	4472.21	1881.03	40.80	43.65	39.84	18159.74
7	34.05	119.59	388.29	2835.70	590.89	1658.26	6324.29	4329.17	1610.27	38.88	49.28	42.70	18021.37
8	36.96	125.82	404.42	2582.32	631.62	1729.94	6400.16	4233.49	1318.23	37.92	47.41	42.70	17590.98
9	35.02	125.82	420.47	2377.35	651.86	1801.24	6425.42	4161.54	1155.12	37.92	48.34	42.70	17282.80
10	31.10	127.88	476.93	2235.15	621.47	1894.28	6412.79	3993.06	781.64	39.84	52.06	41.75	16707.96
11	28.12	125.82	441.75	2117.95	661.95	2065.60	6374.88	3543.32	236.73	42.70	50.21	41.75	15730.77
12	31.10	113.32	448.81	2026.23	928.09	2415.95	6311.63	3395.95	236.73	44.59	46.47	43.65	16042.52
13	30.11	111.22	490.92	2117.95	957.03	2961.32	6235.63	3702.11	295.15	43.65	45.53	46.47	17037.08
14	26.12	107.00	517.00	2351.58	899.05	3968.92	6134.11	3775.11	295.15	41.75	44.59	50.21	18210.58
15	24.09	94.23	490.92	2569.57	869.89	4531.64	6006.92	3738.63	366.66	40.80	48.34	42.70	18824.38
16	22.04	89.92	508.32	2633.24	860.14	4803.77	5904.92	3689.93	469.92	40.80	52.06	34.05	19109.11
17	22.04	94.23	525.65	2531.27	840.60	4956.73	5815.49	3531.07	434.67	40.80	56.66	37.92	18887.13
18	25.10	92.08	525.65	2338.68	781.64	4991.94	5713.07	3297.25	377.50	40.80	50.21	43.65	18277.55
19	29.12	85.59	469.92	2104.88	702.13	4991.94	5610.41	3073.81	377.50	39.84	47.41	43.65	17576.19
20	31.10	96.37	420.47	1867.76	631.62	5067.48	5546.14	3011.38	361.22	40.80	54.37	43.65	17172.35
21	29.12	98.51	339.38	1598.24	580.65	5093.49	5481.77	3023.88	361.22	46.47	52.06	48.34	16753.14
22	30.11	100.64	201.98	1342.86	601.10	5158.46	5417.30	3011.38	350.32	54.37	49.28	67.97	16385.77
23	31.10	119.59	225.22	1209.79	611.30	5378.57	5365.66	2973.85	339.38	76.84	48.34	83.41	16463.06
24	34.05	94.23	248.17	1100.11	539.47	5546.14	5352.74	2948.79	344.86	100.64	48.34	96.37	16453.90
25	36.96	81.23	205.87	1005.00	476.93	5674.60	5326.89	2936.25	205.87	89.92	47.41	98.51	16185.45
26	44.59	100.64	205.87	957.03	560.11	5713.07	5326.89	2936.25	201.98	70.20	48.34	98.51	16263.47
27	54.37	98.51	355.78	966.64	742.02	5764.30	5352.74	2911.16	129.95	58.94	47.41	100.64	16582.45
28	72.42	109.11	811.19	985.85	840.60	5777.11	5339.81	2886.03	111.22	56.66	49.28	102.77	17142.04
29	102.77	117.50	1055.86	908.74	908.74	5777.11	5301.02	2835.70	87.76	54.37		102.77	17252.34
30	107.00	113.32	1477.32	850.38	1090.65	5841.06	5236.28	2823.10	74.64	58.94		83.41	17756.10
31		121.67		801.35	1330.55		5158.46		67.97	58.94		70.20	7609.14
Total	1106.13	3389.57	12868.85	59880.19	22585.62	113211.68	180170.93	109208.16	24801.57	1618.28	1370.05	1818.76	532029.81 Tonday
Mean	36.87	109.34	428.96	1931.62	728.57	3773.72	5811.97	3640.27	800.05	52.20	48.93	58.67	1451.76 Ton/day
Max	107.00	127.88	1477.32	3023.88	1330.55	5841.06	6425.42	5054.47	2747.36	100.64	56.66	102.77	6425.42 Ton/day
Min	22.04	81.23	138.16	801.35	476.93	1525.83	5158.46	2823.10	67.97	37.92	41.75	34.05	22.04 Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at railway bridge.

Ban La Loon **Amphoe** Mueang **Changwat** Surin

Drainge Area	3,028 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2016
Number of observation	49
R-Square	0.9143
Remarks	Continued Sediment Station

$$QS = 2.8547\ QW^{0.95540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	1.13	0.73	0.85	1.97	52.27	310.97	75.34	15.56	1.42	0.76	0.38	462.48	
2	1.10	1.13	0.73	0.76	3.56	70.77	315.57	80.60	12.60	1.42	0.76	0.38	489.38	
3	1.13	1.13	0.73	0.76	4.21	87.24	314.26	85.15	9.35	1.42	0.76	0.38	506.50	
4	1.13	1.13	0.73	0.76	5.24	98.37	301.76	85.15	1.75	1.36	0.73	0.00	498.12	
5	1.10	1.13	0.73	0.79	6.80	108.86	275.38	79.90	3.13	1.36	0.67	0.00	479.86	
6	1.10	1.13	0.70	0.82	13.84	112.08	238.24	65.48	6.54	1.36	0.61	0.00	441.91	
7	1.13	1.08	0.70	0.85	26.28	101.83	201.72	51.34	5.77	1.19	0.58	0.00	392.47	
8	1.13	1.08	0.73	0.93	37.95	88.64	185.14	53.43	3.88	1.10	0.50	0.00	374.51	
9	1.13	1.08	0.76	0.93	45.00	80.25	193.21	49.69	2.64	1.08	0.47	0.00	376.24	
10	1.13	1.08	0.76	0.90	50.62	80.60	212.44	49.24	2.47	0.99	0.41	0.00	400.64	
11	1.13	1.08	0.76	0.93	55.74	84.80	242.89	49.24	2.20	0.93	0.41	0.00	440.10	
12	1.13	1.08	0.76	0.93	58.06	89.68	280.00	49.93	1.36	0.93	0.41	0.00	484.27	
13	1.13	1.08	0.76	1.08	57.61	103.56	309.00	46.89	1.02	0.93	0.41	0.00	523.47	
14	1.13	1.86	0.73	1.05	51.34	121.71	325.85	43.37	0.99	0.87	0.41	0.00	549.32	
15	1.13	1.58	0.70	1.05	41.01	133.59	331.97	38.65	1.02	0.82	0.58	0.00	552.11	
16	1.10	1.25	0.70	0.96	27.70	144.06	329.68	33.93	1.02	0.79	1.02	0.00	542.20	
17	1.08	1.13	0.70	0.96	19.50	154.03	318.86	28.44	1.02	0.76	0.90	0.00	527.37	
18	1.08	1.05	0.70	1.10	15.08	160.82	300.45	25.07	0.93	0.79	0.87	0.00	507.94	
19	1.08	1.05	0.70	1.75	12.85	160.82	270.75	23.37	0.93	0.73	0.82	0.00	474.85	
20	1.08	1.05	0.70	1.30	10.35	154.49	239.57	20.94	0.93	0.76	0.76	0.00	431.92	
21	1.08	0.93	0.70	1.30	4.47	149.96	207.53	18.02	0.85	0.73	0.67	0.00	386.24	
22	1.08	0.73	0.70	1.30	3.29	155.85	183.34	16.54	0.85	0.79	0.58	0.00	365.05	
23	1.08	0.70	0.70	1.53	2.75	165.34	160.82	16.32	4.98	0.73	0.47	0.00	355.40	
24	1.08	0.70	0.70	2.47	2.47	178.85	133.14	16.32	2.31	0.76	0.38	0.00	339.17	
25	1.08	0.73	0.70	3.72	2.75	194.11	113.00	15.31	2.03	0.73	0.38	0.00	334.53	
26	1.02	0.73	0.73	4.12	6.27	212.99	99.76	16.79	2.42	0.76	0.38	0.00	345.97	
27	1.02	0.73	0.82	3.56	20.94	234.24	92.12	19.74	2.36	0.82	0.38	0.00	376.72	
28	1.02	0.73	0.79	3.02	26.99	258.17	89.33	18.75	2.20	0.76	0.38	0.00	402.12	
29	1.02	0.73	1.02	2.53	31.78	280.66	87.24	18.27	1.64	0.76		0.00	425.66	
30	1.02	0.73	1.10	1.97	33.93	298.47	82.70	16.54	1.05	0.76		0.00	438.27	
31		0.73		1.86	39.13		77.80		1.58	0.76		0.00	121.87	
Total	32.75	31.47	22.48	46.86	719.49	4317.12	6824.49	1207.74	97.36	29.35	16.43	1.13	13346.67	Tonday
Mean	1.09	1.02	0.75	1.51	23.21	143.90	220.14	40.26	3.14	0.95	0.59	0.04	36.38	Ton/day
Max	1.13	1.86	1.10	4.12	58.06	298.47	331.97	85.15	15.56	1.42	1.02	0.38	331.97	Ton/day
Min	1.02	0.70	0.70	0.76	1.97	52.27	77.80	15.31	0.85	0.73	0.38	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge on highway.

Ban Huai Thap Than **Amphoe** Huai Thap Thun **Changwat** Si Sa Ket

Drainge Area	2,832 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	1997 - 2016
Number of observation	442
R-Square	0.8512
Remarks	Continued Sediment Station

$$QS = 3.6533\ QW^{0.97990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.49	73.51	51.90	296.64	105.70	3.83	1.56	1.34	0.98	536.94
2	0.00	0.00	0.00	1.49	67.45	53.59	304.91	99.01	3.58	1.49	1.34	0.90	533.76
3	0.00	0.00	0.00	1.56	63.74	69.47	313.44	92.32	3.37	1.42	1.34	0.90	547.55
4	0.00	0.00	0.00	1.56	58.67	75.53	323.24	85.61	3.22	1.42	1.34	0.90	551.49
5	0.00	0.00	0.00	1.78	55.28	109.04	324.05	81.58	3.01	1.34	1.34	0.90	578.33
6	0.00	0.00	0.00	2.14	51.90	124.04	324.87	77.55	2.79	1.34	1.34	0.83	586.81
7	0.00	0.00	0.00	2.29	50.20	95.67	330.58	69.47	2.43	1.27	1.34	0.83	554.08
8	0.00	0.00	0.00	2.36	48.50	73.51	338.74	65.42	2.14	1.27	1.34	0.75	534.05
9	0.00	0.00	0.00	2.50	45.11	75.53	345.26	63.74	1.92	1.27	1.27	0.75	537.36
10	0.00	0.00	0.00	2.58	40.00	77.55	350.16	65.42	1.71	1.27	1.27	0.68	540.63
11	0.00	0.00	0.00	2.72	34.88	79.57	351.79	67.45	1.56	1.27	1.27	0.68	541.18
12	0.00	0.00	0.00	2.79	33.17	75.53	353.42	65.42	1.42	1.27	1.27	0.61	534.89
13	0.00	0.00	0.00	3.08	31.46	77.55	350.97	63.74	1.27	1.34	1.27	0.61	531.28
14	0.00	0.00	0.00	3.29	31.46	92.32	349.34	60.36	1.12	1.34	1.27	0.61	541.11
15	0.00	0.00	0.00	3.51	30.09	88.96	348.53	55.28	1.42	1.34	1.27	0.61	531.01
16	0.00	0.00	0.00	4.19	27.34	83.60	346.90	50.20	2.21	1.34	1.20	0.61	517.58
17	0.00	0.00	0.00	5.97	25.97	79.57	346.08	45.11	2.14	1.34	1.20	0.61	507.98
18	0.00	0.00	0.00	8.09	25.97	75.53	341.19	36.59	2.07	1.34	1.20	0.53	492.50
19	0.00	0.00	0.00	13.51	25.97	75.53	333.03	34.88	2.07	1.34	1.20	0.53	488.07
20	0.00	0.00	0.00	33.17	24.59	75.53	312.62	24.59	2.00	1.34	1.12	0.53	475.50
21	0.00	0.00	0.00	51.90	24.59	81.58	284.00	12.12	1.92	1.34	1.12	0.53	459.11
22	0.00	0.00	0.00	50.20	24.59	102.36	229.87	10.72	1.78	1.34	1.12	0.53	422.52
23	0.00	0.00	0.00	48.50	28.72	119.05	186.54	10.02	1.78	1.34	1.05	0.53	397.53
24	0.00	0.00	0.00	46.81	27.34	185.05	172.16	9.32	1.71	1.34	1.05	0.53	445.31
25	0.00	0.00	0.00	50.20	38.30	211.44	124.04	8.61	1.71	1.34	1.05	0.61	437.30
26	0.00	0.00	0.00	56.98	38.30	227.89	95.67	7.38	1.71	1.34	1.05	0.75	431.07
27	0.00	0.00	0.00	63.74	33.17	241.70	79.57	5.97	1.63	1.34	1.05	0.98	429.14
28	0.00	0.00	0.00	67.45	36.59	253.52	83.60	4.72	1.63	1.34	1.05	1.12	451.03
29	0.00	0.00	0.98	71.49	43.41	266.70	95.67	4.37	1.63	1.34		1.12	486.71
30	0.00	0.00	1.27	75.53	50.20	284.00	105.70	4.01	1.63	1.34		1.12	524.81
31		0.00		75.53	48.50		109.04		1.56	1.34		1.05	237.03
Total	0.00	0.00	2.25	758.40	1238.96	3582.81	8251.59	1386.69	63.99	41.69	34.07	23.23	15383.67 Tonday
Mean	0.00	0.00	0.07	24.46	39.97	119.43	266.18	46.22	2.06	1.34	1.22	0.75	41.81 Ton/day
Max	0.00	0.00	1.27	75.53	73.51	284.00	353.42	105.70	3.83	1.56	1.34	1.12	353.42 Ton/day
Min	0.00	0.00	0.00	1.49	24.59	51.90	79.57	4.01	1.12	1.27	1.05	0.53	0.00 Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

Ban - **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	713 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1981 - 1988,1991,1997 - Cont'd
Actual Measurement	1981 - 1988,1991,1997 - Cont'd
Using Rating Curve Water Year	2016
Number of observation	41
R-Square	0.7464
Remarks	Continued Sediment Station

$$QS = 0.8176\ QW^{1.58380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.62	0.49	41.86	4.18	22.90	49.26	58.34	5.68	2.07	0.87	0.55	187.44
2	0.87	0.72	0.53	6.22	3.53	25.61	29.39	39.67	5.42	2.07	0.87	0.57	115.47
3	0.77	0.57	0.77	3.53	3.02	11.13	26.54	24.69	4.91	2.07	1.03	0.53	79.57
4	0.67	0.57	0.82	2.69	2.69	6.22	29.39	24.69	4.41	2.22	1.03	0.53	75.94
5	0.67	0.53	0.87	2.53	4.66	4.91	24.69	15.47	3.94	2.07	1.03	0.55	61.92
6	0.67	0.53	0.55	2.85	4.66	3.71	37.52	15.47	3.71	2.22	0.92	0.57	73.39
7	0.62	0.57	0.49	1.97	3.19	4.41	23.79	17.02	3.71	1.65	0.92	0.57	58.93
8	0.55	0.46	0.49	2.69	2.53	7.82	20.30	34.39	3.36	1.09	0.87	0.57	75.12
9	0.51	0.46	0.46	2.22	12.52	4.41	15.47	21.16	3.19	1.09	0.82	0.57	62.88
10	0.49	0.51	0.40	1.97	14.71	3.36	13.96	22.02	3.19	1.09	0.77	0.57	63.03
11	0.49	0.46	0.46	1.55	26.54	5.16	17.02	17.82	3.71	1.09	0.87	0.55	75.74
12	0.46	0.38	0.49	1.86	11.82	4.41	16.24	13.23	3.71	1.18	0.87	0.55	55.21
13	0.55	0.33	0.46	2.37	11.82	8.67	11.13	11.13	3.71	1.03	0.82	0.53	52.56
14	0.49	0.46	0.36	1.76	8.24	7.82	9.10	10.46	3.36	1.09	0.77	0.51	44.41
15	0.51	0.77	0.36	3.02	5.68	6.22	7.40	9.55	3.02	1.18	0.82	0.72	39.23
16	0.51	0.62	0.35	2.69	4.66	5.16	6.60	8.24	3.02	1.09	0.82	1.09	34.84
17	0.49	0.55	0.33	2.69	4.41	4.91	13.96	6.22	2.85	1.18	0.62	2.85	41.05
18	0.46	0.72	0.33	1.86	5.42	4.66	30.37	6.22	2.85	1.09	0.53	0.92	55.42
19	0.49	0.57	0.29	1.55	4.41	6.22	12.52	5.68	2.85	1.09	0.57	1.18	37.43
20	1.03	0.57	0.33	1.36	3.71	6.22	11.13	7.40	2.69	1.09	0.57	0.92	37.04
21	1.55	0.53	0.38	1.55	3.71	6.22	24.69	9.10	2.69	1.03	0.55	0.87	52.89
22	1.09	0.46	0.53	1.18	9.10	11.13	133.84	9.10	2.53	0.98	0.55	0.82	171.32
23	0.87	0.44	1.86	1.09	7.00	13.96	45.22	7.82	2.37	0.98	0.82	0.77	83.20
24	0.46	0.40	1.97	1.76	4.91	20.30	25.61	6.22	2.69	0.98	0.82	0.72	66.83
25	0.44	0.42	1.97	1.09	4.41	30.37	23.79	6.60	2.53	0.98	1.03	1.27	74.92
26	0.36	0.44	1.76	1.18	7.00	32.36	21.16	10.00	2.22	1.03	0.87	1.03	79.42
27	0.38	0.44	1.46	1.55	7.00	33.37	14.71	10.00	2.69	0.98	0.72	0.92	74.22
28	0.77	0.42	1.55	1.97	5.16	32.36	11.82	8.67	2.53	0.98	0.57	0.92	67.71
29	0.72	0.40	2.07	3.71	7.82	49.26	16.24	7.40	2.85	0.98		0.98	92.43
30	0.72	0.38	3.71	3.53	42.97	58.34	255.46	7.40	2.22	0.92		0.82	376.49
31		0.40		3.53	27.48		193.97		2.37	0.87		0.87	229.50
Total	19.27	15.76	26.88	111.38	268.94	441.59	1172.33	451.20	100.98	39.50	22.33	25.42	2695.57 Tonday
Mean	0.64	0.51	0.90	3.59	8.68	14.72	37.82	15.04	3.26	1.27	0.80	0.82	7.34 Ton/day
Max	1.55	0.77	3.71	41.86	42.97	58.34	255.46	58.34	5.68	2.22	1.03	2.85	255.46 Ton/day
Min	0.36	0.33	0.29	1.09	2.53	3.36	6.60	5.68	2.22	0.87	0.53	0.51	0.29 Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge.

Ban Wang Prat **Amphoe** Khu Mueang **Changwat** Buri Ram

Drainge Area	24,841 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005 - Cont'd
Actual Measurement	2005 - Cont'd
Using Rating Curve Water Year	2013 - 2016
Number of observation	97
R-Square	0.7218
Remarks	Continued Sediment Station

$$QS = 16.5580\ QW^{0.75470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	162.40	301.68	361.61	1534.77	1611.57	0.00	0.00	0.00	0.00	3972.02	
2	0.00	0.00	0.00	278.02	330.43	413.19	1588.65	1573.32	0.00	0.00	0.00	0.00	4183.62	
3	0.00	0.00	0.00	405.26	370.74	483.36	1644.19	1534.77	0.00	0.00	0.00	0.00	4438.32	
4	0.00	0.00	0.00	486.27	373.01	523.72	1676.61	1503.71	0.00	0.00	0.00	0.00	4563.33	
5	0.00	0.00	0.00	486.27	357.01	538.29	1713.81	1456.71	0.00	0.00	0.00	0.00	4552.09	
6	0.00	0.00	0.00	449.58	311.36	523.72	1776.50	1401.25	0.00	0.00	0.00	0.00	4462.40	
7	0.00	0.00	0.00	423.69	287.95	518.02	1829.83	1357.61	0.00	0.00	0.00	0.00	4417.11	
8	0.00	0.00	0.00	388.80	283.99	500.78	1854.15	1337.88	0.00	0.00	0.00	0.00	4365.60	
9	0.00	0.00	0.00	361.61	287.95	447.01	1902.48	1318.04	0.00	0.00	0.00	0.00	4317.09	
10	0.00	0.00	0.00	354.70	291.90	447.01	1998.83	1311.41	0.00	0.00	0.00	0.00	4403.85	
11	0.00	0.00	0.00	345.43	295.82	472.46	2115.28	1324.66	0.00	0.00	0.00	0.00	4553.66	
12	0.00	0.00	0.00	328.54	303.62	431.51	2151.34	1385.27	0.00	0.00	0.00	0.00	4600.28	
13	0.00	0.00	0.00	307.50	317.12	469.94	2169.30	1448.83	0.00	0.00	0.00	0.00	4712.68	
14	0.00	0.00	0.00	274.01	322.84	506.55	2169.30	1527.02	0.00	0.00	0.00	0.00	4799.73	
15	0.00	0.00	0.00	239.14	326.64	579.70	2151.34	1603.94	0.00	0.00	0.00	0.00	4900.76	
16	0.00	0.00	0.00	230.69	317.12	683.79	2079.01	1668.53	0.00	0.00	0.00	0.00	4979.14	
17	0.00	0.00	0.00	222.15	337.96	743.37	2042.54	1684.68	0.00	0.00	0.00	0.00	5030.70	
18	0.00	0.00	0.00	217.84	349.15	795.05	1976.87	1684.68	0.00	0.00	0.00	0.00	5023.60	
19	0.00	0.00	0.00	243.32	334.20	833.80	1910.49	1644.19	0.00	0.00	0.00	0.00	4966.01	
20	0.00	0.00	0.00	283.99	326.64	884.35	1894.45	1588.65	0.00	0.00	0.00	0.00	4978.09	
21	0.00	0.00	0.00	282.01	326.64	904.85	1878.36	1527.02	0.00	0.00	0.00	0.00	4918.89	
22	0.00	0.00	0.00	319.03	326.64	945.41	1846.05	1456.71	0.00	0.00	0.00	0.00	4893.85	
23	0.00	0.00	0.00	326.64	322.84	1013.75	1837.95	1370.72	0.00	0.00	0.00	0.00	4871.91	
24	0.00	0.00	0.00	337.96	295.82	1075.49	1829.83	1305.67	0.00	0.00	0.00	0.00	4844.77	
25	0.00	0.00	0.00	305.56	283.99	1177.26	1813.56	1224.46	0.00	0.00	0.00	0.00	4804.84	
26	0.00	0.00	0.00	263.91	291.90	1259.47	1776.50	1159.40	0.00	0.00	0.00	0.00	4751.19	
27	0.00	0.00	0.00	269.99	278.02	1294.17	1734.79	1089.62	0.00	0.00	0.00	0.00	4666.58	
28	0.00	0.00	0.00	311.36	269.99	1351.04	1713.81	1030.77	0.00	0.00	0.00	0.00	4676.97	
29	0.00	0.00	0.00	326.64	251.62	1401.25	1692.74	970.81	0.00	0.00		0.00	4643.07	
30	0.00	0.00	0.00	332.32	272.00	1448.83	1668.53	884.35	0.00	0.00		0.00	4606.02	
31		0.00		336.08	309.43		1636.06		0.00	0.00		0.00	2281.57	
Total	0.00	0.00	0.00	9900.73	9656.06	23028.76	57607.93	41986.26	0.00	0.00	0.00	0.00	142179.73	Tonday
Mean	0.00	0.00	0.00	319.38	311.49	767.63	1858.32	1399.54	0.00	0.00	0.00	0.00	388.03	Ton/day
Max	0.00	0.00	0.00	486.27	373.01	1448.83	2169.30	1684.68	0.00	0.00	0.00	0.00	2169.30	Ton/day
Min	0.00	0.00	0.00	162.40	251.62	361.61	1534.77	884.35	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Na Hai **Amphoe** Trakan Phutphon **Changwat** Ubon Ratchathani

Drainge Area	424 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.8082
Remarks	Continued Sediment Station

$$QS = 1.4353\ QW^{0.87580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	2.46	2.92	9.64	2.92	2.05	1.15	0.78	0.05	21.97	
2	0.00	0.00	0.00	0.00	2.28	2.75	9.35	2.63	2.05	1.15	0.78	0.05	21.05	
3	0.00	0.00	0.00	0.00	2.11	2.81	7.29	2.23	1.99	1.15	0.78	0.05	18.40	
4	0.00	0.00	0.00	0.00	2.05	3.48	5.93	2.17	1.81	1.15	0.78	0.05	17.41	
5	0.00	0.00	0.00	0.19	1.93	2.92	8.63	2.05	1.75	1.15	0.78	0.05	19.44	
6	0.00	0.00	0.00	3.37	1.99	5.31	18.39	1.93	1.56	1.15	0.75	0.05	34.50	
7	0.00	0.00	0.00	5.77	1.99	10.78	22.58	2.05	1.75	1.15	0.71	0.05	46.83	
8	0.00	0.00	0.00	6.08	1.93	8.19	14.84	62.38	1.68	1.15	0.71	0.05	97.01	
9	0.00	0.00	0.00	4.73	1.87	7.44	11.35	51.87	1.62	1.15	0.69	0.05	80.76	
10	0.00	0.00	0.00	3.43	1.50	6.08	8.19	28.02	1.44	1.12	0.64	0.10	50.51	
11	0.00	0.00	0.00	2.52	1.56	16.27	6.84	16.27	1.99	1.12	0.60	0.19	47.37	
12	0.00	0.00	0.00	2.58	1.68	19.57	5.46	11.63	1.37	1.12	0.60	0.16	44.17	
13	0.00	0.00	0.00	2.98	2.63	23.42	4.30	8.92	1.37	1.12	0.57	0.16	45.47	
14	0.00	0.00	0.00	5.31	2.52	99.46	4.08	6.39	1.37	1.12	0.57	0.10	120.92	
15	0.00	0.00	0.00	5.46	2.28	73.62	3.70	3.65	1.33	1.12	0.50	0.00	91.66	
16	0.00	0.00	0.00	4.83	2.11	30.68	3.59	4.30	1.33	1.12	0.43	0.00	48.39	
17	0.00	0.00	0.00	3.37	1.87	15.56	3.48	3.37	1.31	1.08	0.43	0.00	30.46	
18	0.00	0.00	0.00	2.86	1.81	12.74	3.37	3.09	1.31	1.08	0.40	0.00	26.65	
19	0.00	0.00	0.00	2.63	1.81	9.06	3.31	2.86	1.31	1.08	0.40	0.00	22.46	
20	0.00	0.00	0.00	2.81	1.75	11.63	2.98	2.75	1.31	1.05	0.35	0.00	24.61	
21	0.00	0.00	0.00	3.03	1.62	12.74	2.86	2.86	1.31	1.05	0.30	0.16	25.94	
22	0.00	0.00	0.00	2.58	1.62	11.21	2.69	2.81	1.31	1.05	0.27	0.10	23.64	
23	0.00	0.00	0.00	5.15	1.62	14.48	1.62	2.98	1.28	1.05	0.22	0.10	28.51	
24	0.00	0.00	0.00	6.23	1.62	9.78	3.20	3.48	1.28	1.05	0.19	0.05	26.90	
25	0.00	0.00	0.00	3.98	1.93	13.29	3.20	3.65	1.24	1.02	0.16	0.05	28.52	
26	0.00	0.00	0.00	5.15	2.92	11.49	3.31	3.15	1.22	0.98	0.10	0.05	28.37	
27	0.00	0.00	0.00	5.15	3.37	9.78	3.20	2.69	1.22	0.89	0.10	0.00	26.41	
28	0.00	0.00	0.00	5.93	4.41	7.74	3.09	2.46	1.22	0.85	0.05	0.00	25.74	
29	0.00	0.00	0.00	4.51	3.48	7.14	2.86	2.17	1.18	0.81		0.00	22.16	
30	0.00	0.00	0.00	3.59	3.20	7.44	2.86	1.33	1.18	0.78		0.00	20.40	
31		0.00		3.43	3.09		2.75		1.15	0.78		0.00	11.20	
Total	0.00	0.00	0.00	107.64	68.99	469.81	188.97	249.03	45.29	32.80	13.67	1.64	1177.84	Tonday
Mean	0.00	0.00	0.00	3.47	2.23	15.66	6.10	8.30	1.46	1.06	0.49	0.05	3.23	Ton/day
Max	0.00	0.00	0.00	6.23	4.41	99.46	22.58	62.38	2.05	1.15	0.78	0.19	99.46	Ton/day
Min	0.00	0.00	0.00	0.00	1.50	2.75	1.62	1.33	1.15	0.78	0.05	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)

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

Location : on right bank at Ban Wang Takian Thong.

Ban Wang Takian Thong **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	335 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2016
Number of observation	27
R-Square	0.7199
Remarks	Continued Sediment Station

$$QS = 43.4450\ QW^{0.88290}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	2.53	22.73	46.50	169.71	258.87	25.63	8.62	1.37	0.00	535.95	
2	0.00	0.00	0.00	1.97	16.76	21.89	258.87	186.88	23.56	8.62	0.74	0.00	519.28	
3	0.00	0.00	0.00	1.37	20.20	16.76	294.88	131.31	21.89	8.62	1.97	0.00	496.98	
4	0.00	0.00	0.00	0.74	15.89	15.01	208.84	95.49	21.04	8.62	1.97	0.00	367.60	
5	0.00	0.00	4.15	0.74	10.49	12.32	114.60	75.86	21.04	7.66	1.97	0.00	248.84	
6	0.00	0.00	8.62	5.69	9.56	10.49	101.00	64.34	20.20	8.62	1.97	0.00	230.47	
7	0.00	0.00	3.62	5.18	15.01	15.89	67.24	52.53	19.35	8.62	1.37	0.00	188.81	
8	0.00	0.00	1.97	15.01	12.32	13.23	355.68	195.71	19.35	7.66	0.00	0.00	620.91	
9	0.00	0.00	1.37	9.56	10.49	14.12	186.88	191.30	18.49	7.66	0.00	0.00	439.88	
10	0.00	0.00	0.00	12.32	8.62	15.01	101.00	204.48	17.63	7.66	0.00	0.00	366.71	
11	0.00	0.00	0.00	7.66	6.68	13.23	70.13	111.22	16.76	8.62	0.00	0.00	234.29	
12	0.00	0.00	0.00	5.69	8.62	15.89	55.51	81.53	15.89	8.62	0.00	2.53	194.27	
13	0.00	0.00	0.00	5.18	9.56	258.87	43.45	61.41	14.12	7.66	0.00	0.74	400.99	
14	0.00	0.00	0.00	4.67	6.68	95.49	35.68	52.53	13.23	7.66	0.00	0.00	215.94	
15	0.00	0.00	0.00	4.15	6.68	64.34	31.71	41.52	14.12	8.62	0.00	0.00	171.14	
16	0.00	0.00	0.00	75.86	6.68	31.71	29.70	37.64	14.12	7.66	0.00	0.00	203.36	
17	0.00	0.00	0.00	37.64	6.68	41.52	31.71	35.68	14.12	7.66	0.00	4.15	179.16	
18	0.00	0.00	0.00	21.89	6.68	142.51	101.00	31.71	13.23	6.68	0.00	3.09	326.78	
19	0.00	0.00	0.00	27.67	5.69	101.00	55.51	29.70	13.23	5.69	0.00	1.97	240.46	
20	0.00	11.41	0.00	39.59	5.69	64.34	35.68	25.63	13.23	5.18	0.00	7.66	208.39	
21	0.00	10.49	3.62	16.76	5.18	178.00	114.60	35.68	12.32	4.67	0.00	5.69	387.03	
22	0.00	3.62	4.15	11.41	4.15	482.95	521.21	29.70	11.41	4.67	0.00	4.15	1077.44	
23	0.00	0.00	35.68	10.49	3.62	182.45	158.13	23.56	11.41	4.15	0.00	3.09	432.58	
24	0.00	0.00	15.01	138.57	3.09	245.20	318.85	195.71	11.41	4.15	0.00	1.37	933.35	
25	0.00	0.00	16.76	70.13	11.41	178.00	150.35	124.66	10.49	4.15	0.00	20.20	586.15	
26	0.00	0.00	7.66	25.63	19.35	142.51	276.95	78.70	10.49	4.15	0.00	7.66	573.09	
27	0.00	0.00	5.18	19.35	21.04	114.60	162.00	55.51	10.49	4.15	0.00	61.41	453.75	
28	0.00	0.00	4.15	22.73	22.73	142.51	92.72	41.52	9.56	3.09	0.00	52.53	391.53	
29	0.00	0.00	3.62	21.89	20.20	178.00	231.42	33.70	9.56	3.09		19.35	520.83	
30	0.00	0.00	3.09	21.04	41.52	254.32	592.33	29.70	8.62	2.53		15.01	968.16	
31		0.00		19.35	111.22		418.25		8.62	1.97		15.89	575.29	
Total	0.00	25.53	118.65	662.46	475.22	3108.65	5385.58	2613.77	464.58	197.12	11.35	226.48	13289.39	Tonday
Mean	0.00	0.82	3.96	21.37	15.33	103.62	173.73	87.13	14.99	6.36	0.41	7.31	36.25	Ton/day
Max	0.00	11.41	35.68	138.57	111.22	482.95	592.33	258.87	25.63	8.62	1.97	61.41	592.33	Ton/day
Min	0.00	0.00	0.00	0.74	3.09	10.49	29.70	23.56	8.62	1.97	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at Ban Lum Din.

Ban Lum Din **Amphoe** Chom Phra **Changwat** Surin

Drainge Area	4,806 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.8037
Remarks	Continued Sediment Station

$$QS = 4.7221\ QW^{0.88970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	61.79	95.76	449.62	183.04	89.81	3.00	0.00	0.00	883.01	
2	0.00	0.00	0.00	0.00	64.54	100.81	475.79	177.42	82.77	16.39	0.00	0.00	917.72	
3	0.00	0.00	0.00	0.00	66.36	111.09	493.54	170.98	66.66	19.06	0.00	0.00	927.68	
4	0.00	0.00	0.00	0.00	65.45	129.09	499.44	170.17	52.54	14.76	0.00	0.00	931.45	
5	0.00	0.00	0.00	0.00	52.54	131.32	487.63	166.12	39.71	11.43	0.00	0.00	888.75	
6	0.00	0.00	0.00	0.00	22.21	133.55	480.53	157.99	32.86	7.57	0.00	0.00	834.71	
7	0.00	0.00	0.00	0.00	28.36	195.27	486.45	150.63	29.87	8.75	0.00	0.00	899.32	
8	0.00	0.00	0.00	53.48	47.84	142.39	487.63	149.94	17.47	20.65	0.00	0.00	919.40	
9	0.00	0.00	0.00	63.62	48.78	127.98	484.08	148.57	12.55	18.53	0.00	0.00	904.13	
10	0.00	0.00	0.00	69.07	56.27	134.66	484.08	145.83	8.75	15.31	0.00	0.00	913.96	
11	0.00	0.00	0.00	71.78	59.04	137.98	487.63	143.77	6.77	13.66	0.00	0.00	920.63	
12	0.00	0.00	0.00	84.24	61.79	143.49	499.44	138.26	0.00	8.75	0.00	0.00	935.97	
13	0.00	0.00	0.00	91.70	63.62	166.39	511.32	136.32	0.00	3.44	0.00	0.00	972.79	
14	0.00	0.00	0.00	88.64	66.36	207.93	526.81	131.32	0.00	3.00	0.00	0.00	1024.05	
15	0.00	0.00	0.00	83.36	64.54	215.27	558.89	128.54	0.00	3.44	0.00	0.00	1054.03	
16	0.00	0.00	0.00	80.71	59.96	214.23	572.93	126.86	15.31	3.44	0.00	0.00	1073.43	
17	0.00	0.00	0.00	75.37	43.08	205.83	592.01	124.06	30.37	3.87	0.00	0.00	1074.59	
18	0.00	0.00	0.00	69.07	41.16	196.33	595.82	122.94	22.21	6.77	0.00	0.00	1054.31	
19	0.00	0.00	0.00	68.17	41.16	203.72	578.02	122.94	15.31	13.66	0.00	0.00	1042.98	
20	0.00	0.00	0.00	66.36	38.25	207.93	540.95	122.38	9.52	13.11	0.00	0.00	998.51	
21	0.00	0.00	0.00	57.19	43.08	206.88	508.85	123.50	0.00	10.29	0.00	0.00	949.80	
22	0.00	0.00	0.00	40.19	61.79	232.98	494.72	123.50	21.17	10.67	0.00	0.00	985.03	
23	0.00	0.00	0.00	42.12	70.88	281.61	474.61	122.94	18.00	6.37	0.00	0.00	1016.53	
24	0.00	0.00	0.00	43.08	76.26	301.77	251.03	127.98	20.65	15.85	0.00	0.00	836.62	
25	0.00	0.00	0.00	67.26	66.36	316.78	231.16	127.98	12.55	21.69	0.00	0.00	843.79	
26	0.00	0.00	0.00	62.71	68.17	341.60	217.10	126.86	12.18	18.00	0.00	0.00	846.63	
27	0.00	0.00	0.00	75.37	71.78	361.30	206.09	120.70	7.17	15.85	0.00	0.00	858.26	
28	0.00	0.00	0.00	76.26	72.68	374.77	198.97	115.62	0.61	12.55	0.00	0.00	851.46	
29	0.00	0.00	0.00	73.57	76.26	394.25	195.80	107.68	0.00	9.91		0.00	857.46	
30	0.00	0.00	0.00	60.88	81.59	411.20	198.97	101.38	0.00	6.77		0.00	860.79	
31		0.00		60.88	83.36		194.21		1.13	3.87		0.00	343.45	
Total	0.00	0.00	0.00	1625.08	1825.30	6424.17	13464.13	4116.24	625.92	340.40	0.00	0.00	28421.24	Tonday
Mean	0.00	0.00	0.00	52.42	58.88	214.14	434.33	137.21	20.19	10.98	0.00	0.00	77.35	Ton/day
Max	0.00	0.00	0.00	91.70	83.36	411.20	595.82	183.04	89.81	21.69	0.00	0.00	595.82	Ton/day
Min	0.00	0.00	0.00	0.00	22.21	95.76	194.21	101.38	0.00	3.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right bank at the bridge.

Ban Kham Samran **Amphoe** Det Udom **Changwat** Ubon Ratchathani

Drainge Area	1,745 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	31
R-Square	0.7264
Remarks	Continued Sediment Station

$$QS = 1.7945\ QW^{1.32450}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.11	0.91	0.21	1005.49	182.32	367.53	1624.45	315.44	42.21	5.41	1.79	1.42	3547.29	
2	0.11	0.91	0.33	706.33	156.97	263.52	1744.58	275.69	39.14	4.49	1.79	1.38	3195.25	
3	0.11	0.91	0.36	380.90	119.13	208.57	1917.13	257.48	38.39	4.49	1.75	1.38	2930.60	
4	0.11	0.91	0.53	253.48	134.30	176.81	2042.78	208.57	35.39	4.35	1.75	1.38	2860.36	
5	0.11	0.91	0.53	206.66	171.35	162.33	2062.80	176.81	34.66	4.20	1.75	1.38	2823.48	
6	0.11	0.72	0.57	195.34	174.99	162.33	1878.52	162.33	33.92	4.20	1.70	1.34	2616.04	
7	0.11	0.72	0.72	186.02	176.81	237.61	1618.78	174.99	31.74	3.91	1.70	1.34	2434.44	
8	0.11	0.72	0.53	206.66	162.33	346.50	1374.33	227.83	31.74	3.77	1.70	1.34	2357.55	
9	0.11	0.72	0.36	208.57	130.89	354.37	1369.37	257.48	31.02	3.77	1.70	1.29	2359.65	
10	0.11	1.12	0.33	180.48	110.89	397.06	1345.01	290.14	30.31	3.62	1.70	1.29	2362.07	
11	0.11	1.12	0.30	184.17	99.62	310.39	1379.77	429.76	28.89	3.48	1.65	1.29	2440.56	
12	0.11	1.12	0.21	263.52	91.12	290.14	1407.08	402.42	21.41	3.34	1.61	1.29	2483.37	
13	0.11	0.91	0.24	549.14	110.89	457.54	1429.02	259.49	21.41	3.07	1.61	1.25	2834.68	
14	0.09	0.36	0.21	700.07	106.02	563.87	1418.04	189.73	21.41	2.80	1.61	1.25	3005.47	
15	0.09	0.36	0.21	534.60	87.41	807.15	1320.65	153.43	21.41	2.80	1.56	1.25	2930.92	
16	0.06	0.36	0.21	341.24	75.31	837.01	1064.95	134.30	21.41	2.80	1.56	1.20	2480.44	
17	0.06	0.36	0.21	202.87	81.31	669.18	675.37	98.03	18.20	2.67	1.51	1.20	1750.99	
18	0.06	0.36	0.21	199.10	96.45	584.58	528.75	86.18	18.20	2.67	1.51	1.20	1519.29	
19	0.06	0.33	0.21	142.92	92.37	599.43	427.04	75.31	17.58	2.54	1.51	1.20	1360.52	
20	0.06	0.21	0.21	127.50	80.10	706.33	346.50	59.15	18.20	2.54	1.47	1.20	1343.49	
21	0.06	0.21	0.21	132.59	68.27	901.33	295.19	70.60	16.96	2.41	1.47	1.20	1490.52	
22	0.06	3.34	0.21	164.12	59.15	1101.92	251.48	80.10	13.35	2.41	1.47	1.25	1678.87	
23	0.06	4.05	0.21	200.98	74.13	1229.10	218.15	86.18	12.77	2.28	1.47	1.34	1830.73	
24	0.06	3.77	0.57	218.15	206.66	1296.39	243.53	63.67	9.43	2.28	1.47	1.34	2047.32	
25	0.06	1.12	0.79	249.49	333.44	1354.77	569.71	82.52	7.86	2.28	1.47	1.34	2604.85	
26	0.06	0.72	37.63	189.73	528.75	1385.22	706.33	80.10	7.86	2.28	1.42	1.34	2941.46	
27	0.06	0.64	47.70	158.75	581.63	1539.94	647.77	68.27	6.85	2.16	1.42	1.34	3056.54	
28	0.06	0.36	214.30	151.67	432.50	1484.23	505.72	58.32	5.88	2.16	1.42	1.29	2857.90	
29	0.68	0.72	693.93	255.48	328.32	1429.02	454.77	54.99	5.88	2.04		1.29	3227.11	
30	0.95	0.64	960.26	204.77	346.50	1423.53	451.92	53.35	5.41	1.91		1.29	3450.52	
31		0.21		184.17	421.51		375.52		5.41	1.91		1.29	990.02	
Total	4.03	29.85	1962.55	8884.94	5821.45	21647.69	31695.00	4932.67	654.31	95.08	44.56	40.17	75812.30	Tonday
Mean	0.13	0.96	65.42	286.61	187.79	721.59	1022.42	164.42	21.11	3.07	1.59	1.30	206.37	Ton/day
Max	0.95	4.05	960.26	1005.49	581.63	1539.94	2062.80	429.76	42.21	5.41	1.79	1.42	2062.80	Ton/day
Min	0.06	0.21	0.21	127.50	59.15	162.33	218.15	53.35	5.41	1.91	1.42	1.20	0.06	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

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

Ban Non Sao - E **Amphoe** Wang Nam Khieo **Changwat** Nakhon Ratchasima

Drainge Area	553 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.7099
Remarks	Continued Sediment Station

$$QS = 37.0910\ QW^{1.07140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.85	5.91	9.48	13.90	37.09	73.78	280.11	665.41	29.20	16.52	11.68	7.32	1160.24	
2	9.48	5.91	9.48	13.52	30.77	29.99	796.27	367.32	29.20	16.14	11.68	7.32	1327.09	
3	9.12	5.21	9.48	13.15	25.31	23.76	622.15	252.92	29.20	16.14	11.68	7.32	1025.45	
4	9.12	4.86	9.85	12.04	27.64	21.07	451.26	185.83	28.42	16.14	11.68	7.32	785.24	
5	9.12	4.86	15.39	12.04	20.69	20.31	252.92	155.04	27.64	16.14	11.68	7.32	553.16	
6	8.76	4.17	29.99	14.64	103.25	17.65	243.90	120.35	27.64	16.14	11.68	7.32	605.49	
7	8.40	4.17	18.03	15.02	29.20	25.31	172.59	103.25	26.09	16.14	11.68	6.97	436.83	
8	8.40	10.58	15.02	16.52	21.07	19.55	1124.41	199.14	25.31	16.14	10.94	6.97	1474.04	
9	8.04	12.41	13.52	18.41	18.79	18.79	479.48	243.90	23.76	16.14	9.48	6.97	869.69	
10	8.04	13.52	12.78	16.89	17.65	20.31	234.90	409.15	22.22	16.14	9.12	8.40	789.13	
11	8.04	10.94	12.04	17.65	16.89	19.93	155.04	203.58	21.46	15.77	9.12	9.48	499.95	
12	8.04	12.04	12.04	16.52	16.52	30.77	116.06	155.04	21.07	15.77	8.76	9.48	422.12	
13	8.04	12.78	11.31	15.77	15.77	437.19	94.76	99.00	20.69	15.77	8.40	9.48	748.95	
14	7.68	12.78	9.48	13.90	15.77	271.03	77.95	90.54	19.93	15.77	8.40	9.48	552.69	
15	7.32	12.41	9.48	13.90	15.77	141.97	69.63	86.33	19.55	15.77	8.40	9.48	410.00	
16	6.61	11.68	9.48	16.14	15.02	133.29	49.13	53.19	19.55	15.77	8.40	11.31	349.56	
17	6.26	10.94	9.48	146.32	13.90	124.66	107.51	35.50	19.55	15.77	8.40	12.04	510.32	
18	5.91	9.85	9.48	73.78	13.52	243.90	155.04	35.50	19.55	15.77	8.40	12.04	602.74	
19	5.91	9.85	9.48	159.42	13.15	252.92	111.78	35.50	19.55	15.77	7.68	9.85	650.85	
20	5.91	12.41	11.31	177.00	13.15	159.42	137.62	33.13	19.55	15.77	7.68	9.85	602.79	
21	9.12	18.79	13.90	27.64	13.15	1566.00	325.82	33.13	19.17	15.77	7.68	13.90	2064.06	
22	9.12	17.27	15.02	21.07	12.41	1069.63	1530.33	36.30	19.17	15.02	7.68	22.22	2775.25	
23	8.76	13.90	19.93	20.31	12.04	493.63	579.09	33.13	19.17	13.90	7.68	17.27	1238.81	
24	8.40	13.15	34.71	116.06	12.04	507.81	437.19	234.90	18.79	13.90	7.68	15.02	1419.64	
25	8.04	12.04	20.31	225.92	73.78	409.15	437.19	185.83	19.17	13.52	7.68	23.76	1436.40	
26	7.68	11.31	18.79	37.09	24.54	522.01	665.41	155.04	17.65	13.15	7.32	57.27	1537.27	
27	7.32	9.85	16.89	33.92	36.30	423.15	381.23	86.33	17.65	12.04	7.32	65.49	1097.50	
28	6.61	9.48	15.02	28.42	57.27	423.15	243.90	65.49	17.65	12.04	7.32	107.51	993.87	
29	6.26	9.48	13.90	36.30	25.31	423.15	423.15	36.30	16.89	12.04		32.34	1035.13	
30	5.91	8.76	13.90	41.08	61.37	507.81	1494.72	33.13	16.89	12.04		29.20	2224.81	
31		9.48		103.25	120.35		1124.41		16.52	12.04		168.19	1554.25	
Total	235.27	320.80	428.99	1487.58	929.50	8431.07	13374.91	4429.19	667.86	464.93	255.29	727.93	31753.31	Tonday
Mean	7.84	10.35	14.30	47.99	29.98	281.04	431.45	147.64	21.54	15.00	9.12	23.48	86.64	Ton/day
Max	9.85	18.79	34.71	225.92	120.35	1566.00	1530.33	665.41	29.20	16.52	11.68	168.19	1566.00	Ton/day
Min	5.91	4.17	9.48	12.04	12.04	17.65	49.13	33.13	16.52	12.04	7.32	6.97	4.17	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at Ban Non Si Khlai.

Ban Non Si Khlai **Amphoe** Kanthararom **Changwat** Si Sa Ket

Drainge Area	3,131 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	40
R-Square	0.7714
Remarks	Continued Sediment Station

$$QS = 6.1853\ QW^{0.97130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.22	4.01	7.98	795.72	84.73	489.23	1231.43	391.24	93.61	60.71	57.90	36.96	3256.75	
2	3.22	3.77	7.08	770.72	85.84	525.63	1293.04	349.99	93.06	60.15	57.90	36.39	3286.78	
3	3.22	3.58	6.19	657.94	76.93	476.56	1352.52	324.63	93.61	61.27	58.46	35.82	3150.73	
4	3.22	3.40	5.46	547.74	72.47	373.96	1401.68	299.21	93.06	61.27	57.90	35.82	2955.19	
5	3.03	3.22	4.98	463.87	95.28	305.91	1436.47	272.12	93.06	61.27	56.77	36.39	2832.37	
6	3.03	3.03	4.98	393.90	142.08	300.55	1440.56	253.84	91.40	61.83	54.52	34.68	2784.41	
7	2.85	2.85	4.98	345.99	165.03	399.21	1411.91	239.83	89.17	62.39	53.39	32.39	2810.01	
8	2.85	2.85	4.98	336.65	166.12	503.48	1360.71	235.52	81.95	63.51	52.27	30.68	2841.56	
9	3.58	2.66	4.98	332.64	154.12	612.36	1305.36	232.28	76.93	64.07	50.57	30.68	2870.24	
10	3.58	2.29	4.50	329.97	140.99	662.65	1256.09	225.80	87.51	64.63	46.62	30.10	2854.74	
11	4.01	1.92	3.77	325.97	133.04	736.32	1214.99	261.37	113.24	65.20	46.05	30.10	2935.97	
12	4.98	1.92	3.40	312.60	107.45	805.34	1149.15	400.54	127.27	66.32	46.05	30.10	3055.12	
13	5.70	2.11	3.40	303.23	94.72	863.55	990.49	368.64	138.80	67.44	46.62	30.68	2915.37	
14	6.49	2.29	3.58	348.65	86.40	1028.48	838.10	335.31	131.39	69.11	47.18	26.66	2923.65	
15	7.98	2.29	3.58	404.53	80.28	1120.30	748.83	305.91	122.33	69.11	47.18	26.08	2938.41	
16	9.47	1.92	5.70	369.97	73.03	1124.43	692.46	267.82	104.96	69.11	47.18	26.08	2792.14	
17	10.95	1.92	7.38	295.20	69.11	1086.28	653.23	220.40	86.95	69.11	46.62	31.25	2578.41	
18	12.72	1.92	6.79	238.75	64.63	997.73	637.52	185.71	75.26	69.11	44.92	30.68	2365.74	
19	16.23	1.92	6.49	204.16	62.95	856.28	620.23	177.01	69.67	69.11	43.78	29.53	2157.37	
20	16.81	1.92	8.28	170.48	60.71	776.97	593.47	163.94	65.76	69.11	42.65	23.78	1993.88	
21	15.06	1.92	7.98	136.60	59.58	781.66	533.53	144.27	62.39	68.00	41.51	22.62	1875.13	
22	12.72	2.11	10.06	111.58	51.70	856.28	470.22	128.10	60.71	66.32	40.95	20.30	1831.04	
23	10.95	2.48	10.65	105.79	62.39	907.13	371.30	120.67	59.02	64.07	39.81	17.98	1772.25	
24	9.47	3.22	11.54	104.13	85.84	961.52	409.83	142.08	59.02	63.51	39.81	19.72	1909.70	
25	8.28	3.22	13.30	108.27	128.92	1024.86	489.23	133.04	59.58	62.39	39.24	19.72	2090.07	
26	6.79	3.22	18.56	111.58	220.40	1079.06	582.44	123.98	59.58	61.27	38.67	19.72	2325.27	
27	5.70	3.03	21.46	111.58	277.76	1114.12	543.00	115.72	59.58	60.71	38.10	19.72	2370.51	
28	5.22	7.38	115.72	106.62	260.30	1122.37	495.57	111.58	61.83	60.15	38.10	19.72	2404.56	
29	4.50	10.06	263.52	106.62	225.80	1097.63	489.23	104.96	71.35	59.02		19.72	2452.41	
30	4.01	10.65	722.23	106.62	251.69	1151.21	486.07	99.15	63.51	59.02		36.39	2990.55	
31		8.58		89.73	369.97		443.23		60.71	58.46		36.39	1067.07	
Total	209.81	107.66	1303.51	9147.82	4010.25	24141.10	26941.90	6734.68	2606.29	1986.77	1320.71	876.90	79387.40	Tonday
Mean	6.99	3.47	43.45	295.09	129.36	804.70	869.09	224.49	84.07	64.09	47.17	28.29	216.69	Ton/day
Max	16.81	10.65	722.23	795.72	369.97	1151.21	1440.56	400.54	138.80	69.11	58.46	36.96	1440.56	Ton/day
Min	2.85	1.92	3.40	89.73	51.70	300.55	371.30	99.15	59.02	58.46	38.10	17.98	1.92	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani (M.179A)

Lat 15 - 30 - 12 N Long 104 - 35 - 41 E

Location : on right bank at the bridge.

Ban Pa Kor **Amphoe** Khueang Nai **Changwat** Ubon Ratchathani

Drainge Area	3,546 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2013-Cont'd
Actual Measurement	2013-Cont'd
Using Rating Curve Water Year	2016
Number of observation	32
R-Square	0.8681
Remarks	Continued Sediment Station

$$QS = 1.7019\ QW^{1.10980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	234.23	4.50	167.64	494.57	33.10	0.00	0.00	0.00	0.00	934.04	
2	0.00	0.00	0.00	120.63	7.93	166.01	490.60	45.98	0.00	0.00	0.00	0.00	831.16	
3	0.00	0.00	0.00	122.08	20.10	133.66	449.10	45.98	0.00	0.00	0.00	0.00	770.92	
4	0.00	0.00	0.00	124.96	34.37	122.08	396.30	48.35	0.00	0.00	0.00	0.00	726.05	
5	0.00	0.00	0.00	143.88	38.97	105.19	380.79	63.96	0.00	0.00	0.00	0.00	732.78	
6	0.00	0.00	0.00	175.84	49.53	88.71	378.85	82.45	0.00	0.00	0.00	0.00	775.38	
7	0.00	0.00	0.00	177.49	34.37	42.47	369.19	82.45	0.00	0.00	0.00	0.00	705.96	
8	0.00	0.00	0.00	123.52	33.10	40.13	359.56	67.62	0.00	0.00	0.00	0.00	623.92	
9	0.00	0.00	0.00	135.11	24.97	61.53	336.53	53.10	0.00	0.00	0.00	0.00	611.25	
10	0.00	0.00	0.00	135.11	50.72	88.71	304.19	60.32	0.00	0.00	0.00	0.00	639.05	
11	0.00	0.00	0.00	130.75	71.30	110.60	247.80	84.95	0.00	0.00	0.00	0.00	645.39	
12	0.00	0.00	0.00	139.49	31.20	151.22	227.48	101.36	0.00	0.00	0.00	0.00	650.75	
13	0.00	0.00	0.00	346.11	7.05	258.02	119.20	123.52	0.00	0.00	0.00	0.00	853.89	
14	0.00	0.00	0.00	445.17	15.92	512.48	70.07	127.85	0.00	0.00	0.00	0.00	1171.49	
15	0.00	0.00	0.00	449.10	15.92	530.45	33.10	122.08	0.00	0.00	0.00	0.00	1150.65	
16	0.00	0.00	0.00	406.03	17.70	526.45	26.21	91.23	0.00	0.00	0.00	0.00	1067.62	
17	0.00	0.00	0.00	382.72	21.91	540.46	20.70	15.92	0.00	0.00	0.00	0.00	981.72	
18	0.00	0.00	0.00	319.37	21.91	552.50	13.01	3.27	0.00	0.00	0.00	0.00	910.06	
19	0.00	0.00	0.00	244.40	21.91	582.70	3.67	2.67	0.00	0.00	0.00	0.00	855.35	
20	0.00	0.00	38.97	32.47	21.91	627.28	8.37	0.00	0.00	0.00	0.00	0.00	729.00	
21	0.00	0.00	47.16	26.83	25.59	680.36	17.11	0.00	0.00	0.00	0.00	0.00	797.06	
22	0.00	0.00	60.32	21.91	29.32	698.84	29.32	0.00	0.00	0.00	0.00	0.00	839.71	
23	0.00	0.00	71.30	24.97	54.30	672.17	36.66	0.00	0.00	0.00	0.00	0.00	859.40	
24	0.00	0.00	82.45	34.37	59.11	657.85	54.30	0.00	0.00	0.00	0.00	0.00	888.07	
25	0.00	0.00	84.95	38.97	67.62	637.45	70.07	0.00	0.00	0.00	0.00	0.00	899.06	
26	0.00	0.00	98.82	48.35	91.23	617.12	92.49	0.00	0.00	0.00	0.00	0.00	948.00	
27	0.00	0.00	129.30	62.74	57.90	594.82	84.95	0.00	0.00	0.00	0.00	0.00	929.72	
28	0.00	0.00	154.17	43.64	34.37	548.48	82.45	0.00	0.00	0.00	0.00	0.00	863.10	
29	0.00	0.00	252.90	33.73	40.13	516.47	70.07	0.00	0.00	0.00		0.00	913.31	
30	0.00	0.00	287.20	24.97	63.96	504.51	26.83	0.00	0.00	0.00		0.00	907.47	
31		0.00		6.19	103.91		19.50		0.00	0.00		0.00	129.60	
Total	0.00	0.00	1307.54	4755.14	1172.76	11536.34	5313.02	1256.15	0.00	0.00	0.00	0.00	25340.94	Tonday
Mean	0.00	0.00	43.58	153.39	37.83	384.54	171.39	41.87	0.00	0.00	0.00	0.00	69.38	Ton/day
Max	0.00	0.00	287.20	449.10	103.91	698.84	494.57	127.85	0.00	0.00	0.00	0.00	698.84	Ton/day
Min	0.00	0.00	0.00	6.19	4.50	40.13	3.67	0.00	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on highway.

Ban Khlong Hin Lap **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	- sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.9337
Remarks	Continued Sediment Station

$$QS = 19.3190\ QW^{1.47750}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.64	0.64	0.64	0.84	0.84	2.95	118.85	3.92	0.64	0.74	1.17	0.95	132.84	
2	0.64	0.64	0.64	0.74	0.84	1.29	60.28	1.79	0.64	0.74	1.17	0.95	70.37	
3	0.64	0.74	0.64	0.74	0.64	0.84	24.67	1.66	0.64	0.74	1.17	0.95	34.09	
4	0.64	0.64	0.64	0.74	0.64	0.84	43.79	1.41	0.64	0.74	1.17	0.95	52.86	
5	0.64	0.74	0.64	0.74	0.84	0.64	164.41	1.29	0.64	0.74	1.17	0.95	173.46	
6	0.64	0.74	0.64	0.84	0.95	0.64	91.26	0.64	0.64	0.95	1.17	0.95	100.07	
7	0.64	0.64	0.74	0.84	0.84	0.64	265.36	0.64	0.64	0.95	1.17	0.95	274.07	
8	0.64	5.94	0.74	0.74	0.84	0.64	122.46	0.64	0.64	0.95	1.17	0.95	136.37	
9	0.64	0.84	0.74	0.74	0.64	0.55	15.20	1.79	0.64	0.95	1.06	0.95	24.75	
10	0.64	0.64	0.74	0.84	0.84	0.46	4.27	1.53	0.64	0.95	1.17	0.95	13.69	
11	0.64	0.64	0.74	0.84	0.64	0.46	1.79	1.41	0.64	0.95	1.17	0.95	10.89	
12	0.64	0.64	0.74	0.84	0.64	0.46	1.66	1.29	0.64	1.06	1.17	0.95	10.75	
13	0.64	0.64	0.74	0.95	0.64	0.46	1.53	1.06	0.64	0.95	1.17	0.95	10.38	
14	0.64	0.64	0.74	0.84	0.64	0.64	1.53	0.64	0.64	0.95	1.41	0.95	10.28	
15	0.64	0.74	0.84	0.84	0.64	0.64	1.66	0.64	0.64	0.95	1.41	0.95	10.61	
16	0.64	0.64	0.84	0.84	0.64	0.46	4.63	0.64	0.64	0.95	1.41	0.95	13.29	
17	0.64	1.17	0.84	0.74	0.64	0.46	18.47	0.64	0.64	0.84	1.41	0.95	27.46	
18	0.64	0.74	0.84	0.84	0.64	0.55	4.63	0.64	0.64	0.84	1.41	0.95	13.37	
19	0.64	0.64	0.84	0.74	0.74	1.79	1.66	0.64	0.64	0.84	1.41	0.95	11.55	
20	0.64	0.64	0.84	0.74	0.74	12.63	1.53	0.64	0.64	0.84	1.41	0.95	22.26	
21	0.64	0.64	0.95	0.84	0.74	26.86	1.41	0.64	0.64	0.84	1.41	0.95	36.58	
22	0.64	0.55	0.74	0.74	0.74	1.79	1.06	0.64	0.64	0.84	1.41	0.84	10.65	
23	0.64	0.55	0.84	0.84	0.74	1.53	0.84	0.64	0.64	0.84	1.41	0.84	10.38	
24	0.64	0.55	0.84	302.08	0.74	168.42	0.74	0.64	0.64	0.84	1.41	0.84	478.40	
25	0.64	0.55	0.84	104.76	0.84	314.65	0.64	0.64	0.64	0.95	1.41	0.84	427.42	
26	0.64	0.55	0.64	3.92	0.84	38.69	0.64	0.64	0.64	1.06	1.29	0.74	50.31	
27	0.64	0.55	0.74	1.29	0.84	33.79	0.64	0.64	0.64	1.17	0.95	3.92	45.83	
28	0.64	0.55	0.74	210.16	0.64	66.14	0.64	0.64	0.74	1.17	0.95	0.74	283.76	
29	0.64	0.55	0.84	3.59	0.84	227.67	0.64	0.64	0.64	1.17		0.74	237.98	
30	0.64	0.84	0.84	1.53	0.64	36.21	0.95	0.64	0.74	1.17		0.95	45.17	
31		0.64		1.79	3.92		2.06		0.74	1.06		0.74	10.96	
Total	19.30	25.91	22.87	647.59	26.10	943.84	959.92	30.02	20.24	28.73	35.21	31.11	2790.84	Tonday
Mean	0.64	0.84	0.76	20.89	0.84	31.46	30.97	1.00	0.65	0.93	1.26	1.00	7.60	Ton/day
Max	0.64	5.94	0.95	302.08	3.92	314.65	265.36	3.92	0.74	1.17	1.41	3.92	314.65	Ton/day
Min	0.64	0.55	0.64	0.74	0.64	0.46	0.64	0.64	0.64	0.74	0.95	0.74	0.46	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right at the bridge on highway.

Ban Cum **Amphoe** Phimai **Changwat** Nakhon Ratchasima

Drainge Area	11,489 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.7093
Remarks	Continued Sediment Station

$$QS = 0.9323\ QW^{1.36440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	15.91	49.94	69.22	252.09	135.27	65.23	17.28	0.00	0.00	604.96	
2	0.00	0.00	0.00	11.99	63.26	57.45	293.82	141.08	61.31	14.57	0.00	0.00	643.48	
3	0.00	0.00	0.00	13.26	81.55	46.30	326.21	146.94	49.94	13.26	0.00	0.00	677.47	
4	0.00	0.00	0.00	20.12	79.46	35.82	363.23	149.90	42.73	13.26	0.00	0.00	704.51	
5	0.00	0.00	0.00	17.28	71.24	27.67	393.59	155.86	37.52	11.99	0.00	0.00	715.14	
6	0.00	0.00	0.00	10.75	67.22	21.58	398.71	155.86	34.15	11.99	0.00	0.00	700.24	
7	0.00	0.00	0.00	14.57	65.23	15.91	404.50	155.86	23.06	10.75	0.00	0.00	689.88	
8	0.00	0.00	0.00	26.11	59.37	11.99	412.89	155.86	15.91	9.54	0.00	0.00	691.67	
9	0.00	0.00	0.00	39.23	51.79	10.75	421.33	155.86	13.26	9.54	0.00	0.00	701.77	
10	0.00	0.00	0.00	53.66	42.73	17.28	431.13	161.88	11.99	8.38	0.00	0.00	727.04	
11	0.00	0.00	0.00	55.55	37.52	23.06	439.01	155.86	8.38	7.70	0.00	0.00	727.07	
12	0.00	0.00	0.00	53.66	29.25	21.58	444.94	146.94	7.70	7.04	0.00	0.00	711.11	
13	0.00	0.00	0.00	42.73	18.69	40.97	448.91	138.17	7.04	6.39	0.00	0.00	702.89	
14	0.00	0.00	0.00	23.06	10.75	59.37	454.88	132.40	7.70	5.15	0.00	0.00	693.31	
15	0.00	0.00	0.00	17.28	6.39	51.79	456.87	121.06	7.70	3.99	0.00	0.00	665.10	
16	0.00	0.00	0.00	26.11	3.99	44.50	454.88	115.50	5.76	3.43	0.00	0.00	654.17	
17	0.00	0.00	0.00	26.11	2.40	35.82	448.91	110.01	5.15	2.40	0.00	0.00	630.80	
18	0.00	0.00	0.00	26.11	1.48	26.11	448.91	94.40	3.99	1.77	0.00	0.00	602.76	
19	0.00	0.00	0.00	24.57	0.00	23.06	444.94	85.78	2.40	1.20	0.00	0.00	581.95	
20	0.00	0.00	0.00	30.86	0.00	17.28	433.09	79.46	1.77	0.69	0.00	0.00	563.16	
21	0.00	0.00	0.00	40.97	0.00	29.25	427.20	71.24	1.77	0.46	0.00	0.00	570.90	
22	0.00	0.00	0.00	55.55	0.00	61.31	410.30	63.26	2.08	0.00	0.00	0.00	592.51	
23	0.00	0.00	0.00	57.45	0.00	87.91	398.07	57.45	2.40	0.00	0.00	0.00	603.29	
24	0.00	0.00	0.00	59.37	0.00	94.40	352.01	53.66	2.90	0.00	0.00	0.00	562.35	
25	0.00	0.00	0.00	59.37	0.00	110.01	238.57	49.94	2.40	0.00	0.00	0.00	460.29	
26	0.00	0.00	0.00	57.45	0.00	132.40	180.30	44.50	3.99	0.00	0.00	0.00	418.64	
27	0.00	0.00	0.00	51.79	0.00	174.10	152.87	40.97	37.52	0.00	0.00	0.00	457.25	
28	0.00	0.00	0.00	46.30	0.00	186.55	155.86	51.79	63.26	0.00	0.00	0.00	503.76	
29	0.00	0.00	0.00	40.97	0.93	196.04	152.87	57.45	53.66	0.00		0.00	501.93	
30	0.00	0.00	9.54	35.82	7.70	218.67	149.90	65.23	37.52	0.00		0.00	524.38	
31		0.00		42.73	59.37		144.00		24.57	0.00		0.00	270.67	
Total	0.00	0.00	9.54	1096.70	810.27	1948.16	10934.79	3249.43	644.76	160.79	0.00	0.00	18854.43	Tonday
Mean	0.00	0.00	0.32	35.38	26.14	64.94	352.74	108.31	20.80	5.19	0.00	0.00	51.15	Ton/day
Max	0.00	0.00	9.54	59.37	81.55	218.67	456.87	161.88	65.23	17.28	0.00	0.00	456.87	Ton/day
Min	0.00	0.00	0.00	10.75	0.00	10.75	144.00	40.97	1.77	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)

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

Location : on right at the bridge on highway.

Ban Phai Noi **Amphoe** Lam Plai Mat **Changwat** Nakhon Ratchasima

Drainge Area	4,880 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2010-2016
Number of observation	133
R-Square	0.7006
Remarks	Continued Sediment Station

$$QS = 2.7709\ QW^{0.99180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	2.11	62.11	27.19	52.03	13.67	4.28	0.00	0.00	0.00	161.40	
2	0.00	0.00	0.00	2.41	47.63	25.98	49.78	13.67	3.18	0.00	0.00	0.00	142.66	
3	0.00	0.00	0.00	2.41	47.63	25.17	49.78	13.81	2.33	0.00	0.00	0.00	141.14	
4	0.00	0.00	0.00	2.41	58.09	23.55	48.47	14.49	2.11	0.00	0.00	0.00	149.12	
5	0.00	0.00	0.00	2.47	63.72	17.87	47.71	15.03	2.11	0.00	0.00	0.00	148.91	
6	0.00	0.00	0.00	2.58	76.56	15.03	47.34	15.03	2.11	0.00	0.00	0.00	158.65	
7	0.00	0.00	0.00	2.72	83.78	10.96	48.28	15.03	2.11	0.00	0.00	0.00	162.87	
8	0.00	0.00	0.00	3.48	87.79	10.96	50.16	15.03	1.81	0.00	0.00	0.00	169.22	
9	0.00	0.00	0.00	3.87	99.80	9.60	52.79	15.03	1.81	0.00	0.00	0.00	182.89	
10	0.00	0.00	0.00	4.20	113.66	6.88	53.54	15.03	1.81	0.00	0.00	0.00	195.11	
11	0.00	0.00	0.00	5.26	111.53	4.28	53.54	14.62	1.81	0.00	0.00	0.00	191.04	
12	0.00	0.00	0.00	5.51	95.53	6.49	53.54	13.67	0.95	0.00	0.00	0.00	175.69	
13	0.00	0.00	0.00	5.76	86.18	8.78	53.54	13.67	0.62	0.00	0.00	0.00	168.55	
14	0.00	0.00	0.00	28.70	70.14	11.88	52.41	13.43	0.62	0.00	0.00	0.00	177.18	
15	0.00	0.00	0.00	34.73	54.88	12.45	51.66	12.61	0.00	0.00	0.00	0.00	166.34	
16	0.00	0.00	0.00	236.37	46.83	10.66	51.28	11.64	0.00	0.00	0.00	0.00	356.78	
17	0.00	0.00	0.00	236.37	37.96	11.80	49.03	9.60	0.00	0.00	0.00	0.00	344.77	
18	0.00	0.00	0.00	86.99	25.17	13.10	47.71	6.33	0.00	0.00	0.00	0.00	179.30	
19	0.00	0.00	0.00	79.77	26.38	20.20	46.78	6.33	0.00	0.00	0.00	0.00	179.46	
20	0.00	0.00	0.00	71.75	22.74	26.44	46.02	6.33	0.00	0.00	0.00	0.00	173.28	
21	0.00	0.00	0.00	66.13	17.87	36.43	45.08	5.84	0.00	0.00	0.00	0.00	171.35	
22	0.00	0.00	0.00	64.52	10.96	47.90	41.32	4.69	0.00	0.00	0.00	0.00	169.40	
23	0.00	0.00	0.00	56.49	5.10	54.48	37.56	4.28	0.00	0.00	0.00	0.00	157.90	
24	0.00	0.00	0.00	69.34	4.83	0.00	32.85	3.24	0.00	0.00	0.00	0.00	110.26	
25	0.00	0.00	0.00	75.76	25.17	0.00	27.00	3.02	0.00	0.00	0.00	0.00	130.95	
26	0.00	0.00	0.00	76.56	66.13	0.00	20.95	2.94	0.00	0.00	0.00	0.00	166.58	
27	0.00	0.00	0.00	67.74	100.87	56.73	19.14	2.72	0.00	0.00	0.00	0.00	247.19	
28	0.00	0.00	0.00	51.66	163.82	55.60	17.36	2.72	0.00	0.00	0.00	0.00	291.16	
29	0.00	0.00	0.00	50.05	266.56	54.29	16.25	2.72	0.00	0.00		0.00	389.86	
30	0.00	0.00	0.00	50.05	232.00	53.35	15.57	2.55	0.00	0.00		0.00	353.52	
31		0.00		62.92	24.36		15.03		0.00	0.00		0.00	102.30	
Total	0.00	0.00	0.00	1511.10	2235.79	658.03	1293.50	288.75	27.65	0.00	0.00	0.00	6014.83	Tonday
Mean	0.00	0.00	0.00	48.75	72.12	21.93	41.73	9.62	0.89	0.00	0.00	0.00	16.25	Ton/day
Max	0.00	0.00	0.00	236.37	266.56	56.73	53.54	15.03	4.28	0.00	0.00	0.00	266.56	Ton/day
Min	0.00	0.00	0.00	2.11	4.83	0.00	15.03	2.55	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on right at the bridge on highway.

Ban Khwaw **Amphoe** Uthumphon Phisai **Changwat** Si Sa Ket

Drainge Area	2,339 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7780
Remarks	Continued Sediment Station

$$QS = 8.2381\ QW^{0.84680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

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	10.29	532.77	249.00	0.00	0.00	0.00	0.00	792.06	
2	0.00	0.00	0.00	0.00	0.00	47.93	542.60	252.76	0.00	0.00	0.00	0.00	843.28	
3	0.00	0.00	0.00	0.00	0.00	47.93	540.96	241.44	0.00	0.00	0.00	0.00	830.33	
4	0.00	0.00	0.00	0.00	0.00	45.89	527.85	233.85	0.00	0.00	0.00	0.00	807.59	
5	0.00	0.00	0.00	0.00	0.00	41.76	513.02	226.21	0.00	0.00	0.00	0.00	780.99	
6	0.00	0.00	0.00	0.00	0.00	63.72	509.71	214.66	0.00	0.00	0.00	0.00	788.10	
7	0.00	0.00	0.00	0.00	0.00	88.02	517.97	206.90	0.00	0.00	0.00	0.00	812.89	
8	0.00	0.00	0.00	0.00	0.00	136.77	534.41	206.90	0.00	0.00	0.00	0.00	878.09	
9	0.00	0.00	0.00	0.00	0.00	171.28	554.02	199.09	0.00	0.00	0.00	0.00	924.39	
10	0.00	0.00	0.00	0.00	0.00	171.28	565.41	191.22	0.00	0.00	0.00	0.00	927.90	
11	0.00	0.00	0.00	0.00	0.00	171.28	570.27	175.30	0.00	0.00	0.00	0.00	916.85	
12	0.00	0.00	0.00	0.00	0.00	171.28	571.89	163.19	0.00	0.00	0.00	0.00	906.36	
13	0.00	0.00	0.00	0.00	0.00	203.00	565.41	155.02	0.00	0.00	0.00	0.00	923.43	
14	0.00	0.00	0.00	0.00	0.00	260.25	554.02	146.78	0.00	0.00	0.00	0.00	961.05	
15	0.00	0.00	0.00	0.00	0.00	278.80	537.69	133.40	0.00	0.00	0.00	0.00	949.90	
16	0.00	0.00	0.00	0.00	0.00	260.25	519.62	119.79	0.00	0.00	0.00	0.00	899.65	
17	0.00	0.00	0.00	0.00	0.00	249.00	506.40	105.88	0.00	0.00	0.00	0.00	861.28	
18	0.00	0.00	0.00	0.00	0.00	245.23	491.46	88.02	0.00	0.00	0.00	0.00	824.70	
19	0.00	0.00	0.00	0.00	0.00	241.44	454.58	73.24	0.00	0.00	0.00	0.00	769.27	
20	0.00	0.00	0.00	0.00	0.00	245.23	408.57	73.24	0.00	0.00	0.00	0.00	727.03	
21	0.00	0.00	0.00	0.00	0.00	308.05	352.77	71.35	0.00	0.00	0.00	0.00	732.17	
22	0.00	0.00	0.00	1.17	0.00	365.10	252.76	67.56	0.00	0.00	0.00	0.00	686.59	
23	0.00	0.00	0.00	0.00	0.00	380.85	214.66	63.72	0.00	0.00	0.00	0.00	659.24	
24	0.00	0.00	0.00	0.00	0.00	384.34	263.98	59.85	0.00	0.00	0.00	0.00	708.16	
25	0.00	0.00	0.00	0.00	0.00	389.55	245.23	61.79	0.00	0.00	0.00	0.00	696.57	
26	0.00	0.00	0.00	0.00	0.00	403.40	226.21	61.79	0.00	0.00	0.00	0.00	691.40	
27	0.00	0.00	0.00	0.00	0.00	425.71	222.37	57.89	0.00	0.00	0.00	0.00	705.98	
28	0.00	0.00	0.00	0.00	0.00	468.05	226.21	53.95	0.00	0.00	0.00	0.00	748.21	
29	0.00	0.00	0.00	0.00	0.00	483.13	226.21	35.43	0.00	0.00		0.00	744.77	
30	0.00	0.00	0.00	0.00	0.00	504.75	233.85	5.35	0.00	0.00		0.00	743.94	
31		0.00		0.00	0.00		241.44		0.00	0.00		0.00	241.44	
Total	0.00	0.00	0.00	1.17	0.00	7263.53	13224.34	3994.57	0.00	0.00	0.00	0.00	24483.61	Tonday
Mean	0.00	0.00	0.00	0.04	0.00	242.12	426.59	133.15	0.00	0.00	0.00	0.00	66.82	Ton/day
Max	0.00	0.00	0.00	1.17	0.00	504.75	571.89	252.76	0.00	0.00	0.00	0.00	571.89	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	10.29	214.66	5.35	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MUN RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Khok Kruad **Amphoe** Mueang **Changwat** Nakhon Ratchasima

Drainge Area	2,854 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.9411
Remarks	Continued Sediment Station

$$QS = 3.6138\ QW^{1.17900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	1.90	1.98	2.53	6.29	6.85	109.84	14.14	8.18	2.06	4.70	6.29	165.70
2	1.52	1.37	2.94	1.67	3.44	4.83	88.78	17.49	7.32	2.94	5.15	7.32	144.79
3	1.90	1.45	4.48	0.87	4.30	4.66	61.26	15.99	5.60	1.82	3.96	9.65	115.94
4	1.30	1.08	2.78	0.30	5.01	4.48	54.57	15.61	2.06	1.52	5.83	7.61	102.15
5	0.81	1.75	2.29	1.23	4.83	5.37	53.29	10.85	0.87	1.94	5.37	6.29	94.89
6	0.94	2.61	1.90	2.29	3.96	6.10	55.22	7.04	0.77	2.06	2.66	8.18	93.73
7	0.45	1.23	2.29	2.29	4.66	7.80	54.57	7.04	1.45	1.94	4.13	7.32	95.16
8	1.08	1.60	2.53	1.75	2.29	7.23	61.98	7.89	1.94	2.53	3.28	7.04	101.14
9	1.23	1.67	1.15	1.01	2.14	8.18	79.23	9.65	3.44	2.78	3.44	6.29	120.22
10	1.45	1.30	1.01	1.15	4.13	7.42	105.21	32.13	7.32	5.37	8.47	8.76	183.72
11	1.45	1.01	1.15	0.45	6.29	7.04	125.38	35.23	7.61	5.15	12.68	8.76	212.21
12	1.67	0.24	0.67	0.36	5.37	5.37	135.30	26.05	5.37	4.13	3.11	5.83	193.47
13	1.30	0.87	0.81	0.48	3.96	5.74	112.85	30.23	2.29	3.28	3.11	5.37	170.29
14	1.15	2.29	1.01	2.45	4.66	9.90	84.30	33.55	2.53	3.11	3.44	3.61	152.02
15	1.98	2.53	0.81	2.78	2.70	9.40	43.81	26.51	2.94	4.48	3.96	3.78	105.67
16	2.37	2.14	2.14	2.14	2.70	7.61	19.02	31.18	2.66	2.78	2.94	3.28	80.93
17	2.21	2.37	2.61	1.82	5.92	6.48	11.45	27.90	2.41	3.28	2.29	1.52	70.27
18	1.52	1.67	2.14	1.75	2.94	8.91	12.68	30.71	2.29	3.28	3.44	1.52	72.85
19	0.81	2.29	1.67	1.90	1.75	7.23	26.05	21.06	2.94	3.11	7.04	2.53	78.38
20	0.42	2.45	2.37	2.53	1.30	10.90	24.22	9.95	2.41	2.29	8.18	2.78	69.80
21	0.61	2.78	2.61	1.90	2.06	19.62	21.06	7.89	0.61	3.78	7.61	3.44	73.98
22	1.75	2.61	2.61	2.29	1.23	36.14	16.74	4.70	0.39	3.78	9.35	3.28	84.87
23	1.01	1.52	3.11	1.82	1.08	59.23	11.15	4.13	0.84	3.11	7.89	2.94	97.85
24	0.87	1.90	3.78	2.53	0.39	55.22	8.18	3.78	2.29	3.11	8.18	2.29	92.54
25	1.01	1.45	2.78	2.37	2.53	64.28	9.06	6.06	1.60	2.78	10.54	3.96	108.42
26	1.52	1.08	2.53	3.11	4.83	89.54	9.06	16.74	1.60	2.29	11.76	1.94	146.01
27	1.23	2.14	1.45	2.45	7.23	92.05	9.65	24.22	1.71	2.17	10.54	4.13	158.96
28	1.90	1.37	2.06	2.45	8.67	92.88	10.24	20.62	3.28	2.53	8.47	3.28	157.75
29	1.08	2.14	2.37	2.94	7.04	92.88	10.24	15.99	2.53	3.44		3.28	143.94
30	1.52	1.45	2.78	5.01	7.23	94.56	11.76	10.85	2.66	1.94		2.53	142.28
31		1.67		4.48	7.99		13.04		2.66	1.94		1.82	33.60
Total	39.01	53.95	64.84	63.14	128.91	837.88	1449.17	525.16	92.57	90.73	171.54	146.64	3663.53 Tonday
Mean	1.30	1.74	2.16	2.04	4.16	27.93	46.75	17.51	2.99	2.93	6.13	4.73	10.03 Ton/day
Max	2.37	2.78	4.48	5.01	8.67	94.56	135.30	35.23	8.18	5.37	12.68	9.65	135.30 Ton/day
Min	0.42	0.24	0.67	0.30	0.39	4.48	8.18	3.78	0.39	1.52	2.29	1.52	0.24 Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Nawarat Bridge **Amphoe** Mueang **Changwat** Chiang Mai

Drainge Area	6,350 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1993-Cont'd
Actual Measurement	1993-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.9320
Remarks	Continued Sediment Station

$$QS = 3.2190\ QW^{1.31500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.47	9.08	2.01	16.09	428.55	925.01	579.94	378.07	33.96	4.55	2.80	1.23	2381.76	
2	0.66	18.63	5.01	60.43	428.55	623.81	480.50	394.73	25.33	5.49	3.65	2.80	2049.58	
3	6.97	2.40	43.16	16.09	345.28	537.01	668.12	361.59	14.86	9.08	77.62	102.03	2184.21	
4	1.47	1.09	19.93	14.86	428.55	498.13	782.45	345.28	14.86	6.47	8.01	77.62	2198.72	
5	0.72	0.84	28.14	22.59	645.87	498.13	876.86	332.11	16.09	6.97	2.60	146.65	2577.57	
6	0.49	0.72	8.01	12.47	601.78	319.06	645.87	332.11	16.09	19.93	2.40	46.34	2005.27	
7	0.39	0.66	28.14	11.31	1008.84	332.11	736.23	319.06	16.09	17.35	2.40	17.35	2489.93	
8	0.27	1.29	13.65	31.02	668.12	411.56	601.78	306.14	13.65	22.59	2.60	3.65	2076.31	
9	0.39	49.58	8.01	108.37	411.56	623.81	498.13	319.06	13.65	9.08	4.55	1.03	2047.21	
10	5.49	0.96	5.49	146.65	378.07	713.30	394.73	537.01	12.47	36.97	33.96	1.16	2266.25	
11	1.23	0.84	6.47	306.90	268.17	668.12	319.06	3484.00	9.08	40.04	6.47	361.59	5471.95	
12	0.63	0.55	11.31	120.82	280.69	1686.15	463.03	4353.99	8.01	49.58	4.55	378.07	7357.37	
13	0.44	0.22	3.22	54.94	219.50	1973.30	1079.86	1451.33	8.01	18.63	17.35	463.03	5289.82	
14	0.31	0.39	3.22	31.02	428.55	1262.31	925.01	900.94	6.97	10.18	3.22	178.03	3750.16	
15	0.24	3.65	14.86	19.93	268.17	1079.86	480.50	690.70	5.97	7.49	7.49	255.78	2834.64	
16	0.60	1.03	7.49	17.35	280.69	1152.02	394.73	601.78	5.97	17.35	3.22	219.50	2701.73	
17	5.49	0.72	17.35	12.47	255.78	1923.23	345.28	579.94	6.97	14.86	71.78	211.04	3444.91	
18	1.23	0.55	17.35	9.08	202.66	1824.03	293.35	480.50	10.18	11.31	7.49	202.66	3060.38	
19	0.63	0.49	10.18	7.49	170.00	4353.99	255.78	428.55	6.97	4.09	71.78	186.16	5496.11	
20	0.49	2.80	22.59	7.49	255.78	2596.96	268.17	411.56	6.47	2.80	18.63	280.69	3874.43	
21	0.34	3.22	11.31	10.18	1188.52	1528.66	293.35	378.07	6.47	2.80	7.49	601.78	4032.18	
22	0.29	11.31	36.97	60.43	1374.97	1646.43	293.35	601.78	5.49	2.60	4.09	332.11	4369.82	
23	0.16	11.31	187.50	173.62	623.81	1188.52	293.35	579.94	5.01	2.40	2.60	211.04	3279.26	
24	0.34	12.47	46.34	801.44	668.12	829.33	306.14	319.06	5.01	2.80	54.94	133.07	3179.07	
25	12.47	8.01	31.02	201.64	759.33	690.70	306.14	43.16	4.09	2.80	18.63	463.03	2541.01	
26	2.60	1.16	160.00	89.63	1489.87	973.77	463.03	46.34	4.09	2.80	60.43	463.03	3756.75	
27	0.84	0.66	46.34	49.58	1337.16	1188.52	411.56	43.16	4.09	3.01	43.16	463.03	3591.11	
28	0.52	0.60	40.04	54.94	1262.31	876.86	361.59	46.34	4.09	2.80	3.22	345.28	2998.60	
29	0.34	0.63	18.63	19.93	1413.02	558.45	378.07	36.97	4.09	2.80		194.37	2627.30	
30	0.31	0.66	13.65	558.45	1567.69	645.87	852.94	33.96	4.55	5.01		186.16	3869.24	
31		0.84		445.71	1225.28		515.91		4.55	4.09		146.44	2342.82	
Total	46.80	147.36	867.36	3492.89	20885.25	34129.01	15564.80	19137.24	303.18	348.70	547.11	6675.73	102145.42	Tonday
Mean	1.56	4.75	28.91	112.67	673.72	1137.63	502.09	637.91	9.78	11.25	19.54	215.35	3355.16	Ton/day
Max	12.47	49.58	187.50	801.44	1567.69	4353.99	1079.86	4353.99	33.96	49.58	77.62	601.78	4353.99	Ton/day
Min	0.16	0.22	2.01	7.49	170.00	319.06	255.78	33.96	4.09	2.40	2.40	1.03	0.16	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Mae Taeng **Amphoe** Mae Taeng **Changwat** Chiang Mai

Drainge Area	1,930 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1992-Cont'd
Actual Measurement	1992-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.9280
Remarks	Continued Sediment Station

$$QS = 5.4950\ QW^{1.63600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.51	4.46	6.81	4.79	12.22	385.97	94.75	31.37	26.23	4.13	1.65	1.49	577.39	
2	3.51	5.50	8.98	4.79	13.09	179.38	94.75	31.37	24.60	4.13	1.65	1.49	373.24	
3	3.51	5.50	6.14	4.79	15.17	144.26	94.75	26.23	24.60	3.81	1.65	1.49	331.90	
4	3.51	5.50	23.33	4.46	33.15	134.15	94.75	38.75	24.60	3.81	1.65	1.49	369.16	
5	3.51	5.50	1271.19	4.46	161.62	38.75	85.16	36.85	24.60	3.81	1.65	1.49	1638.58	
6	3.51	5.50	204.78	3.81	4222.29	6.81	55.27	34.98	24.60	3.81	1.65	1.49	4568.51	
7	3.51	5.50	7.51	12.22	714.66	19.66	42.66	33.15	20.86	3.81	1.65	1.49	866.69	
8	3.51	5.50	5.50	1181.43	124.94	167.68	42.66	33.15	14.11	3.81	1.65	1.49	1585.44	
9	3.51	5.50	5.50	497.12	38.75	179.38	42.66	33.15	10.55	3.81	1.65	1.49	823.07	
10	3.51	5.14	5.50	584.31	7.51	20.86	42.66	329.04	9.75	3.81	1.65	1.49	1015.23	
11	3.51	4.79	5.50	296.60	5.50	11.37	42.66	11482.58	7.51	3.81	1.49	1.49	11866.81	
12	3.51	4.79	5.50	62.04	5.50	67.19	42.66	6702.96	6.14	3.81	1.49	1.49	6907.07	
13	3.51	4.79	5.50	7.51	5.50	244.71	42.66	2277.07	4.46	3.81	1.49	1.49	2602.49	
14	3.51	4.79	5.14	15.17	5.50	144.26	42.66	307.27	5.14	3.81	1.49	1.49	540.23	
15	3.51	4.79	4.13	34.98	5.50	78.99	42.66	124.94	12.22	3.81	1.49	1.49	318.51	
16	3.51	5.14	3.81	31.37	5.50	138.86	42.66	107.29	8.98	3.81	1.49	1.49	353.90	
17	3.51	5.14	3.81	22.08	5.50	3398.76	22.08	88.31	8.98	3.81	1.49	1.49	3564.95	
18	3.51	6.14	3.81	5.14	5.14	1426.15	6.14	67.19	8.98	3.81	1.49	1.49	1538.99	
19	3.51	8.23	3.81	4.79	5.14	5369.91	3.21	67.19	6.81	3.81	1.49	1.49	5479.39	
20	3.51	8.23	3.81	3.51	11.37	2277.07	3.51	64.36	3.81	3.81	1.49	1.49	2385.98	
21	3.81	5.50	3.81	7.51	902.17	1537.02	13.09	62.04	3.81	3.81	1.49	1.49	2545.55	
22	3.81	5.50	167.68	3264.19	458.86	955.67	20.86	62.04	3.81	3.81	1.49	1.49	4949.22	
23	4.13	5.50	733.85	6448.52	251.43	566.22	53.08	64.36	3.81	3.81	1.49	1.49	8137.68	
24	4.13	5.50	29.62	1301.18	733.85	307.27	53.08	64.36	3.81	3.81	1.49	1.49	2509.58	
25	4.13	5.50	48.81	138.86	211.06	251.43	42.66	62.04	3.81	3.21	1.49	1.49	774.48	
26	4.13	5.50	70.07	53.08	657.71	258.62	44.68	62.04	3.81	2.38	1.49	1.49	1165.00	
27	4.13	5.50	26.23	53.08	307.27	230.71	31.37	62.04	3.81	2.38	1.49	1.49	729.49	
28	4.13	5.50	5.14	42.66	1332.19	98.86	18.50	62.04	3.81	2.38	1.49	1.49	1578.20	
29	4.13	5.50	5.14	17.36	1271.19	75.97	27.90	59.75	3.81	2.19		1.49	1474.43	
30	4.13	5.50	4.13	11.37	3197.71	94.75	78.99	50.93	3.81	1.65		1.49	3454.46	
31		5.50		4.46	1038.49		44.68		3.81	1.65		1.49	1100.08	
Total	110.83	170.85	2684.54	14127.64	15765.45	18810.68	1409.89	22528.84	319.51	108.03	43.32	46.13	76125.71	Tonday
Mean	3.69	5.51	89.48	455.73	508.56	627.02	45.48	750.96	10.31	3.48	1.55	1.49	2503.27	Ton/day
Max	4.13	8.23	1271.19	6448.52	4222.29	5369.91	94.75	11482.58	26.23	4.13	1.65	1.49	11482.58	Ton/day
Min	3.51	4.46	3.81	3.51	5.14	6.81	3.21	26.23	3.81	1.65	1.49	1.49	1.49	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Tha Nang **Amphoe** Mueang **Changwat** Lamphun

Drainge Area	1,569 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1992-Cont'd
Actual Measurement	1992-Cont'd
Using Rating Curve Water Year	2016
Number of observation	26
R-Square	0.8020
Remarks	Continued Sediment Station

$$QS = 2.1980\ QW^{1.19000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	0.02	3.34	15.28	43.97	177.21	61.33	61.33	5.68	1.69	2.95	0.03	372.85	
2	0.02	0.02	6.29	14.64	29.24	61.33	40.62	50.81	4.13	4.37	4.84	0.02	216.32	
3	0.01	0.01	5.92	14.64	24.56	32.43	99.37	32.43	3.53	4.60	7.07	0.02	224.59	
4	0.01	0.02	4.48	14.64	27.66	27.66	186.47	26.10	3.93	4.25	6.42	0.05	301.70	
5	0.01	0.02	2.95	14.00	37.31	24.56	217.42	17.88	3.53	5.07	7.61	0.03	330.39	
6	0.01	0.02	5.19	12.75	30.83	16.57	208.73	15.28	2.20	6.04	6.29	0.11	304.02	
7	0.02	0.02	4.25	14.00	29.24	17.22	200.10	13.37	2.07	8.16	6.42	0.08	294.94	
8	0.01	0.02	5.80	15.92	27.66	23.03	190.20	11.54	1.81	9.26	5.44	0.09	290.79	
9	0.01	0.02	9.26	21.51	23.03	57.79	188.33	9.83	0.25	9.83	2.95	0.06	322.87	
10	0.01	0.02	7.61	20.02	17.88	88.88	120.86	9.26	0.16	9.83	1.44	0.03	276.00	
11	0.02	0.02	8.71	23.03	15.28	64.91	54.28	12.75	0.11	10.97	0.32	0.03	190.42	
12	0.02	0.02	7.61	30.83	14.64	222.33	222.33	131.85	0.08	12.75	0.19	0.03	642.67	
13	0.02	0.02	6.29	32.43	14.00	618.16	376.20	120.86	0.08	11.54	0.14	0.02	1179.77	
14	0.01	0.02	6.42	20.02	14.64	670.51	242.14	61.33	0.06	10.39	0.14	0.02	1025.70	
15	0.01	0.01	12.75	17.88	15.28	441.86	180.90	32.43	0.08	11.54	0.13	0.02	712.87	
16	0.01	0.01	8.16	16.57	15.92	418.17	88.88	26.10	0.06	10.97	0.09	0.02	584.97	
17	0.00	0.01	10.97	15.28	20.02	441.86	78.60	21.51	1.20	10.39	0.11	0.02	599.95	
18	0.00	0.02	12.75	14.00	26.10	456.53	43.97	15.28	2.95	10.39	1.81	0.02	583.83	
19	0.00	0.03	11.54	13.37	17.22	996.64	26.10	12.13	3.34	10.97	2.20	0.02	1093.56	
20	0.00	0.06	12.75	14.00	17.88	719.82	20.02	10.97	3.34	10.97	1.81	0.01	811.61	
21	0.00	0.08	11.54	21.51	18.54	315.67	18.54	10.39	5.19	10.97	4.72	0.01	417.16	
22	0.00	0.06	9.83	54.28	23.03	219.87	15.92	6.42	5.68	10.97	2.38	0.01	348.44	
23	0.00	0.06	6.17	30.83	27.66	190.20	14.64	5.56	10.39	11.54	0.90	0.01	297.95	
24	0.00	0.05	4.25	23.03	27.66	177.21	14.00	4.84	9.83	11.54	0.14	0.01	272.56	
25	0.00	0.03	5.07	23.03	30.83	110.03	20.02	4.25	9.83	9.26	0.09	0.01	212.45	
26	0.00	0.03	12.13	27.66	32.43	99.37	57.79	3.73	10.97	7.07	0.08	0.01	251.26	
27	0.01	0.03	12.75	23.03	54.28	208.73	78.60	3.53	9.26	5.92	0.06	0.02	396.22	
28	0.01	0.03	14.64	16.57	88.88	215.24	88.88	4.72	5.68	4.25	0.05	0.02	438.97	
29	0.01	0.14	17.22	32.43	217.42	186.47	192.06	4.72	4.96	4.13		0.01	659.57	
30	0.02	0.44	21.51	88.88	213.07	120.86	195.81	6.17	3.34	3.73		0.02	653.85	
31		0.57		64.91	204.41		165.67		1.69	3.14		0.02	440.40	
Total	0.27	1.96	268.14	760.95	1400.55	7421.10	3708.77	747.35	115.38	256.51	66.78	0.90	14748.66	Tonday
Mean	0.01	0.06	8.94	24.55	45.18	247.37	119.64	24.91	3.72	8.27	2.38	0.03	485.07	Ton/day
Max	0.02	0.57	21.51	88.88	217.42	996.64	376.20	131.85	10.97	12.75	7.61	0.11	996.64	Ton/day
Min	0.00	0.01	2.95	12.75	14.00	16.57	14.00	3.53	0.06	1.69	0.05	0.01	0.00	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

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

Location : on right bank at Som Sieo Market.

Ban Tha Ngiu **Amphoe** Banphot Phisai **Changwat** Nakhon Sawan

Drainge Area	45,297 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1954-Cont'd
Actual Measurement	1954-Cont'd
Using Rating Curve Water Year	2016
Number of observation	28
R-Square	0.8530
Remarks	Continued Sediment Station

$$QS = 1.3126\ QW^{1.40660}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	252.00	327.48	269.04	394.88	149.67	1354.00	5801.05	5165.93	435.82	435.82	159.93	442.76	15188.38
2	277.68	316.61	286.40	349.54	179.50	1574.27	4893.24	5234.76	421.07	465.78	159.93	451.73	14610.51
3	277.68	316.61	286.40	360.72	155.51	1476.28	4312.93	5029.05	406.46	421.07	173.41	408.39	13624.51
4	295.19	316.61	295.19	338.46	139.61	1129.29	5029.05	4440.05	406.46	349.54	191.87	424.99	13356.31
5	305.85	338.46	235.28	406.46	305.85	887.57	5874.32	3693.71	322.04	282.03	177.98	416.18	13245.71
6	295.19	338.46	204.46	286.40	887.57	677.04	8410.10	2637.90	295.19	335.71	187.20	392.95	14948.18
7	295.19	338.46	179.50	305.85	1129.29	558.98	13583.11	1951.64	282.03	308.53	159.93	332.96	19425.47
8	286.40	338.46	179.50	295.19	931.60	465.78	13851.09	1800.87	363.54	256.23	173.41	318.42	19260.47
9	277.68	327.48	161.42	210.85	844.16	759.27	13051.73	1838.23	363.54	392.00	201.29	355.12	18782.76
10	277.68	349.54	149.67	383.39	677.04	1294.01	10299.38	2028.32	392.00	377.69	196.56	370.12	16795.40
11	349.54	316.61	139.61	511.76	558.98	1682.81	7673.04	2105.85	335.71	282.03	210.85	377.69	14544.48
12	327.48	327.48	129.75	338.46	269.04	1507.33	5958.38	2343.39	256.23	269.04	216.48	377.69	12320.75
13	277.68	316.61	115.37	252.00	134.65	1323.91	4863.43	3693.71	450.73	134.65	210.85	408.39	12181.98
14	286.40	435.82	101.48	210.85	82.57	1234.82	5003.01	3693.71	435.82	106.05	196.56	355.12	12142.21
15	252.00	421.07	93.78	252.00	45.82	1414.76	4455.53	2637.90	668.07	101.48	201.29	311.22	10854.90
16	316.61	406.46	97.61	338.46	28.86	2198.41	3080.54	1951.64	584.64	179.50	201.29	416.18	9800.20
17	252.00	383.39	93.78	511.76	36.34	2458.35	3350.07	1951.64	584.64	372.01	210.85	442.76	10647.59
18	277.68	394.88	110.68	316.61	59.21	2681.26	5541.56	1875.81	435.82	480.96	227.87	385.30	12787.66
19	277.68	421.07	120.11	167.38	59.21	3587.78	13316.66	1510.16	282.03	801.39	332.96	400.65	21277.08
20	227.05	435.82	124.90	110.68	43.26	3527.91	9367.31	1183.04	218.91	1051.96	325.67	424.99	17041.50
21	204.46	421.07	120.11	144.62	32.54	3409.06	6095.71	1073.71	269.04	717.81	347.69	442.76	13278.56
22	235.28	394.88	101.48	204.46	25.32	7822.98	4376.35	941.47	377.69	527.37	340.30	370.12	15717.70
23	218.91	406.46	97.61	295.19	17.09	11026.87	3309.14	485.04	377.69	527.37	325.67	416.18	17503.20
24	210.85	394.88	124.90	1051.96	6.16	13051.73	2993.88	406.46	435.82	656.91	296.96	385.30	20015.81
25	204.46	383.39	101.48	1354.00	15.56	11750.57	2464.88	406.46	435.82	465.78	325.67	400.65	18308.71
26	252.00	383.39	90.00	1354.00	179.50	10132.03	2223.70	183.34	363.54	558.98	347.69	400.65	16468.82
27	269.04	349.54	134.65	1323.91	218.91	9259.49	2343.39	76.52	335.71	511.76	408.39	408.39	15639.71
28	295.19	338.46	338.46	801.39	511.76	8514.98	3470.14	183.34	349.54	543.11	416.18	400.65	16163.20
29	316.61	327.48	383.39	421.07	496.29	7550.99	5655.31	406.46	450.73	394.88		424.99	16828.19
30	305.85	286.40	235.28	218.91	677.04	7015.44	4697.46	524.23	335.71	480.96		506.59	15283.87
31		269.04		161.42	1001.30		4762.46		392.00	480.96		516.95	7584.12
Total	8197.29	11122.38	5101.31	13672.60	9899.22	121327.98	190107.95	61454.30	12064.00	13269.34	6924.72	12486.85	465627.95 Tonday
Mean	273.24	358.79	170.04	441.05	319.33	4044.27	6132.51	2048.48	389.16	428.04	247.31	402.80	15255.03 Ton/day
Max	349.54	435.82	383.39	1354.00	1129.29	13051.73	13851.09	5234.76	668.07	1051.96	416.18	516.95	13851.09 Ton/day
Min	204.46	269.04	90.00	110.68	6.16	465.78	2223.70	76.52	218.91	101.48	159.93	311.22	6.16 Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Mae Rim Tai **Amphoe** Mae Rim **Changwat** Chiang Mai

Drainge Area	452 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.8560
Remarks	Continued Sediment Station

$QS = 5.4080\ QW^{1.40800}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.06	29.05	19.65	16.62	120.41	23.63	21.22	3.61	2.15	0.41	0.04	236.88	
2	0.06	0.06	24.45	68.19	18.12	68.19	22.01	18.88	2.15	2.33	0.77	0.04	225.25	
3	0.06	0.08	68.19	48.80	91.07	30.42	27.82	15.17	1.49	2.15	0.52	0.02	285.79	
4	0.08	0.08	9.57	30.42	93.15	15.17	27.82	13.75	1.65	1.33	0.31	0.00	193.32	
5	0.06	0.10	52.00	27.82	157.03	11.23	41.48	13.75	2.33	2.15	0.41	0.00	308.35	
6	0.08	0.13	22.82	18.88	86.62	8.51	26.96	9.04	1.98	2.33	0.31	0.00	177.65	
7	0.06	0.13	22.01	18.12	105.00	6.99	26.12	8.51	0.90	2.51	0.13	0.01	190.48	
8	0.06	0.13	15.17	80.39	43.00	55.10	22.01	7.99	0.77	2.33	0.10	0.04	227.09	
9	0.06	0.10	6.18	136.42	41.48	45.94	15.17	23.63	0.64	2.15	0.10	0.04	271.92	
10	0.04	0.08	2.51	125.69	45.94	13.75	12.37	29.05	1.04	1.98	0.06	0.02	232.53	
11	0.06	0.10	1.49	226.48	15.89	19.65	13.75	637.09	1.81	5.03	0.04	0.04	921.43	
12	0.06	0.08	0.90	110.07	9.04	361.51	37.15	395.94	1.81	4.66	0.04	0.04	921.29	
13	0.06	0.06	1.33	55.10	6.18	481.35	91.07	74.14	1.81	3.27	0.06	0.10	714.54	
14	0.08	0.06	4.66	26.12	6.58	91.07	33.09	44.39	1.81	2.70	0.06	0.64	211.26	
15	0.08	0.06	2.33	13.06	6.18	181.60	17.37	33.09	1.81	2.33	0.06	0.21	258.18	
16	0.08	0.08	1.98	10.11	6.58	120.41	13.06	19.65	1.81	1.98	0.06	0.10	175.91	
17	0.06	0.10	2.33	5.03	5.03	133.72	12.37	16.62	2.33	1.65	0.08	0.06	179.38	
18	0.04	0.08	3.61	3.61	3.95	120.41	11.80	11.80	2.33	1.49	0.06	0.04	159.20	
19	0.06	0.41	6.99	3.27	3.95	488.35	17.37	10.11	2.33	1.65	0.06	0.04	534.59	
20	0.06	21.22	25.28	3.27	16.62	91.07	18.88	9.04	2.33	1.65	0.04	0.04	189.49	
21	0.06	29.05	3.08	13.06	26.96	110.07	15.17	7.99	2.15	1.65	0.04	0.02	209.29	
22	0.06	19.65	5.03	72.20	13.06	50.39	6.18	9.04	1.81	1.65	0.06	0.01	179.13	
23	0.06	21.22	9.04	117.80	24.45	22.82	7.99	13.75	1.65	1.49	0.77	0.01	221.04	
24	0.06	39.97	8.51	133.72	21.22	15.17	7.99	14.45	1.49	1.49	0.52	0.06	244.64	
25	0.06	16.62	24.45	115.21	10.11	13.06	10.11	18.12	1.18	0.90	0.13	0.06	210.01	
26	0.06	0.31	88.84	66.30	105.00	55.10	37.15	18.12	1.33	0.31	0.13	0.06	372.69	
27	0.06	0.13	60.40	11.80	68.19	102.49	35.82	22.82	2.33	0.41	0.06	0.06	304.56	
28	0.06	0.13	23.63	9.57	248.12	37.15	29.05	21.22	1.98	0.41	0.04	0.04	371.38	
29	0.06	0.13	7.99	10.11	163.94	25.28	74.14	15.89	1.33	0.41		0.02	299.31	
30	0.06	0.18	6.58	20.43	150.20	26.12	144.64	7.49	1.33	0.64		0.06	357.73	
31		5.41		26.12	160.47		35.82		1.04	0.41		0.06	229.33	
Total	1.79	155.98	540.40	1626.79	1769.76	2922.49	915.36	1561.72	54.39	57.60	5.40	1.97	9613.65	Tonday
Mean	0.06	5.03	18.01	52.48	57.09	97.42	29.53	52.06	1.75	1.86	0.19	0.06	315.54	Ton/day
Max	0.08	39.97	88.84	226.48	248.12	488.35	144.64	637.09	3.61	5.03	0.77	0.64	637.09	Ton/day
Min	0.04	0.06	0.90	3.27	3.95	6.99	6.18	7.49	0.64	0.31	0.04	0.00	0.00	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

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

Ban Sahakorn Romklao **Amphoe** Phrao **Changwat** Chiang Mai

Drainge Area	546 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	32
R-Square	0.9470
Remarks	Continued Sediment Station

$$QS = 7.8940\ QW^{1.20700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.55	0.80	4.96	8.86	171.76	61.38	29.37	30.45	13.71	8.86	7.33	2.22	340.24	
2	0.55	0.80	16.80	19.66	35.93	66.57	52.16	30.45	13.09	8.08	4.01	2.22	250.33	
3	0.55	0.80	37.42	7.70	19.66	50.72	52.16	28.42	11.85	5.13	4.01	2.22	220.65	
4	0.55	0.80	58.28	5.13	14.34	98.59	89.85	25.48	11.24	5.13	4.01	2.00	315.39	
5	0.55	0.80	77.00	5.13	13.71	63.01	61.38	15.83	11.24	5.13	3.84	1.85	259.47	
6	0.55	0.80	280.11	5.13	55.21	66.57	55.21	14.98	8.86	5.13	3.84	1.85	498.23	
7	0.55	0.80	107.47	13.71	47.72	56.81	49.15	14.98	8.86	5.13	3.42	1.85	310.44	
8	0.55	0.80	56.81	377.95	161.79	53.75	49.15	15.83	8.86	5.13	2.61	1.85	735.08	
9	0.55	0.80	44.62	271.18	35.93	119.21	43.22	33.60	8.86	5.13	2.61	1.85	567.55	
10	0.49	0.80	31.53	158.60	21.46	87.68	26.41	89.85	8.86	5.13	2.61	1.63	435.05	
11	0.43	0.80	24.43	72.79	13.09	140.14	22.48	405.49	8.86	6.21	2.61	1.63	698.97	
12	0.43	0.80	11.85	52.16	10.63	116.18	22.48	165.00	8.86	14.34	2.61	1.63	406.97	
13	0.43	0.80	5.49	155.58	15.83	165.00	74.89	81.24	8.86	20.56	2.61	1.63	532.92	
14	0.43	0.80	5.13	89.85	21.46	92.02	32.50	46.17	8.86	20.56	2.61	1.63	322.01	
15	0.43	0.80	5.13	55.21	26.41	122.10	27.47	31.53	8.86	19.66	2.61	1.63	301.84	
16	0.43	0.80	5.13	50.72	44.62	119.21	26.41	25.48	8.47	14.98	2.38	1.63	300.25	
17	0.43	0.80	5.13	40.30	30.45	96.39	28.42	29.37	8.08	8.86	2.38	1.63	252.24	
18	0.43	0.80	5.13	13.71	22.48	87.68	22.48	28.42	7.70	8.86	2.38	1.63	201.70	
19	0.43	0.80	4.96	11.85	28.42	330.21	16.80	26.41	7.70	8.86	2.38	1.63	440.45	
20	0.43	0.80	4.69	4.69	410.93	125.15	18.66	22.48	7.70	8.86	2.38	1.63	608.41	
21	0.74	0.86	4.43	6.58	475.56	83.38	14.98	20.56	9.44	8.86	2.38	1.63	629.39	
22	0.86	0.86	4.26	94.20	248.97	85.53	15.83	20.56	10.63	8.86	2.38	1.63	494.57	
23	0.86	0.86	5.49	96.39	79.12	46.17	29.37	20.56	10.04	8.86	2.38	1.63	301.72	
24	0.86	0.86	30.45	289.10	271.18	25.48	19.66	19.66	9.44	8.86	2.38	1.48	679.41	
25	0.86	0.86	81.24	53.75	182.97	41.82	34.58	17.68	8.86	8.86	2.38	1.48	435.33	
26	0.74	0.86	24.43	21.46	149.40	35.93	38.92	14.98	8.86	8.86	2.38	1.48	308.30	
27	0.74	0.86	11.24	14.98	103.02	58.28	38.92	14.98	8.86	8.86	2.38	1.48	264.58	
28	0.74	0.86	5.85	14.98	266.81	28.42	33.60	14.98	8.86	8.86	2.38	1.48	387.80	
29	0.74	2.22	24.43	16.80	388.89	28.42	33.60	14.98	8.86	8.86		1.48	529.27	
30	0.74	7.70	15.83	56.81	198.10	53.75	52.16	14.98	8.86	8.86		1.48	419.27	
31		8.08		293.70	116.18		40.30		8.86	8.86		1.48	477.46	
Total	17.63	40.92	999.75	2378.66	3682.04	2605.53	1152.59	1335.36	290.90	287.16	82.24	52.50	12925.28	Tonday
Mean	0.59	1.32	33.33	76.73	118.78	86.85	37.18	44.51	9.38	9.26	2.94	1.69	422.56	Ton/day
Max	0.86	8.08	280.11	377.95	475.56	330.21	89.85	405.49	13.71	20.56	7.33	2.22	475.56	Ton/day
Min	0.43	0.80	4.26	4.69	10.63	25.48	14.98	14.98	7.70	5.13	2.38	1.48	0.43	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Mae Tae , Chiang Mai (P.67)

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

Location : on left bank at the bridge on highway.

Ban Mae Tae **Amphoe** San Sai **Changwat** Chiang Mai

Drainge Area	5,323 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.8850
Remarks	Continued Sediment Station

$$QS = 3.6610\ QW^{1.41000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.62	39.26	1.22	14.85	347.17	762.78	310.53	158.44	87.54	6.98	3.25	0.12	1733.76	
2	73.35	3.25	1.38	17.72	249.36	391.39	232.62	180.79	80.35	6.98	34.81	17.72	1289.72	
3	11.27	1.62	1.87	27.14	175.05	337.90	554.02	164.02	73.35	6.98	59.91	51.04	1464.16	
4	1.38	1.22	2.39	20.73	568.30	430.50	626.42	158.44	69.91	6.00	13.63	37.02	1935.94	
5	0.80	0.80	20.73	22.28	378.60	283.84	539.86	121.54	69.91	6.98	2.96	4.19	1452.49	
6	0.67	2.96	30.52	27.14	762.78	121.54	347.17	136.97	73.35	11.27	2.67	1.08	1518.12	
7	1.08	121.54	59.91	34.81	1549.58	106.54	597.15	121.54	80.35	12.43	2.39	3.87	2691.21	
8	1.62	10.14	48.61	224.37	417.34	142.17	337.90	131.81	63.20	11.27	3.25	1.62	1393.32	
9	66.53	1.87	19.21	430.50	186.43	498.01	249.36	164.02	63.20	7.99	59.91	0.94	1747.97	
10	7.99	1.08	11.27	641.21	121.54	582.67	169.51	511.85	48.61	6.00	56.68	59.91	2218.34	
11	2.13	0.67	14.85	498.01	92.25	554.02	106.54	6659.96	39.26	37.02	13.63	69.91	8088.25	
12	0.80	0.43	14.85	283.84	69.91	1340.02	232.62	6231.41	34.81	39.26	2.13	73.35	8323.43	
13	0.67	0.67	4.19	164.02	80.35	1441.05	965.63	1814.61	27.14	28.82	0.94	48.61	4576.70	
14	0.67	101.75	3.25	87.54	186.43	853.26	470.66	1003.97	17.72	19.21	0.33	6.00	2750.80	
15	1.08	3.87	2.13	59.91	83.92	745.04	216.22	539.86	13.63	14.85	0.14	2.67	1683.32	
16	43.87	2.13	1.62	46.22	101.75	1340.02	142.17	404.31	11.27	12.43	0.94	2.67	2109.40	
17	7.99	1.62	1.22	34.81	73.35	2700.62	121.54	430.50	13.63	4.19	37.02	96.90	3523.39	
18	1.62	0.67	13.63	28.82	59.91	2516.91	80.35	301.55	20.73	3.87	5.07	76.82	3109.95	
19	0.80	1.22	46.22	22.28	63.20	7317.80	56.68	266.44	17.72	2.67	0.67	53.50	7849.21	
20	0.67	12.43	14.85	17.72	328.70	3329.62	48.61	232.62	12.43	2.39	0.12	41.55	4041.73	
21	0.55	19.21	5.07	30.52	2663.72	1875.13	53.50	208.15	9.05	2.13	0.12	3.56	4870.71	
22	1.08	12.43	34.81	106.54	1844.80	2125.83	66.53	200.17	9.05	1.62	0.67	1.38	4404.90	
23	111.52	2.96	762.78	257.86	498.01	1192.56	92.25	192.29	7.99	2.13	0.80	2.13	3123.27	
24	20.73	1.87	101.75	1097.09	816.71	692.56	63.20	169.51	6.98	2.96	39.26	96.90	3109.52	
25	2.96	1.38	111.52	457.16	762.78	525.80	66.53	164.02	6.00	2.67	3.56	73.35	2177.72	
26	0.80	1.22	310.53	337.90	2775.58	908.94	106.54	152.91	4.19	3.25	0.33	56.68	4658.86	
27	0.55	1.22	92.25	175.05	1549.58	1168.48	101.75	152.91	6.00	3.87	0.14	34.81	3286.62	
28	0.43	0.94	37.02	87.54	1168.48	597.15	63.20	152.91	5.07	4.19	0.09	3.25	2120.26	
29	3.56	0.94	16.27	66.53	1966.98	328.70	101.75	136.97	5.07	3.87		0.80	2631.43	
30	319.58	1.08	14.85	192.29	2160.73	554.02	391.39	126.58	6.98	3.56		1.08	3772.13	
31		1.22		116.43	1192.56		283.84		6.98	2.39		59.91	1663.34	
Total	688.34	353.68	1800.79	5628.82	23295.85	35764.88	7796.05	21391.06	991.47	280.24	345.43	983.35	99319.96	Tonday
Mean	22.94	11.41	60.03	181.57	751.48	1192.16	251.49	713.04	31.98	9.04	12.34	31.72	3269.20	Ton/day
Max	319.58	121.54	762.78	1097.09	2775.58	7317.80	965.63	6659.96	87.54	39.26	59.91	96.90	7317.80	Ton/day
Min	0.43	0.43	1.22	14.85	59.91	106.54	48.61	121.54	4.19	1.62	0.09	0.12	0.09	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Sop Soi , Chiang Mai (P.73)

Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

Location : on left bank at Sop Soi Phatana Bridge.

Ban Sop Soi **Amphoe** Chom Thong **Changwat** Chiang Mai

Drainge Area	14,814 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.9170
Remarks	Continued Sediment Station

$$QS = 1.3690\ QW^{1.49900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1272.83	2350.23	3040.20	2905.15	2237.27	181.43	4650.64	46.87	12.62	16697.22	
2	0.00	0.00	0.00	796.66	1272.83	2700.01	2779.91	1615.03	192.50	3410.19	46.40	11.27	12824.81	
3	0.00	0.00	0.00	449.97	922.78	1894.89	2465.03	1466.11	676.87	2426.56	53.05	9.18	10364.44	
4	0.00	0.00	0.00	557.69	890.67	1525.10	3504.88	1219.29	2089.57	2089.57	52.08	8.12	11936.98	
5	0.00	0.00	0.00	226.99	843.23	1038.08	4817.60	1088.86	2237.27	2163.00	44.56	6.41	12466.01	
6	0.00	0.00	0.00	143.91	890.67	843.23	4817.60	938.97	2163.00	0.20	46.40	6.00	9850.00	
7	0.00	0.00	0.25	150.44	1894.89	735.96	4431.09	766.11	938.97	2.67	47.80	5.34	8973.52	
8	0.00	0.00	87.21	163.77	1737.58	691.49	3845.88	415.81	415.81	8.57	48.74	4.59	7419.45	
9	0.00	0.00	38.74	318.89	1382.16	781.34	3040.20	382.56	96.87	18.35	45.02	3.87	6108.00	
10	0.00	0.00	24.76	922.78	1088.86	1831.42	2388.29	1554.89	87.21	28.34	34.45	3.53	7964.54	
11	0.00	0.00	13.79	1038.08	858.95	1675.93	2089.57	3504.88	192.50	33.26	31.79	3.41	9442.16	
12	0.00	0.00	24.76	1063.37	812.09	5460.90	2089.57	7143.88	766.11	31.79	28.62	3.30	17424.40	
13	0.00	0.00	24.76	988.11	520.93	20685.01	2820.15	5932.75	449.97	62.02	39.37	2.27	31525.34	
14	0.00	0.00	21.40	812.09	131.16	23093.59	3745.34	3363.18	595.27	93.92	41.58	1.98	31899.50	
15	0.00	0.00	19.78	676.87	350.24	29448.34	2739.87	3552.55	2426.56	56.98	40.00	2.46	39313.64	
16	0.00	0.00	15.70	415.81	382.56	15577.33	2056.69	14352.88	3648.52	41.90	38.12	2.17	36531.67	
17	0.00	0.00	15.70	137.48	595.27	11272.31	1894.89	1114.55	4322.65	39.37	35.66	1.89	19429.77	
18	0.00	0.00	18.21	192.50	557.69	10196.44	1706.66	1063.37	750.98	42.87	30.62	1.62	14560.96	
19	0.00	0.00	31.96	131.16	181.43	19296.65	1272.83	890.67	1437.94	55.99	25.03	1.62	23325.29	
20	0.00	0.00	163.77	60.35	143.91	18795.36	858.95	796.66	2739.87	53.05	25.58	1.37	23638.86	
21	0.00	0.00	163.77	49.15	595.27	14085.33	812.09	662.36	3504.88	43.19	23.17	0.98	19940.19	
22	0.00	0.00	163.77	137.48	1219.29	11272.31	796.66	766.11	3085.68	37.19	19.83	0.98	17499.31	
23	0.00	0.00	106.86	1140.45	2056.69	8932.72	691.49	1038.08	2350.23	31.49	17.87	0.77	16366.64	
24	0.00	0.00	51.88	2089.57	1525.10	5864.55	595.27	938.97	3457.43	30.05	15.51	0.59	14568.91	
25	0.00	0.00	275.84	2388.29	1737.58	5394.56	595.27	796.66	5002.25	32.37	14.55	0.50	16237.88	
26	0.00	0.00	215.28	2200.03	1926.90	5864.55	691.49	796.66	7143.88	36.27	14.20	0.18	18889.44	
27	0.00	0.00	906.68	1584.87	2994.96	5932.75	1768.68	633.65	6437.98	38.43	14.02	0.00	20312.01	
28	0.00	0.00	706.21	1063.37	2905.15	6437.98	1245.96	662.36	5197.18	34.75	12.96	0.00	18265.92	
29	0.00	0.00	275.84	874.76	3269.79	4376.75	1675.93	318.89	6208.16	38.43		0.00	17038.56	
30	0.00	0.00	288.53	1114.55	4108.46	3040.20	3648.52	203.78	6437.98	36.58		0.00	18878.61	
31		0.00		1192.82	4108.46		3223.43		5932.75	43.19		0.00	14500.65	
Total	0.00	0.00	3655.45	24355.10	44255.78	241785.31	72014.93	60217.82	81168.25	15711.18	933.86	97.03	544194.70	Tonday
Mean	0.00	0.00	121.85	785.65	1427.61	8059.51	2323.06	2007.26	2618.33	506.81	33.35	3.13	17886.56	Ton/day
Max	0.00	0.00	906.68	2388.29	4108.46	29448.34	4817.60	14352.88	7143.88	4650.64	53.05	12.62	29448.34	Ton/day
Min	0.00	0.00	0.00	49.15	131.16	691.49	595.27	203.78	87.21	0.20	12.96	0.00	0.00	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Ping River at Ban Cho Lae , Chiang Mai (P.75)

Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

Location : on left bank at the bridge on road.

Ban Cho Lae **Amphoe** Mae Teang **Changwat** Chiang Mai

Drainge Area	3,088 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.7990
Remarks	Continued Sediment Station

$$QS = 1.6670\ QW^{1.59900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.06	3.89	20.34	10.02	433.81	359.34	266.33	106.36	70.71	30.12	17.82	46.90	1416.69	
2	38.98	2.29	22.99	12.08	177.84	253.08	286.58	99.49	67.81	31.63	158.33	172.96	1324.03	
3	1.33	2.29	11.03	11.03	153.66	279.64	535.24	99.49	83.14	33.41	70.71	130.69	1411.68	
4	1.03	2.08	5.05	15.42	375.43	359.34	408.40	89.57	62.03	33.41	15.42	79.93	1447.12	
5	0.90	1.89	5.46	21.65	246.46	259.58	314.56	79.93	51.06	42.87	14.27	21.65	1060.28	
6	0.78	4.65	20.34	10.02	227.35	167.98	425.28	70.71	44.87	53.68	12.08	37.09	1074.81	
7	0.78	59.16	48.96	10.02	568.75	144.19	602.77	62.03	44.87	51.06	10.02	21.65	1624.25	
8	48.96	2.08	15.42	62.03	177.84	163.20	300.45	56.44	44.87	46.90	22.99	8.11	949.29	
9	35.23	1.89	6.76	246.46	99.49	408.40	227.35	92.79	44.87	37.09	177.84	40.91	1419.08	
10	1.89	1.69	5.05	208.66	76.78	524.17	187.90	802.47	44.87	30.12	83.14	177.84	2144.56	
11	1.33	1.69	3.89	130.69	56.44	433.81	172.96	3473.24	42.87	59.16	15.42	167.98	4559.50	
12	1.89	1.69	3.53	113.40	48.96	400.06	187.90	1991.92	40.91	76.78	13.16	167.98	3048.17	
13	2.29	2.08	3.19	73.78	79.93	343.51	367.35	685.15	42.87	56.44	10.02	96.06	1762.68	
14	3.89	5.05	2.95	48.96	79.93	266.33	293.39	416.81	44.87	44.87	8.11	25.75	1240.92	
15	73.78	1.51	2.95	35.23	53.68	259.58	208.66	300.45	42.87	38.98	21.65	24.35	1063.69	
16	46.90	1.17	3.19	31.63	53.68	721.84	187.90	246.46	38.98	33.41	187.90	59.16	1612.23	
17	1.89	1.33	3.53	16.60	51.06	709.71	172.96	221.00	46.90	30.12	62.03	259.58	1576.70	
18	1.51	3.89	3.89	5.88	42.87	625.94	144.19	193.09	46.90	24.35	12.08	198.18	1302.78	
19	1.89	27.18	3.89	4.65	38.98	1991.92	126.35	167.98	44.87	21.65	14.27	158.33	2601.96	
20	2.08	6.31	3.89	5.46	300.45	1073.49	113.40	148.90	42.87	19.06	19.06	96.06	1831.03	
21	2.29	5.05	3.53	19.06	2066.32	591.18	106.36	126.35	38.98	16.60	14.27	22.99	3013.00	
22	8.11	3.53	62.03	51.06	816.81	709.71	99.49	113.40	38.98	14.27	17.82	24.35	1959.55	
23	307.57	2.73	167.98	193.09	293.39	416.81	99.49	109.92	37.09	15.42	163.20	46.90	1853.58	
24	70.71	2.29	35.23	351.39	557.42	343.51	92.79	102.96	37.09	16.60	62.03	246.46	1918.50	
25	1.51	2.08	130.69	163.20	425.28	336.09	99.49	89.57	35.23	16.60	8.11	167.98	1475.83	
26	1.51	2.29	56.44	208.66	1090.07	557.42	144.19	92.79	33.41	15.42	7.22	148.90	2358.32	
27	2.08	2.08	16.60	117.57	504.32	557.42	109.92	92.79	31.63	14.27	7.22	117.57	1573.47	
28	11.03	2.08	9.05	64.95	524.17	367.35	106.36	92.79	30.12	15.42	38.98	22.99	1285.28	
29	158.33	2.08	6.31	106.36	1407.11	351.39	135.23	86.27	28.63	16.60		6.31	2304.64	
30	10.02	2.73	5.88	117.57	734.32	459.78	203.47	79.93	27.18	15.42		44.87	1701.17	
31		7.22		214.87	459.78		139.69		28.63	13.16		221.00	1084.34	
Total	891.56	168.01	690.08	2681.44	12222.36	14435.75	6866.37	10391.05	1361.00	964.91	1265.14	3061.45	54999.13	Tonday
Mean	29.72	5.42	23.00	86.50	394.27	481.19	221.50	346.37	43.90	31.13	45.18	98.76	1806.93	Ton/day
Max	307.57	59.16	167.98	351.39	2066.32	1991.92	602.77	3473.24	83.14	76.78	187.90	259.58	3473.24	Ton/day
Min	0.78	1.17	2.95	4.65	38.98	144.19	92.79	56.44	27.18	13.16	7.22	6.31	0.78	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

Ban Mae E - Hai **Amphoe** Li **Changwat** Lamphun

Drainge Area	1,544 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.9480
Remarks	Continued Sediment Station

$$QS = 2.4890\ QW^{1.45100}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.22	0.50	0.17	0.30	70.31	70.31	152.50	224.24	79.89	1.58	2.86	2.63	611.51	
2	6.22	0.48	0.17	0.28	49.39	42.95	228.35	208.04	77.46	1.58	2.78	2.56	620.27	
3	6.22	0.41	0.17	0.30	30.94	63.09	283.02	184.74	77.46	0.91	2.78	2.56	652.61	
4	6.22	0.35	0.17	0.33	30.94	63.09	327.93	170.06	72.67	0.91	2.78	2.63	678.10	
5	5.15	0.31	0.21	0.68	36.80	42.95	513.39	162.85	56.11	0.00	2.71	2.56	823.72	
6	4.14	0.31	0.35	25.42	36.80	36.80	506.59	146.05	42.95	0.35	2.71	2.56	805.03	
7	0.88	0.30	0.43	25.42	30.94	36.80	568.79	115.16	36.80	0.39	2.71	2.56	821.18	
8	0.78	0.26	0.41	25.42	30.94	30.94	618.68	97.76	36.80	0.37	2.63	2.56	847.57	
9	0.76	0.26	0.57	30.94	36.80	36.80	386.24	103.46	30.94	0.61	2.63	2.56	632.56	
10	0.73	0.26	0.28	36.80	30.94	36.80	250.44	255.00	25.42	2.07	2.71	2.49	643.93	
11	0.73	0.24	0.24	42.95	30.94	15.45	200.09	204.05	15.45	2.28	2.71	2.56	517.71	
12	0.73	0.24	0.24	42.95	30.94	124.19	170.06	162.85	15.45	2.28	2.71	2.56	555.20	
13	0.73	0.24	0.21	42.95	25.42	212.06	152.50	149.26	11.09	2.63	2.71	2.56	602.36	
14	0.71	0.24	0.21	42.95	30.94	633.17	142.86	136.55	11.09	3.56	2.71	2.56	1007.55	
15	0.68	0.22	0.21	36.80	30.94	1254.33	133.42	124.19	11.09	3.72	2.63	2.63	1600.87	
16	0.68	0.24	0.22	36.80	36.80	781.94	136.55	118.15	9.79	3.81	2.63	2.63	1130.24	
17	0.63	0.22	0.24	36.80	36.80	322.84	181.04	112.20	11.09	3.72	2.56	2.63	710.78	
18	0.59	0.22	0.22	49.39	30.94	192.23	292.82	109.26	9.79	3.64	2.63	2.63	694.39	
19	0.54	0.22	0.21	100.60	30.94	139.69	245.91	103.46	9.79	3.40	2.63	2.63	640.04	
20	0.50	0.22	0.21	118.15	36.80	139.69	188.48	97.76	7.35	3.48	2.63	2.63	597.90	
21	0.50	0.22	0.22	220.16	36.80	705.50	166.44	94.95	5.15	3.40	2.63	2.63	1238.61	
22	0.50	0.21	0.22	278.15	4.14	1057.14	146.05	94.95	6.22	3.09	2.63	2.63	1595.94	
23	0.50	0.21	0.22	177.35	0.66	807.96	130.32	92.38	5.15	2.86	2.63	2.63	1222.88	
24	0.50	0.19	0.22	136.55	11.09	250.44	127.24	92.38	4.14	2.71	2.63	2.56	630.66	
25	0.50	0.19	0.24	146.05	0.91	506.59	139.69	87.32	4.14	2.63	2.63	2.63	893.54	
26	0.50	0.19	0.24	109.26	0.86	590.01	152.50	87.32	3.20	2.63	2.56	2.63	951.91	
27	0.48	0.19	0.26	106.35	0.78	773.33	118.15	84.82	3.20	2.86	2.49	2.63	1095.53	
28	0.48	0.17	0.28	103.46	0.73	404.56	139.69	84.82	1.58	2.86	2.56	2.56	743.74	
29	0.48	0.17	0.28	94.95	0.68	255.00	196.15	82.34	0.91	2.86		2.49	636.30	
30	0.50	0.17	0.28	89.84	3.20	170.06	398.42	82.34	0.91	2.86		2.49	751.07	
31		0.17		77.46	20.25		245.91		0.88	2.78		2.56	350.02	
Total	48.77	7.86	7.61	2235.78	786.38	9796.71	7640.20	3868.70	683.97	72.83	74.67	80.22	25303.70	Tonday
Mean	1.63	0.25	0.25	72.12	25.37	326.56	246.46	128.96	22.06	2.35	2.67	2.59	831.26	Ton/day
Max	6.22	0.50	0.57	278.15	70.31	1254.33	618.68	255.00	79.89	3.81	2.86	2.63	1254.33	Ton/day
Min	0.48	0.17	0.17	0.28	0.66	15.45	118.15	82.34	0.88	0.00	2.49	2.49	0.00	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

Ban Sop Mae Sapuad **Amphoe** Mae Tha **Changwat** Lamphun

Drainge Area	550 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.8580
Remarks	Continued Sediment Station

$$QS = 2.8310\ QW^{1.25500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.01	2.48	56.61	2.01	3.15	56.61	164.22	66.57	55.89	0.50	0.38	0.35	410.79
2	2.01	2.24	87.84	3.86	2.01	25.04	226.48	65.36	55.18	0.50	0.38	0.31	471.19
3	2.01	2.01	58.78	37.52	2.01	25.04	134.18	65.36	54.47	0.50	0.38	0.18	382.42
4	2.01	2.01	33.25	13.74	3.86	10.31	204.55	64.62	53.75	0.50	0.38	0.18	389.14
5	2.01	2.01	146.59	5.35	1.34	6.13	123.15	63.89	51.63	0.47	0.38	0.16	403.08
6	2.01	1.55	75.19	3.15	1.55	6.13	139.10	63.15	37.52	0.47	0.38	0.12	330.32
7	2.01	0.73	52.34	3.86	1.34	4.59	113.82	62.42	0.02	0.50	0.38	0.12	242.11
8	2.01	0.33	6.93	41.90	1.13	10.31	101.10	62.42	0.03	0.55	0.38	0.08	227.15
9	2.01	0.28	3.15	8.58	0.55	33.25	85.28	63.15	0.03	0.52	0.38	0.08	197.27
10	2.01	0.28	2.01	3.86	0.38	29.09	78.94	62.42	0.02	0.52	0.38	0.07	179.96
11	2.01	0.28	2.01	1.78	0.38	17.35	73.94	63.89	0.02	0.52	0.38	0.05	162.59
12	2.01	0.28	2.01	1.34	0.55	156.64	156.64	85.28	0.02	0.47	0.38	0.05	405.65
13	2.01	0.28	2.01	0.55	0.38	164.22	117.59	69.01	0.02	0.47	0.38	0.05	356.96
14	2.01	0.28	2.01	0.33	0.33	452.44	90.42	64.62	0.02	0.52	0.38	0.03	613.39
15	2.01	0.28	2.01	0.33	0.55	213.91	81.46	63.15	0.03	0.57	0.38	0.02	364.70
16	2.01	0.28	2.01	0.38	0.55	126.91	69.01	62.42	0.18	0.55	0.38	0.02	264.68
17	2.01	0.28	2.01	0.38	0.38	101.10	86.56	62.42	0.50	0.55	0.38	0.01	256.55
18	2.01	0.28	2.01	0.28	0.33	174.59	75.19	61.68	0.52	0.52	0.38	0.01	317.79
19	2.01	0.28	2.48	0.20	0.24	210.84	72.70	61.68	0.47	0.50	0.38	0.01	351.79
20	2.01	0.28	3.86	0.33	0.24	106.56	70.24	58.78	0.47	0.50	0.38	0.01	243.65
21	2.01	0.28	2.01	65.36	0.38	86.56	69.01	55.18	0.50	0.47	0.38	0.01	282.14
22	2.01	0.28	2.01	53.75	0.28	78.94	63.89	54.47	0.47	0.45	0.38	0.05	256.97
23	2.01	0.28	2.01	3.86	0.33	87.84	63.89	56.61	0.50	0.45	0.38	0.05	218.19
24	2.01	0.28	2.01	2.01	0.73	80.20	63.89	58.05	0.45	0.45	0.38	0.05	210.49
25	2.01	0.28	2.01	2.48	6.93	101.10	66.57	57.33	0.45	0.42	0.35	0.07	240.00
26	2.01	0.28	2.01	2.01	29.09	82.73	82.73	57.33	0.45	0.42	0.35	0.07	259.47
27	2.01	0.28	2.01	0.73	37.52	82.73	76.43	57.33	0.45	0.42	0.35	0.07	260.33
28	2.01	0.28	2.01	1.13	33.25	78.94	71.47	56.61	0.45	0.40	0.35	0.05	246.94
29	2.01	0.92	2.01	7.75	46.37	69.01	66.57	56.61	0.45	0.40		0.08	252.18
30	2.24	75.19	2.01	8.58	59.50	69.01	64.62	56.61	0.50	0.40		0.07	338.72
31		63.15		6.93	53.04		64.62		0.50	0.40		0.07	188.71
Total	60.42	158.29	565.12	284.29	288.63	2748.11	3018.25	1858.42	315.96	14.88	10.42	2.52	9325.31 Tonday
Mean	2.01	5.11	18.84	9.17	9.31	91.60	97.36	61.95	10.19	0.48	0.37	0.08	306.48 Ton/day
Max	2.24	75.19	146.59	65.36	59.50	452.44	226.48	85.28	55.89	0.57	0.38	0.35	452.44 Ton/day
Min	2.01	0.28	2.01	0.20	0.24	4.59	63.89	54.47	0.02	0.40	0.35	0.01	0.01 Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at Ban Sam Ruean.

Ban Sam Ruean **Amphoe** Khlong Khlung **Changwat** Kamphaeng Phet

Drainge Area	1,119 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	12
R-Square	0.9663
Remarks	Continued Sediment Station

$QS = 9.8696\ QW^{1.13490}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

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	1028.68	131.58	315.87	0.00	0.00	0.00	0.00	1476.13	
2	0.00	0.00	0.00	84.01	18.02	777.80	139.23	406.91	0.00	0.00	0.00	0.00	1425.98	
3	0.00	0.00	0.00	127.02	9.87	398.21	297.34	240.94	0.00	0.00	0.00	0.00	1073.38	
4	0.00	0.00	0.00	128.54	38.26	211.69	732.79	267.31	0.00	0.00	0.00	0.00	1378.59	
5	0.00	0.00	0.00	84.01	339.65	104.51	1028.68	159.33	0.00	0.00	0.00	0.00	1716.19	
6	0.00	0.00	0.00	58.53	159.33	79.69	2443.62	92.73	0.00	0.00	0.00	0.00	2833.91	
7	0.00	0.00	0.00	84.01	139.23	59.92	2868.26	88.36	0.00	0.00	0.00	0.00	3239.78	
8	0.00	0.00	0.00	55.77	113.45	263.99	2112.18	110.46	0.00	0.00	0.00	0.00	2655.86	
9	0.00	0.00	0.00	34.34	101.55	1177.77	1044.26	273.95	0.00	0.00	0.00	0.00	2631.87	
10	0.00	0.00	0.00	26.65	101.55	1122.57	512.97	240.94	0.00	0.00	0.00	0.00	2004.69	
11	0.00	0.00	0.00	25.40	12.14	652.97	297.34	372.24	0.00	0.00	0.00	0.00	1360.08	
12	0.00	0.00	0.00	18.02	47.59	504.02	1249.21	454.27	0.00	0.00	0.00	0.00	2273.12	
13	0.00	0.00	0.00	1.59	40.90	319.26	1991.78	198.84	0.00	0.00	0.00	0.00	2552.37	
14	0.00	0.00	0.00	0.00	27.92	189.27	1425.85	182.91	0.00	0.00	0.00	0.00	1825.94	
15	0.00	0.00	0.00	12.14	29.19	293.98	486.19	107.48	0.00	0.00	0.00	0.00	928.98	
16	0.00	0.00	0.00	31.75	27.92	424.38	538.12	92.73	0.00	0.00	0.00	0.00	1114.90	
17	0.00	0.00	0.00	18.02	13.29	221.39	1826.35	94.20	0.00	0.00	0.00	0.00	2173.26	
18	0.00	0.00	0.00	8.76	15.64	156.22	2828.73	85.46	0.00	0.00	0.00	0.00	3094.80	
19	0.00	0.00	0.00	9.87	13.29	189.27	1036.46	69.72	0.00	0.00	0.00	0.00	1318.61	
20	0.00	0.00	0.00	81.13	11.00	372.24	438.42	88.36	0.00	0.00	0.00	0.00	991.14	
21	0.00	0.00	0.00	131.58	1.59	2284.67	346.48	35.64	0.00	0.00	0.00	0.00	2799.96	
22	0.00	0.00	0.00	386.06	31.75	3137.87	221.39	55.77	0.00	0.00	0.00	0.00	3832.84	
23	0.00	0.00	0.00	652.97	231.14	2076.18	221.39	38.26	18.02	0.00	0.00	0.00	3237.97	
24	0.00	0.00	0.00	424.38	164.02	1442.04	160.89	25.40	13.29	0.00	0.00	0.00	2230.02	
25	0.00	0.00	0.00	288.96	173.44	1075.50	146.92	35.64	8.76	0.00	0.00	0.00	1729.21	
26	0.00	0.00	0.00	521.94	255.73	951.21	224.64	48.94	5.53	0.00	0.00	0.00	2007.98	
27	0.00	0.00	0.00	495.09	441.94	1586.68	512.97	40.90	3.49	0.00	0.00	0.00	3081.07	
28	0.00	0.00	18.02	65.50	641.92	1067.68	1321.13	36.94	1.59	0.00	0.00	0.00	3152.78	
29	0.00	0.00	2.52	19.23	512.97	504.02	903.16	26.65	1.59	0.00		0.00	1970.14	
30	0.00	0.00	0.00	9.87	844.00	234.41	712.27	25.40	1.59	0.00		0.00	1827.53	
31		0.00		0.00	1036.46		355.04		1.59	0.00		0.00	1393.10	
Total	0.00	0.00	20.54	3885.15	5594.75	22908.08	28555.64	4312.59	55.44	0.00	0.00	0.00	65332.18	Tonday
Mean	0.00	0.00	0.68	125.33	180.48	763.60	921.15	143.75	1.79	0.00	0.00	0.00	2136.78	Ton/day
Max	0.00	0.00	18.02	652.97	1036.46	3137.87	2868.26	454.27	18.02	0.00	0.00	0.00	3137.87	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	59.92	131.58	25.40	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Mae Wan **Amphoe** Doi Saket **Changwat** Chiang Mai

Drainge Area	136 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.4760
Remarks	Continued Sediment Station

$$QS = 130.2000\ QW^{2.56400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.72	10.17	117.26	721.54	470.15	587.66	143.97	73.47	19.83	10.17	8.19	3.72	2169.88	
2	3.72	4.98	117.26	721.54	470.15	368.22	117.26	41.46	19.83	10.17	8.19	3.72	1886.52	
3	3.72	4.98	117.26	721.54	470.15	281.05	117.26	73.47	12.42	8.19	8.19	3.72	1821.97	
4	3.72	3.72	721.54	721.54	470.15	281.05	174.10	73.47	12.42	8.19	8.19	3.72	2481.84	
5	3.72	4.98	1041.37	470.15	2368.44	281.05	174.10	73.47	8.19	8.19	8.19	3.72	4445.59	
6	3.72	4.98	2780.23	587.66	872.53	281.05	207.79	56.08	8.19	8.19	8.19	3.72	4822.35	
7	3.72	4.98	1661.99	1041.37	1041.37	207.79	207.79	12.42	10.17	8.19	8.19	3.72	4211.73	
8	3.72	4.98	368.22	3728.04	872.53	2368.44	174.10	12.42	12.42	8.19	8.19	2.68	7563.95	
9	3.72	4.98	587.66	1996.18	587.66	3232.97	117.26	29.44	12.42	8.19	8.19	2.68	6591.37	
10	3.72	4.98	587.66	2368.44	470.15	4266.78	56.08	117.26	10.17	8.19	8.19	2.68	7904.32	
11	3.72	3.72	470.15	1661.99	281.05	281.05	93.81	470.15	10.17	10.17	8.19	2.68	3296.88	
12	3.72	3.72	470.15	1228.78	368.22	3728.04	174.10	4266.78	10.17	12.42	8.19	2.68	10276.99	
13	3.72	3.72	721.54	1041.37	281.05	4850.53	207.79	1041.37	10.17	12.42	8.19	2.68	8184.58	
14	3.72	3.72	872.53	721.54	368.22	1996.18	117.26	587.66	10.17	12.42	8.19	2.68	4704.32	
15	3.72	3.72	1041.37	721.54	587.66	9098.64	93.81	207.79	10.17	12.42	8.19	2.68	11791.74	
16	3.72	3.72	872.53	721.54	721.54	3232.97	73.47	143.97	10.17	12.42	8.19	2.68	5806.94	
17	3.72	2780.23	721.54	587.66	721.54	1996.18	73.47	117.26	10.17	12.42	8.19	2.68	7035.08	
18	3.72	93.81	470.15	368.22	368.22	16376.96	73.47	93.81	10.17	12.42	8.19	2.68	17881.85	
19	3.72	41.46	368.22	368.22	368.22	1228.78	56.08	93.81	10.17	12.42	8.19	2.68	2561.99	
20	3.72	41.46	281.05	281.05	3728.04	721.54	29.44	73.47	10.17	12.42	8.19	2.68	5193.25	
21	3.72	56.08	281.05	587.66	3232.97	470.15	41.46	73.47	10.17	12.42	8.19	2.68	4780.05	
22	3.72	56.08	207.79	872.53	1041.37	281.05	19.83	56.08	10.17	12.42	8.19	2.68	2571.94	
23	3.72	41.46	281.05	1435.42	1435.42	207.79	12.42	56.08	10.17	12.42	8.19	2.68	3506.86	
24	3.72	41.46	470.15	721.54	1228.78	207.79	29.44	56.08	10.17	12.42	8.19	2.68	2792.44	
25	3.72	41.46	587.66	721.54	1228.78	174.10	117.26	56.08	10.17	12.42	8.19	2.68	2964.08	
26	3.72	41.46	721.54	1041.37	2368.44	207.79	73.47	56.08	10.17	8.19	8.19	2.68	4543.13	
27	3.72	41.46	2368.44	1041.37	872.53	207.79	73.47	41.46	10.17	10.17	8.19	2.68	4681.48	
28	3.72	41.46	872.53	721.54	1041.37	143.97	117.26	19.83	10.17	10.17	8.19	2.68	2992.92	
29	3.72	56.08	872.53	872.53	1661.99	174.10	174.10	19.83	10.17	10.17		2.68	3857.92	
30	6.46	281.05	721.54	1041.37	1435.42	207.79	93.81	19.83	10.17	10.17		2.68	3830.32	
31		1041.37		721.54	1041.37		93.81		10.17	10.17		2.68	2921.13	
Total	114.44	4772.48	21774.01	30558.35	32475.53	57949.28	3328.82	8113.93	339.74	329.06	229.34	90.45	160075.42	Tonday
Mean	3.81	153.95	725.80	985.75	1047.60	1931.64	107.38	270.46	10.96	10.61	8.19	2.92	5259.09	Ton/day
Max	6.46	2780.23	2780.23	3728.04	3728.04	16376.96	207.79	4266.78	19.83	12.42	8.19	3.72	16376.96	Ton/day
Min	3.72	3.72	117.26	281.05	281.05	143.97	12.42	12.42	8.19	8.19	8.19	2.68	2.68	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

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

Location : on left bank at the bridge on road.

Ban Pong Din **Amphoe** Doi Saket **Changwat** Chiang Mai

Drainge Area	129 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.8030
Remarks	Continued Sediment Station

$$QS = 2.0820\ QW^{1.52900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	0.09	2.28	8.76	10.05	5.29	6.38	5.83	2.89	1.21	0.83	0.18	44.04	
2	0.33	0.09	1.99	9.40	6.95	5.83	6.38	6.38	2.58	1.08	0.83	0.18	42.01	
3	0.33	0.09	1.21	10.05	6.95	4.27	6.95	5.83	2.58	0.95	0.83	0.18	40.22	
4	0.33	0.09	1.21	8.76	6.95	4.27	13.77	5.83	2.58	0.95	0.83	0.18	45.75	
5	0.33	0.09	1.21	6.95	6.95	4.27	15.77	5.83	2.58	0.95	0.83	0.18	45.95	
6	0.33	0.09	1.45	5.83	6.95	3.91	23.94	5.29	2.58	0.95	0.83	0.18	52.34	
7	0.25	0.09	1.21	3.91	6.95	3.56	26.66	3.91	2.58	0.95	0.83	0.25	51.16	
8	0.25	0.09	1.21	3.22	5.83	5.83	26.66	3.56	2.58	0.83	0.83	0.51	51.40	
9	0.25	0.09	1.21	2.89	3.91	43.87	22.62	4.27	2.58	0.83	0.83	0.51	83.87	
10	0.25	0.09	1.21	7.54	3.22	9.40	9.40	4.27	2.28	0.83	0.83	0.51	39.84	
11	0.25	0.09	1.21	5.83	3.56	8.14	7.54	4.77	1.99	0.83	0.83	0.51	35.56	
12	0.25	0.09	1.21	4.77	3.56	144.40	140.29	6.38	1.71	0.83	0.72	0.51	304.73	
13	0.25	0.07	1.21	6.38	3.56	37.11	21.33	7.54	1.71	0.72	0.61	0.51	81.01	
14	0.25	0.07	3.22	6.95	3.56	18.95	10.05	7.54	2.28	0.72	0.61	0.51	54.72	
15	0.25	0.07	1.45	6.95	2.89	17.87	10.05	6.95	2.58	0.61	0.61	0.51	50.81	
16	0.25	0.07	1.21	5.83	2.89	17.87	9.40	6.95	2.58	0.61	0.61	0.51	48.79	
17	0.25	0.09	1.21	5.83	2.89	16.81	7.54	6.95	2.58	0.42	0.61	0.51	45.69	
18	0.18	2.89	1.21	6.95	2.89	77.61	7.54	5.83	2.58	0.18	0.61	0.51	108.98	
19	0.18	0.72	1.21	6.95	3.22	21.33	6.95	5.83	2.58	0.18	0.61	0.51	50.26	
20	0.18	0.61	1.21	6.95	5.83	13.77	6.95	5.83	2.58	0.18	0.51	0.51	45.10	
21	0.14	0.72	1.08	6.95	3.56	10.94	6.95	4.77	2.58	0.18	0.51	0.51	38.89	
22	0.09	0.83	0.95	12.80	3.22	9.40	6.38	3.56	2.58	0.18	0.51	0.51	41.02	
23	0.09	0.95	0.95	9.40	3.22	8.14	5.29	3.56	2.58	0.18	0.51	0.51	35.39	
24	0.09	0.61	0.95	8.14	2.89	8.14	4.27	3.56	2.58	0.18	0.51	0.51	32.45	
25	0.09	0.61	1.08	6.95	3.22	7.54	9.40	3.56	2.58	0.18	0.51	0.51	36.23	
26	0.09	0.61	1.08	4.27	4.77	9.40	14.76	3.56	2.28	0.51	0.51	0.51	42.36	
27	0.09	0.61	2.28	3.56	10.05	8.14	6.38	3.22	1.71	0.83	0.51	0.51	37.91	
28	0.09	0.61	8.76	3.91	7.54	7.54	4.77	2.89	1.71	0.83	0.51	0.51	39.69	
29	0.09	0.61	10.05	40.44	13.77	6.95	6.38	2.89	1.45	0.83		0.51	83.99	
30	0.09	0.83	10.05	13.77	7.54	6.95	5.29	2.89	1.21	0.83		0.51	49.97	
31		2.28		12.80	6.95		5.29		1.21	0.83		0.51	29.87	
Total	6.15	15.01	65.72	253.69	166.29	547.52	461.33	150.01	71.41	20.42	18.82	13.63	1790.01	Tonday
Mean	0.21	0.48	2.19	8.18	5.36	18.25	14.88	5.00	2.30	0.66	0.67	0.44	58.63	Ton/day
Max	0.33	2.89	10.05	40.44	13.77	144.40	140.29	7.54	2.89	1.21	0.83	0.51	144.40	Ton/day
Min	0.09	0.07	0.95	2.89	2.89	3.56	4.27	2.89	1.21	0.18	0.51	0.18	0.07	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

Lat 18 - 39 - 06 N Long 98 - 41 - 23 E

Location : on left bank at Ban Sop Win.

Ban Sop Win **Amphoe** Mae Wang **Changwat** Chiang Mai

Drainge Area	389 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.6480
Remarks	Continued Sediment Station

$$QS = 2.9600\ QW^{1.28700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.85	1.47	15.67	61.56	23.73	17.51	28.24	26.31	22.05	14.46	11.14	1.87	224.85	
2	0.74	0.97	4.15	29.38	20.39	17.51	56.88	35.02	21.22	14.46	10.63	1.87	213.22	
3	0.74	0.55	3.19	26.31	18.77	15.67	56.88	32.79	19.58	14.46	10.63	1.87	201.42	
4	0.74	0.47	3.90	18.77	27.18	13.87	42.18	30.47	18.77	15.67	10.63	1.87	184.51	
5	0.74	0.40	45.80	13.28	56.88	12.70	42.18	26.31	18.77	16.89	10.63	1.80	246.36	
6	0.74	0.40	22.05	12.17	33.90	13.28	36.22	22.89	18.77	17.51	10.63	1.67	190.22	
7	0.74	0.40	9.13	22.05	23.73	15.67	32.79	22.89	18.77	18.14	10.63	1.73	176.66	
8	0.74	0.40	4.15	71.16	26.31	69.54	27.18	42.18	18.77	17.51	10.12	1.73	289.78	
9	0.74	0.40	3.19	27.18	24.58	52.28	24.58	106.47	18.14	16.28	10.12	1.73	285.70	
10	0.74	0.47	2.51	16.89	16.89	25.44	23.73	69.54	18.14	15.06	9.63	1.67	200.70	
11	0.74	0.63	2.73	13.87	13.87	44.54	28.24	84.66	18.14	26.31	9.13	1.67	244.52	
12	0.74	0.63	6.22	14.46	12.70	261.99	29.38	88.54	17.51	23.73	9.13	1.67	466.70	
13	0.74	0.63	3.42	12.17	12.17	160.16	24.58	61.56	17.51	18.77	9.13	1.67	322.51	
14	0.74	0.63	3.19	11.65	12.17	268.84	22.89	48.27	16.89	16.28	9.13	1.60	412.28	
15	0.74	0.55	2.96	11.14	12.70	112.61	19.58	40.95	16.28	15.67	9.13	1.53	243.82	
16	0.74	0.55	2.96	10.12	12.70	69.54	21.22	37.35	15.67	15.67	9.13	1.53	197.18	
17	0.55	0.55	8.17	10.12	12.70	53.80	48.27	32.79	21.22	15.67	9.13	1.47	214.43	
18	0.55	0.74	42.18	8.65	12.70	245.04	38.57	29.38	21.22	15.67	9.13	1.47	425.28	
19	0.55	0.85	15.06	6.95	12.70	135.12	24.58	27.18	19.58	15.67	9.13	1.47	268.82	
20	0.55	0.85	4.15	8.65	15.06	125.37	21.22	27.18	18.77	15.67	9.13	1.47	248.06	
21	0.55	0.85	2.96	15.06	21.22	120.91	22.05	26.31	17.51	15.06	9.13	1.47	253.08	
22	0.55	0.97	2.51	32.79	15.06	74.43	26.31	26.31	16.28	13.87	9.13	1.47	219.67	
23	0.55	0.97	2.08	98.41	44.54	76.07	23.73	25.44	16.28	13.28	8.17	1.40	310.92	
24	0.55	0.97	2.08	32.79	15.06	84.66	23.73	24.58	15.67	12.70	8.17	1.40	222.36	
25	0.55	0.85	3.19	35.02	23.73	155.17	53.80	24.58	15.67	12.70	8.17	1.40	334.83	
26	0.55	0.85	5.51	22.89	19.58	94.44	81.06	24.58	15.67	12.17	7.69	1.40	286.38	
27	0.55	0.74	6.58	29.38	16.89	63.14	33.90	24.58	15.67	12.17	0.68	1.40	205.69	
28	0.55	0.74	5.51	47.06	27.18	47.06	29.38	23.73	15.06	12.17	1.87	1.40	211.72	
29	0.55	0.74	27.18	26.31	27.18	40.95	31.63	22.89	15.06	12.17		1.40	206.04	
30	0.63	1.09	258.58	20.39	22.89	30.47	28.24	22.05	13.87	12.17		1.53	411.91	
31		2.08		40.95	19.58		25.44		14.46	12.17		1.47	116.14	
Total	19.69	23.37	520.95	807.58	654.71	2517.75	1028.66	1137.78	546.91	480.15	249.12	49.12	8035.79	Tonday
Mean	0.66	0.75	17.37	26.05	21.12	83.93	33.18	37.93	17.64	15.49	8.90	1.58	264.59	Ton/day
Max	0.85	2.08	258.58	98.41	56.88	268.84	81.06	106.47	22.05	26.31	11.14	1.87	268.84	Ton/day
Min	0.55	0.40	2.08	6.95	12.17	12.70	19.58	22.05	13.87	12.17	0.68	1.40	0.40	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

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

Lat 18 - 35 - 19 N Long 98 - 47 - 58 E

Location : on left bank at Ban Phan Ton.

Ban Phan Ton **Amphoe** Mae Wang **Changwat** Chiang Mai

Drainge Area	491 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	32
R-Square	0.8680
Remarks	Continued Sediment Station

$$QS = 7.6620\ QW^{1.39600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.49	0.23	0.70	180.13	29.71	0.49	77.57	7.03	0.44	0.15	0.12	0.06	297.12	
2	0.49	0.19	3.08	96.74	2.44	0.35	125.25	60.62	0.31	0.19	0.12	0.06	289.82	
3	0.49	0.19	3.41	81.31	2.75	0.31	186.19	57.56	0.40	46.88	0.06	0.06	379.59	
4	0.49	0.19	3.41	66.86	57.56	0.35	115.90	3.76	0.75	0.31	0.06	0.06	249.70	
5	0.49	0.19	174.66	46.88	122.90	0.35	115.90	53.07	0.70	0.35	0.06	0.06	515.60	
6	0.44	0.19	40.91	10.81	75.72	0.31	60.62	3.76	0.54	0.49	0.06	0.06	193.91	
7	0.54	0.19	60.62	66.86	19.60	0.44	59.09	1.84	0.54	0.59	0.06	0.06	210.43	
8	0.59	0.19	1.05	142.83	10.81	56.05	19.60	2.44	0.49	0.49	0.06	0.09	234.69	
9	0.49	0.19	0.54	68.45	53.07	66.86	3.08	228.69	0.23	0.40	0.06	0.06	422.10	
10	0.49	0.19	0.49	3.76	2.13	3.41	2.44	210.68	0.23	0.27	0.06	0.06	224.19	
11	0.49	0.19	0.49	2.75	1.56	3.08	15.03	243.40	0.31	0.31	0.09	0.06	267.74	
12	0.49	0.19	0.49	1.30	0.81	669.26	62.16	258.65	0.27	3.08	0.09	0.09	996.86	
13	0.49	0.19	0.49	0.75	0.75	438.26	7.03	150.49	0.23	0.35	0.09	0.09	599.21	
14	0.49	0.19	0.49	0.75	0.75	662.43	3.76	104.74	0.19	0.31	0.09	0.09	774.27	
15	0.49	0.19	0.49	0.54	0.70	310.82	2.13	65.28	0.19	0.27	0.09	0.09	381.27	
16	0.49	0.19	0.49	0.49	0.44	168.97	2.75	57.56	0.23	0.23	0.09	0.09	232.01	
17	0.49	0.19	0.49	0.59	0.35	140.14	207.13	59.09	0.31	0.15	0.09	0.09	409.10	
18	0.49	0.19	0.49	0.59	0.35	463.75	100.72	56.05	0.27	0.12	0.06	0.09	623.16	
19	0.49	0.19	0.49	0.40	0.40	474.06	7.03	35.18	0.23	0.12	0.06	0.09	518.72	
20	0.49	0.19	0.49	0.49	0.59	286.34	1.56	7.03	0.19	0.12	0.06	0.06	297.60	
21	0.49	0.19	0.49	29.71	0.75	364.33	0.81	2.13	0.19	0.12	0.06	0.06	399.33	
22	0.49	0.19	0.49	72.06	0.70	186.19	1.05	10.81	0.19	0.12	0.06	0.06	272.39	
23	0.49	0.19	0.49	177.26	46.88	203.59	1.84	10.81	0.19	0.12	0.03	0.06	441.95	
24	0.44	0.19	0.59	63.72	73.88	137.47	2.44	2.13	0.19	0.12	0.03	0.06	281.25	
25	0.31	0.19	0.70	79.43	0.75	468.89	10.81	3.08	0.19	0.12	0.03	0.06	564.56	
26	0.19	0.19	0.54	7.03	1.56	319.11	104.74	1.84	0.19	0.12	0.03	0.06	435.59	
27	0.15	0.19	0.49	10.81	0.81	180.13	59.09	1.84	0.19	0.12	0.06	0.09	253.96	
28	0.31	0.19	3.08	142.83	1.30	125.25	40.91	0.54	0.19	0.12	0.06	0.06	314.83	
29	0.23	0.19	174.66	75.72	70.25	109.03	24.51	1.56	0.12	0.12		0.01	456.38	
30	0.27	0.19	643.18	15.03	56.05	96.74	19.60	0.54	0.15	0.12		0.01	831.88	
31		0.19		68.45	15.03		10.81		0.15	0.12		0.01	94.75	
Total	13.32	5.84	1118.50	1515.33	651.36	5936.76	1451.53	1702.20	8.93	56.44	1.82	1.93	12463.96	Tonday
Mean	0.44	0.19	37.28	48.88	21.01	197.89	46.82	56.74	0.29	1.82	0.07	0.06	411.50	Ton/day
Max	0.59	0.23	643.18	180.13	122.90	669.26	207.13	258.65	0.75	46.88	0.12	0.09	669.26	Ton/day
Min	0.15	0.19	0.49	0.40	0.35	0.31	0.81	0.54	0.12	0.12	0.03	0.01	0.01	Ton/day

WATER YEAR : 2016

PING RIVER BASIN

Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Mueang Kud.

Ban Mueang Kud **Amphoe** Mae Taeng **Changwat** Chiang Mai

Drainge Area	1,653 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2016
Number of observation	34
R-Square	0.8860
Remarks	Continued Sediment Station

$$QS = 0.5040\ QW^{2.30500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	0.87	84.78	600.27	1474.58	1942.30	888.02	631.46	154.86	62.59	19.19	19.19	5878.28	
2	0.16	0.87	459.20	433.21	930.97	1588.87	806.30	541.15	132.09	62.59	19.19	19.19	4993.80	
3	0.16	0.87	179.70	433.21	3736.49	1365.10	1210.25	485.48	154.86	62.59	19.19	19.19	7667.10	
4	0.16	0.87	167.02	360.81	2108.03	1260.37	930.97	459.20	143.22	62.59	19.19	19.19	5531.63	
5	0.16	1.93	167.02	192.91	12965.65	1260.37	695.85	433.21	132.09	433.21	19.19	19.19	16320.79	
6	0.16	1.93	1160.35	84.78	11631.40	1260.37	384.28	384.28	121.47	192.91	19.19	19.19	15260.32	
7	0.16	1.93	276.04	276.04	2651.87	1160.35	888.02	276.04	111.35	154.86	16.82	12.59	5826.07	
8	0.16	1.93	179.70	6084.77	1312.64	1112.55	1588.87	360.81	84.78	154.86	12.59	5.15	10898.82	
9	0.16	1.93	33.80	2462.74	930.97	1531.66	1160.35	220.93	76.96	121.47	12.59	5.15	6558.71	
10	0.16	1.93	33.80	2848.97	433.21	2108.03	569.97	930.97	62.59	33.80	12.59	5.15	7041.17	
11	0.16	1.49	44.12	1588.87	317.27	2651.87	1064.99	31256.71	62.59	24.48	12.59	5.15	37030.29	
12	0.16	1.49	30.50	766.75	384.28	3054.11	1419.76	3159.72	62.59	62.59	12.59	5.15	8959.68	
13	0.16	1.49	30.50	459.20	4299.92	1942.30	2556.31	2556.31	62.59	62.59	12.59	5.15	11989.12	
14	0.16	1.49	27.40	338.64	662.88	1942.30	1160.35	2108.03	62.59	62.59	12.59	5.15	6384.17	
15	0.16	1.49	30.50	631.46	485.48	2848.97	974.23	1160.35	62.59	62.59	10.74	7.95	6276.53	
16	0.16	1.49	27.40	600.27	408.07	4154.86	729.02	1018.61	49.87	49.87	24.48	10.74	7074.84	
17	0.16	1.49	44.12	513.18	296.24	9172.90	600.27	541.15	62.59	30.50	24.48	10.74	11297.82	
18	0.16	3.01	1648.39	143.22	257.03	9172.90	433.21	408.07	132.09	27.40	24.48	10.74	12260.69	
19	0.16	238.40	1210.25	101.73	238.40	15594.04	338.64	338.64	84.78	27.40	24.48	10.74	18207.66	
20	0.16	192.91	238.40	111.35	7260.59	7948.11	317.27	276.04	76.96	27.40	24.48	9.05	16482.71	
21	0.24	27.40	238.40	485.48	7485.85	4752.11	296.24	257.03	76.96	27.40	21.74	9.05	13677.90	
22	0.87	19.19	9690.78	3488.79	2371.13	7948.11	276.04	238.40	101.73	27.40	21.74	9.05	24193.23	
23	0.87	19.19	2371.13	16806.35	2193.78	3488.79	485.48	220.93	93.04	27.40	21.74	9.05	25737.76	
24	0.87	27.40	513.18	1531.66	4752.11	1588.87	238.40	206.65	84.78	44.12	21.74	9.05	9018.84	
25	0.87	24.48	6264.54	257.03	2193.78	1531.66	154.86	206.65	76.96	56.03	19.19	9.05	10795.10	
26	0.87	14.62	2371.13	974.23	2462.74	2651.87	766.75	206.65	76.96	56.03	19.19	9.05	9610.08	
27	0.87	14.62	930.97	485.48	1419.76	1942.30	360.81	206.65	69.56	49.87	19.19	9.05	5509.15	
28	0.87	10.74	662.88	766.75	1708.01	1365.10	408.07	192.91	69.56	49.87	19.19	9.05	5262.99	
29	0.87	6.01	143.22	1588.87	4012.61	1312.64	600.27	206.65	62.59	38.77		9.05	7981.54	
30	0.87	24.48	179.70	631.46	11925.07	1708.01	1064.99	192.91	62.59	19.19		9.05	15818.32	
31		69.56		600.27	6821.71		695.85		62.59	19.19		9.05	8278.22	
Total	11.33	717.48	29438.94	46648.77	100132.55	101361.81	24064.75	49682.63	2730.83	2194.09	516.95	323.22	357823.33	Tonday
Mean	0.38	23.14	981.30	1504.80	3230.08	3378.73	776.28	1656.09	88.09	70.78	18.46	10.43	11738.56	Ton/day
Max	0.87	238.40	9690.78	16806.35	12965.65	15594.04	2556.31	31256.71	154.86	433.21	24.48	19.19	31256.71	Ton/day
Min	0.16	0.87	27.40	84.78	238.40	1112.55	154.86	192.91	49.87	19.19	10.74	5.15	0.16	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

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

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

Location : on left bank at the bridge.

Ban Setuwaree Bridge **Amphoe** Mueang **Changwat** Lampang

Drainge Area	3,478 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2013 - 2016
Number of observation	106
R-Square	0.7675
Remarks	Continued Sediment Station

$$QS = 1.1397\ QW^{1.48170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.64	0.02	10.69	8.56	1.88	54.49	288.89	140.57	12.96	0.16	3.23	1.68	526.78	
2	5.13	0.03	19.30	1.14	0.85	21.46	498.62	123.55	9.25	0.17	3.23	17.22	699.96	
3	6.21	0.04	17.22	0.32	2.08	2.50	824.55	113.69	6.77	0.15	3.23	14.56	991.31	
4	6.21	0.07	9.96	1.68	0.59	0.90	737.10	107.27	3.18	0.15	3.23	10.69	881.02	
5	1.88	0.19	5.66	6.77	2.95	0.62	601.80	91.75	1.31	0.10	3.86	6.21	723.10	
6	2.29	0.15	5.13	2.72	13.75	2.08	1158.05	6.77	1.14	0.06	3.23	3.18	1198.56	
7	2.95	0.06	9.96	4.62	18.25	17.22	1216.90	6.21	14.56	0.03	0.85	3.64	1295.25	
8	1.68	0.04	12.96	1.68	18.25	10.69	1513.20	14.56	41.41	0.03	14.56	7.36	1636.42	
9	0.99	0.03	7.95	3.64	23.68	9.96	656.23	43.33	78.17	0.03	11.43	4.62	840.07	
10	0.02	0.03	8.56	1.31	22.56	22.56	357.57	66.78	3.64	6.99	10.69	2.72	503.43	
11	0.76	0.02	7.95	1.14	9.25	12.96	684.02	64.26	0.62	12.23	6.21	1.49	800.91	
12	18.25	0.01	2.95	0.62	2.95	1.88	601.80	386.28	0.17	40.12	2.50	0.67	1058.19	
13	13.75	0.00	5.13	5.13	7.36	0.90	610.77	1151.64	0.15	19.26	0.76	0.85	1815.70	
14	7.36	0.00	2.29	6.77	28.83	140.57	769.45	1357.28	0.94	7.92	0.53	10.69	2332.63	
15	2.72	0.00	5.13	6.21	16.21	237.41	506.08	707.12	0.51	6.09	2.08	10.69	1500.26	
16	0.41	0.00	7.36	7.95	25.98	357.57	440.29	406.08	0.19	5.66	10.69	6.77	1268.95	
17	0.11	0.00	7.95	13.75	30.54	205.58	440.29	72.24	0.12	5.24	4.62	9.96	790.41	
18	0.07	0.00	7.95	12.96	1.31	201.12	175.28	35.84	0.06	4.88	1.68	18.25	459.40	
19	0.09	0.00	5.13	2.95	0.15	835.63	97.86	84.26	0.04	5.66	0.48	14.56	1046.81	
20	0.08	0.01	0.94	2.50	0.15	715.60	64.57	150.62	0.11	7.92	0.59	8.56	951.66	
21	0.08	0.01	1.88	20.37	0.15	903.56	51.32	162.50	1.88	7.45	9.25	5.66	1164.10	
22	0.09	0.01	1.49	27.16	0.34	491.20	35.84	168.55	0.85	7.45	5.66	4.62	743.26	
23	0.08	0.01	13.75	30.54	23.68	307.15	27.92	156.52	0.48	7.45	7.95	3.18	578.72	
24	0.04	0.01	7.36	20.37	27.16	130.27	27.92	140.08	0.46	6.99	20.37	2.29	383.31	
25	0.04	0.01	5.66	21.46	21.46	107.27	45.05	21.46	0.27	6.54	10.69	1.68	241.57	
26	0.04	0.02	6.77	20.37	32.27	188.10	523.08	0.19	0.21	5.66	4.12	0.76	781.60	
27	0.03	0.04	3.18	9.25	78.17	447.45	813.37	0.03	1.14	5.24	3.18	0.99	1362.09	
28	0.01	0.08	9.25	6.21	34.04	584.00	412.02	0.08	0.53	3.86	2.08	0.48	1052.65	
29	0.01	0.10	6.77	7.36	4.12	192.46	162.84	12.96	0.38	3.54		5.66	396.22	
30	0.04	0.12	8.56	1.31	2.08	140.57	201.12	16.21	0.19	3.54		8.56	382.30	
31		0.99		0.99	34.04		188.10		0.15	3.23		6.77	234.27	
Total	75.06	2.10	224.87	257.82	485.09	6343.73	14731.90	5808.68	181.87	183.78	150.99	195.03	28640.92	Tonday
Mean	2.50	0.07	7.50	8.32	15.65	211.46	475.22	193.62	5.87	5.93	5.39	6.29	937.81	Ton/day
Max	18.25	0.99	19.30	30.54	78.17	903.56	1513.20	1357.28	78.17	40.12	20.37	18.25	1513.20	Ton/day
Min	0.01	0.00	0.94	0.32	0.15	0.62	27.92	0.03	0.04	0.03	0.48	0.48	0.00	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

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

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

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

Ban Don Chai **Amphoe** Thoen **Changwat** Lampang

Drainge Area	8,924 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.9420
Remarks	Continued Sediment Station

$$QS = 1.7360\ QW^{1.28000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.54	12.55	3.07	3.07	30.14	365.65	718.31	718.31	45.37	11.77	11.77	7.20	1927.74	
2	0.44	3.37	3.07	2.77	48.06	474.84	1462.39	554.70	45.37	11.77	10.24	6.25	2623.27	
3	0.44	1.83	4.32	3.37	30.14	563.74	892.29	450.33	39.12	17.46	9.20	6.72	2018.97	
4	0.39	1.14	3.07	2.77	27.68	380.76	1916.98	380.76	36.07	17.46	8.69	6.25	2782.01	
5	0.39	1.14	10.24	2.77	34.57	221.15	2419.35	328.48	36.07	31.60	7.20	5.78	3098.74	
6	0.29	1.30	36.07	2.01	43.79	164.78	2380.44	288.47	33.08	25.26	7.20	9.72	2992.41	
7	0.25	3.07	22.89	3.07	53.65	102.04	2969.51	269.77	27.68	34.57	8.69	14.15	3509.32	
8	0.25	3.07	43.79	15.78	37.59	80.02	2576.35	275.95	21.72	36.07	9.20	14.96	3114.76	
9	0.21	2.77	28.91	37.59	59.31	65.05	2226.19	288.47	34.57	30.14	7.20	15.78	2796.18	
10	0.21	2.19	20.57	48.06	62.16	56.44	1385.25	301.10	109.30	26.46	6.72	11.77	2030.25	
11	0.17	2.19	15.78	39.12	56.44	50.84	813.00	343.24	77.00	25.26	7.20	12.55	1442.80	
12	0.17	2.01	14.15	65.05	45.37	121.65	867.99	301.10	34.57	34.57	7.69	9.20	1503.51	
13	0.13	1.65	9.72	92.44	37.59	646.48	1028.49	572.81	27.68	209.41	9.72	8.69	2644.81	
14	0.13	0.98	7.20	83.11	36.07	2576.35	1201.19	1066.36	25.26	221.15	8.69	7.20	5233.70	
15	0.13	0.83	6.25	39.12	40.66	5252.91	1041.08	966.06	25.26	125.83	10.24	7.20	7515.57	
16	0.09	0.68	6.25	27.68	56.44	3973.97	781.15	687.32	18.31	80.02	10.24	6.72	5648.87	
17	0.09	0.68	4.99	26.46	77.00	3147.30	749.58	554.70	8.69	62.16	8.19	6.25	4646.10	
18	0.09	0.39	4.32	24.07	121.65	2093.11	1091.77	335.84	14.96	45.37	10.24	6.72	3748.54	
19	0.08	4.32	4.32	19.43	125.83	2438.85	802.35	197.69	14.15	36.07	10.24	7.20	3660.56	
20	0.07	3.07	7.69	10.24	92.44	3693.77	518.87	191.95	13.34	37.59	9.72	10.24	4588.99	
21	0.07	1.47	3.37	251.28	68.01	2775.59	350.68	321.15	11.77	31.60	9.20	10.24	3834.43	
22	0.05	0.83	2.77	24.07	56.44	2187.99	294.74	301.10	11.77	24.07	9.20	9.72	2922.73	
23	0.03	0.68	2.48	13.34	59.31	1462.39	233.09	313.86	11.00	21.72	9.20	9.20	2136.30	
24	0.02	0.68	3.07	14.96	147.19	1066.36	173.74	307.50	11.77	22.89	9.20	8.19	1765.56	
25	0.02	0.54	4.99	27.68	92.44	916.74	155.93	288.47	13.34	21.72	7.20	7.69	1536.76	
26	0.03	1.30	6.25	27.68	102.04	2168.94	221.15	257.37	18.31	21.72	5.78	7.69	2838.26	
27	0.06	2.77	3.07	30.14	151.55	2074.25	916.74	197.69	24.07	18.31	6.25	8.19	3433.08	
28	0.05	2.48	2.77	33.08	335.84	1866.19	1271.30	138.56	18.31	16.62	9.20	12.55	3706.95	
29	1.14	2.01	3.07	27.68	563.74	1370.89	1815.71	65.05	11.77	15.78		24.07	3900.90	
30	0.83	7.20	3.07	130.05	591.05	834.39	1416.00	50.84	11.00	13.34		14.96	3072.71	
31		4.65		42.22	492.35		990.93		11.77	12.55		9.72	1564.18	
Total	6.81	73.83	291.56	1170.15	3776.55	43193.42	35682.52	11315.01	842.43	1340.34	243.53	302.79	98238.94	Tonday
Mean	0.23	2.38	9.72	37.75	121.82	1439.78	1151.05	377.17	27.18	43.24	8.70	9.77	3228.77	Ton/day
Max	1.14	12.55	43.79	251.28	591.05	5252.91	2969.51	1066.36	109.30	221.15	11.77	24.07	5252.91	Ton/day
Min	0.02	0.39	2.48	2.01	27.68	50.84	155.93	50.84	8.69	11.77	5.78	5.78	0.02	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

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

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

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

Ban Wang Man **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	10,439 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1989-Cont'd
Actual Measurement	1989-Cont'd
Using Rating Curve Water Year	2016
Number of observation	12
R-Square	0.8504
Remarks	Continued Sediment Station

$$QS = 2.4892\ QW^{1.38230}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	152.93	789.61	1922.91	2173.96	210.67	17.98	19.54	21.14	5308.74	
2	0.00	0.00	0.00	0.00	113.27	502.32	1459.66	1680.62	192.12	17.98	19.54	22.77	4008.27	
3	0.00	0.00	0.00	0.00	110.41	681.78	1399.83	1224.61	183.02	17.98	17.98	17.98	3653.59	
4	0.00	0.00	0.00	0.00	81.27	833.95	2245.94	1058.82	174.05	17.98	17.98	17.98	4447.96	
5	0.00	0.00	0.00	0.00	51.42	649.50	4484.72	910.47	165.20	17.98	17.98	17.98	6315.25	
6	0.00	0.00	0.00	0.00	46.24	416.41	5131.59	789.61	156.49	17.98	17.98	17.98	6594.27	
7	0.00	0.00	0.00	0.00	57.23	300.31	5337.16	689.92	174.05	24.44	17.98	17.98	6619.06	
8	0.00	0.00	0.00	0.00	96.43	244.25	6421.67	673.67	37.54	43.79	35.51	35.51	7588.36	
9	0.00	0.00	0.00	0.00	86.18	196.71	5825.38	657.53	58.05	58.05	39.59	39.59	6961.08	
10	0.00	0.00	50.31	0.00	67.28	156.49	4883.40	681.78	55.43	55.43	37.54	39.59	6027.24	
11	0.00	0.00	35.51	0.00	78.84	149.39	3181.15	1079.06	192.12	52.85	24.44	37.54	4830.91	
12	0.00	0.00	58.05	0.00	88.66	142.39	1975.05	988.82	0.00	45.94	17.98	31.56	3348.44	
13	0.00	0.00	5.96	13.51	81.27	169.61	1988.15	891.17	99.37	50.31	17.98	26.14	3343.45	
14	0.00	0.00	0.00	63.37	74.05	806.59	2187.41	2014.41	66.08	0.00	21.14	17.98	5251.03	
15	0.00	0.00	0.00	71.60	67.28	3579.55	2405.63	2014.41	55.43	0.00	29.63	17.98	8241.51	
16	0.00	0.00	0.00	45.94	65.23	7370.50	2147.14	1858.28	55.43	0.00	26.14	17.98	11586.63	
17	0.00	0.00	0.00	29.63	69.34	6373.38	1781.53	1447.64	37.54	0.00	26.14	17.98	9783.17	
18	0.00	0.00	0.00	4.36	99.18	5337.16	1668.12	1181.83	24.44	139.45	24.44	17.98	8496.96	
19	0.00	0.00	0.00	0.83	95.58	4159.79	2120.41	798.09	19.54	103.21	17.98	17.98	7333.39	
20	0.00	0.00	0.00	0.83	183.02	4572.50	1630.78	578.48	21.14	80.82	21.14	17.98	7106.68	
21	0.00	0.00	0.00	0.00	156.49	6205.16	1161.07	570.73	19.54	80.82	19.54	17.98	8231.32	
22	0.00	0.00	22.77	45.94	103.21	5452.33	862.43	665.59	17.98	60.69	17.98	17.98	7266.88	
23	0.00	0.00	3.20	71.60	71.60	4375.66	714.49	673.67	17.98	52.85	17.98	43.79	6042.83	
24	0.00	0.00	0.00	12.48	58.05	3032.86	594.07	673.67	17.98	33.52	17.98	68.83	4509.42	
25	0.00	0.00	0.00	23.54	107.08	2133.76	494.87	641.50	17.98	31.56	17.98	19.54	3487.80	
26	0.00	0.00	0.00	18.22	111.00	1961.98	461.73	625.58	17.98	27.87	17.98	17.98	3260.29	
27	0.00	0.00	0.00	32.46	114.95	3852.22	540.03	547.66	17.98	24.44	17.98	17.98	5165.70	
28	0.00	0.00	0.00	38.34	183.02	4138.37	1680.62	422.81	21.14	19.54	17.98	17.98	6539.79	
29	0.00	0.00	0.00	41.45	0.00	3618.16	2373.45	271.56	27.87	16.45		17.98	6366.93	
30	0.00	0.00	0.00	51.42	0.00	2834.60	3256.03	244.25	19.54	14.96		31.56	6452.35	
31		0.00		41.45	910.47		2941.17		17.98	14.96		35.51	3961.55	
Total	0.00	0.00	175.80	606.95	3580.97	75037.29	75277.58	28730.21	2191.65	1139.79	613.97	776.64	188130.85	Tonday
Mean	0.00	0.00	5.86	19.58	115.52	2501.24	2428.31	957.67	70.70	36.77	21.93	25.05	6182.63	Ton/day
Max	0.00	0.00	58.05	71.60	910.47	7370.50	6421.67	2173.96	210.67	139.45	39.59	68.83	7370.50	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	142.39	461.73	244.25	0.00	0.00	17.98	17.98	0.00	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

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

Lat 18 - 46 - 45 N Long 99 - 37 - 52 E

Location : on left bank at Ban Hai

Ban Hai **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	1,392 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2000-Cont'd
Actual Measurement	2000-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.7740
Remarks	Continued Sediment Station

$$QS = 0.8380\ QW^{1.60500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.28	0.28	0.12	37.96	7.35	8.35	139.40	74.95	18.82	92.00	1.49	0.85	381.85	
2	0.11	0.19	0.53	41.94	6.43	7.35	128.47	92.00	18.82	87.00	1.49	0.85	385.19	
3	0.07	0.16	0.42	34.13	6.12	7.05	139.40	89.49	19.61	84.53	1.49	0.85	383.31	
4	0.07	0.16	0.37	37.96	6.43	6.43	255.29	89.49	19.61	74.95	1.49	0.47	492.71	
5	0.07	0.12	0.32	31.66	7.66	6.12	87.00	87.00	19.61	68.05	1.49	0.11	309.20	
6	0.28	0.10	0.37	26.94	7.66	6.12	124.91	87.00	19.61	48.90	1.49	0.11	323.47	
7	0.53	0.07	0.23	7.35	7.05	6.12	249.96	72.62	18.82	20.36	1.49	0.10	384.71	
8	0.19	0.08	0.19	10.56	6.12	6.12	421.24	11.81	13.12	13.12	1.37	0.06	484.00	
9	0.19	0.06	0.19	7.05	5.53	6.43	593.38	74.95	1.26	6.43	1.26	0.04	696.78	
10	1.49	0.06	0.16	7.35	5.81	6.43	74.95	70.32	0.95	0.76	1.26	0.04	169.57	
11	7.35	0.06	0.19	8.35	5.53	6.72	180.02	57.12	0.95	0.76	1.26	0.03	268.36	
12	8.35	0.06	0.19	6.43	5.23	20.36	260.65	59.25	0.85	1.05	1.26	0.02	363.71	
13	8.35	0.06	0.16	5.81	5.53	13.77	204.01	107.65	0.85	0.42	1.26	0.01	347.87	
14	8.35	0.06	0.16	5.53	5.53	18.82	194.28	89.49	0.76	1.49	1.26	0.01	325.74	
15	8.00	0.06	0.19	5.23	6.72	18.82	199.12	97.76	1.37	0.76	1.37	0.02	339.44	
16	8.00	0.07	0.12	5.23	6.12	29.26	194.28	94.55	1.76	0.23	1.76	0.04	341.44	
17	8.00	0.10	0.12	5.53	5.53	16.61	189.48	94.55	1.61	0.19	3.42	0.05	325.19	
18	4.97	0.12	0.19	5.23	5.53	17.32	175.36	92.00	1.61	0.16	1.37	3.91	307.77	
19	3.01	0.12	0.19	5.23	5.23	14.47	34.13	89.49	1.61	0.12	1.26	18.82	173.68	
20	1.49	0.12	0.19	5.81	7.05	4.71	6.72	89.49	1.61	0.12	1.15	18.82	137.28	
21	0.32	0.16	0.12	20.36	6.72	3.01	5.23	87.00	2.10	0.12	2.45	41.94	169.53	
22	0.47	0.12	0.12	7.35	5.81	11.81	15.87	87.00	5.23	0.12	1.93	55.02	190.86	
23	0.32	0.19	0.32	6.12	5.81	143.12	19.61	84.53	18.82	0.12	1.05	72.62	352.63	
24	0.19	0.16	0.47	7.05	6.72	305.30	31.66	82.10	34.13	0.16	1.05	70.32	539.30	
25	0.16	0.12	9.04	6.43	7.05	104.31	59.25	68.05	46.07	1.26	0.95	68.05	370.73	
26	0.10	0.12	30.45	6.12	7.05	128.47	70.32	13.77	50.91	1.37	0.95	61.40	371.04	
27	0.07	0.10	31.66	6.12	9.94	170.75	77.30	11.81	34.13	1.37	0.85	44.68	388.79	
28	0.06	0.07	31.66	7.05	18.82	154.49	72.62	10.56	34.13	1.37	0.85	79.69	411.38	
29	0.05	0.10	30.45	8.68	8.68	180.02	70.32	9.94	32.89	1.37		107.65	450.15	
30	0.08	0.11	55.02	8.68	7.66	162.25	68.05	14.47	37.96	1.93		104.31	460.52	
31		0.11		10.56	9.04		63.59		92.00	1.61		61.40	238.31	
Total	71.01	3.48	193.93	395.80	217.46	1590.93	4405.89	2090.19	551.55	512.21	39.76	812.30	10884.52	Tonday
Mean	2.37	0.11	6.46	12.77	7.01	53.03	142.13	69.67	17.79	16.52	1.42	26.20	355.49	Ton/day
Max	8.35	0.28	55.02	41.94	18.82	305.30	593.38	107.65	92.00	92.00	3.42	107.65	593.38	Ton/day
Min	0.05	0.06	0.12	5.23	5.23	3.01	5.23	9.94	0.76	0.12	0.85	0.01	0.01	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

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

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

Ban Nong Nao **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	726 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2016
Number of observation	26
R-Square	0.6590
Remarks	Continued Sediment Station

$$QS = 3.2170\ QW^{1.36300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	36.99	32.85	19.42	59.46	56.62	62.34	43.43	28.85	22.16	14.25	376.38	
2	0.00	0.00	87.24	34.90	14.25	24.99	51.05	62.34	41.25	30.83	20.78	14.25	381.89	
3	0.00	0.00	130.84	16.78	13.03	14.25	53.82	62.34	41.25	28.85	20.78	11.83	393.77	
4	0.00	0.00	244.73	18.09	13.03	11.03	957.99	56.62	39.11	28.85	20.78	13.03	1403.24	
5	0.00	0.00	326.15	15.50	34.90	7.99	620.56	51.05	34.90	30.83	20.78	13.03	1155.71	
6	0.00	0.00	119.68	16.78	59.46	6.58	509.47	48.32	34.90	32.85	20.78	14.25	863.08	
7	0.00	0.00	51.05	18.09	68.21	9.48	202.28	45.64	32.85	36.99	19.42	13.03	497.04	
8	0.00	0.00	18.09	24.99	45.64	39.11	130.84	45.64	32.85	32.85	20.78	13.03	403.81	
9	0.00	0.00	4.60	34.90	19.42	65.26	100.81	48.32	28.85	28.85	19.42	13.03	363.46	
10	0.00	0.00	4.60	45.64	11.03	34.90	82.83	74.21	28.85	30.83	18.09	14.25	345.24	
11	0.00	0.00	4.60	34.90	7.99	34.90	74.21	417.27	28.85	51.05	18.09	14.25	686.12	
12	0.00	0.00	4.60	20.78	6.58	125.23	87.24	578.22	28.85	105.44	18.09	13.03	988.05	
13	0.00	0.00	3.62	15.50	5.90	177.99	142.26	171.89	26.90	62.34	18.09	11.03	635.52	
14	0.00	0.00	3.94	11.83	7.28	136.52	82.83	110.13	24.99	41.25	18.09	11.03	447.90	
15	0.00	0.00	4.27	11.83	14.25	165.84	65.26	82.83	22.16	32.85	18.09	11.03	428.41	
16	0.00	0.00	2.13	14.25	24.99	148.07	59.46	74.21	22.16	28.85	18.09	11.03	403.24	
17	0.00	0.00	1.39	11.83	13.03	100.81	59.46	68.21	23.56	28.85	18.09	10.25	335.47	
18	0.00	0.00	1.08	8.73	8.73	148.07	56.62	65.26	28.85	26.90	18.09	9.48	371.81	
19	0.00	0.00	0.80	9.48	7.28	417.27	53.82	62.34	26.90	26.90	18.09	9.48	632.35	
20	0.00	0.00	0.80	14.25	26.90	119.68	53.82	59.46	24.99	26.90	18.09	9.48	354.37	
21	0.00	0.00	0.80	41.25	51.05	68.21	56.62	59.46	23.56	24.99	18.09	10.25	354.29	
22	0.00	43.43	0.80	51.05	30.83	53.82	53.82	56.62	23.56	23.56	18.09	11.03	366.62	
23	0.00	48.32	1.08	28.85	62.34	51.05	53.82	53.82	23.56	22.16	16.78	11.03	372.82	
24	0.00	51.05	1.86	18.09	87.24	74.21	56.62	53.82	24.99	23.56	16.78	11.03	419.26	
25	0.00	43.43	3.31	19.42	48.32	171.89	125.23	48.32	23.56	22.16	16.78	11.83	534.26	
26	0.00	51.05	9.48	15.50	41.25	96.22	236.01	48.32	23.56	22.16	15.50	11.83	570.90	
27	0.00	51.05	6.58	11.03	48.32	78.49	148.07	48.32	23.56	20.78	14.25	11.03	461.49	
28	0.00	41.25	5.90	10.25	87.24	53.82	105.44	48.32	26.90	20.78	14.25	11.03	425.18	
29	0.00	36.99	7.28	39.11	53.82	130.84	82.83	48.32	26.90	20.78		11.03	457.90	
30	0.00	48.32	10.25	110.13	62.34	110.13	78.49	45.64	28.85	19.42		10.25	523.83	
31		51.05		53.82	71.19		68.21		28.85	22.16		10.25	305.52	
Total	0.00	465.95	1098.52	810.43	1065.26	2736.10	4566.39	2757.62	894.35	984.45	515.18	364.67	16258.92	Tonday
Mean	0.00	15.03	36.62	26.14	34.36	91.20	147.30	91.92	28.85	31.76	18.40	11.76	533.35	Ton/day
Max	0.00	51.05	326.15	110.13	87.24	417.27	957.99	578.22	43.43	105.44	22.16	14.25	957.99	Ton/day
Min	0.00	0.00	0.80	8.73	5.90	6.58	51.05	45.64	22.16	19.42	14.25	9.48	0.00	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

Ban Chiang Rai **Amphoe** Sam Ngao **Changwat** Tak

Drainge Area	9,930 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	11
R-Square	0.7987
Remarks	Continued Sediment Station

$$QS = 1.38390\ QW^{1.46910}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	3.61	360.54	700.37	1080.66	78.33	25.15	22.14	6.55	2277.34	
2	0.00	0.00	0.00	0.00	9.09	290.83	608.86	742.33	78.33	25.15	18.31	4.53	1777.42	
3	0.00	0.00	0.00	0.00	4.53	465.79	795.87	559.82	72.50	18.31	13.86	1.99	1932.67	
4	0.00	0.00	0.00	0.00	0.00	420.89	1853.26	456.70	72.50	29.91	13.86	1.99	2849.11	
5	0.00	0.00	0.00	0.00	0.00	255.13	3177.71	360.54	66.82	33.22	13.86	1.99	3909.26	
6	0.00	0.00	30.23	0.00	0.72	160.30	3347.57	298.15	66.82	33.22	12.20	1.99	3951.20	
7	0.00	0.00	7.64	0.00	7.64	131.97	3925.13	255.13	47.51	40.16	0.00	1.99	4417.17	
8	0.00	0.00	2.76	0.00	3.61	103.03	4775.84	262.15	41.96	43.79	9.09	1.99	5244.21	
9	0.00	0.00	7.64	0.00	0.72	87.34	3520.23	234.43	41.96	51.33	6.55	1.99	3952.19	
10	0.00	0.00	6.55	0.00	2.76	75.40	2376.73	320.45	69.64	47.51	6.55	1.99	2907.56	
11	0.00	0.00	9.09	12.20	4.53	72.50	1312.15	447.66	109.54	41.96	6.55	1.99	2018.15	
12	0.00	0.00	0.00	7.64	4.53	78.33	986.53	368.98	69.64	41.96	6.55	1.99	1566.13	
13	0.00	0.00	0.00	27.66	1.30	181.59	998.14	659.19	51.33	66.82	6.55	1.99	1994.57	
14	0.00	0.00	0.00	27.66	0.26	1140.87	1521.24	1312.15	45.64	147.95	13.86	1.99	4211.61	
15	0.00	0.00	0.00	21.16	0.26	5336.73	1244.68	1153.03	41.96	120.37	13.86	1.99	7934.05	
16	0.00	0.00	0.00	6.55	0.26	7701.33	1080.66	929.10	41.96	87.34	13.86	1.99	9863.05	
17	0.00	0.00	0.00	4.53	4.53	4343.83	839.55	700.37	36.64	72.50	13.86	1.99	6017.79	
18	0.00	0.00	0.00	1.99	9.09	3570.07	1068.74	484.15	29.91	61.28	6.55	1.99	5233.77	
19	0.00	0.00	0.00	0.00	23.13	2413.00	1104.62	234.43	33.22	51.33	6.55	1.99	3868.26	
20	0.00	0.00	0.00	0.26	23.13	4237.89	700.37	190.34	33.22	47.51	6.55	1.99	5241.25	
21	0.00	0.00	10.61	0.00	15.59	4397.12	429.76	214.31	33.22	47.51	6.55	1.99	5156.64	
22	0.00	0.00	0.00	1.30	6.55	3157.28	305.53	283.57	28.29	43.79	6.55	6.55	3839.40	
23	0.00	0.00	0.00	1.99	1.99	2272.20	248.17	269.23	25.15	38.38	6.55	50.17	2913.83	
24	0.00	0.00	0.00	0.72	5.51	1422.44	190.34	276.37	25.15	33.22	4.53	35.60	1993.87	
25	0.00	0.00	0.00	0.00	21.16	1033.25	164.49	255.13	22.14	33.22	4.53	0.00	1533.91	
26	0.00	0.00	0.00	0.00	12.20	1521.24	160.30	234.43	23.63	33.22	2.76	0.00	1987.78	
27	0.00	0.00	0.00	0.00	19.24	3055.74	403.35	185.95	31.55	29.91	1.99	0.00	3727.73	
28	0.00	0.00	0.00	0.26	38.38	2431.76	1298.57	120.37	41.96	25.15	1.99	0.00	3958.45	
29	0.00	0.00	0.00	0.26	438.68	1967.80	1564.23	93.52	38.38	22.14		1.99	4126.99	
30	0.00	0.00	0.00	0.00	569.52	1564.23	2376.73	93.52	25.15	22.14		19.24	4670.52	
31		0.00		27.66	512.12		1506.99		18.31	22.14		15.59	2102.81	
Total	0.00	0.00	74.52	141.82	1744.61	54250.42	44586.70	13076.14	1442.34	1437.56	246.58	178.01	117178.69	Tonday
Mean	0.00	0.00	2.48	4.57	56.28	1808.35	1438.28	435.87	46.53	46.37	8.81	5.74	3853.28	Ton/day
Max	0.00	0.00	30.23	27.66	569.52	7701.33	4775.84	1312.15	109.54	147.95	22.14	50.17	7701.33	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	72.50	160.30	93.52	18.31	18.31	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Huai Kod.

Ban Huai Kod **Amphoe** Wang Nua **Changwat** Lampang

Drainge Area	762 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2009-Cont'd
Actual Measurement	2009-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.9000
Remarks	Continued Sediment Station

$QS = 266.8000\ QW^{1.49200}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	960.66	307.57	2533.10	13133.43	5370.90	11116.59	4020.13	372.20	86.49	106.39	38007.46	
2	0.00	0.00	29485.57	2384.08	1374.20	5717.30	4256.05	10389.33	3266.63	478.87	86.49	106.39	57544.90	
3	0.00	0.00	11362.59	2533.10	417.49	3674.69	10872.37	7939.33	2971.15	440.77	86.49	94.85	40392.83	
4	0.00	0.00	91967.79	1213.45	13393.23	1110.01	35115.47	6431.15	2685.07	641.29	78.38	94.85	152730.70	
5	0.00	0.00	27296.75	394.63	7939.33	558.13	23611.75	6070.76	2310.69	818.61	78.38	94.85	69173.89	
6	0.00	0.00	50477.54	394.63	4375.66	1429.23	25164.35	5717.30	2166.21	960.66	78.38	94.85	90858.82	
7	0.00	0.00	10629.95	1110.01	2874.73	6798.33	16700.63	4864.88	2166.21	1059.44	78.38	94.85	46377.41	
8	0.00	0.00	4375.66	3903.85	10629.95	26223.40	12618.88	5893.16	2238.07	1009.65	78.38	94.85	67065.84	
9	0.00	0.00	2608.72	1541.41	3068.62	12618.88	8531.34	7172.16	2238.07	865.13	78.38	94.85	38817.56	
10	0.00	0.00	1894.24	6613.90	1541.41	12875.31	6250.10	9445.26	3167.11	960.66	78.38	94.85	42921.23	
11	0.00	0.00	1541.41	2458.22	684.27	16700.63	5200.40	265752.12	1319.89	2238.07	70.54	86.49	296052.04	
12	0.00	0.00	1656.35	1714.83	372.20	60062.38	110288.89	52350.32	1319.89	5370.90	78.38	78.38	233292.52	
13	0.00	0.00	1374.20	3903.85	558.13	112180.58	47699.91	19448.84	1319.89	3788.70	78.38	70.54	190423.02	
14	0.00	0.00	1319.89	1714.83	912.48	40017.33	16328.25	17866.07	1266.30	2384.08	70.54	70.54	81950.32	
15	0.00	0.00	1161.35	3468.68	4496.36	58078.25	9445.26	15212.78	1059.44	1773.98	70.54	70.54	94837.19	
16	0.00	0.00	818.61	1714.83	4496.36	76779.92	7939.33	10150.54	1213.45	1656.35	55.71	70.54	104895.66	
17	0.00	0.00	328.66	328.66	1833.79	28923.82	7172.16	7939.33	1541.41	1110.01	55.71	70.54	49304.09	
18	0.00	1374.20	417.49	130.75	865.13	63031.20	5031.72	6613.90	1319.89	818.61	55.71	62.98	79721.58	
19	0.00	3674.69	394.63	118.36	599.23	45147.45	3674.69	6070.76	1319.89	478.87	55.71	55.71	61589.99	
20	0.00	4496.36	247.14	478.87	310831.51	22075.04	3266.63	5200.40	1110.01	328.66	55.71	55.71	348146.03	
21	0.00	2166.21	227.99	25683.10	68884.89	54245.46	2779.37	4740.98	865.13	286.95	70.54	55.71	160006.33	
22	0.00	1714.83	184.16	6613.90	15212.78	27296.75	2608.72	4137.53	772.95	247.14	86.49	55.71	58930.97	
23	0.00	372.20	118.36	1484.97	22075.04	12618.88	2533.10	3674.69	772.95	198.42	106.39	48.74	44003.76	
24	0.00	130.75	70.54	558.13	37896.54	19040.87	3068.62	3674.69	518.00	170.25	94.85	42.08	65265.31	
25	0.00	118.36	247.14	417.49	18265.62	12364.16	50477.54	3788.70	518.00	198.42	106.39	42.08	86543.91	
26	0.00	94.85	2533.10	307.57	35115.47	57117.82	66316.63	3266.63	394.63	118.36	106.39	42.08	165413.54	
27	0.00	118.36	772.95	170.25	17485.25	15943.32	19859.65	14463.92	350.21	213.04	106.39	42.08	69525.42	
28	0.00	94.85	350.21	143.53	45884.41	8332.45	10872.37	10872.37	417.49	198.42	94.85	42.08	77303.04	
29	0.00	19859.65	247.14	156.70	26767.40	10872.37	19448.84	5543.21	372.20	247.14		42.08	83556.73	
30	0.00	2685.07	1009.65	9678.49	14463.92	7939.33	53283.70	4256.05	350.21	130.75		35.75	93832.92	
31		2533.10		9678.49	11116.59		21075.29		328.66	94.85		35.75	44862.74	
Total	0.00	39433.49	246080.47	91321.13	686965.08	832906.70	616862.89	540063.75	45679.82	29659.26	2227.40	2147.75	3133347.74	Tonday
Mean	0.00	1272.05	8202.68	2945.84	22160.16	27763.56	19898.80	18002.13	1473.54	956.75	79.55	69.28	102824.35	Ton/day
Max	0.00	19859.65	91967.79	25683.10	310831.51	112180.58	110288.89	265752.12	4020.13	5370.90	106.39	106.39	310831.51	Ton/day
Min	0.00	0.00	70.54	118.36	372.20	558.13	2533.10	3266.63	328.66	94.85	55.71	35.75	0.00	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

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

Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

Ban Nam Khong **Amphoe** Mueang **Changwat** Phrae

Drainge Area	7,749 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	35
R-Square	0.9020
Remarks	Continued Sediment Station

$QS = 1.6610\ QW^{1.38500}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.67	0.40	79.70	1015.79	220.86	2349.83	1936.63	597.98	128.98	11.02	11.02	2.65	6355.54	
2	0.53	0.28	208.60	1508.03	174.01	2015.69	1952.38	494.69	121.03	12.44	9.64	1.90	6499.22	
3	0.53	0.67	364.16	559.70	152.60	1402.74	1808.13	485.52	117.11	14.67	8.32	0.67	4914.83	
4	0.28	0.97	245.96	371.90	174.01	1003.90	1669.85	588.32	109.37	12.44	7.89	1.14	4186.04	
5	0.28	0.67	152.60	220.86	190.57	719.91	1428.86	468.22	109.37	11.72	7.05	1.14	3311.26	
6	0.18	0.40	278.36	364.16	326.14	588.32	1697.26	379.69	101.79	15.43	6.24	1.14	3759.10	
7	0.18	0.53	298.33	1494.75	485.52	569.23	3114.95	326.14	94.92	17.61	6.24	1.48	6409.88	
8	0.15	14.67	214.70	2940.63	921.77	1015.79	2441.06	326.14	91.82	15.43	5.84	1.90	7989.91	
9	0.13	5.08	137.07	1952.38	785.65	1669.85	1521.34	403.32	85.70	13.92	4.70	2.39	6581.51	
10	0.11	0.53	109.37	921.77	435.43	1350.90	1087.94	435.43	85.70	13.92	5.46	2.91	4449.47	
11	0.11	4.70	88.74	841.63	239.61	1548.05	830.35	617.21	79.70	19.87	5.46	2.65	4278.07	
12	0.11	4.70	70.93	468.22	202.54	7938.33	1822.13	819.11	70.93	40.64	5.08	2.39	11445.10	
13	0.15	3.75	58.21	278.36	233.32	14221.97	4489.36	617.21	68.08	63.09	5.46	2.39	20041.34	
14	0.18	2.65	51.11	174.01	443.56	15101.74	2793.59	476.51	68.08	142.20	4.34	0.82	19258.79	
15	0.18	1.66	42.44	142.20	1063.74	7757.08	1286.87	348.81	63.09	121.03	4.34	1.14	10832.58	
16	0.15	1.90	35.37	239.61	11581.98	8959.35	1136.80	356.46	68.08	82.68	5.46	1.66	22469.50	
17	0.15	2.65	31.97	190.57	23789.83	10186.20	1075.82	305.07	55.82	60.64	5.08	1.30	35705.10	
18	0.18	1.90	44.27	168.59	7114.36	6105.53	785.65	284.98	30.31	63.09	5.08	1.30	14605.23	
19	0.18	2.39	27.06	152.60	1615.40	7612.93	607.57	258.79	24.59	53.45	5.46	0.57	10360.98	
20	0.28	5.84	21.02	157.88	1920.93	6699.22	494.69	252.35	22.19	44.27	5.46	0.93	9625.08	
21	0.28	5.46	109.37	419.29	6333.20	3479.50	459.96	227.06	18.73	30.31	4.34	2.29	11089.78	
22	0.40	11.02	185.01	348.81	7362.47	4192.15	356.46	214.70	16.51	23.39	4.04	3.75	12718.71	
23	0.40	19.87	82.68	356.46	3974.50	3025.59	341.21	190.57	16.51	21.02	3.75	4.10	8036.66	
24	0.40	113.22	51.11	298.33	3250.34	1724.79	311.85	190.57	16.51	19.87	3.75	4.10	5984.84	
25	0.28	70.93	82.68	202.54	2919.50	1822.13	476.51	168.59	14.67	18.73	2.91	3.92	5783.40	
26	0.28	42.44	48.80	233.32	2814.47	2192.67	1628.96	168.59	13.92	16.51	0.97	3.92	7164.86	
27	0.28	33.66	21.02	196.53	3433.32	2422.74	1087.94	157.88	13.17	16.51	2.39	4.37	7389.82	
28	0.15	28.67	13.92	142.20	9076.15	1752.45	741.64	147.38	11.02	13.92	2.91	4.01	11934.41	
29	0.15	28.67	13.92	133.01	6732.78	1481.51	627.00	142.20	11.02	12.44		3.84	9186.54	
30	0.18	24.59	33.66	265.27	4412.98	2772.76	513.05	133.01	11.72	12.44		3.84	8183.51	
31		30.31		305.07	2607.66		578.70		11.02	12.44		3.66	3548.86	
Total	7.58	465.20	3202.15	17064.47	104989.22	123682.84	41104.51	10582.49	1751.45	1027.14	148.64	74.24	304099.93	Tonday
Mean	0.25	15.01	106.74	550.47	3386.75	4122.76	1325.95	352.75	56.50	33.13	5.31	2.39	9958.01	Ton/day
Max	0.67	113.22	364.16	2940.63	23789.83	15101.74	4489.36	819.11	128.98	142.20	11.02	4.37	23789.83	Ton/day
Min	0.11	0.28	13.92	133.01	152.60	569.23	311.85	133.01	11.02	11.02	0.97	0.57	0.11	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

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

Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

Ban Kaeng Luang **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	12,769 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1963 - 1987,1997-Cont'd
Actual Measurement	1963 - 1987,1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	19
R-Square	0.9459
Remarks	Continued Sediment Station

$$QS = 0.7281\ QW^{1.59730}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	9.52	1473.56	11002.40	3842.03	102.23	163.48	83.71	45.16	0.00	16722.08	
2	0.00	0.00	0.00	2.38	2801.37	8143.37	4925.16	75.30	151.75	68.95	42.36	0.00	16210.64	
3	0.00	0.00	0.00	59.81	1782.21	6546.37	4147.52	57.89	144.12	56.52	42.36	0.00	12836.80	
4	0.00	0.00	0.00	2079.15	1361.00	5944.65	6917.72	37.78	133.76	60.60	38.70	0.00	16573.35	
5	0.00	0.00	0.14	606.89	1609.06	4598.92	6980.35	36.01	151.75	67.55	30.20	0.00	14080.87	
6	0.00	0.00	2.72	423.42	2026.97	4371.04	5885.68	57.89	228.84	75.30	43.26	0.00	13115.13	
7	0.00	0.00	13.95	606.89	2159.49	3566.26	5168.08	36.92	387.55	76.96	42.36	0.00	12058.46	
8	0.00	0.00	10.14	2131.82	2650.04	3416.85	6003.85	228.84	336.59	75.30	36.01	0.00	14889.44	
9	0.00	0.00	15.01	2131.82	3491.26	3161.19	9755.27	1454.57	253.28	76.96	17.23	0.00	20356.58	
10	0.00	0.00	13.60	4461.67	3233.47	4784.32	5710.09	2560.76	159.53	76.96	13.95	0.00	21014.35	
11	0.00	0.00	7.26	2710.20	2710.20	5597.43	2650.04	1236.76	163.48	78.62	10.35	0.00	15164.35	
12	0.00	0.00	5.34	1454.57	3125.27	3306.37	2299.87	3679.88	167.46	91.38	9.01	0.00	14139.13	
13	0.00	0.00	9.01	1473.56	2680.06	12128.00	2243.32	347.62	205.35	151.75	5.51	0.00	19244.17	
14	0.00	0.00	10.86	1379.52	2862.77	29332.97	8818.06	106.70	273.27	432.25	4.78	0.00	43221.20	
15	0.00	0.00	11.31	30.90	2271.53	50432.36	8681.52	531.79	304.32	447.55	5.14	0.00	62716.42	
16	0.00	0.00	11.84	33.06	960.61	41746.81	4147.52	463.05	336.59	447.55	5.71	0.00	48152.75	
17	0.00	0.00	15.01	46.25	4281.11	22097.32	2328.33	347.62	463.05	805.97	5.14	0.00	30389.82	
18	0.00	0.00	17.23	66.16	23090.16	22379.33	3799.11	1454.57	574.85	619.16	4.97	0.00	52005.54	
19	0.00	0.00	10.14	49.59	27766.77	33316.40	2893.66	463.05	842.25	358.78	4.28	0.00	65704.92	
20	0.00	0.00	342.38	30.20	6731.08	17859.60	2001.07	293.83	842.25	273.27	3.45	0.00	28377.14	
21	0.00	0.00	2.17	95.66	4147.52	13915.25	1873.43	253.28	553.16	117.02	1.25	0.00	20958.74	
22	0.00	0.00	4.62	531.79	8143.37	7944.90	171.47	253.28	478.75	82.00	0.28	0.00	17610.47	
23	0.00	0.00	8.77	687.90	12482.53	6793.08	531.79	619.16	417.15	78.62	0.00	0.00	21619.01	
24	0.00	0.00	12.33	140.35	9024.36	6731.08	510.73	494.64	336.59	63.30	0.00	0.00	17313.39	
25	0.00	0.00	13.60	108.96	5768.40	4737.71	336.59	373.06	273.27	55.34	0.00	0.00	11666.94	
26	0.00	0.00	132.53	87.16	5168.08	14017.47	197.73	314.94	205.35	44.23	0.00	0.00	20167.50	
27	0.00	0.00	24.34	45.16	5710.09	13419.77	2271.53	304.32	155.62	41.41	0.00	0.00	21972.23	
28	0.00	0.00	50.44	16.86	8410.84	9593.26	3473.29	293.83	136.63	43.26	0.00	0.00	22018.40	
29	0.00	0.00	43.80	22.85	13125.72	6003.85	1153.39	263.20	111.62	45.16		0.00	20769.59	
30	0.00	0.00	34.52	23.49	17859.60	3453.98	182.82	205.35	80.31	47.35		0.00	21887.41	
31		0.00		21.68	13028.25		387.55		89.26	53.01		0.00	13579.76	
Total	0.00	0.00	823.06	21569.23	201936.75	380342.33	110288.57	16948.13	9121.24	5095.80	411.46	0.00	746536.57	Tonday
Mean	0.00	0.00	27.44	695.78	6514.09	12678.08	3557.70	564.94	294.23	164.38	14.70	0.00	24511.33	Ton/day
Max	0.00	0.00	342.38	4461.67	27766.77	50432.36	9755.27	3679.88	842.25	805.97	45.16	0.00	50432.36	Ton/day
Min	0.00	0.00	0.00	2.38	960.61	3161.19	171.47	36.01	80.31	41.41	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

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

Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

Ban Don Rabiang **Amphoe** Si Satchanalai **Changwat** Sukhothai

Drainge Area	12,100 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1964-Cont'd
Actual Measurement	1964-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.9137
Remarks	Continued Sediment Station

$QS = 0.5276\ QW^{1.66300}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.0	0.0	18.2	27.6	584.9	8403.6	5290.9	1113.9	133.0	21.1	15.7	0.0	15609.00	
2	0.0	0.0	15.7	24.3	471.3	6735.9	5335.9	1181.6	119.0	16.8	15.7	0.0	13916.10	
3	0.0	0.0	19.6	686.5	292.9	5981.5	5829.9	967.7	119.0	16.8	14.7	0.5	13929.17	
4	0.0	0.0	32.9	2198.4	253.7	5024.2	7943.5	748.8	100.6	16.8	12.8	0.0	16331.64	
5	0.0	0.0	189.5	866.4	736.2	3213.0	6453.0	826.4	100.6	21.1	11.9	0.4	12418.44	
6	0.0	0.0	241.5	553.0	736.2	2066.2	5580.7	698.8	86.7	14.7	11.9	0.2	9989.95	
7	0.0	0.0	119.0	471.3	1198.7	1492.6	6083.4	639.8	90.1	14.7	11.9	0.1	10121.57	
8	0.0	0.0	83.4	787.3	3179.1	1349.4	7813.9	532.1	83.4	11.9	11.9	0.1	13852.45	
9	0.0	0.0	206.3	3595.4	3666.7	1389.8	7493.7	521.8	58.7	15.7	7.7	0.0	16955.74	
10	0.0	0.0	142.7	4980.3	3044.9	2557.3	4265.4	1555.7	64.5	19.6	6.2	0.0	16636.67	
11	0.0	0.0	90.1	2731.6	1706.9	3350.1	2792.9	2585.8	58.7	22.7	6.2	0.0	13344.97	
12	0.0	0.0	67.5	1430.5	866.4	4980.3	2145.1	2885.9	50.9	38.5	5.5	0.0	12470.62	
13	0.0	0.0	48.7	1233.3	451.7	17924.9	2198.4	2040.1	67.5	44.5	4.2	0.0	24013.48	
14	0.0	0.0	40.5	826.4	364.7	31549.4	8271.1	1598.3	58.7	83.4	3.7	0.0	42796.25	
15	0.0	0.0	44.5	628.6	511.5	51500.3	6397.0	1097.3	53.1	83.4	4.9	0.0	60320.64	
16	0.0	0.0	32.9	340.1	1289.9	36107.5	3419.5	813.3	46.6	100.6	4.2	0.0	42154.56	
17	0.0	0.0	31.1	272.5	10345.8	22168.3	2614.5	662.2	50.9	111.4	4.2	0.0	36260.94	
18	0.0	0.0	24.3	364.7	32292.0	24001.6	3213.0	542.5	50.9	100.6	3.7	0.0	60593.25	
19	0.0	0.0	21.1	247.6	26559.5	29103.6	2279.3	433.7	50.9	97.0	3.7	0.0	58796.46	
20	0.0	0.0	19.6	272.5	5024.2	18918.9	1576.9	381.6	32.9	83.4	3.7	0.0	26313.73	
21	0.0	0.0	21.1	553.0	2643.2	15441.6	1181.6	308.3	34.7	64.5	3.7	0.0	20251.80	
22	0.0	0.0	18.2	1250.7	9424.1	9147.4	967.7	308.3	32.9	64.5	1.4	0.0	21215.20	
23	0.0	0.0	16.8	1534.5	9916.1	7943.5	736.2	278.9	31.1	46.6	0.9	0.0	20504.60	
24	0.0	0.0	83.4	999.5	8604.0	7375.1	662.2	235.5	32.9	31.1	0.0	0.0	18023.55	
25	0.0	0.0	67.5	711.2	6397.0	6341.2	595.7	173.3	31.1	31.1	0.0	0.0	14348.20	
26	0.0	0.0	42.5	617.6	5531.4	14453.9	748.8	168.0	24.3	31.1	0.0	0.0	21617.65	
27	0.0	0.0	25.9	373.1	7257.1	12910.5	3011.7	152.6	24.3	27.6	0.0	0.0	23782.88	
28	0.0	0.0	44.5	316.2	9285.3	9987.2	3489.4	142.7	16.8	24.3	0.0	0.0	23306.32	
29	0.0	0.0	32.9	278.9	16190.0	5679.9	2389.0	162.8	21.1	19.6		0.0	24774.22	
30	0.0	0.0	42.5	217.8	16569.4	3884.1	2225.2	162.8	16.8	16.8		0.0	23135.39	
31		19.6		272.5	11839.4		1534.5		16.8	16.8		0.0	13699.57	
Total	0.0	19.6	1884.4	29663.4	197234.4	370983.0	114540.4	23920.5	1759.0	1308.7	170.2	1.3	741485.0	Tonday
Mean	0.0	0.6	62.8	956.9	6362.4	12366.1	3694.9	797.4	56.7	42.2	6.1	0.0	24346.1	Ton/day
Max	0.0	19.6	241.5	4980.3	32292.0	51500.3	8271.1	2885.9	133.0	111.4	15.7	0.5	51500.3	Ton/day
Min	0.0	0.0	15.7	24.3	253.7	1349.4	595.7	142.7	16.8	11.9	0.0	0.0	0.0	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

	Ban Kong		**Amphoe** Kong Krailat	**Changwat** Sukhothai	
Drainge Area	19,936 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2009-Cont'd				
Actual Measurement	2009-Cont'd				
Using Rating Curve Water Year	2016				
Number of observation	15				
R-Square	0.6495				
Remarks	Continued Sediment Station				

$$QS = 5.5702\ QW^{0.94900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	191.73	720.59	1113.51	507.04	258.77	209.69	19.28	0.00	3020.62	
2	0.00	0.00	0.00	0.00	162.19	745.32	1110.53	499.57	340.20	198.28	17.54	0.00	3073.63	
3	0.00	0.00	0.00	0.00	123.10	759.00	1098.60	495.83	360.26	198.28	15.55	0.00	3050.62	
4	0.00	0.00	0.00	0.00	177.58	775.43	1104.57	717.95	368.32	182.19	13.79	0.00	3339.83	
5	0.00	0.00	0.00	0.00	209.69	775.43	1113.51	704.71	362.29	163.73	12.28	0.00	3341.64	
6	0.00	0.00	0.00	17.64	226.40	769.96	1107.55	686.15	352.27	149.81	10.75	0.00	3320.54	
7	0.00	0.00	0.00	203.16	269.73	756.28	1098.60	672.88	338.17	134.71	8.96	0.00	3482.49	
8	0.00	0.00	0.00	269.73	287.63	745.32	1092.63	660.21	320.04	118.76	6.88	0.00	3501.19	
9	0.00	0.00	0.00	289.64	301.81	731.58	1086.66	633.19	309.91	107.38	5.04	0.00	3465.21	
10	0.00	0.00	0.00	307.91	322.04	710.00	1077.70	611.03	318.00	103.32	2.78	0.00	3452.77	
11	0.00	0.00	0.00	364.31	332.15	686.15	1049.39	588.83	311.96	19.53	1.44	0.00	3353.76	
12	0.00	0.00	0.00	402.72	297.76	660.21	1030.84	574.01	307.91	19.53	1.21	0.00	3294.18	
13	0.00	0.00	0.00	398.52	253.26	665.12	999.87	571.54	303.86	21.50	1.04	0.00	3214.69	
14	0.00	0.00	0.00	374.31	238.60	691.46	958.02	576.48	297.76	26.87	0.98	0.00	3164.49	
15	0.00	0.00	0.00	362.29	216.21	767.24	925.52	581.42	283.57	29.78	0.80	0.00	3166.84	
16	0.00	0.00	0.00	342.19	226.40	835.72	925.52	578.95	264.27	30.98	0.51	0.00	3204.56	
17	0.00	0.00	0.00	299.81	277.45	883.70	925.52	566.80	206.43	30.50	0.32	0.00	3190.53	
18	0.00	0.00	0.00	291.69	344.23	939.98	925.52	555.45	152.91	28.33	0.00	0.00	3238.11	
19	0.00	0.00	0.00	291.69	440.42	996.87	900.20	535.00	279.50	25.80	0.00	0.00	3469.49	
20	0.00	0.00	0.00	240.46	528.17	1047.80	880.89	484.82	291.69	26.87	0.00	0.00	3500.70	
21	0.00	0.00	0.00	255.12	564.53	1077.70	827.64	427.88	289.64	28.67	0.00	0.00	3471.17	
22	0.00	0.00	0.00	320.04	555.45	1089.64	799.34	366.30	289.64	29.05	0.00	0.00	3449.46	
23	0.00	0.00	0.00	305.86	559.99	1107.55	771.38	305.86	287.63	29.05	0.00	0.00	3367.33	
24	0.00	0.00	0.00	311.96	562.26	1119.48	728.73	264.27	281.51	28.33	0.00	0.00	3296.54	
25	0.00	0.00	0.00	305.86	569.06	1125.44	690.23	249.65	266.08	27.99	0.00	0.00	3234.31	
26	0.00	0.00	0.00	297.76	591.30	1128.42	651.62	244.13	255.12	27.21	0.00	0.00	3195.55	
27	0.00	0.00	0.00	267.92	598.71	1128.42	607.95	262.43	249.65	26.14	0.00	0.00	3141.22	
28	0.00	0.00	0.00	240.46	601.17	1125.44	580.60	206.43	240.46	24.68	0.00	0.20	3019.44	
29	0.00	0.00	0.00	209.69	611.03	1119.48	549.26	179.12	235.06	22.73		1.49	2927.86	
30	0.00	0.00	0.00	190.07	638.10	1116.50	537.48	152.91	229.87	21.25		2.17	2888.35	
31		0.00		182.19	675.54		518.23		228.14	19.77		1.61	1625.47	
Total	0.00	0.00	0.00	7343.01	11953.70	26801.22	27787.61	14460.83	8880.89	2110.71	119.16	5.47	99462.60	Tonday
Mean	0.00	0.00	0.00	236.87	385.60	893.37	896.37	482.03	286.48	68.09	4.26	0.18	3253.25	Ton/day
Max	0.00	0.00	0.00	402.72	675.54	1128.42	1113.51	717.95	368.32	209.69	19.28	2.17	1128.42	Ton/day
Min	0.00	0.00	0.00	0.00	123.10	660.21	518.23	152.91	152.91	19.53	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

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

Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

Ban Huai Sak **Amphoe** Song **Changwat** Phrae

Drainge Area	5,394 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.7880
Remarks	Continued Sediment Station

$$QS = 0.1620\ QW^{2.04300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	0.30	457.42	27983.54	312.15	14705.52	5416.99	1237.15	138.72	30.18	14.70	4.31	50301.32	
2	0.41	0.89	1147.52	5507.99	261.66	8290.34	4499.98	1147.52	133.19	24.29	13.34	3.98	21031.09	
3	0.41	2.03	533.71	2959.47	198.58	4823.62	5507.99	2158.79	127.78	30.18	13.34	3.98	16359.89	
4	0.35	3.98	198.58	1177.02	442.88	3192.12	4905.71	1459.70	122.49	30.18	13.34	3.98	11550.33	
5	0.30	5.02	678.13	1089.67	533.71	2340.57	4659.17	908.04	117.31	28.02	12.05	3.66	10375.65	
6	0.20	5.02	789.05	10552.56	765.99	1942.09	17384.51	657.23	107.29	39.61	12.05	3.36	32258.97	
7	0.20	4.31	322.79	15937.72	1737.09	5416.99	26507.35	565.91	93.12	44.82	11.32	3.66	50645.30	
8	0.20	3.66	151.56	24022.22	2846.52	12871.33	12254.87	487.22	71.78	53.25	10.61	3.66	52776.87	
9	0.16	2.52	112.24	6263.82	1394.20	15937.72	6460.53	549.69	79.97	60.32	9.92	3.66	30874.77	
10	0.16	2.27	71.78	4905.71	582.38	6560.05	3620.91	933.18	79.97	50.36	9.26	3.66	16819.70	
11	0.16	2.03	50.36	2248.74	373.78	40396.54	3557.97	2434.28	71.78	71.78	9.26	3.36	49220.02	
12	0.16	1.60	28.02	958.14	242.73	162886.85	11673.00	2027.37	71.78	347.81	9.26	3.36	178250.06	
13	0.16	1.22	28.02	533.71	457.42	197102.96	19562.78	1330.23	75.82	533.71	9.26	3.36	219638.65	
14	0.25	1.05	22.52	517.97	1526.74	49316.10	6965.91	859.83	67.85	347.81	9.26	3.06	59638.34	
15	0.30	0.61	20.82	958.14	59959.50	64619.79	3251.69	616.02	67.85	174.26	8.62	3.06	129680.66	
16	0.25	0.89	16.13	487.22	700840.61	89052.38	2340.57	517.97	64.03	122.49	8.62	2.79	793453.94	
17	0.25	0.89	12.05	281.31	58948.05	47494.83	2387.19	457.42	71.78	88.63	8.00	2.52	109752.90	
18	0.20	1.05	9.92	207.05	12108.05	31693.18	1737.09	387.12	75.82	71.78	7.41	2.27	46300.93	
19	0.20	3.06	10.61	158.95	4989.75	86877.07	1267.80	373.78	84.24	64.03	6.84	2.27	93838.60	
20	0.25	281.31	678.13	4823.62	36662.16	26217.02	1147.52	347.81	75.82	53.25	6.84	2.27	70295.99	
21	0.20	64.03	721.84	2248.74	110561.13	32982.14	983.97	291.41	71.78	42.18	6.30	2.03	147975.73	
22	0.20	301.69	190.30	1984.50	44885.60	34630.25	908.04	291.41	60.32	32.42	6.84	2.03	83293.60	
23	0.16	138.72	271.39	933.18	25355.80	12402.60	835.72	252.10	47.55	30.18	6.30	2.03	40275.73	
24	0.16	42.18	261.66	517.97	25641.24	11105.57	789.05	215.70	42.18	26.12	6.30	1.81	38649.93	
25	0.20	22.52	122.49	400.70	17809.66	17596.43	1526.74	207.05	37.13	24.29	5.77	1.60	37754.59	
26	0.30	14.70	84.24	291.41	17384.51	17384.51	2959.47	198.58	32.42	22.52	5.39	1.60	38379.64	
27	0.25	24.29	79.97	224.53	46597.30	11387.48	2203.53	190.30	30.18	20.82	4.66	2.52	60765.82	
28	0.20	12.05	56.73	207.05	69791.98	5879.70	1701.07	198.58	26.12	19.19	4.66	2.52	77899.85	
29	0.25	17.62	207.05	2070.70	36319.40	9881.58	1147.52	182.19	24.29	17.62		2.27	49870.49	
30	0.25	19.19	10827.26	616.02	20971.53	13856.33	1493.03	144.35	26.12	16.13		2.52	47972.74	
31		97.73		387.12	17809.66		2158.79		30.18	14.70		2.79	20500.97	
Total	7.06	1078.40	18162.30	121456.49	1318311.73	1038843.66	161816.45	21627.94	2226.64	2532.93	249.51	89.95	2686403.07	Tonday
Mean	0.24	34.79	605.41	3917.95	42526.18	34628.12	5219.89	720.93	71.83	81.71	8.91	2.90	87818.85	Ton/day
Max	0.41	301.69	10827.26	27983.54	700840.61	197102.96	26507.35	2434.28	138.72	533.71	14.70	4.31	700840.61	Ton/day
Min	0.16	0.30	9.92	158.95	198.58	1942.09	789.05	144.35	24.29	14.70	4.66	1.60	0.16	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

Nam Pi at Ban Mang , Phayao (Y.24)

Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

Ban Mang **Amphoe** Chiang Muan **Changwat** Phayao

Drainge Area	590 sq.km.
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	2016
Number of observation	13
R-Square	0.6860
Remarks	Continued Sediment Station

$$QS = 6.1860\ QW^{1.26300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.13	0.07	120.99	229.15	3.25	82.55	108.50	8.62	22.81	35.18	14.01	7.30	633.54	
2	1.13	0.07	63.75	263.29	1.70	79.35	73.02	9.98	35.63	35.18	13.73	7.30	584.13	
3	1.02	0.07	36.76	69.90	2.19	76.17	263.29	9.29	28.16	34.73	13.45	7.30	542.35	
4	0.81	0.66	28.80	79.35	11.64	58.21	152.38	9.12	34.73	34.29	12.91	6.82	429.71	
5	0.66	6.34	21.28	50.84	3.94	50.84	116.79	8.95	37.67	34.29	12.63	4.23	348.46	
6	0.66	5.57	10.50	342.47	5.04	58.21	646.67	8.62	37.67	32.07	12.36	4.23	1164.05	
7	0.66	4.67	17.71	248.71	3.25	100.34	378.90	8.28	37.67	32.07	12.09	3.94	848.28	
8	0.66	2.71	39.04	161.88	2.32	308.06	147.67	7.95	35.18	33.39	11.55	4.09	754.50	
9	0.66	2.07	34.73	89.03	2.32	181.22	85.78	7.79	28.59	33.39	11.02	4.09	480.70	
10	0.66	1.70	23.12	100.34	7.22	157.11	100.34	7.79	24.98	39.27	10.24	4.09	476.85	
11	0.66	1.58	16.46	58.21	15.22	1767.22	100.34	7.62	27.30	36.19	9.72	4.23	2044.77	
12	0.66	1.35	11.64	36.76	24.98	1946.59	76.17	8.12	25.30	43.91	9.46	4.23	2189.18	
13	0.66	1.13	12.81	30.75	14.01	525.78	55.73	7.46	24.05	46.63	9.72	4.23	732.96	
14	0.66	1.02	19.48	30.75	10.50	406.71	34.73	7.46	24.67	49.03	9.46	4.23	598.70	
15	0.66	0.81	7.22	16.46	561.50	360.59	24.98	7.79	27.73	43.44	9.12	4.23	1064.53	
16	0.66	0.76	5.42	10.50	166.67	278.05	15.22	7.95	32.07	40.30	8.12	4.09	569.80	
17	0.66	0.76	30.75	9.38	1323.64	147.67	11.64	7.79	36.65	32.07	7.95	4.09	1613.04	
18	0.52	0.76	15.22	8.28	992.93	125.21	7.22	7.62	39.73	34.29	7.79	4.09	1243.64	
19	0.34	0.71	14.01	6.19	425.48	120.99	5.42	7.46	38.24	32.51	7.79	4.23	663.35	
20	0.52	0.71	55.73	5.80	1407.77	100.34	5.42	7.46	36.19	29.88	7.62	4.23	1661.67	
21	0.34	0.91	125.21	4.67	585.58	187.08	5.42	7.30	35.18	29.02	10.24	4.09	995.02	
22	0.25	1.24	63.75	2.32	138.36	108.50	5.04	7.46	33.39	26.56	12.09	4.09	403.05	
23	0.14	1.58	39.04	1.30	278.05	100.34	5.04	7.62	29.88	23.12	9.12	4.09	499.32	
24	0.11	1.94	34.73	2.58	192.98	92.31	28.80	9.72	27.73	22.81	8.78	4.09	426.59	
25	0.11	2.32	69.90	2.19	108.50	397.39	17.71	15.69	33.39	22.20	8.28	4.09	681.78	
26	0.11	3.11	41.34	1.70	96.31	360.59	9.38	18.30	31.63	21.28	7.30	4.09	595.13	
27	0.07	1.94	41.34	1.18	129.46	120.99	5.80	20.38	30.75	19.18	7.14	4.23	382.48	
28	0.07	1.24	39.04	1.24	492.51	79.35	4.09	21.28	30.32	17.71	7.14	4.23	698.21	
29	0.07	0.91	41.34	1.30	235.30	60.71	8.95	20.68	30.75	15.13		4.23	419.38	
30	0.07	0.76	46.04	1.18	152.38	116.79	9.72	20.38	30.32	14.01		4.09	395.73	
31		73.02		1.13	100.34		8.62		31.63	14.01		4.09	232.83	
Total	15.38	122.52	1127.15	1868.80	7495.32	8555.27	2518.77	311.94	979.98	957.14	280.84	140.60	24373.71	Tonday
Mean	0.51	3.95	37.57	60.28	241.78	285.18	81.25	10.40	31.61	30.88	10.03	4.54	797.98	Ton/day
Max	1.13	73.02	125.21	342.47	1407.77	1946.59	646.67	21.28	39.73	49.03	14.01	7.30	1946.59	Ton/day
Min	0.07	0.07	5.42	1.13	1.70	50.84	4.09	7.30	22.81	14.01	7.14	3.94	0.07	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

Yom River at Ban Khlong Tan , Sukhothai (Y.33)

Lat 17 - 10 - 06 N Long 99 - 51 - 52 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

Ban Khlong Tan **Amphoe** Si Samrong **Changwat** Sukhothai

Drainge Area	13,948 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2016-Cont'd
Actual Measurement	2016-Cont'd
Using Rating Curve Water Year	2016
Number of observation	11
R-Square	0.9627
Remarks	Continued Sediment Station

$$QS = 1.1323\ QW^{1.45600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	79.24	278.40	4565.07	2657.57	1073.52	266.01	18.06	10.95	0.02	8948.84	
2	0.00	0.00	0.00	61.25	284.89	4070.44	3536.03	831.90	253.35	31.42	10.45	0.00	9079.72	
3	0.00	0.00	0.00	51.44	462.61	2820.24	3188.16	692.59	291.90	44.26	8.06	0.00	7559.26	
4	0.00	0.00	0.00	125.72	387.19	2448.50	4006.35	558.11	253.35	49.55	5.88	0.00	7834.65	
5	0.00	0.00	0.00	668.13	331.15	1849.69	4685.88	420.43	187.30	56.14	4.30	0.00	8203.02	
6	0.00	0.00	0.00	492.16	487.19	1027.29	4280.90	428.87	187.30	24.24	2.14	0.00	6930.08	
7	0.00	0.00	0.47	383.10	522.27	951.66	4232.04	605.26	74.92	8.68	1.57	0.00	6779.96	
8	0.00	0.00	0.04	399.56	680.32	904.49	4167.16	156.32	112.26	16.90	0.67	0.00	6437.73	
9	0.00	0.00	0.00	717.32	1473.94	680.32	4634.05	204.27	161.75	24.67	0.39	0.00	7896.70	
10	0.00	0.00	0.00	1347.18	1516.97	482.24	4496.42	457.74	193.04	22.53	1.30	0.00	8517.43	
11	0.00	0.00	0.00	1691.32	1144.06	793.12	3160.42	1508.34	98.63	43.22	2.04	0.00	8441.14	
12	0.00	0.00	0.00	1144.06	438.42	1991.86	1730.49	1900.09	130.07	19.65	0.89	0.00	7355.54	
13	0.00	0.00	0.04	761.25	362.84	4232.04	1482.51	1760.06	84.92	10.12	0.82	0.00	8694.59	
14	0.00	0.00	0.04	767.59	207.21	8131.80	1730.49	1613.81	74.92	16.90	0.32	4.55	12547.63	
15	0.00	0.00	0.00	621.24	298.02	13080.27	4599.52	1448.30	95.30	20.06	0.20	0.30	20163.20	
16	0.00	0.00	0.00	284.89	944.88	15712.44	4006.35	844.96	56.14	56.14	0.17	0.07	21906.04	
17	0.00	0.00	0.00	201.34	1516.97	11556.96	2669.76	589.41	74.92	108.80	0.15	0.00	16718.31	
18	0.00	0.00	0.00	219.11	5930.91	9689.74	1577.87	37.67	70.06	175.98	0.47	0.00	17701.82	
19	0.00	0.00	0.00	370.90	9523.01	11180.33	1971.35	291.90	62.98	204.69	0.97	0.00	23606.14	
20	0.00	0.00	0.00	387.19	6027.53	10832.35	1439.79	278.86	84.92	157.09	1.22	0.00	19208.96	
21	0.00	0.00	0.00	301.33	1081.29	7265.27	871.26	291.90	87.48	119.29	0.20	0.00	10018.02	
22	0.00	0.00	0.00	482.24	1422.81	7244.74	420.43	291.90	112.26	119.29	0.17	0.00	10093.84	
23	0.00	0.00	0.00	838.42	4479.20	4634.05	350.85	198.84	51.72	77.38	0.20	0.00	10630.65	
24	0.00	0.00	0.00	1058.04	4983.74	5036.76	338.99	198.84	19.65	42.19	6.44	0.00	11684.65	
25	0.00	0.00	0.00	686.45	3582.23	4313.57	315.65	247.09	14.27	33.30	3.45	0.00	9196.02	
26	0.00	0.00	0.00	552.94	2307.35	4496.42	311.81	138.90	9.63	36.19	2.77	0.00	7856.02	
27	0.00	0.00	44.78	512.17	2168.86	6517.90	589.41	82.38	6.87	25.10	1.39	0.00	9948.85	
28	0.00	0.00	51.44	428.87	2657.57	6241.81	2002.14	70.06	17.67	10.12	0.20	0.00	11479.88	
29	0.00	0.00	61.25	350.85	4895.46	5107.88	2116.31	57.83	8.99	10.61		0.00	12609.18	
30	0.00	0.00	65.61	291.44	6697.35	3990.38	1789.78	122.85	16.90	12.49		0.00	12986.78	
31		0.00		281.64	5486.46		1191.86		10.28	11.45		0.00	6981.69	
Total	0.00	0.00	223.67	16558.38	72581.11	161849.64	74551.61	17402.98	3169.75	1606.49	67.77	4.94	348016.35	Tonday
Mean	0.00	0.00	7.46	534.14	2341.33	5394.99	2404.89	580.10	102.25	51.82	2.42	0.16	11419.55	Ton/day
Max	0.00	0.00	65.61	1691.32	9523.01	15712.44	4685.88	1900.09	291.90	204.69	10.95	4.55	15712.44	Ton/day
Min	0.00	0.00	0.00	51.44	207.21	482.24	311.81	37.67	6.87	8.68	0.15	0.00	0.00	Ton/day

WATER YEAR : 2016

Yom RIVER BASIN

Yom River at Ban Wang Chin , Phrae (Y.37)

Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

Ban Wang Chin **Amphoe** Wang Chin **Changwat** Phrae

Drainge Area	10,305 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2007-Cont'd
Actual Measurement	2007-Cont'd
Using Rating Curve Water Year	2016
Number of observation	26
R-Square	0.7720
Remarks	Continued Sediment Station

$$QS = 0.3620\ QW^{1.71400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	11.60	8.53	330.91	6429.94	5567.45	1037.30	66.83	4.24	1.90	0.00	13458.70	
2	0.00	0.00	11.60	276.14	205.57	5485.08	4386.35	1037.30	60.95	5.61	2.14	0.00	11470.75	
3	0.00	0.00	26.09	2147.35	162.38	5200.85	6288.04	713.46	58.09	5.61	2.39	0.00	14604.27	
4	0.00	0.00	142.77	1106.62	213.92	3547.32	6766.15	653.13	49.86	4.68	2.39	0.00	12486.84	
5	0.00	0.00	190.14	469.62	276.14	2311.93	4883.76	801.92	47.37	4.68	1.90	0.00	8987.47	
6	0.00	0.00	103.47	330.91	429.80	1520.57	4575.03	595.04	44.94	5.14	1.67	0.00	7606.57	
7	0.00	0.00	83.90	524.98	1325.64	1232.38	5733.71	456.18	42.57	4.68	1.25	0.00	9405.28	
8	0.00	0.00	176.04	2408.23	3149.16	1089.11	8339.75	391.46	37.97	7.15	0.88	0.00	15599.74	
9	0.00	0.00	119.25	5485.08	2706.89	1769.01	5444.09	713.46	35.76	8.53	0.72	0.00	16282.80	
10	0.00	0.00	63.86	3673.79	1811.93	3299.96	3209.12	1441.26	33.60	9.26	0.49	0.00	13543.29	
11	0.00	0.00	42.57	1581.21	986.54	2432.56	2217.26	2055.59	27.47	15.05	0.49	0.00	9358.75	
12	0.00	0.00	33.60	1306.76	354.62	5241.07	1877.11	1811.93	27.47	27.47	0.57	0.00	10680.60	
13	0.00	0.00	24.74	801.92	239.78	22277.34	4767.00	1601.64	26.09	35.76	0.36	0.00	29774.64	
14	0.00	0.00	23.42	442.91	319.32	33879.57	8286.86	1141.97	24.74	37.97	0.08	0.00	44156.83	
15	0.00	0.00	19.65	239.78	945.06	37232.59	5001.70	595.04	22.13	44.94	0.01	0.00	44100.89	
16	0.00	0.00	16.15	162.38	3802.09	20825.55	2605.72	510.90	20.87	93.47	0.00	0.00	28037.14	
17	0.00	0.00	12.43	231.02	23580.92	21910.58	3179.08	429.80	22.13	60.95	0.00	0.00	49426.91	
18	0.00	0.00	11.60	190.14	39198.58	26477.44	2605.72	330.91	27.47	42.57	0.00	0.00	68884.43	
19	0.00	0.00	10.80	142.77	13313.49	23018.47	1769.01	276.14	20.87	31.50	0.00	0.00	38583.05	
20	0.00	0.00	11.60	354.62	3239.29	18129.76	1232.38	222.40	15.05	26.09	0.00	0.00	23231.19	
21	0.00	0.00	10.80	1159.82	4386.35	13382.87	986.54	197.37	13.28	20.87	0.00	0.00	20157.90	
22	0.00	0.00	9.26	1402.28	12224.02	7765.73	801.92	176.04	13.28	17.28	0.00	0.00	22409.81	
23	0.00	0.00	63.86	969.86	12763.92	8499.25	510.90	149.19	13.28	12.43	0.00	0.00	22982.68	
24	0.00	0.00	47.37	633.52	8076.72	5779.09	456.18	142.77	10.80	11.60	0.00	0.00	15158.05	
25	0.00	0.00	20.87	496.98	6429.94	5779.09	442.91	130.29	8.53	10.02	0.00	0.00	13318.63	
26	0.00	6.62	20.87	296.64	5962.09	9371.05	1705.44	119.25	7.83	7.15	0.00	0.00	17496.94	
27	0.00	27.47	23.42	205.57	8024.53	9204.89	3361.10	103.47	7.83	5.14	0.00	0.00	20963.42	
28	0.00	17.28	13.28	176.04	12290.98	6961.47	2288.11	98.42	6.11	3.41	0.00	0.00	21855.09	
29	0.00	13.28	7.15	119.25	18724.86	4130.83	1663.60	88.63	5.14	2.66		0.00	24755.39	
30	0.00	12.43	6.11	103.47	13591.89	3578.76	1363.73	72.95	4.68	2.66		0.00	18736.68	
31		11.60		248.67	9876.93		1054.45		3.81	2.14		0.00	11197.60	
Total	0.00	88.68	1358.28	27696.87	208944.25	317764.10	103370.19	18095.23	806.79	570.70	17.25	0.00	678712.34	Tonday
Mean	0.00	2.86	45.28	893.45	6740.14	10592.14	3334.52	603.17	26.03	18.41	0.62	0.00	22256.61	Ton/day
Max	0.00	27.47	190.14	5485.08	39198.58	37232.59	8339.75	2055.59	66.83	93.47	2.39	0.00	39198.58	Ton/day
Min	0.00	0.00	6.11	8.53	162.38	1089.11	442.91	72.95	3.81	2.14	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

Ban Forestry Office **Amphoe** Mueang **Changwat** Nan

Drainge Area	4,560 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1979-Cont'd
Actual Measurement	1979-Cont'd
Using Rating Curve Water Year	2016
Number of observation	30
R-Square	0.8600
Remarks	Continued Sediment Station

$$QS = 0.2300\ QW^{1.88500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.45	51.61	515.44	794.38	2202.49	15651.66	2336.50	557.58	148.37	68.92	32.39	8.67	22377.48
2	9.45	61.73	439.45	3799.57	1303.73	8977.27	2959.82	515.44	142.29	68.92	32.39	7.93	18317.99
3	8.67	61.73	355.70	11254.23	947.81	6430.26	3408.43	616.18	136.23	72.63	30.43	7.93	23330.22
4	8.67	72.63	646.50	3889.15	869.51	4854.82	2235.32	474.86	136.23	80.37	30.43	7.21	13305.70
5	10.26	51.61	709.21	1885.26	869.51	3986.06	1735.21	439.45	130.30	92.72	30.43	7.21	9947.23
6	14.02	23.16	417.73	4487.37	3324.66	14442.15	1885.26	396.53	124.58	130.30	30.43	7.21	25283.40
7	18.32	18.32	289.27	11883.17	7661.20	48769.17	4034.93	386.13	119.71	154.58	26.68	6.53	73368.02
8	21.49	14.02	336.06	7740.88	6779.39	28680.99	3536.73	396.53	119.71	119.71	24.89	6.53	47776.93
9	19.87	11.45	316.95	4084.09	3282.75	12637.19	2072.82	474.86	119.71	105.81	23.16	5.88	23154.54
10	15.39	9.45	180.89	2548.60	2137.19	8307.00	1735.21	543.36	115.02	101.31	23.16	5.88	15722.46
11	14.02	8.67	136.23	1676.89	1405.85	26629.51	1511.57	501.74	110.41	119.71	24.89	5.88	32145.37
12	18.32	7.21	110.41	1229.52	1565.78	50905.59	2268.71	501.74	105.81	174.11	21.49	5.26	56913.95
13	16.83	6.53	92.72	1092.32	14210.35	31236.88	3536.73	417.73	105.81	238.96	21.49	5.26	50981.60
14	14.02	7.21	80.37	1113.88	10299.93	16187.49	1915.79	365.71	101.31	174.11	19.87	4.12	30283.81
15	12.71	8.67	65.25	2336.50	125577.01	10028.32	1484.81	326.44	101.31	115.02	19.87	3.60	140079.50
16	12.71	23.16	48.47	1379.98	171207.86	8472.28	1254.03	307.59	101.31	92.72	19.87	3.21	182923.19
17	11.45	130.30	38.62	967.99	43233.12	5843.98	1157.36	298.37	96.97	84.42	18.32	3.21	51884.11
18	10.26	616.18	58.24	646.50	12856.61	5543.40	1050.24	271.48	101.31	76.42	18.32	3.21	21252.18
19	9.45	967.99	119.71	586.53	8061.66	5135.12	928.04	262.79	115.02	68.92	18.32	3.21	16276.77
20	9.45	326.44	238.96	2657.89	97024.83	6993.03	850.53	246.82	101.31	65.25	16.83	3.21	108534.54
21	8.67	375.86	601.27	3666.84	123912.21	10299.93	794.38	231.33	92.72	65.25	15.39	2.85	140066.71
22	8.67	365.71	201.77	3037.68	44507.15	4854.82	725.31	216.31	92.72	65.25	14.02	2.85	54092.26
23	12.71	174.11	130.30	2476.94	30373.54	3799.57	693.28	209.03	84.42	65.25	14.02	2.85	38036.02
24	11.45	105.81	130.30	2137.19	22368.88	3159.29	1229.52	201.77	80.37	68.92	12.71	2.51	29508.73
25	10.26	88.49	174.11	1379.98	13638.56	3282.75	741.58	194.62	80.37	61.73	10.26	2.51	19665.23
26	10.26	80.37	136.23	1205.24	9583.43	3200.07	1071.18	187.70	76.42	36.49	9.45	2.18	15599.03
27	24.89	92.72	110.41	1977.84	10574.28	3282.75	1050.24	174.11	72.63	34.41	8.67	2.18	17405.14
28	23.16	92.72	187.70	2371.25	27237.45	2731.94	741.58	167.45	72.63	34.41	8.67	2.18	33671.13
29	24.89	130.30	407.07	1854.66	14558.71	2621.22	616.18	161.00	72.63	32.39		1.88	20480.92
30	36.49	355.70	928.04	2009.07	15386.92	2169.57	631.26	154.58	68.92	32.39		2.51	21775.44
31		646.50		3408.43	17145.53		601.27		68.92	32.39		2.85	21905.90
Total	436.27	4986.38	8203.41	91579.84	844107.91	359114.07	50793.83	10199.25	3195.47	2733.80	576.83	138.48	1376065.54 Tonday
Mean	14.54	160.85	273.45	2954.19	27229.29	11970.47	1638.51	339.97	103.08	88.19	20.60	4.47	44797.61 Ton/day
Max	36.49	967.99	928.04	11883.17	171207.86	50905.59	4034.93	616.18	148.37	238.96	32.39	8.67	171207.86 Ton/day
Min	8.67	6.53	38.62	586.53	869.51	2169.57	601.27	154.58	68.92	32.39	8.67	1.88	1.88 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Rat Chang Khwan , Phichit (N.7A)

Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

Ban Rat Chang Khwan **Amphoe** Mueang **Changwat** Phichit

Drainge Area	27,897 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2001 - 2016
Number of observation	358
R-Square	0.6460
Remarks	Continued Sediment Station

$$QS = 1.5578\ QW^{1.28860}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	673.94	785.30	924.59	1084.82	1792.90	2396.95	6754.27	3077.46	729.14	1762.30	1632.53	2363.77	23977.99
2	641.29	785.30	981.61	1373.03	1973.93	2322.44	6420.20	2846.07	729.14	1733.27	1718.80	2256.65	23781.74
3	663.01	706.94	874.56	1243.82	2053.84	2158.77	6041.39	2305.95	745.89	1491.01	1824.10	2053.84	22163.12
4	679.41	701.42	862.15	1338.75	1989.86	1863.27	6163.02	2102.12	745.89	1470.04	1886.87	1878.99	21681.80
5	690.40	712.48	887.01	1498.02	1675.54	1596.89	6518.79	1704.35	949.84	1540.22	1950.10	1839.75	21563.38
6	690.40	701.42	905.76	1421.35	1575.58	1071.79	6630.10	1400.60	981.61	1526.12	2053.84	1831.92	20790.49
7	706.94	712.48	924.59	1792.90	1519.09	1084.82	6754.27	1097.88	1071.79	1547.28	1918.42	1855.42	20985.90
8	701.42	695.90	943.51	2405.26	1718.80	1084.82	6804.09	949.84	1110.98	1491.01	1902.63	2005.81	21814.08
9	673.94	701.42	880.78	2645.87	2240.27	1143.87	6779.17	1130.69	1020.04	1533.17	1878.99	2045.82	22674.02
10	657.57	729.14	849.78	3180.54	2538.07	1210.29	6716.97	1157.09	924.59	1618.25	1902.63	2134.45	23619.37
11	630.49	701.42	855.96	3706.98	2273.05	1078.30	6481.78	1250.54	893.25	1704.35	1918.42	2256.65	23751.20
12	635.88	679.41	862.15	3755.72	1800.69	987.99	6187.42	1582.68	1091.35	1726.03	1878.99	2314.19	23502.50
13	673.94	712.48	868.35	3322.31	1421.35	1071.79	6017.13	1878.99	1338.75	1808.49	1831.92	2166.88	23112.39
14	690.40	690.40	874.56	2873.63	1190.28	1449.12	5763.72	1800.69	1505.03	1902.63	1950.10	2021.79	22712.35
15	751.50	690.40	849.78	2380.35	1084.82	2493.45	5608.08	1718.80	1632.53	1824.10	2053.84	1989.86	23077.50
16	740.30	712.48	855.96	2126.36	1097.88	4710.69	5406.63	1540.22	1816.29	1675.54	2175.01	1839.75	24697.11
17	701.42	740.30	893.25	1785.12	1505.03	6029.26	5172.27	1400.60	1740.52	1661.18	2322.44	1747.78	25699.16
18	734.72	734.72	1000.79	1604.00	1547.28	6260.72	4885.39	1130.69	1800.69	1668.36	2405.26	1855.42	25628.03
19	695.90	740.30	899.50	1318.28	1505.03	6102.14	4301.60	1007.20	1965.98	1747.78	2449.00	2005.81	24738.52
20	652.13	774.00	880.78	1137.28	1568.49	6211.83	4031.25	987.99	1926.33	1831.92	2363.77	1973.93	24339.70
21	646.70	785.30	887.01	1230.38	1726.03	6654.90	3600.26	819.44	1926.33	1800.69	2199.43	1942.17	24218.65
22	663.01	762.73	887.01	1065.29	1733.27	6667.30	3049.48	779.65	1871.13	1704.35	2037.80	1965.98	23187.02
23	663.01	745.89	893.25	1196.94	1689.93	6407.90	2836.90	673.94	1740.52	1711.57	1997.83	1839.75	22397.45
24	652.13	751.50	837.45	1331.92	1661.18	6199.62	2618.82	718.02	1611.12	1816.29	1918.42	1618.25	21734.73
25	641.29	808.03	843.61	1519.09	1855.42	5847.92	2322.44	740.30	1463.06	1855.42	1934.25	1589.78	21420.59
26	630.49	837.45	868.35	1661.18	1918.42	5884.09	2493.45	831.30	1484.01	1785.12	1950.10	1526.12	21870.08
27	635.88	825.16	893.25	1777.34	2484.54	6199.62	2772.89	734.72	1554.34	1689.93	1981.89	1561.41	23110.99
28	723.58	802.33	887.01	1824.10	2636.85	6692.12	2800.29	768.36	1646.84	1863.27	2150.65	1661.18	24456.59
29	779.65	813.73	849.78	1894.74	2938.14	7016.70	2727.38	757.11	1689.93	1740.52		1816.29	23023.97
30	779.65	843.61	887.01	1950.10	3274.90	7054.37	2892.03	734.72	1689.93	1625.39		1654.01	23385.72
31		956.18		2547.01	3237.08		3096.15		1689.93	1575.58		1477.02	14578.96
Total	20500.35	23339.61	26609.16	59992.48	59227.58	116953.74	150647.64	39628.00	43086.83	52431.21	56188.06	59090.44	707695.11 Tonday
Mean	683.34	752.89	886.97	1935.24	1910.57	3898.46	4859.60	1320.93	1389.90	1691.33	2006.72	1906.14	23242.10 Ton/day
Max	779.65	956.18	1000.79	3755.72	3274.90	7054.37	6804.09	3077.46	1965.98	1902.63	2449.00	2363.77	7054.37 Ton/day
Min	630.49	679.41	837.45	1065.29	1084.82	987.99	2322.44	673.94	729.14	1470.04	1632.53	1477.02	630.49 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

Ban Hor Krai **Amphoe** Bang Mun Nak **Changwat** Phichit

Drainge Area	31,472 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	1997-2016
Number of observation	492
R-Square	0.6858
Remarks	Continued Sediment Station

$$QS = 2.3640\ QW^{1.24320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	775.29	937.17	1123.34	1093.00	2504.45	4480.53	10832.26	4354.81	1116.97	2018.52	1773.92	2544.70	33554.96
2	841.55	965.67	1116.97	1324.38	2586.22	4110.56	10121.41	4366.32	1081.30	2010.26	1862.89	2753.62	33141.16
3	824.88	954.25	1116.97	1566.09	2732.58	3904.77	9614.74	3934.22	1069.62	1879.15	1969.11	2544.70	32111.09
4	830.43	886.29	1046.34	1485.85	2816.92	3597.90	9715.67	3367.08	988.59	1701.78	2059.87	2267.93	30764.66
5	847.12	875.06	1040.54	1580.76	2764.15	2222.98	9850.55	3049.58	988.59	1693.80	2126.38	2160.34	29199.85
6	869.46	880.68	1069.62	1725.76	2495.27	1977.32	9816.80	2608.77	1187.48	1814.26	2267.93	2043.31	28756.67
7	880.68	880.68	1081.30	1814.26	2376.52	2513.64	10019.67	2132.50	1226.30	1798.10	2304.02	2068.16	29095.82
8	886.29	880.68	1110.60	2431.19	2331.16	2249.93	10515.16	1790.04	1317.80	1693.80	2151.42	2160.34	29518.41
9	880.68	869.46	1116.97	3224.14	2795.79	2118.04	10752.81	1681.05	1304.65	1741.79	2134.72	2304.02	30924.10
10	852.69	869.46	1063.79	3680.03	3475.69	2076.46	10673.48	1732.17	1219.81	1798.10	2084.76	2340.22	31866.67
11	830.43	891.92	1034.74	4480.53	3691.80	2051.59	10199.93	1790.04	1123.34	1928.12	2134.72	2440.33	32597.47
12	786.26	858.27	1040.54	5040.21	3322.13	1985.55	9985.80	1880.78	1142.51	1985.55	2143.07	2534.34	32705.02
13	802.77	852.69	1040.54	4935.11	2806.35	1993.78	9682.00	2139.73	1330.98	2026.77	2084.76	2544.70	32240.19
14	852.69	897.55	1052.15	4765.27	2331.16	2240.94	9239.05	2342.48	1725.76	2160.34	2109.71	2385.62	32102.72
15	858.27	858.27	1028.95	4275.63	2068.16	3051.37	9209.42	2287.09	1814.26	2258.93	2196.09	2276.94	32183.39
16	914.49	852.69	1034.74	3928.58	1903.60	5278.24	8943.57	2118.04	2026.77	2109.71	2322.10	2196.09	33628.64
17	920.15	897.55	1040.54	3575.11	1969.11	8130.80	8496.64	1992.13	2093.07	1960.90	2458.62	2035.04	35569.65
18	891.92	914.49	1116.97	3126.73	2322.10	9551.30	8135.13	1861.26	2059.87	1919.94	2638.32	1993.78	36531.81
19	908.84	937.17	1148.91	2565.45	2367.44	9928.65	7322.30	1617.57	2126.38	1936.30	2732.58	2143.07	35734.66
20	869.46	931.49	1087.15	2109.71	2304.02	10091.25	6990.29	1447.60	2258.93	2010.26	2806.35	2249.93	35156.43
21	819.34	959.96	1075.46	1969.11	2331.16	10655.95	6508.77	1365.56	2294.99	2093.07	2659.21	2214.01	34946.57
22	813.81	954.25	1075.46	2043.31	2412.94	11057.46	5813.34	1239.29	2285.96	2018.52	2403.83	2205.05	34323.21
23	824.88	937.17	1069.62	2076.46	2340.22	11038.28	5190.71	1140.05	2143.07	1936.30	2313.06	2160.34	33170.15
24	824.88	925.81	1069.62	2214.01	2285.96	10904.16	4765.27	996.25	2010.26	2010.26	2222.98	1944.49	32173.97
25	813.81	942.85	1046.34	2231.95	2358.36	10885.03	4127.01	926.76	1830.44	2076.46	2160.34	1790.04	31189.40
26	797.26	1000.09	1034.74	2458.62	2711.58	11057.46	3774.97	916.85	1685.83	2101.39	2178.20	1749.81	31466.78
27	797.26	1005.85	1063.79	2617.45	2997.77	11095.85	3774.97	923.45	1709.77	2010.26	2196.09	1709.77	31902.27
28	797.26	1000.09	1081.30	2838.08	3597.90	11442.52	3912.91	880.68	1757.84	2018.52	2331.16	1790.04	33448.29
29	819.34	971.39	1063.79	2923.03	3916.67	11539.19	4008.98	869.46	1895.45	2076.46		1928.12	32011.89
30	858.27	982.85	1052.15	2976.38	4532.04	10991.49	4137.77	1075.46	1903.60	2002.02		2002.02	32514.05
31		1052.15		3029.91	4557.84		4331.79		1903.60	1822.34		1790.04	18487.68
Total	25290.49	28623.94	32143.91	86106.11	86007.07	194222.99	240463.18	58827.06	50623.78	60611.99	62826.21	67270.89	993017.61 Tonday
Mean	843.02	923.35	1071.46	2777.62	2774.42	6474.10	7756.88	1960.90	1633.03	1955.23	2243.79	2170.03	32583.82 Ton/day
Max	920.15	1052.15	1148.91	5040.21	4557.84	11539.19	10832.26	4366.32	2294.99	2258.93	2806.35	2753.62	11539.19 Ton/day
Min	775.29	852.69	1028.95	1093.00	1903.60	1977.32	3774.97	869.46	988.59	1693.80	1773.92	1709.77	775.29 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

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

Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

Ban Wang Nok Aen **Amphoe** Wang Thong **Changwat** Phitsanulok

Drainge Area	1,838 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2016
Number of observation	36
R-Square	0.9205
Remarks	Continued Sediment Station

$$QS = 0.8028\ QW^{1.75710}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.06	145.04	531.24	1100.55	617.42	2917.90	296.18	30.33	6.20	1.15	0.40	5646.75	
2	0.20	0.06	80.30	434.64	480.23	418.83	2857.85	251.80	27.68	5.96	1.15	0.33	4559.02	
3	0.22	0.07	25.14	434.64	332.18	421.97	8835.26	212.90	25.76	5.96	1.04	0.33	10295.48	
4	0.05	0.06	16.99	939.58	234.44	307.07	9854.86	185.59	24.52	5.70	1.04	1.15	11571.04	
5	0.03	0.08	11.86	552.26	232.00	236.89	6719.11	164.08	23.30	5.47	0.93	1.52	7947.53	
6	0.03	0.08	7.81	1040.41	450.69	187.81	5442.65	153.48	21.53	5.47	0.93	1.40	7312.28	
7	0.02	0.07	6.47	9595.47	1067.48	199.05	5109.46	141.74	20.66	5.21	0.93	1.27	16147.85	
8	0.02	0.07	5.70	5109.46	1795.68	215.25	2994.57	140.17	19.81	5.21	0.83	1.15	10287.93	
9	0.02	0.07	5.21	2408.08	828.57	210.57	3476.09	161.99	18.98	5.21	0.73	0.93	7116.45	
10	0.01	0.07	11.86	992.02	538.21	274.91	2452.68	256.86	18.16	5.70	0.64	0.73	4551.84	
11	0.01	0.06	10.84	591.71	358.15	246.79	2520.24	210.57	17.35	6.20	0.55	0.47	3962.94	
12	0.01	0.06	8.69	391.02	400.20	467.00	1899.90	203.62	16.21	5.96	0.55	0.33	3393.55	
13	0.01	0.06	5.96	312.57	470.29	1787.86	1386.87	140.17	15.44	5.96	0.47	0.20	4125.87	
14	0.01	0.05	15.44	288.12	409.47	20836.48	1051.27	110.62	15.04	5.70	0.40	0.11	22732.71	
15	0.01	0.05	10.20	246.79	447.46	22817.05	1051.27	96.32	13.96	5.70	0.40	0.07	24689.27	
16	0.01	16.99	7.81	720.98	777.37	7310.51	949.97	86.88	13.58	5.96	0.33	0.05	9890.42	
17	0.01	12.18	7.55	473.60	632.33	4107.69	955.33	76.54	13.24	5.70	0.30	0.07	6284.52	
18	0.00	10.54	158.54	301.60	412.58	2967.78	713.07	69.16	12.54	5.21	0.27	0.06	4651.36	
19	0.00	14.30	32.38	160.33	318.12	2084.07	548.73	62.11	11.86	4.75	0.83	0.06	3237.55	
20	0.00	30.33	31.00	122.67	259.41	1936.15	467.00	56.44	11.50	4.10	0.64	0.05	2919.30	
21	0.00	24.52	18.98	128.90	227.16	2680.94	476.91	52.11	10.54	3.68	0.55	0.03	3624.32	
22	0.00	10.84	84.24	406.37	179.02	1756.72	662.59	49.16	10.54	3.29	0.47	0.01	3163.26	
23	0.00	7.81	77.75	548.73	394.07	1156.63	724.94	45.89	10.20	2.91	0.40	0.01	2969.34	
24	0.01	5.21	24.52	1368.36	538.21	908.71	818.77	43.50	9.91	2.55	0.40	0.01	3720.16	
25	0.03	3.47	89.55	1084.12	298.88	809.03	814.04	45.09	9.58	2.23	0.33	0.01	3156.34	
26	0.04	2.23	64.43	1338.22	460.45	1399.15	1454.82	47.51	8.97	2.08	0.33	0.00	4778.23	
27	0.05	1.94	71.59	781.47	599.01	2419.20	789.70	65.55	8.38	1.79	0.33	0.00	4739.00	
28	0.05	2.71	67.92	573.63	486.90	3786.21	628.59	44.29	8.11	2.08	0.40	0.01	5600.91	
29	0.06	1.94	194.52	595.35	309.81	2093.26	848.30	38.13	7.81	1.40		0.01	4090.60	
30	0.07	28.33	1040.41	1248.84	381.93	1936.15	493.61	34.49	7.00	1.27		0.01	5172.12	
31		81.64		1024.07	757.02		358.15		6.47	1.15		0.01	2228.52	
Total	1.26	255.89	2338.70	34745.24	16177.87	86597.14	70274.50	3542.97	468.99	135.76	17.35	10.77	214566.45	Tonday
Mean	0.04	8.25	77.96	1120.81	521.87	2886.57	2266.92	118.10	15.13	4.38	0.62	0.35	7021.00	Ton/day
Max	0.30	81.64	1040.41	9595.47	1795.68	22817.05	9854.86	296.18	30.33	6.20	1.15	1.52	22817.05	Ton/day
Min	0.00	0.05	5.21	122.67	179.02	187.81	358.15	34.49	6.47	1.15	0.27	0.00	0.00	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nam Khwae Noi at Ban Nong Krathao , Phitsanulok (N.36)

Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

Ban Nong Krathao **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	1,710 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2000-Cont'd
Actual Measurement	2000-Cont'd
Using Rating Curve Water Year	2016
Number of observation	27
R-Square	0.9487
Remarks	Continued Sediment Station

$$QS = 3.0929\ QW^{1.4610}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	7.02	1576.45	4132.25	1980.87	1850.87	1923.65	289.18	51.28	38.37	25.13	32.13	11907.22	
2	0.00	7.02	968.12	4220.57	1747.33	1875.04	1755.23	255.00	38.37	38.37	27.41	32.13	10964.58	
3	0.00	7.37	810.11	4087.88	1433.42	1692.36	1668.97	226.85	30.93	37.09	27.41	33.35	10055.76	
4	0.00	8.14	1426.02	3826.13	1235.96	1440.84	1997.31	196.46	30.93	37.09	28.57	33.35	10260.81	
5	0.09	8.14	1276.85	3569.92	1478.13	1115.84	2545.10	180.82	47.65	37.09	28.57	34.59	10322.79	
6	0.12	8.94	552.78	2736.14	1883.11	890.80	3912.77	165.76	44.94	38.37	29.74	34.59	10298.05	
7	0.42	9.57	237.28	9608.87	2309.12	873.30	3956.11	156.93	42.27	39.65	29.74	34.59	17297.86	
8	1.40	10.15	131.65	10569.57	3011.99	1031.53	2518.48	148.24	40.95	40.95	30.93	35.83	17571.68	
9	1.83	10.74	74.73	8164.41	2849.39	1389.16	2768.40	145.38	39.65	42.27	30.93	35.83	15552.73	
10	1.72	10.74	72.67	6287.79	2283.31	1433.42	3121.95	209.80	39.65	43.60	30.93	37.09	13572.67	
11	3.57	11.40	64.63	4443.05	1493.12	1083.16	5238.77	262.19	38.37	44.94	30.93	38.37	12752.50	
12	2.72	11.40	76.81	2957.47	1089.67	1367.19	3233.16	186.96	38.37	46.29	30.93	39.65	9080.63	
13	0.00	11.40	70.63	2655.82	821.49	4000.02	2172.53	136.91	37.09	44.94	30.93	40.95	10022.73	
14	0.00	12.08	47.65	2317.74	640.36	7740.00	1530.82	134.12	37.09	43.60	29.74	42.27	12575.47	
15	4.19	9.57	42.27	1607.11	677.58	13355.20	1188.79	119.47	37.09	42.27	29.74	43.60	17156.87	
16	4.89	8.94	39.65	1325.09	1338.98	10447.91	955.86	100.79	38.37	39.65	28.57	43.60	14372.30	
17	5.52	8.94	40.95	1493.12	1645.69	7426.42	879.12	91.83	38.37	38.37	28.57	43.60	11740.50	
18	5.90	10.15	58.79	902.52	1530.82	5965.31	793.14	83.14	39.65	35.83	28.57	43.60	9497.43	
19	6.62	26.26	1931.79	578.11	1381.82	5238.77	640.36	78.90	39.65	34.59	28.57	43.60	10029.04	
20	7.02	129.18	1771.06	464.61	1025.13	4744.19	583.22	76.81	39.65	33.35	29.74	42.27	8946.24	
21	6.62	593.48	635.09	532.77	1050.80	5301.67	532.77	72.67	38.37	32.13	29.74	42.27	8868.39	
22	6.62	213.17	85.29	532.77	855.92	4324.36	459.85	70.63	37.09	30.93	29.74	42.27	6688.66	
23	7.02	70.63	422.59	1142.20	937.97	2832.90	656.23	74.73	35.83	29.74	29.74	42.27	6281.86	
24	7.02	38.37	223.41	1875.04	2328.17	2223.44	914.29	76.81	35.83	28.57	29.74	43.60	7824.28	
25	7.37	38.37	105.37	2197.94	2088.51	1786.93	1057.25	72.67	37.09	28.57	29.74	43.60	7493.41	
26	7.02	39.65	400.71	2486.44	1715.85	2046.90	1352.91	70.63	38.37	27.41	29.74	44.94	8260.57	
27	6.62	38.37	469.38	2328.17	1645.69	2291.90	850.15	74.73	39.65	26.26	29.74	49.46	7850.13	
28	6.62	34.59	902.52	1883.11	1584.10	3011.99	567.93	70.63	40.95	24.02	30.93	53.13	8210.53	
29	6.62	29.74	2930.33	1739.44	1389.16	2497.10	522.85	66.61	39.65	22.93		55.00	9299.44	
30	6.62	117.08	4132.25	2063.51	1561.20	2063.51	436.31	64.63	39.65	22.09		56.88	10563.75	
31		1826.81		2071.84	1866.97		345.58		38.37	21.35		49.46	6220.38	
Total	114.20	3367.43	21577.84	94801.41	48881.62	103342.05	51079.88	3960.33	1211.20	1090.67	824.76	1287.84	331539.23	Tonday
Mean	3.81	108.63	719.26	3058.11	1576.83	3444.74	1647.74	132.01	39.07	35.18	29.46	41.54	10836.37	Ton/day
Max	7.37	1826.81	4132.25	10569.57	3011.99	13355.20	5238.77	289.18	51.28	46.29	30.93	56.88	13355.20	Ton/day
Min	0.00	7.02	39.65	464.61	640.36	873.30	345.58	64.63	30.93	21.35	25.13	32.13	0.00	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

Ban Wang Pong **Amphoe** Chon Dan **Changwat** Phetchabun

Drainge Area	174 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	2009 - 2016
Number of observation	85
R-Square	0.8064
Remarks	Continued Sediment Station

$$QS = 5.6200\ QW^{1.44910}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	27.61	77.22	100.18	84.67	3.01	1.60	0.20	0.00	0.00	294.50	
2	0.00	0.00	0.00	144.96	92.32	80.92	71.07	2.62	1.60	0.20	0.00	0.00	393.68	
3	0.00	0.00	0.00	810.65	130.47	77.22	59.24	2.06	1.60	0.20	0.00	0.00	1081.45	
4	0.00	0.00	0.00	253.14	140.08	74.13	59.24	3.01	1.60	0.20	0.00	0.00	531.39	
5	0.00	0.00	0.00	121.08	96.23	108.23	53.58	4.07	0.98	0.23	0.00	0.00	384.40	
6	0.00	0.00	0.00	48.10	253.14	130.47	48.10	8.22	0.98	0.23	0.00	0.00	489.25	
7	0.00	0.00	0.00	164.98	260.06	112.33	48.10	17.16	0.98	0.23	0.00	0.00	603.84	
8	0.00	0.00	0.00	100.18	92.32	84.67	41.59	2.55	0.00	0.23	0.00	0.00	321.55	
9	0.00	0.00	0.00	74.13	77.22	71.07	33.39	3.63	4.07	0.23	0.00	0.00	263.74	
10	0.00	0.00	0.00	62.13	62.13	84.67	27.61	3.63	3.01	0.23	0.00	0.00	243.42	
11	0.00	0.00	0.00	48.10	22.94	71.07	21.45	3.63	1.54	0.14	0.00	0.00	168.88	
12	0.00	0.00	0.00	37.42	14.46	100.18	15.79	3.63	0.36	0.14	0.00	0.00	171.99	
13	0.00	0.00	0.00	9.15	13.17	80.92	11.11	3.35	0.36	0.14	0.00	0.00	118.21	
14	0.00	0.00	0.00	84.67	12.12	3078.47	8.22	2.81	0.36	0.14	0.00	0.00	3186.80	
15	0.00	0.00	0.00	207.11	11.11	548.56	8.22	2.81	0.36	0.14	0.00	0.00	778.31	
16	0.00	0.00	0.00	176.71	8.22	182.67	6.45	2.55	0.36	0.10	0.00	0.00	377.07	
17	0.00	0.00	0.00	207.11	7.32	130.47	6.45	2.55	0.36	0.10	0.00	0.00	354.36	
18	0.00	0.00	0.00	125.75	4.07	1548.15	5.62	2.55	0.36	0.10	0.00	0.00	1686.60	
19	0.00	0.00	0.00	343.35	3.42	267.04	5.62	2.55	0.36	0.10	0.00	0.00	622.43	
20	0.00	0.00	0.00	207.11	3.01	92.32	4.82	2.55	0.36	0.10	0.00	0.00	310.27	
21	0.00	0.00	0.00	96.23	2.06	170.82	4.07	2.30	1.54	0.14	0.00	0.00	277.16	
22	0.00	0.00	0.00	39.49	2.06	84.67	4.07	2.30	0.36	0.14	0.00	0.00	133.09	
23	0.00	0.00	0.00	572.29	5.62	84.67	3.85	2.30	0.36	0.14	0.00	0.00	669.24	
24	0.00	0.00	0.00	200.91	21.45	267.04	3.63	2.30	0.36	0.14	0.00	0.00	495.83	
25	0.00	0.00	0.00	80.92	17.16	84.67	3.63	2.06	0.36	0.05	0.00	0.00	188.85	
26	0.00	0.00	0.00	11.11	10.11	170.82	3.63	2.06	0.36	0.05	0.00	0.00	198.14	
27	0.00	0.00	0.00	41.59	15.79	100.18	3.42	2.06	0.36	0.05	0.00	0.00	163.46	
28	0.00	0.00	0.00	84.67	59.24	77.22	3.42	2.06	0.36	0.05	0.00	0.00	227.03	
29	0.00	0.00	0.00	327.16	875.29	239.47	3.21	2.06	0.36	0.05		0.00	1447.61	
30	0.00	0.00	0.00	200.91	1864.45	104.18	3.01	2.06	0.36	0.02		0.00	2174.99	
31		0.00		213.36	281.16		3.01		0.20	0.00		0.00	497.73	
Total	0.00	0.00	0.00	5122.08	4535.44	8407.48	659.31	100.51	26.18	4.24	0.00	0.00	18855.23	Tonday
Mean	0.00	0.00	0.00	165.23	146.30	280.25	21.27	3.35	0.84	0.14	0.00	0.00	617.38	Ton/day
Max	0.00	0.00	0.00	810.65	1864.45	3078.47	84.67	17.16	4.07	0.23	0.00	0.00	3078.47	Ton/day
Min	0.00	0.00	0.00	9.15	2.06	71.07	3.01	2.06	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

Ban Tha Sakae **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	971 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1994-Cont'd
Actual Measurement	1994-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.8812
Remarks	Continued Sediment Station

$$QS = 1.0407\ QW^{1.83740}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.79	37.46	577.99	368.01	371.35	455.48	120.86	11.86	10.95	2.94	1.78	1960.36
2	0.89	0.79	30.09	543.05	163.93	304.71	806.24	119.20	11.40	9.65	2.94	1.64	1994.54
3	0.89	0.79	21.52	193.86	125.92	219.43	731.75	76.92	11.40	9.23	2.76	1.64	1396.12
4	0.79	0.79	16.91	122.54	100.05	198.02	903.96	68.06	10.95	8.22	2.76	1.64	1434.68
5	0.79	0.79	12.33	63.50	94.01	167.79	806.24	62.39	10.07	7.64	2.76	1.64	1229.96
6	0.79	0.79	9.65	609.37	357.54	127.63	879.05	60.18	9.65	7.36	2.58	1.64	2066.22
7	0.79	0.79	6.81	1946.59	655.51	119.20	1120.07	62.39	9.65	6.54	2.58	1.50	3932.41
8	0.79	0.79	4.81	2664.05	787.31	139.86	980.57	61.28	9.23	6.28	2.41	1.50	4658.89
9	0.79	0.79	4.14	2404.83	777.92	127.63	1098.06	83.85	8.82	6.02	2.41	1.50	4516.76
10	0.79	0.79	3.32	1680.53	330.65	125.92	773.25	81.04	8.52	5.52	2.25	1.50	3014.07
11	0.79	0.69	2.94	811.01	154.47	114.27	801.49	83.85	8.22	5.28	2.25	1.50	1986.75
12	0.79	0.69	2.94	264.76	131.07	569.16	859.36	56.94	7.93	5.04	2.25	1.50	1902.43
13	0.79	0.69	2.76	165.86	115.90	1103.54	560.39	46.74	7.36	4.81	2.09	1.50	2012.42
14	0.79	0.69	2.58	141.65	109.43	1707.23	447.86	48.70	6.81	4.58	2.09	1.64	2474.06
15	0.79	0.79	2.58	122.54	98.52	2889.74	440.01	39.24	6.54	4.36	2.09	1.64	3608.83
16	0.79	0.79	2.41	74.22	169.74	3518.19	295.36	34.86	6.54	4.14	2.09	1.64	4110.76
17	0.79	0.79	10.07	60.18	232.76	3230.43	210.75	33.17	6.28	3.72	1.93	1.64	3792.51
18	0.79	0.79	193.86	35.71	239.56	2813.58	185.66	30.80	6.28	3.72	1.93	1.50	3514.18
19	0.79	1.00	698.34	24.66	165.86	2332.26	160.12	29.38	6.02	3.52	1.93	1.50	3425.39
20	0.79	3.93	141.65	13.78	141.65	2120.65	193.86	28.00	6.02	3.52	1.78	1.50	2657.12
21	0.79	6.54	22.76	85.27	212.90	1965.59	152.61	28.00	5.77	3.32	1.78	1.50	2486.83
22	0.79	4.14	9.23	88.14	183.63	1081.68	136.31	28.00	5.52	3.32	1.78	1.50	1544.04
23	0.79	2.58	10.51	59.09	298.38	674.40	122.54	27.31	5.52	2.94	1.78	1.37	1207.21
24	0.79	2.58	7.93	112.65	655.51	514.26	470.88	27.31	5.28	2.76	1.64	1.37	1802.95
25	0.79	2.58	6.54	117.54	740.89	443.93	522.37	26.64	5.28	2.76	1.64	1.37	1872.32
26	0.79	2.58	6.28	237.28	564.77	777.92	443.93	18.58	5.52	2.58	1.64	1.50	2063.38
27	0.79	2.41	11.86	191.79	573.56	712.90	210.75	16.91	6.28	2.58	1.78	1.50	1733.12
28	0.79	2.41	22.76	206.47	447.86	1006.74	273.66	15.83	10.07	2.41	1.78	1.64	1992.43
29	0.79	2.25	127.63	131.07	360.83	740.89	181.62	14.79	9.23	2.41		1.64	1573.13
30	0.79	7.93	745.47	177.62	859.36	498.23	162.02	12.81	8.82	2.58		1.64	2477.26
31		228.28		152.61	792.03		143.45		8.82	2.58		1.64	1329.41
Total	23.98	283.03	2178.14	14080.21	11009.54	30717.11	15529.66	1444.02	245.69	150.35	60.63	48.17	75770.53 Tonday
Mean	0.80	9.13	72.60	454.20	355.15	1023.90	500.96	48.13	7.93	4.85	2.17	1.55	2481.37 Ton/day
Max	0.89	228.28	745.47	2664.05	859.36	3518.19	1120.07	120.86	11.86	10.95	2.94	1.78	3518.19 Ton/day
Min	0.79	0.69	2.41	13.78	94.01	114.27	122.54	12.81	5.28	2.41	1.64	1.37	0.69 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nam Fua at Ban Nam Fua , Phitsanulok (N.58)

Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

Ban Nam Fua **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	317 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7488
Remarks	Continued Sediment Station

$QS = 21.4143\ QW^{1.50080}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.90	7.57	27.80	1347.87	20.77	435.27	126.17	116.99	29.93	22.71	15.32	14.47	2171.77
2	6.90	7.57	21.74	272.08	18.90	414.37	122.70	97.74	29.93	22.71	15.32	14.47	1044.41
3	6.90	7.57	17.98	84.71	17.98	393.81	116.99	82.18	29.93	22.71	14.47	13.63	808.85
4	7.57	7.57	16.19	33.22	19.83	380.31	111.37	72.32	28.86	23.70	14.47	13.63	729.03
5	7.57	7.57	13.63	20.77	27.80	366.96	108.60	66.14	28.86	23.70	14.47	13.63	699.69
6	7.57	7.57	12.00	13.63	60.60	347.23	114.17	60.60	28.86	23.70	13.63	13.63	703.19
7	7.57	7.57	11.22	72.32	66.14	414.37	126.17	57.00	28.86	23.70	13.63	13.63	842.17
8	7.57	7.57	11.22	473.57	64.28	540.06	119.83	55.23	27.80	23.70	13.63	13.63	1358.08
9	7.57	8.26	10.45	960.85	58.79	583.07	119.83	53.47	27.80	24.71	13.63	14.47	1882.90
10	6.90	8.26	9.70	837.85	57.00	609.40	114.17	51.74	27.80	24.71	13.63	14.47	1775.62
11	6.90	8.26	8.26	373.61	50.02	557.13	119.83	48.33	27.80	24.71	13.63	14.47	1252.94
12	6.90	8.26	7.57	129.67	48.33	719.56	119.83	43.36	26.76	24.71	13.63	15.32	1163.87
13	6.90	8.26	7.57	40.14	46.65	910.98	114.17	43.36	26.76	23.70	12.81	15.32	1256.60
14	7.57	8.26	6.90	29.93	43.36	1128.94	105.85	41.74	26.76	22.71	12.81	15.32	1450.14
15	7.57	8.26	6.90	23.70	43.36	1456.84	103.12	40.14	26.76	22.71	12.81	15.32	1767.48
16	7.57	7.57	6.25	29.93	46.65	986.12	92.45	40.14	26.76	21.74	12.81	15.32	1293.30
17	7.57	7.57	6.25	29.93	55.23	698.89	95.08	38.57	25.73	21.74	12.81	16.19	1015.54
18	6.90	7.57	8.26	26.76	53.47	600.58	89.85	37.01	25.73	20.77	12.81	16.19	905.89
19	6.90	7.57	11.22	24.71	62.43	540.06	84.71	37.01	25.73	20.77	12.00	16.19	849.30
20	6.90	7.57	12.81	22.71	72.32	481.72	79.68	35.48	25.73	19.83	12.00	16.19	792.93
21	6.90	11.22	11.22	27.80	60.60	387.04	72.32	35.48	24.71	19.83	12.00	16.19	685.31
22	6.90	15.32	10.45	33.22	66.14	353.77	74.75	34.35	24.71	18.90	12.00	17.08	667.57
23	6.90	20.77	12.81	28.86	57.00	407.48	82.18	34.35	24.71	18.90	12.00	17.08	723.03
24	6.90	22.71	25.73	27.80	46.65	360.34	74.75	34.35	24.71	18.90	12.81	17.08	672.71
25	6.90	11.22	87.26	25.73	74.75	260.16	72.32	33.22	23.70	17.98	13.63	17.08	643.94
26	7.57	20.77	162.58	24.71	66.14	236.86	68.02	33.22	23.70	17.98	13.63	17.08	692.25
27	7.57	18.90	266.09	23.70	53.47	231.14	68.02	32.11	23.70	17.08	14.47	17.98	774.24
28	7.57	23.70	574.38	22.71	55.23	203.30	66.14	32.11	23.70	16.19	14.47	17.98	1057.49
29	7.57	26.76	2128.13	20.77	591.80	177.98	62.43	31.02	22.71	16.19		17.98	3103.34
30	7.57	44.99	12923.00	25.73	8553.17	147.64	60.60	31.02	22.71	15.32		17.98	21849.73
31		44.99		23.70	638.11		58.79		22.71	15.32		17.98	821.61
Total	216.94	417.54	16435.53	5132.72	11196.98	15331.38	2944.85	1449.79	814.92	652.03	375.30	486.93	55454.91 Tonday
Mean	7.23	13.47	547.85	165.57	361.19	511.05	95.00	48.33	26.29	21.03	13.40	15.71	1826.12 Ton/day
Max	7.57	44.99	12923.00	1347.87	8553.17	1456.84	126.17	116.99	29.93	24.71	15.32	17.98	12923.00 Ton/day
Min	6.90	7.57	6.25	13.63	17.98	147.64	58.79	31.02	22.71	15.32	12.00	13.63	6.25 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Lam Nam Khan at Ban Na Pho Na Chan , Phitsanulok (N.59)

Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Chan.

Ban Na Chan **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	415 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	28
R-Square	0.8585
Remarks	Continued Sediment Station

$$QS = 3.8012\ QW^{1.71160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.42	0.35	138.88	3772.33	135.47	81.30	819.87	37.13	11.34	2.64	1.92	1.73	5003.37	
2	0.42	0.35	42.58	985.63	120.52	84.30	162.88	33.88	11.34	2.64	1.92	1.73	1448.18	
3	0.42	0.35	9.77	1324.88	81.30	204.32	585.61	31.37	11.03	2.64	1.92	1.73	2255.33	
4	0.42	0.50	22.29	1708.06	67.39	80.15	322.17	28.65	11.03	2.59	1.92	1.73	2246.89	
5	0.42	0.53	14.20	414.84	1369.07	60.75	176.26	26.89	10.74	2.59	1.87	1.73	2079.88	
6	0.39	0.42	44.70	2960.72	564.41	41.88	680.25	25.60	10.74	2.59	1.87	1.73	4335.31	
7	0.39	0.35	10.44	7075.61	773.69	176.26	305.29	24.75	10.44	2.59	1.87	1.73	8383.41	
8	0.39	0.35	7.26	4413.83	497.42	439.98	585.61	26.45	10.15	2.59	1.87	1.73	5987.62	
9	0.39	0.35	11.34	1904.37	313.28	210.75	857.37	25.60	10.15	2.59	1.87	1.73	3339.79	
10	0.39	0.35	5.82	773.69	170.92	272.30	2872.37	23.10	9.96	2.59	1.87	1.73	4135.08	
11	0.39	0.65	3.65	502.78	89.96	76.09	2492.02	21.89	9.96	2.59	1.87	1.68	3203.54	
12	0.39	1.25	7.26	546.57	79.24	1708.06	828.88	21.10	9.77	2.59	1.87	1.59	3208.58	
13	0.39	2.53	30.91	695.29	68.24	2273.59	240.53	20.71	9.77	2.53	1.82	1.50	3347.82	
14	0.37	1.38	14.20	261.40	58.13	7979.01	123.78	19.55	9.96	2.53	1.82	1.50	8473.64	
15	0.37	2.02	8.48	160.44	81.30	6093.11	144.08	18.42	9.96	2.48	1.82	1.46	6523.93	
16	0.37	13.22	5.07	244.14	571.61	2155.85	152.62	15.90	10.15	2.43	1.82	1.46	3174.64	
17	0.37	51.14	11.95	227.01	210.75	1210.00	117.30	14.87	2.12	2.43	1.78	1.46	1851.17	
18	0.37	1499.07	276.48	103.25	181.67	755.65	76.09	14.53	2.27	2.37	1.78	1.50	2915.04	
19	0.37	546.57	187.15	73.22	71.25	729.20	54.59	13.87	2.43	2.27	1.78	1.50	1684.20	
20	0.37	52.85	84.30	54.59	40.50	2226.18	70.17	15.90	2.75	2.22	1.73	1.50	2553.08	
21	0.37	11.03	58.13	49.45	135.47	1089.35	25.60	14.53	2.70	2.17	1.73	1.55	1392.07	
22	0.37	3.34	23.10	276.48	773.69	791.91	22.29	12.26	2.70	2.17	1.73	1.55	1911.58	
23	0.37	2.87	135.47	77.21	2179.19	334.87	24.75	10.74	2.70	2.12	1.73	1.59	2773.60	
24	0.37	1.78	115.70	1065.85	513.59	244.14	192.69	9.96	2.64	2.12	1.73	1.59	2152.16	
25	0.37	7.09	261.40	1516.05	261.40	465.72	115.70	9.77	2.64	2.12	1.73	1.59	2645.59	
26	0.35	2.32	84.30	1310.28	155.31	711.60	92.85	10.15	2.59	2.07	1.73	1.64	2375.17	
27	0.35	1.68	128.73	1672.44	147.59	1465.35	85.70	13.54	2.59	2.02	1.73	1.64	3523.35	
28	0.35	1.59	230.54	395.18	101.74	1031.34	70.17	14.87	2.59	2.02	1.73	1.68	1853.79	
29	0.35	6.13	4255.77	198.31	85.70	326.24	61.77	12.58	2.59	1.97		1.68	4953.08	
30	0.35	165.34	4216.64	204.32	165.34	223.86	54.59	11.95	2.53	1.97		1.68	5048.56	
31		508.17		147.59	233.73		46.87		2.53	1.92		1.68	942.49	
Total	11.43	2885.89	10446.50	35115.83	10298.87	33543.11	12460.73	580.49	204.84	73.10	50.81	50.35	105721.95	Tonday
Mean	0.38	93.09	348.22	1132.77	332.22	1118.10	401.96	19.35	6.61	2.36	1.81	1.62	3458.50	Ton/day
Max	0.42	1499.07	4255.77	7075.61	2179.19	7979.01	2872.37	37.13	11.34	2.64	1.92	1.73	7979.01	Ton/day
Min	0.35	0.35	3.65	49.45	40.50	41.88	22.29	9.77	2.12	1.92	1.73	1.46	0.35	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Pha Khwang , Nan (N.64)

Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

Ban Pha Khwang **Amphoe** Mueang **Changwat** Nan

Drainge Area	3,476 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1994-Cont'd
Actual Measurement	1994-Cont'd
Using Rating Curve Water Year	2016
Number of observation	26
R-Square	0.7290
Remarks	Continued Sediment Station

$QS = 1.1040\ QW^{2.02000}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.66	14.75	378.79	276.07	1035.76	14249.25	1264.51	288.02	39.82	20.09	10.24	6.97	17584.94	
2	0.54	23.07	139.97	8315.71	532.61	6877.03	1870.18	264.38	39.82	20.09	10.24	6.26	18099.88	
3	0.54	30.87	79.77	5637.89	495.64	4804.25	1671.75	264.38	39.82	18.67	10.24	6.26	13060.09	
4	0.54	30.87	224.21	1671.75	312.67	3434.44	1164.65	243.88	39.82	17.31	10.24	5.58	7155.96	
5	0.54	17.31	325.39	1368.51	495.64	3151.19	936.27	243.88	36.71	28.14	10.24	5.58	6619.40	
6	0.54	13.54	100.19	4919.22	2924.55	12890.23	1239.16	233.94	33.73	21.55	10.24	6.26	22393.14	
7	0.54	8.53	94.87	8620.00	5035.57	26769.51	3882.40	214.69	30.87	20.09	10.24	5.58	44692.87	
8	0.54	8.53	119.24	5153.28	2455.99	18494.05	2225.87	170.21	30.87	20.09	10.24	5.58	28694.48	
9	0.54	7.73	94.87	2263.16	1545.71	8091.12	1395.16	170.21	30.87	18.67	10.24	5.58	13633.85	
10	0.54	7.73	43.06	1424.65	811.49	6538.90	1164.65	205.38	28.14	20.09	9.36	4.94	10258.92	
11	1.02	6.97	18.67	710.15	513.96	27247.78	936.27	224.21	28.14	21.55	9.36	4.94	29723.03	
12	1.98	6.26	23.07	551.60	2969.20	41581.45	1671.75	214.69	28.14	23.07	9.36	4.94	47085.50	
13	1.98	4.94	20.09	442.70	21151.75	23023.67	2079.84	205.38	28.14	23.07	8.53	4.94	46995.02	
14	1.98	4.34	17.31	638.62	11696.75	12586.37	1239.16	196.27	28.14	21.55	8.53	2.91	26441.93	
15	1.98	4.34	17.31	1424.65	93465.52	8391.27	936.27	170.21	25.54	18.67	8.53	2.27	104466.55	
16	1.98	139.97	10.24	685.88	81635.36	7507.37	759.97	162.37	25.54	28.14	8.53	2.27	90967.62	
17	1.98	84.66	11.29	662.04	17528.95	4522.83	615.63	154.71	25.54	36.71	8.53	2.27	23655.14	
18	1.98	365.06	12.39	662.04	8391.27	4690.65	513.96	154.71	23.07	30.87	7.73	2.27	14855.99	
19	2.58	392.78	28.14	1035.76	5762.48	3580.68	392.78	147.25	23.07	28.14	7.73	2.27	11403.66	
20	5.58	214.69	425.73	1639.77	62083.75	9647.10	392.78	139.97	23.07	23.07	7.73	2.27	74605.50	
21	8.53	100.19	125.96	2579.69	74551.81	6472.30	365.06	125.96	23.07	23.07	7.73	2.58	84385.94	
22	8.53	89.69	61.70	2415.44	28872.89	3730.00	365.06	106.35	23.07	23.07	7.73	2.58	35706.10	
23	8.53	33.73	43.06	1870.18	17410.15	2496.88	338.35	100.19	23.07	18.67	6.97	2.27	22352.05	
24	8.53	13.54	33.73	968.87	13718.41	2188.89	312.67	94.87	21.55	16.01	6.97	2.27	17386.31	
25	8.53	9.36	53.55	638.62	10392.37	1704.04	300.22	61.70	21.55	14.75	6.97	2.27	13213.94	
26	8.53	20.09	39.82	734.85	7223.77	2376.90	425.73	53.55	21.55	14.75	6.97	2.27	10928.77	
27	4.34	49.92	66.00	1214.06	11599.94	2188.89	477.66	49.92	21.55	13.54	6.97	1.98	15694.79	
28	3.26	39.82	79.77	1576.75	26138.48	1424.65	442.70	46.43	20.09	12.39	6.97	1.98	29793.29	
29	2.58	57.55	75.04	1545.71	11891.60	1514.98	425.73	46.43	20.09	12.39		1.98	15594.07	
30	2.58	132.87	162.37	1395.16	19235.01	1368.51	288.02	39.82	20.09	12.39		1.98	22658.80	
31		300.22		1264.51	14464.44		243.88		18.67	10.24		2.27	16304.22	
Total	92.43	2233.91	2925.60	64307.29	556343.50	273545.19	30338.07	4793.94	843.21	630.90	243.39	114.32	936411.74	Tonday
Mean	3.08	72.06	97.52	2074.43	17946.56	9118.17	978.65	159.80	27.20	20.35	8.69	3.69	30510.21	Ton/day
Max	8.53	392.78	425.73	8620.00	93465.52	41581.45	3882.40	288.02	39.82	36.71	10.24	6.97	93465.52	Ton/day
Min	0.54	4.34	10.24	276.07	312.67	1368.51	243.88	39.82	18.67	10.24	6.97	1.98	0.54	Ton/day

WATER YEAR : 2016

Nan RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

Ban Pang Sa **Amphoe** Tha Wang Pha **Changwat** Nan

Drainge Area	621 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	30
R-Square	0.7170
Remarks	Continued Sediment Station

$$QS = 0.5570\ QW^{1.67800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.42	6.19	20.04	38.23	27.34	348.93	81.66	33.40	10.95	5.63	4.09	1.98	579.88
2	1.42	3.62	16.74	230.77	18.36	214.37	98.73	56.03	10.95	5.63	3.62	1.98	662.22
3	1.64	1.42	25.43	62.56	14.31	157.03	92.90	29.31	9.91	5.63	3.62	2.75	406.50
4	1.98	1.04	76.27	20.04	12.03	132.31	71.02	25.43	9.91	6.19	3.62	1.90	361.74
5	1.64	0.70	65.93	33.40	16.74	117.08	71.02	21.78	9.91	8.91	3.62	2.47	353.22
6	1.42	0.70	16.74	71.02	41.00	176.68	129.34	21.78	8.91	7.96	3.17	2.01	480.76
7	0.42	0.70	8.91	56.03	132.31	176.68	163.47	21.78	8.91	7.96	3.17	1.90	582.26
8	0.08	0.56	7.05	38.23	65.93	206.35	153.85	25.43	8.91	7.96	3.17	2.01	519.54
9	0.08	0.42	4.58	43.85	56.03	256.28	92.90	52.87	8.91	7.96	3.17	2.35	529.42
10	0.42	0.42	3.62	27.34	27.34	198.46	65.93	33.40	8.91	7.96	3.17	2.12	379.12
11	1.04	0.42	3.17	20.04	18.36	628.94	65.93	31.33	7.96	8.91	3.17	2.12	791.41
12	1.04	0.56	2.75	14.31	129.34	1364.51	92.90	29.31	7.96	13.15	3.17	2.12	1661.11
13	0.87	0.56	2.35	10.95	668.79	529.05	81.66	25.43	7.96	14.31	3.17	2.12	1347.23
14	0.56	0.56	1.98	16.74	1318.45	487.94	59.25	25.43	7.96	8.91	3.17	2.12	1933.09
15	0.42	0.56	1.64	62.56	541.04	353.87	43.85	23.58	7.05	7.05	3.17	2.01	1046.80
16	0.10	0.56	1.64	38.23	602.92	315.20	46.78	23.58	7.05	7.05	2.35	2.01	1047.47
17	0.10	25.43	1.64	23.58	180.04	214.37	43.85	23.58	7.05	5.63	2.35	2.01	529.64
18	0.10	38.23	1.98	14.31	180.04	198.46	43.85	21.78	7.05	5.63	2.35	2.01	515.80
19	0.42	15.51	1.23	13.15	230.77	363.81	38.23	21.78	7.05	5.63	2.35	2.01	701.95
20	5.09	7.96	1.64	46.78	766.12	689.09	43.85	21.78	6.19	5.09	2.35	2.01	1597.97
21	1.42	7.96	7.96	81.66	583.85	247.66	41.00	18.36	6.19	5.09	2.35	2.01	1005.54
22	0.42	2.35	4.09	138.33	305.81	186.85	41.00	16.74	7.05	4.58	2.35	1.80	711.39
23	0.42	7.96	13.15	52.87	230.77	166.74	41.00	15.51	7.05	4.58	2.35	1.80	544.20
24	0.42	4.58	8.91	43.85	260.64	153.85	38.23	15.51	7.05	4.58	2.35	1.90	541.88
25	0.42	8.91	4.58	38.23	214.37	150.69	41.00	15.51	6.19	5.09	1.98	1.90	488.88
26	0.42	33.40	3.17	25.43	194.56	150.69	49.79	15.51	6.19	4.58	1.98	1.90	487.63
27	0.42	9.91	2.35	23.58	173.34	138.33	49.79	15.51	6.19	4.58	1.98	1.90	427.88
28	0.42	13.15	2.35	18.36	324.70	123.48	33.40	14.31	6.19	4.58	1.98	1.80	544.72
29	0.42	27.34	1.98	33.40	251.95	110.83	33.40	14.31	6.19	4.58		1.80	486.21
30	1.64	31.33	25.43	71.02	394.72	87.21	49.79	13.15	5.63	4.58		1.80	686.29
31		25.43		38.23	499.55		41.00		5.63	4.09		1.80	615.73
Total	26.73	278.47	339.32	1447.09	8481.52	8645.71	2040.41	723.22	239.07	204.11	79.38	62.47	22567.49 Tonday
Mean	0.89	8.98	11.31	46.68	273.60	288.19	65.82	24.11	7.71	6.58	2.84	2.02	738.73 Ton/day
Max	5.09	38.23	76.27	230.77	1318.45	1364.51	163.47	56.03	10.95	14.31	4.09	2.75	1364.51 Ton/day
Min	0.08	0.42	1.23	10.95	12.03	87.21	33.40	13.15	5.63	4.09	1.98	1.80	0.08 Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Noen Phoem.

Ban Noen Phoem **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	152 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.7882
Remarks	Continued Sediment Station

$$QS = 11.1104\ QW^{1.58400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	0.25	25.99	1209.94	50.78	690.60	43.58	12.18	4.82	1.56	0.67	0.67	2041.30	
2	0.25	0.25	53.90	183.34	34.91	103.44	36.26	12.18	4.43	1.65	0.67	0.67	431.94	
3	0.25	0.25	88.26	128.06	20.67	68.74	90.92	11.82	4.06	2.11	0.67	0.67	416.48	
4	0.25	0.25	37.08	38.46	60.66	45.94	58.05	11.11	3.94	1.83	0.67	0.67	258.89	
5	0.25	0.25	6.60	30.20	110.34	33.57	82.66	10.76	3.94	1.65	0.67	0.67	281.56	
6	0.25	0.25	3.36	1683.56	1023.22	29.44	476.65	10.41	3.71	1.65	0.67	0.67	3233.83	
7	0.25	0.25	1.56	652.28	523.92	34.37	103.44	10.07	3.47	1.56	0.67	0.67	1332.52	
8	0.25	0.25	1.32	312.53	163.47	53.90	65.67	10.07	3.47	1.56	0.67	0.67	613.82	
9	0.25	0.25	2.40	132.42	157.35	82.66	185.32	11.46	3.36	1.83	0.67	0.67	578.63	
10	0.25	0.25	2.50	90.92	55.48	32.52	97.89	12.55	3.36	3.03	0.67	0.67	300.08	
11	0.25	0.25	20.67	44.46	36.26	23.86	59.02	10.07	3.25	4.43	0.67	0.67	203.86	
12	0.25	0.25	4.82	36.26	27.69	710.07	58.05	10.07	3.25	4.82	0.67	0.67	856.85	
13	0.25	0.25	2.71	198.40	29.44	1265.96	45.05	9.07	3.25	4.56	0.67	0.67	1560.27	
14	0.25	0.25	1.24	44.46	25.51	3181.61	34.91	9.07	3.03	4.43	0.67	0.67	3306.09	
15	0.25	2.71	0.87	30.71	38.46	2270.97	37.08	8.43	3.03	4.31	0.67	0.67	2398.15	
16	0.25	33.05	0.73	27.20	29.44	1154.86	31.22	8.11	3.03	3.94	0.67	0.67	1293.18	
17	0.25	1.48	2.01	22.02	53.90	476.65	30.20	7.65	2.92	3.47	0.67	0.67	601.88	
18	0.25	0.55	719.87	15.22	73.98	283.53	25.03	7.65	2.92	3.03	0.67	0.67	1133.38	
19	0.25	20.67	58.05	11.82	39.30	200.95	22.93	7.04	2.92	2.92	0.67	0.67	368.19	
20	0.25	9.74	10.07	11.82	36.26	163.47	19.80	6.60	2.92	2.40	0.67	0.67	264.66	
21	0.25	1.08	4.56	13.30	25.51	143.55	18.51	6.60	2.40	2.01	0.67	0.67	219.11	
22	0.25	0.61	3.25	15.62	21.12	107.48	18.51	6.60	2.30	1.65	0.67	0.67	178.72	
23	0.25	0.39	2.30	28.94	48.34	83.77	17.25	6.46	1.83	1.32	0.67	0.67	192.16	
24	0.25	5.08	11.46	16.84	34.37	66.69	22.47	6.90	1.56	1.08	0.67	0.67	168.04	
25	0.25	0.73	15.62	22.93	37.63	54.84	39.30	6.90	1.48	0.87	0.67	0.67	181.88	
26	0.25	0.55	6.03	12.55	52.33	78.28	25.51	8.43	1.32	0.80	0.67	0.67	187.38	
27	0.25	0.39	4.56	10.76	53.90	140.40	19.36	7.04	1.24	0.73	0.67	0.67	239.97	
28	0.25	0.29	7.65	10.07	34.91	69.78	17.25	5.75	1.08	0.67	0.67	0.67	149.04	
29	0.25	377.43	13.67	8.11	32.00	54.84	15.22	5.21	0.87	0.67		0.67	508.95	
30	0.25	396.33	1624.56	10.41	120.77	44.46	13.30	4.82	1.01	0.67		0.67	2217.24	
31		200.95		7.34	103.44		11.11		1.01	0.67		0.67	325.20	
Total	7.35	1055.46	2737.67	5060.95	3155.32	11751.22	1821.50	261.13	85.16	67.90	18.79	20.80	26043.25	Tonday
Mean	0.25	34.05	91.26	163.26	101.78	391.71	58.76	8.70	2.75	2.19	0.67	0.67	856.04	Ton/day
Max	0.25	396.33	1624.56	1683.56	1023.22	3181.61	476.65	12.55	4.82	4.82	0.67	0.67	3181.61	Ton/day
Min	0.25	0.25	0.73	7.34	20.67	23.86	11.11	4.82	0.87	0.67	0.67	0.67	0.25	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

Location : on right bank at the bridge near Wat Koei Chai Nua

Ban Koei Chai **Amphoe** Chum Saeng **Changwat** Nakhon Sawan

Drainge Area	57,384 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.8070
Remarks	Continued Sediment Station

$$QS = 12.3520\ QW^{0.88850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	722.06	813.57	901.24	926.82	2346.62	3714.53	6280.48	4844.46	1488.69	1561.25	1428.99	1780.62	26809.34	
2	758.83	813.57	916.60	972.64	2353.44	3623.75	6256.38	4837.20	1488.69	1567.23	1428.99	1898.36	26915.68	
3	749.66	822.65	947.22	1018.20	2407.88	3567.75	6208.13	4698.94	1363.50	1567.23	1472.44	1891.94	26715.54	
4	740.47	822.65	942.13	1181.28	2468.94	3476.51	6216.18	4435.56	1181.28	1445.30	1526.53	1786.50	26223.34	
5	754.24	827.18	901.24	1192.42	2462.16	3307.27	6248.34	4221.97	1123.52	1396.29	1573.21	1674.35	25682.20	
6	763.41	827.18	885.85	1341.59	2353.44	3129.80	6280.48	3962.35	1181.28	1418.10	1632.80	1591.11	25367.41	
7	754.24	786.26	931.93	1374.44	2278.32	2994.09	6344.71	3644.73	1270.04	1439.87	1680.28	1579.18	25078.09	
8	749.66	799.93	921.71	1585.15	2298.84	2824.87	6424.88	3363.80	1341.59	1428.99	1668.43	1614.95	25022.79	
9	745.07	804.48	931.93	1956.01	2482.48	2724.74	6464.92	3208.04	1352.55	1390.84	1703.96	1656.56	25421.56	
10	735.87	818.11	942.13	2216.63	2791.54	2664.44	6472.92	3193.83	1303.12	1412.65	1709.87	1709.87	25970.99	
11	731.27	781.70	911.49	2637.58	2979.76	2644.30	6464.92	3222.24	1186.86	1472.44	1686.20	1757.08	26475.82	
12	726.67	786.26	921.71	3101.29	2931.19	2617.42	6440.90	3286.03	1138.46	1515.73	1680.28	1786.50	26932.44	
13	717.45	781.70	916.60	3278.95	2731.43	2610.69	6400.84	3420.21	1197.99	1555.27	1698.04	1839.32	27148.49	
14	740.47	790.82	921.71	3278.95	2489.25	2731.43	6344.71	3546.72	1390.84	1609.00	1686.20	1786.50	27316.61	
15	731.27	790.82	926.82	3158.28	2278.32	3051.32	6328.66	3497.59	1483.28	1680.28	1662.50	1709.87	27299.01	
16	772.56	781.70	916.60	3015.57	2121.39	3742.40	6288.52	3377.91	1543.30	1680.28	1656.56	1662.50	27559.28	
17	790.82	781.70	921.71	2878.09	2064.33	4728.09	6216.18	3236.43	1632.80	1579.18	1692.12	1609.00	28130.44	
18	781.70	777.13	926.82	2704.66	2197.17	5281.40	6151.78	3094.16	1626.85	1515.73	1686.20	1555.27	28298.87	
19	777.13	799.93	952.31	2462.16	2264.63	5511.68	6014.67	2864.80	1632.80	1515.73	1780.62	1567.23	28143.70	
20	786.26	809.03	937.03	2184.56	2244.08	5626.37	5917.64	2677.85	1703.96	1543.30	1924.01	1650.63	28004.71	
21	754.24	804.48	921.71	1962.40	2237.22	5801.66	5786.44	2590.50	1733.49	1579.18	1904.78	1668.43	27744.54	
22	740.47	836.24	931.93	1810.00	2292.00	5933.83	5588.17	2441.83	1733.49	1603.04	1815.87	1656.56	27383.43	
23	735.87	822.65	906.37	1839.32	2292.00	5990.43	5373.66	2298.84	1686.20	1537.31	1762.97	1644.69	26890.31	
24	740.47	795.38	921.71	2007.08	2264.63	6063.11	5196.65	2096.05	1609.00	1477.86	1686.20	1567.23	26425.36	
25	740.47	822.65	916.60	2165.63	2312.50	6087.31	4967.72	1904.78	1526.53	1561.25	1727.59	1477.86	26210.88	
26	735.87	818.11	916.60	2298.84	2482.48	6111.49	4779.04	1774.74	1434.43	1585.15	1632.80	1423.55	25993.11	
27	735.87	836.24	911.49	2435.04	2671.15	6143.73	4713.52	1774.74	1396.29	1561.25	1638.74	1396.29	26214.36	
28	735.87	849.81	901.24	2516.30	2979.76	6200.09	4735.37	1674.35	1418.10	1543.30	1686.20	1368.97	26609.38	
29	735.87	845.29	921.71	2435.04	3250.61	6256.38	4764.49	1521.13	1477.86	1579.18		1418.10	25205.66	
30	790.82	840.77	931.93	2367.06	3539.71	6288.52	4808.13	1483.28	1510.32	1543.30		1434.43	25538.26	
31		854.97		2353.44	3770.25		4844.46		1531.92	1472.44		1450.73	16278.21	
Total	22474.93	25142.91	27656.08	66655.45	78637.53	131449.38	181323.89	92195.07	44689.04	47337.95	46833.38	50614.20	815009.81	Tonday
Mean	749.16	811.06	921.87	2150.18	2536.69	4381.65	5849.16	3073.17	1441.58	1527.03	1672.62	1632.72	26746.89	Ton/day
Max	790.82	854.97	952.31	3278.95	3770.25	6288.52	6472.92	4844.46	1733.49	1680.28	1924.01	1898.36	6472.92	Ton/day
Min	717.45	777.13	885.85	926.82	2064.33	2610.69	4713.52	1483.28	1123.52	1390.84	1428.99	1368.97	717.45	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

Ban Kaeng Bua Kham **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	3,120 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2012-Cont'd
Actual Measurement	2012-Cont'd
Using Rating Curve Water Year	2016
Number of observation	33
R-Square	0.9414
Remarks	Continued Sediment Station

$$QS = 0.8936\ QW^{1.73970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.61	0.61	1084.15	5890.41	2587.99	2403.78	4478.20	821.03	49.07	22.58	3.38	1.23	17343.03	
2	0.61	0.82	662.73	6915.96	2438.72	1653.51	2827.53	748.90	44.88	19.02	2.98	1.23	15316.90	
3	0.54	0.82	436.03	5618.56	2333.66	1365.40	1869.42	696.66	44.88	19.02	2.98	1.23	12389.21	
4	0.61	1.05	303.48	4815.04	2264.86	1108.14	1181.43	629.53	40.85	17.34	2.73	1.23	10366.29	
5	0.67	1.23	239.94	4313.68	2129.47	839.50	858.15	565.30	40.85	17.34	2.73	1.23	9010.11	
6	0.67	1.41	165.32	6762.71	2096.07	696.66	713.89	534.30	36.99	16.26	2.48	1.05	11027.83	
7	0.74	1.81	117.27	15287.53	2230.57	731.31	748.90	475.66	36.99	16.26	2.48	1.05	19650.58	
8	0.74	2.02	89.22	11512.08	3130.79	1365.40	2666.84	462.29	36.99	15.21	2.25	1.05	19284.88	
9	0.82	2.48	82.72	17905.96	3085.96	2196.51	2062.90	436.03	36.99	15.21	2.25	1.05	25828.87	
10	0.89	2.73	67.39	18860.48	2438.72	1997.65	1683.72	410.42	34.75	14.19	2.25	1.05	25514.24	
11	0.89	2.98	53.42	11089.51	2196.51	2298.93	1393.26	397.87	34.75	14.19	2.25	1.05	17485.61	
12	0.89	2.98	49.07	6610.92	1997.65	1997.65	3266.94	349.32	34.75	13.19	2.02	0.89	14326.28	
13	0.89	3.81	44.88	4872.19	1775.74	2510.15	5487.86	303.48	34.75	12.23	2.02	0.89	15048.91	
14	0.89	3.38	40.85	3641.98	1594.17	6686.63	5112.88	260.42	32.56	11.30	2.02	0.89	17387.99	
15	0.82	3.38	36.99	3221.28	1421.36	7770.07	4478.20	239.94	32.56	10.40	2.02	0.89	17217.93	
16	0.82	4.71	34.75	3041.40	1337.78	9395.10	3499.31	210.58	32.56	9.54	2.02	0.89	17569.46	
17	0.82	6.22	32.56	3041.40	1283.61	9732.50	2298.93	191.92	32.56	8.70	1.81	0.89	16631.92	
18	0.82	19.02	32.56	3359.07	1256.71	11660.26	1421.36	229.98	30.44	7.90	1.81	1.23	18021.16	
19	0.74	13.19	40.85	3130.79	1181.43	18860.48	1060.39	281.60	30.44	7.32	1.81	1.05	24610.11	
20	0.74	12.23	72.35	2953.11	1108.14	20542.38	876.97	260.42	30.44	6.76	1.81	1.23	25866.58	
21	0.74	26.39	132.51	3130.79	1206.30	14819.89	696.66	220.19	30.44	6.22	1.60	1.23	20272.96	
22	0.67	26.39	250.09	2953.11	1181.43	9732.50	597.05	182.86	28.38	5.70	1.60	1.41	14961.19	
23	0.61	36.99	326.06	2706.63	1206.30	7077.74	519.08	148.53	28.38	5.19	1.60	1.41	12058.53	
24	0.61	82.72	292.46	2953.11	1206.30	5424.58	1156.78	117.27	28.38	4.71	1.60	1.60	11270.12	
25	0.54	57.92	326.06	2868.33	1310.75	3835.96	1477.90	95.92	28.38	4.71	1.41	1.60	10009.49	
26	0.54	49.07	373.26	2438.72	1477.90	2627.29	2474.33	82.72	28.38	4.25	1.41	1.81	9559.68	
27	0.54	82.72	597.05	2163.09	1653.51	2129.47	1310.75	72.35	26.39	4.25	1.41	1.81	8043.33	
28	0.54	260.42	1013.53	1997.65	1932.88	2746.68	1060.39	67.39	26.39	4.25	1.41	1.81	9113.34	
29	0.61	385.48	2746.68	2666.84	2230.57	4098.42	973.66	62.58	26.39	3.81		2.02	13197.05	
30	0.61	802.73	5298.96	2909.38	2953.11	4990.39	915.13	57.92	26.39	3.81		2.02	17960.44	
31		1256.71		2706.63	3175.90		876.97		24.45	3.81		2.02	8046.49	
Total	21.25	3154.43	15043.21	172338.33	59424.84	163294.93	60045.76	9613.39	1031.42	324.67	58.20	40.09	484390.52	Tonday
Mean	0.71	101.76	501.44	5559.30	1916.93	5443.16	1936.96	320.45	33.27	10.47	2.08	1.29	15827.82	Ton/day
Max	0.89	1256.71	5298.96	18860.48	3175.90	20542.38	5487.86	821.03	49.07	22.58	3.38	2.02	20542.38	Ton/day
Min	0.54	0.61	32.56	1997.65	1108.14	696.66	519.08	57.92	24.45	3.81	1.41	0.89	0.54	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Huai Nam Ree at Ban Kaeng Sai Ngam , Uttaradit (N.82)

Lat - - N Long - - E

Location : on right bank at Ban Kaeng Sai Ngam.

Ban Kaeng Sai Ngam **Amphoe** Nam Pat **Changwat** Uttaradit

Drainge Area	- sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2016-Cont'd
Actual Measurement	2016-Cont'd
Using Rating Curve Water Year	2016
Number of observation	35
R-Square	0.7718
Remarks	Continued Sediment Station

$$QS = 0.3860\ QW^{1.98580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.42	0.39	13.55	18.40	13.55	30.31	6.06	3.42	3.42	1.53	1.53	0.39	95.94	
2	3.42	0.39	13.55	13.55	13.55	37.36	13.55	3.42	3.42	1.53	1.53	0.39	105.64	
3	3.42	0.39	13.55	13.55	23.99	18.40	30.31	3.42	3.42	1.53	1.53	0.39	113.87	
4	3.42	0.39	13.55	13.55	30.31	13.55	18.40	3.42	3.42	1.53	1.53	0.39	103.44	
5	3.42	0.39	13.55	18.40	249.14	9.43	18.40	3.42	3.42	1.53	1.53	0.39	323.01	
6	3.42	0.39	30.31	18.40	13.55	9.43	37.36	1.53	3.42	3.42	1.53	0.39	123.13	
7	3.42	0.39	18.40	18.40	45.14	9.43	13.55	1.53	3.42	1.53	1.53	0.39	117.12	
8	3.42	0.39	13.55	30.31	18.40	9.43	9.43	1.53	3.42	1.53	1.53	0.39	93.31	
9	3.42	0.39	9.43	18.40	13.55	9.43	9.43	1.53	3.42	1.53	1.53	0.39	72.44	
10	3.42	0.39	9.43	18.40	9.43	13.55	6.06	3.42	3.42	1.53	1.53	0.39	70.96	
11	3.42	0.39	9.43	18.40	9.43	9.43	6.06	3.42	3.42	1.53	1.53	0.39	66.84	
12	3.42	0.39	9.43	18.40	9.43	30.31	18.40	6.06	3.42	1.53	1.53	0.39	102.69	
13	3.42	0.39	9.43	18.40	9.43	13.55	13.55	3.42	3.42	1.53	1.53	0.39	78.45	
14	3.42	0.39	9.43	18.40	13.55	30.31	9.43	1.53	3.42	1.53	1.53	0.39	93.31	
15	3.42	0.39	13.55	13.55	30.31	13.55	9.43	1.53	3.42	1.53	1.53	0.39	92.58	
16	3.42	0.39	6.06	13.55	18.40	72.87	9.43	1.53	3.42	1.53	1.53	0.39	132.51	
17	3.42	0.39	6.06	13.55	13.55	18.40	6.06	1.53	3.42	1.53	1.53	0.39	69.80	
18	3.42	1.53	9.43	13.55	13.55	195.30	6.06	1.53	3.42	1.53	1.53	0.39	251.23	
19	1.53	1.53	9.43	18.40	13.55	30.31	6.06	1.53	3.42	1.53	1.53	0.39	89.19	
20	1.53	1.53	9.43	95.00	13.55	18.40	6.06	1.53	3.42	1.53	1.53	0.39	153.88	
21	1.53	1.53	9.43	23.99	9.43	13.55	6.06	1.53	1.53	1.53	1.53	0.39	72.01	
22	1.53	1.53	9.43	45.14	9.43	13.55	6.06	1.53	1.53	1.53	1.53	0.39	93.17	
23	1.53	1.53	9.43	45.14	9.43	9.43	6.06	1.53	1.53	1.53	1.53	0.39	89.05	
24	1.53	3.42	9.43	45.14	9.43	9.43	6.06	1.53	1.53	1.53	1.53	0.39	90.94	
25	1.53	3.42	23.99	53.66	30.31	18.40	72.87	1.53	1.53	1.53	1.53	0.39	210.67	
26	1.53	3.42	13.55	53.66	13.55	13.55	6.06	1.53	1.53	1.53	0.39	0.39	110.66	
27	1.53	3.42	13.55	72.87	120.03	9.43	6.06	1.53	1.53	1.53	0.39	1.53	233.39	
28	1.53	3.42	30.31	83.57	37.36	9.43	6.06	0.39	1.53	1.53	0.39	1.53	177.03	
29	1.53	3.42	13.55	72.87	23.99	9.43	6.06	0.39	1.53	1.53		1.53	135.81	
30	1.53	3.42	30.31	72.87	18.40	6.06	6.06	0.39	1.53	1.53		0.39	142.47	
31		3.42		72.87	53.66		6.06		1.53	1.53		0.39	139.45	
Total	79.91	43.10	403.50	1064.31	910.34	704.99	386.48	62.10	85.22	49.29	39.38	15.39	3844.00	Tonday
Mean	2.66	1.39	13.45	34.33	29.37	23.50	12.47	2.07	2.75	1.59	1.41	0.50	125.48	Ton/day
Max	3.42	3.42	30.31	95.00	249.14	195.30	72.87	6.06	3.42	3.42	1.53	1.53	249.14	Ton/day
Min	1.53	0.39	6.06	13.55	9.43	6.06	6.06	0.39	1.53	1.53	0.39	0.39	0.39	Ton/day

WATER YEAR : 2016

NAN RIVER BASIN

Huai Nam Ree at Ban Kiw Kian , Uttaradit (N.83)

Lat - - N Long - - E

Location : on left bank at Ban Kiw kian.

Ban Kiw Kian **Amphoe** Nam Pat **Changwat** Uttaradit

Drainge Area	- sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2016-Cont'd
Actual Measurement	2016-Cont'd
Using Rating Curve Water Year	2016
Number of observation	32
R-Square	0.7254
Remarks	Continued Sediment Station

$$QS = 9.0919\ QW^{1.30780}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.18	4.66	4.66	291.08	59.39	824.78	18.20	26.26	7.92	7.92	1.11	0.00	1251.16	
2	5.18	4.66	4.66	59.39	59.39	842.69	59.39	49.26	9.81	7.92	1.11	0.00	1103.47	
3	5.18	4.66	4.66	59.39	445.31	66.14	94.69	34.95	11.79	7.92	1.11	0.00	735.81	
4	5.18	4.66	27.95	59.39	657.40	59.39	34.95	76.56	13.85	7.92	1.11	0.00	948.37	
5	5.18	4.66	580.36	291.08	3364.31	46.79	59.39	59.39	15.99	7.92	1.11	0.00	4436.19	
6	5.18	4.66	291.08	291.08	59.39	46.79	736.63	37.25	18.20	7.92	1.11	0.00	1499.30	
7	5.18	4.66	34.95	291.08	1757.66	46.79	59.39	118.01	22.95	7.35	1.11	0.00	2349.14	
8	5.18	4.66	4.66	806.96	142.48	46.79	46.79	59.39	24.59	6.79	1.11	0.00	1149.41	
9	5.18	4.66	4.66	291.08	59.39	34.95	46.79	59.39	26.26	6.24	1.11	0.00	539.72	
10	5.18	4.66	4.66	291.08	46.79	59.39	18.20	94.69	24.59	6.24	1.11	0.00	556.60	
11	5.18	4.66	4.66	291.08	46.79	34.95	18.20	76.56	22.95	5.18	1.11	0.00	511.32	
12	5.18	4.66	4.66	291.08	46.79	580.36	46.79	59.39	21.34	4.66	1.11	0.00	1066.03	
13	4.66	4.66	4.66	154.41	46.79	46.79	34.95	26.26	19.75	4.16	1.11	0.00	348.21	
14	4.66	4.66	4.66	154.41	59.39	580.36	26.26	37.25	31.40	4.16	1.11	0.00	908.32	
15	4.66	4.66	4.66	66.14	736.63	59.39	26.26	46.79	18.20	4.16	1.11	0.00	972.66	
16	4.66	4.66	4.66	66.14	46.79	3929.54	26.26	18.20	15.99	4.16	1.11	0.00	4122.17	
17	4.66	4.66	4.66	66.14	59.39	94.69	26.26	6.79	13.85	3.67	1.11	0.00	285.89	
18	4.66	4.66	4.66	66.14	59.39	3929.54	18.20	5.18	12.81	3.67	0.83	0.00	4109.75	
19	4.66	4.66	4.66	154.41	59.39	824.78	18.20	5.18	11.79	3.67	0.83	0.00	1092.23	
20	4.66	4.66	4.66	2328.69	46.79	94.69	18.20	5.18	9.81	3.20	0.83	0.00	2521.38	
21	4.66	4.66	4.66	469.23	18.20	59.39	18.20	5.18	7.35	3.20	0.00	0.00	594.74	
22	4.66	4.66	4.66	1757.66	18.20	59.39	18.20	12.81	8.85	3.20	0.33	0.00	1892.64	
23	4.66	4.66	4.66	1757.66	18.20	46.79	18.20	7.92	9.81	3.20	0.14	0.00	1875.90	
24	4.66	4.66	4.66	1757.66	18.20	46.79	18.20	7.92	9.81	3.20	0.14	0.00	1875.90	
25	4.66	4.66	445.31	2496.74	824.78	76.56	704.68	7.92	8.85	3.20	0.00	0.00	4577.38	
26	4.66	4.66	59.39	2496.74	1374.44	59.39	26.26	7.92	8.85	3.20	0.00	0.00	4045.52	
27	4.66	4.66	59.39	3587.92	3644.35	46.79	22.95	7.92	9.81	3.20	0.00	0.00	7391.66	
28	4.66	4.66	641.81	4762.20	824.78	46.79	18.20	7.92	8.85	3.20	0.00	0.00	6323.09	
29	4.66	4.66	94.69	4396.10	445.31	44.36	18.20	7.92	8.85	3.20		0.00	5027.96	
30	4.66	4.66	580.36	3929.54	352.72	34.95	18.20	7.92	7.92	3.20		0.00	4944.13	
31		4.66		3929.54	2406.18		18.20		7.92	2.74		0.00	6369.25	
Total	146.02	144.50	2908.53	37711.25	17805.06	12770.86	2333.48	983.30	450.77	149.59	21.92	0.00	75425.29	Tonday
Mean	4.87	4.66	96.95	1216.49	574.36	425.70	75.27	32.78	14.54	4.83	0.78	0.00	2451.22	Ton/day
Max	5.18	4.66	641.81	4762.20	3644.35	3929.54	736.63	118.01	31.40	7.92	1.11	0.00	4762.20	Ton/day
Min	4.66	4.66	4.66	59.39	18.20	34.95	18.20	5.18	7.35	2.74	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

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

Lat 15 - 40 - 15 N Long 100 - 06 - 49 E

Location : on left bank at Ban Phai Lom

Ban Phai Lom **Amphoe** Mueang **Changwat** Nakhon Sawan

Drainge Area	109,973 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1956-Cont'd
Actual Measurement	1956-Cont'd
Using Rating Curve Water Year	2016
Number of observation	30
R-Square	0.7940
Remarks	Continued Sediment Station

$$QS = 6.1638\ QW^{1.00040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	885.65	946.20	1006.75	1084.60	2827.47	5787.60	11484.40	9792.28	2048.67	1692.68	1546.83	1766.84	40869.96	
2	928.90	954.85	1024.05	1101.90	2782.97	5866.74	11406.47	9697.03	1953.49	1754.48	1491.21	1871.90	40834.00	
3	920.25	963.50	1075.95	1166.17	2827.47	5906.32	11484.40	9462.03	1779.20	1779.20	1524.58	1953.49	40842.55	
4	920.25	972.15	1067.30	1225.49	2901.65	5767.81	11718.19	8992.02	1613.57	1658.07	1569.08	1871.90	40277.48	
5	928.90	980.80	1032.70	1235.38	2960.99	5471.03	11951.98	8498.52	1491.21	1557.95	1580.20	1766.84	39456.49	
6	920.25	980.80	998.10	1368.85	2990.67	5114.89	12315.66	7877.65	1446.72	1535.71	1669.19	1669.19	38887.66	
7	928.90	963.50	1067.30	1557.95	3139.02	4919.51	12835.20	7165.27	1502.33	1546.83	1705.04	1635.82	38966.68	
8	928.90	963.50	998.10	1646.94	3198.37	4715.48	13641.76	6480.13	1591.32	1535.71	1742.12	1613.57	39055.89	
9	937.55	963.50	1015.40	2048.67	3261.42	4437.27	13941.12	6084.40	1635.82	1546.83	1871.90	1591.32	39335.19	
10	937.55	963.50	1024.05	2361.41	3569.28	4400.17	13968.34	5945.89	1613.57	1546.83	1899.10	1680.32	39910.00	
11	937.55	920.25	1075.95	2768.13	3846.23	4604.19	13859.48	5985.46	1468.96	1557.95	1871.90	1717.40	40613.47	
12	920.25	920.25	1075.95	3309.64	3898.16	4734.03	13696.19	6084.40	1346.61	1557.95	1844.71	1766.84	41154.97	
13	894.30	911.60	1006.75	3707.76	3707.76	4659.84	13536.61	6311.94	1391.10	1591.32	1885.50	1817.52	41421.98	
14	868.35	989.45	1024.05	3863.54	3261.42	4641.29	13484.65	6631.01	1513.46	1791.56	1871.90	1817.52	41758.20	
15	894.30	980.80	963.50	3811.61	2990.67	4882.41	13406.72	6396.04	1705.04	1817.52	1803.92	1717.40	41369.91	
16	920.25	963.50	911.60	3776.99	2738.46	5728.24	13276.83	6005.25	1791.56	1885.50	1766.84	1646.94	41411.96	
17	946.20	963.50	920.25	3707.76	2565.39	7098.49	13146.94	5649.10	1871.90	1803.92	1766.84	1635.82	42076.09	
18	954.85	946.20	928.90	3470.37	2578.99	8055.74	13146.94	5332.53	1871.90	1729.76	1729.76	1635.82	42381.74	
19	946.20	989.45	972.15	3183.53	2708.79	8710.02	13354.76	4976.39	1791.56	1705.04	1831.11	1602.45	42771.45	
20	937.55	1006.75	937.55	2916.49	2679.12	9250.52	13302.80	4641.29	1831.11	1742.12	1871.90	1669.19	42786.40	
21	902.95	998.10	937.55	2538.19	2619.78	9556.03	12731.29	4348.24	1858.31	1729.76	1885.50	1729.76	41835.45	
22	894.30	998.10	980.80	2266.23	2606.18	9965.44	12237.73	4088.58	1885.50	1729.76	1871.90	1717.40	41241.91	
23	885.65	989.45	963.50	2143.85	2592.59	10460.21	11718.19	3454.29	1899.10	1717.40	1885.50	1680.32	40390.03	
24	868.35	989.45	972.15	2375.01	2524.59	11172.69	11328.54	3139.02	1885.50	1717.40	1705.04	1692.68	40370.41	
25	859.70	980.80	972.15	2857.15	2524.59	11380.49	10886.95	2857.15	1729.76	1669.19	1754.48	1557.95	40030.35	
26	894.30	980.80	963.50	3109.35	2679.12	11458.42	10460.21	2693.96	1658.07	1669.19	1624.70	1502.33	39693.95	
27	877.00	980.80	989.45	3341.78	3153.86	11458.42	10163.35	2429.40	1557.95	1680.32	1602.45	1457.84	39692.62	
28	894.30	989.45	998.10	3454.29	3655.83	11510.38	10014.92	2334.22	1546.83	1624.70	1692.68	1413.35	40129.02	
29	902.95	980.80	1084.60	3245.35	4296.31	11536.35	10138.61	2143.85	1613.57	1602.45		1435.59	38980.42	
30	911.60	946.20	1093.25	3020.34	4789.67	11510.38	10089.13	2089.46	1658.07	1624.70		1535.71	39268.50	
31		963.50		2916.49	5471.03		9866.49		1646.94	1591.32		1613.57	24069.34	
Total	27347.89	30041.42	30081.37	80581.22	98347.87	224760.41	378594.82	167586.78	52198.72	51693.10	48865.90	51784.59	1241884.09	Tonday
Mean	911.60	969.08	1002.71	2599.39	3172.51	7492.01	12212.74	5586.23	1683.83	1667.52	1745.21	1670.47	40713.30	Ton/day
Max	954.85	1006.75	1093.25	3863.54	5471.03	11536.35	13968.34	9792.28	2048.67	1885.50	1899.10	1953.49	13968.34	Ton/day
Min	859.70	911.60	911.60	1084.60	2524.59	4400.17	9866.49	2089.46	1346.61	1535.71	1491.21	1413.35	859.70	Ton/day

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)

Lat 14 - 53 - 50 N Long 100 - 24 - 18 E

Location : on right bank at Ban Bang Phutsa.

Ban Bang Phutsa **Amphoe** Mueang **Changwat** Sing Buri

Drainge Area	118,752 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1950-Cont'd
Actual Measurement	1950-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.9360
Remarks	Continued Sediment Station

$$QS = 2.4489\ QW^{1.11200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	245.38	205.02	210.13	245.38	312.93	4333.55	11408.99	4291.93	236.30	263.64	269.75	263.64	22286.65	
2	245.38	218.25	215.26	239.32	319.15	5262.47	9884.03	5084.66	242.35	266.69	269.75	275.88	22523.19	
3	215.26	236.30	230.27	242.35	322.27	5457.46	8835.77	5485.88	248.41	266.69	269.75	266.69	22077.09	
4	212.69	245.38	233.28	242.35	316.04	5201.17	9327.58	6093.24	248.41	260.58	269.75	275.88	22926.36	
5	227.26	245.38	230.27	245.38	291.26	4556.21	11069.03	7138.45	251.45	266.69	263.64	269.75	25054.77	
6	207.58	248.41	236.30	242.35	257.54	3891.73	11582.55	6595.66	245.38	263.64	269.75	269.75	24310.63	
7	221.25	245.38	236.30	242.35	263.64	3502.43	11734.62	5990.38	254.49	263.64	266.69	269.75	23490.91	
8	218.25	242.35	230.27	245.38	257.54	2554.50	12061.17	5556.99	251.45	263.64	266.69	269.75	22417.98	
9	233.28	242.35	233.28	245.38	260.58	2047.79	12497.95	5490.62	257.54	266.69	263.64	263.64	22302.74	
10	239.32	239.32	236.30	245.38	254.49	1963.23	12914.33	5507.20	251.45	263.64	282.02	269.75	22666.44	
11	227.26	224.25	236.30	245.38	260.58	2125.16	13068.07	5623.45	260.58	263.64	269.75	269.75	23074.18	
12	230.27	221.25	233.28	248.41	260.58	2664.41	13068.07	5789.95	260.58	266.69	278.95	269.75	23792.20	
13	207.58	224.25	233.28	257.54	266.69	3254.26	13024.13	5873.38	254.49	269.75	282.02	263.64	24411.00	
14	215.26	233.28	239.32	254.49	275.88	3278.99	12936.28	5940.20	257.54	269.75	278.95	269.75	24449.70	
15	187.66	239.32	236.30	263.64	260.58	3402.94	12716.93	5956.92	263.64	269.75	269.75	269.75	24337.19	
16	194.84	233.28	227.26	260.58	230.27	3539.81	12454.21	5556.99	260.58	269.75	269.75	269.75	23767.08	
17	205.02	236.30	227.26	269.75	236.30	3960.45	12235.70	5139.94	263.64	269.75	266.69	266.69	23577.48	
18	192.30	239.32	233.28	260.58	197.38	4681.94	12148.40	4612.05	263.64	263.64	266.69	269.75	23628.98	
19	189.77	236.30	233.28	254.49	192.30	4793.99	12148.40	4139.67	269.75	263.64	269.75	269.75	23261.10	
20	202.47	239.32	227.26	254.49	194.84	4926.22	12082.97	3932.95	260.58	260.58	269.75	263.64	23115.08	
21	215.26	236.30	227.26	251.45	194.84	6225.07	11582.55	3702.26	263.64	260.58	272.81	260.58	23692.59	
22	215.26	236.30	227.26	230.27	192.30	3610.15	9946.08	3365.71	266.69	263.64	282.02	269.75	19105.42	
23	210.13	242.35	233.28	233.28	194.84	5770.89	7558.09	1019.64	263.64	263.64	282.02	266.69	16538.50	
24	210.13	242.35	227.26	230.27	194.84	9266.00	5419.58	759.38	269.75	266.69	282.02	266.69	17634.97	
25	215.26	245.38	230.27	230.27	199.93	10132.39	3925.33	563.24	269.75	266.69	282.02	266.69	16827.21	
26	202.47	245.38	230.27	233.28	197.38	10630.87	2758.58	530.38	269.75	263.64	275.88	266.69	16104.57	
27	205.02	233.28	236.30	230.27	199.93	10443.65	4291.93	452.35	266.69	266.69	266.69	269.75	17362.56	
28	199.93	236.30	242.35	224.25	199.93	10693.37	5788.76	372.50	269.75	272.81	266.69	269.75	19036.39	
29	199.93	233.28	233.28	230.27	205.02	11257.34	5890.08	291.26	269.75	272.81		263.64	19346.66	
30	205.02	230.27	239.32	263.64	322.27	11474.04	4488.83	263.64	269.75	269.75		269.75	18296.28	
31		212.69		282.02	2125.16		3706.81		263.64	272.81		269.75	7132.89	
Total	6396.48	7288.92	6945.34	7644.24	9457.29	164902.48	302555.78	121120.85	8045.06	8252.24	7623.67	8316.45	658548.81	Tonday
Mean	213.22	235.13	231.51	246.59	305.07	5496.75	9759.86	4037.36	259.52	266.20	272.27	268.27	21591.76	Ton/day
Max	245.38	248.41	242.35	282.02	2125.16	11474.04	13068.07	7138.45	269.75	272.81	282.02	275.88	13068.07	Ton/day
Min	187.66	205.02	210.13	224.25	192.30	1963.23	2758.58	263.64	236.30	260.58	263.64	260.58	187.66	Ton/day

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

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

at 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaco.

Ban Bang Keao **Amphoe** Mueang **Changwat** Ang Thong

Drainge Area	Flood Plain
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2016
Number of observation	27
R-Square	0.8930
Remarks	Continued Sediment Station

$$QS = 2.0740\ QW^{1.18340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	815.63	541.99	504.40	758.33	865.42	4714.81	15755.29	10501.36	960.61	652.35	730.85	949.82	37750.88
2	795.84	526.91	618.97	758.33	855.43	6508.59	14974.13	10446.15	928.29	694.45	627.29	939.04	38673.44
3	712.61	549.56	660.74	694.45	730.85	7160.52	14415.57	10390.99	1191.40	739.99	669.14	906.84	38822.65
4	610.67	610.67	635.63	652.35	795.84	7042.69	14384.63	10225.77	993.10	917.55	677.56	949.82	38496.29
5	572.36	677.56	635.63	660.74	758.33	6347.36	15098.70	9460.27	906.84	982.25	572.36	928.29	37600.68
6	610.67	739.99	579.99	669.14	785.98	5506.71	15629.90	8572.08	1003.97	739.99	685.99	971.42	36495.84
7	694.45	825.55	595.30	587.64	739.99	4969.55	15943.68	7747.10	835.49	572.36	643.98	917.55	35072.63
8	712.61	825.55	572.36	643.98	694.45	3955.73	16447.72	6949.34	767.53	785.98	572.36	896.14	33823.76
9	739.99	767.53	519.39	579.99	694.45	2996.11	16763.98	6439.41	677.56	939.04	660.74	855.43	32633.62
10	776.75	739.99	482.05	541.99	677.56	2650.70	17383.33	6485.52	776.75	1003.97	825.55	652.35	32996.50
11	758.33	730.85	496.93	496.93	557.14	2650.70	17613.48	6763.22	739.99	875.43	805.73	587.64	33076.38
12	730.85	685.99	474.64	482.05	572.36	3029.49	17679.33	7306.49	739.99	1014.86	865.42	595.30	34176.77
13	660.74	660.74	412.64	549.56	602.98	3993.74	17712.27	7599.78	825.55	855.43	939.04	805.73	35618.19
14	618.97	572.36	426.05	627.29	618.97	4301.41	17811.13	7648.84	896.14	815.63	939.04	730.85	36006.69
15	595.30	482.05	453.07	677.56	595.30	4442.05	17679.33	7599.78	805.73	845.45	767.53	749.15	35692.31
16	572.36	453.07	534.44	739.99	660.74	4630.37	17350.49	6902.74	767.53	749.15	785.98	758.33	34905.19
17	526.91	526.91	587.64	643.98	610.67	5012.20	17055.35	6095.26	749.15	845.45	730.85	906.84	34291.21
18	549.56	635.63	587.64	587.64	572.36	5867.48	16924.44	5226.32	885.47	795.84	694.45	721.72	34048.53
19	534.44	685.99	467.24	660.74	541.99	6026.79	16924.44	4361.60	635.63	795.84	730.85	758.33	33123.88
20	660.74	635.63	534.44	669.14	587.64	6508.59	16795.65	3699.10	627.29	660.74	643.98	949.82	32972.75
21	721.72	549.56	587.64	712.61	602.98	8043.02	16289.95	3062.92	767.53	579.99	845.45	875.43	33638.80
22	652.35	482.05	511.89	730.85	587.64	10060.96	15285.86	2418.08	694.45	660.74	767.53	776.75	33629.13
23	677.56	474.64	572.36	805.73	526.91	12185.44	14199.24	1853.09	677.56	767.53	703.52	855.43	34299.00
24	703.52	595.30	669.14	795.84	579.99	13891.09	13125.37	1575.79	712.61	795.84	541.99	595.30	34581.79
25	721.72	519.39	627.29	805.73	643.98	14849.72	12336.31	1372.12	767.53	685.99	602.98	595.30	34528.06
26	669.14	541.99	587.64	825.55	652.35	15098.70	11740.21	1236.21	815.63	652.35	579.99	602.98	34002.74
27	643.98	618.97	474.64	795.84	749.15	15005.26	10722.65	1202.58	865.42	587.64	875.43	669.14	33210.72
28	618.97	549.56	432.78	885.47	712.61	15098.70	10501.36	1124.69	885.47	776.75	949.82	618.97	33155.14
29	618.97	519.39	489.48	928.29	721.72	15161.05	10308.33	1191.40	785.98	712.61		896.14	32333.37
30	610.67	511.89	579.99	885.47	712.61	15786.67	10501.36	1047.62	712.61	652.35		815.63	32816.86
31		496.93		885.47	1750.12		10639.59		635.63	749.15		949.82	16106.71
Total	19888.37	18734.19	16312.02	21738.66	21758.50	233496.22	465993.07	166505.64	25034.43	23902.71	20435.40	24781.31	1058580.51 Tonday
Mean	662.95	604.33	543.73	701.25	701.89	7783.21	15032.03	5550.19	807.56	771.06	729.84	799.40	34687.42 Ton/day
Max	815.63	825.55	669.14	928.29	1750.12	15786.67	17811.13	10501.36	1191.40	1014.86	949.82	971.42	17811.13 Ton/day
Min	526.91	453.07	412.64	482.05	526.91	2650.70	10308.33	1047.62	627.29	572.36	541.99	587.64	412.64 Ton/day

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

Ban Bang Luang **Amphoe** Sanphaya **Changwat** Chai Nat

Drainge Area	117,187 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1953-Cont'd
Actual Measurement	1953-Cont'd
Using Rating Curve Water Year	2016
Number of observation	30
R-Square	0.8930
Remarks	Continued Sediment Station

$$QS = 4.6218\ QW^{1.01750}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	480.59	480.59	362.69	362.69	495.87	5132.91	10240.75	7142.27	338.37	338.37	338.37	338.37	26051.81
2	480.59	480.59	362.69	362.69	475.49	5544.89	9622.58	7007.83	338.37	338.37	338.37	362.69	25715.13
3	480.59	480.59	362.69	362.69	439.87	5442.90	9348.05	6854.24	338.37	338.37	338.37	362.69	25149.40
4	480.59	480.59	362.69	362.69	404.29	5004.54	9742.72	6480.12	338.37	338.37	338.37	350.52	24683.85
5	480.59	480.59	362.69	362.69	387.03	4386.87	10086.14	5885.07	338.37	338.37	338.37	338.37	23785.13
6	480.59	480.59	362.69	362.69	387.03	3892.12	10521.07	5289.99	338.37	338.37	338.37	338.37	23130.22
7	480.59	480.59	362.69	362.69	387.03	3427.95	10612.39	4678.05	338.37	338.37	338.37	338.37	22145.43
8	480.59	480.59	362.69	362.69	387.03	2431.76	10667.19	4247.22	338.37	338.37	338.37	338.37	20773.22
9	480.59	480.59	362.69	362.69	387.03	2224.51	11325.14	4258.86	338.37	338.37	338.37	338.37	21235.55
10	480.59	480.59	362.69	362.69	387.03	2346.94	11599.49	4398.51	338.37	338.37	338.37	338.37	21771.99
11	480.59	480.59	362.69	362.69	387.03	2611.01	11636.08	4561.54	338.37	338.37	338.37	338.37	22235.67
12	480.59	480.59	362.69	391.09	387.03	3438.49	11636.08	4899.56	338.37	338.37	338.37	338.37	23429.57
13	480.59	480.59	362.69	439.87	439.87	3586.07	11636.08	4992.87	338.37	338.37	338.37	338.37	23772.09
14	480.59	480.59	362.69	439.87	419.53	3554.44	11599.49	5039.54	338.37	338.37	338.37	338.37	23730.20
15	480.59	480.59	362.69	439.87	387.03	3691.56	11215.44	4806.27	338.37	338.37	338.37	338.37	23217.49
16	480.59	480.59	362.69	439.87	342.42	3818.21	10922.98	4154.17	338.37	338.37	338.37	338.37	22354.97
17	480.59	480.59	362.69	439.87	314.08	4445.08	10721.99	3596.62	338.37	338.37	338.37	338.37	22194.97
18	480.59	480.59	362.69	439.87	293.87	5004.54	10685.45	3026.89	338.37	338.37	338.37	338.37	22127.94
19	480.59	480.59	362.69	419.53	293.87	5226.30	10685.45	2544.94	338.37	338.37	338.37	338.37	21847.42
20	480.59	480.59	362.69	399.21	293.87	5391.92	10594.12	2073.98	338.37	338.37	362.69	338.37	21454.75
21	480.59	480.59	362.69	387.03	293.87	6493.97	10120.49	1598.62	338.37	338.37	362.69	338.37	21595.63
22	480.59	480.59	362.69	342.42	293.87	8012.87	9382.36	1336.92	338.37	338.37	362.69	338.37	22070.09
23	480.59	480.59	362.69	342.42	293.87	9005.09	8713.75	1026.55	338.37	338.37	362.69	338.37	22083.32
24	480.59	480.59	362.69	342.42	293.87	9828.56	8157.24	684.99	338.37	338.37	362.69	338.37	22008.73
25	480.59	480.59	362.69	342.42	293.87	9862.90	7788.38	654.26	338.37	338.37	362.69	338.37	21643.47
26	480.59	480.59	362.69	342.42	293.87	9862.90	7456.13	613.31	338.37	338.37	362.69	338.37	21270.27
27	480.59	362.69	362.69	314.08	293.87	9897.24	7037.70	577.53	338.37	338.37	362.69	338.37	20704.16
28	480.59	362.69	362.69	314.08	293.87	10275.11	6895.83	338.37	338.37	338.37	338.37	338.37	20676.68
29	480.59	362.69	362.69	370.80	301.95	10594.12	6895.83	338.37	338.37	338.37		338.37	20722.13
30	480.59	362.69	362.69	419.53	1431.33	10594.12	7157.21	338.37	338.37	338.37		338.37	22161.63
31		362.69		475.49	3797.09		7216.98		338.37	338.37		338.37	12867.35
Total	14417.61	14308.69	10880.56	11831.69	15577.59	175029.87	301920.60	103445.84	10489.40	10489.40	9668.84	10550.19	688610.28 Tonday
Mean	480.59	461.57	362.69	381.67	502.50	5834.33	9739.37	3448.19	338.37	338.37	345.32	340.33	22573.29 Ton/day
Max	480.59	480.59	362.69	475.49	3797.09	10594.12	11636.08	7142.27	338.37	338.37	362.69	362.69	11636.08 Ton/day
Min	480.59	362.69	362.69	314.08	293.87	2224.51	6895.83	338.37	338.37	338.37	338.37	338.37	293.87 Ton/day

WATER YEAR : 2016

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Tha Nam Ooy, Nakhon Sawan (C.56)

Lat 15 - 25 - 13 N Long 100 - 08 - 08 E

Location : on left bank at Ban Tha Nam Ooy

Ban Tha Nam Ooy **Amphoe** Phayuha Khiti **Changwat** Nakhon Sawan

Drainge Area	Flood Plain
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2016
Number of observation	21
R-Square	0.8360
Remarks	Continued Sediment Station

$$QS = 16.6210\ QW^{0.83070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1178.59	932.62	1560.85	1406.06	3402.66	4597.44	3795.83	6096.59	3495.75	2615.51	1604.49	1361.20	32047.59
2	1120.36	923.50	1527.95	1472.80	3177.08	4597.44	3795.83	6096.59	3357.80	2670.54	1494.91	1394.87	31629.67
3	1120.36	905.19	1527.95	1461.72	2994.23	4597.44	3795.83	6096.59	3146.75	2739.02	1383.67	1505.94	31274.70
4	1120.36	914.35	1527.95	1505.94	2921.23	4597.44	3795.83	6096.59	2964.50	2807.14	1327.36	1647.89	31226.60
5	1120.36	923.50	1538.93	1604.49	2964.50	4597.44	4024.51	6096.59	2725.35	2766.31	1327.36	1680.29	31369.63
6	1096.90	905.19	1538.93	1669.51	2978.90	4243.42	4296.90	6096.59	2476.86	2670.54	1361.20	1680.29	31015.23
7	1096.90	877.60	1516.95	1766.08	3070.69	3432.51	4754.92	6096.59	2629.29	2546.38	1406.06	1582.70	30776.66
8	1085.13	905.19	1538.93	1766.08	3177.08	3432.51	5669.09	6096.59	2259.76	2462.91	1472.80	1494.91	31360.99
9	1073.33	932.62	1505.94	1806.00	3192.21	3432.51	6075.86	6096.59	2312.40	2434.96	1516.95	1394.87	31774.25
10	1061.51	959.88	1472.80	1924.71	3085.93	3432.51	5951.18	6096.59	2380.37	2393.92	1494.91	1349.94	31604.25
11	1073.33	977.97	1450.62	2119.34	3177.08	3432.51	5789.97	6096.59	2407.45	2380.37	1472.80	1361.20	31739.22
12	1037.78	977.97	1428.37	2420.96	3297.78	2834.30	5628.69	6096.59	2312.40	2393.92	1406.06	1394.87	31229.69
13	1037.78	977.97	1361.20	2892.31	3282.74	2834.30	5200.69	6096.59	2221.64	2476.86	1338.66	1450.62	31171.38
14	1025.88	1061.51	1304.70	3342.81	3055.43	2834.30	4667.56	6096.59	2054.88	2601.71	1293.34	1549.90	30888.62
15	968.93	1132.05	1236.24	3574.49	2793.55	2834.30	4243.42	6096.59	2093.60	2739.02	1270.56	1593.60	30576.36
16	950.81	1190.16	1201.72	3637.22	2546.38	2834.30	4124.39	6096.59	2272.44	2906.78	1281.96	1615.36	30658.11
17	950.81	1259.14	1166.99	3652.86	2285.10	2834.30	4124.39	6096.59	2518.62	3024.86	1304.70	1582.70	30801.07
18	989.99	1304.70	1120.36	3621.55	2067.80	2921.23	4124.39	6096.59	2725.35	3161.92	1316.04	1615.36	31065.30
19	1049.66	1361.20	1120.36	3511.53	1990.01	3402.66	4261.26	6096.59	2863.34	3207.34	1383.67	1571.78	31819.40
20	1073.33	1461.72	1155.37	3357.80	2041.94	3590.19	4296.90	5930.35	2921.23	3207.34	1166.99	1549.90	31753.05
21	1085.13	1505.94	1166.99	3055.43	2041.94	3910.51	4474.18	5789.97	2994.23	3192.21	1472.80	1571.78	32261.12
22	1073.33	1505.94	1224.75	2711.67	2028.98	3699.73	4737.48	5729.60	3085.93	3207.34	1582.70	1658.71	32246.16
23	1025.88	1516.95	1281.96	2339.64	1976.99	3543.04	5011.63	5689.28	3177.08	3146.75	1637.07	1647.89	31994.15
24	1013.94	1549.90	1293.34	1976.99	1937.81	3387.72	5294.70	5527.40	3237.54	3146.75	1549.90	1637.07	31553.06
25	989.99	1549.90	1338.66	2016.01	1911.59	3637.22	5588.22	5313.46	3207.34	3085.93	1571.78	1615.36	31825.46
26	959.88	1560.85	1361.20	2272.44	1911.59	4107.33	5429.98	5011.63	3085.93	3040.15	1383.67	1527.95	31652.59
27	950.81	1549.90	1361.20	2601.71	2028.98	4491.83	5992.80	4702.55	2964.50	2935.67	1327.36	1450.62	32357.94
28	950.81	1560.85	1383.67	3070.69	2518.62	4597.44	5992.80	4562.29	2807.14	2863.34	1213.25	1361.20	32882.09
29	950.81	1593.60	1406.06	3479.96	3177.08	4296.90	5992.80	4261.26	2697.98	2779.93		1281.96	31918.34
30	950.81	1582.70	1406.06	3574.49	4332.47	3795.83	6096.59	4040.74	2643.05	2697.98		1213.25	32333.96
31		1549.90		3543.04	4597.44		6096.59		2670.54	2656.81		1259.14	22373.46
Total	31183.49	37910.47	41027.03	79156.31	85965.80	110780.57	153125.23	172393.79	84711.05	86960.21	39363.02	46603.16	969180.12 Tonday
Mean	1039.45	1222.92	1367.57	2553.43	2773.09	3692.69	4939.52	5746.46	2732.61	2805.17	1405.82	1503.33	31782.06 Ton/day
Max	1178.59	1593.60	1560.85	3652.86	4597.44	4597.44	6096.59	6096.59	3495.75	3207.34	1637.07	1680.29	6096.59 Ton/day
Min	950.81	877.60	1120.36	1406.06	1911.59	2834.30	3795.83	4040.74	2054.88	2380.37	1166.99	1213.25	877.60 Ton/day

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

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

Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

Ban Pang Makha **Amphoe** Khanu Woralaksaburi **Changwat** Kamphaeng Phet

Drainge Area	977 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1969-Cont'd
Actual Measurement	1969-Cont'd
Using Rating Curve Water Year	1983-2016
Number of observation	14
R-Square	0.7660
Remarks	Continued Sediment Station

$$QS = 4.1662\ QW^{1.31590}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.11	153.50	68.55	189.61	903.21	1086.82	0.00	0.00	0.00	0.00	2404.79	
2	0.00	0.00	3.63	90.79	51.91	109.61	764.36	855.65	0.00	0.00	0.00	0.00	1875.95	
3	0.00	0.00	3.63	72.88	40.21	77.27	3358.78	735.75	16.91	0.00	0.00	0.00	4305.42	
4	0.00	0.00	3.11	77.27	32.82	58.02	3819.71	573.44	15.39	0.00	0.00	0.00	4579.76	
5	0.00	0.00	3.11	72.88	29.27	45.97	5912.21	468.65	14.65	0.00	0.00	0.00	6546.73	
6	0.00	0.00	3.11	64.29	34.63	37.40	1834.07	388.64	13.91	0.00	0.00	0.00	2376.05	
7	0.00	0.00	10.37	61.13	61.13	40.21	1463.34	324.84	13.91	0.00	0.00	0.00	1974.94	
8	0.00	0.00	61.13	72.88	43.06	189.61	1226.47	670.04	13.18	0.00	0.00	0.00	2276.37	
9	0.00	0.00	51.91	77.27	29.27	331.10	785.50	552.08	11.76	0.00	0.00	0.00	1838.89	
10	0.00	0.00	43.06	68.55	29.27	160.04	773.95	455.07	11.06	0.00	0.00	0.00	1541.01	
11	0.00	0.00	37.40	64.29	27.53	100.09	670.04	651.54	10.37	0.00	0.00	0.00	1561.26	
12	0.00	0.00	34.63	68.55	24.14	64.29	573.44	545.00	9.70	2.13	0.00	0.00	1321.87	
13	0.00	0.00	34.63	58.02	22.48	45.97	688.66	388.64	8.38	1.67	0.00	0.00	1248.45	
14	0.00	0.00	51.91	115.65	22.48	45.97	698.02	306.25	7.73	0.00	0.00	0.00	1248.02	
15	0.00	0.00	45.97	77.27	20.85	605.84	891.26	258.01	7.10	0.00	0.00	0.00	1906.30	
16	0.00	0.00	40.21	51.91	13.91	566.30	1012.40	227.47	6.49	0.00	0.00	0.00	1918.68	
17	0.00	0.00	37.40	43.06	24.14	1000.12	6338.45	202.05	10.37	0.00	0.00	0.00	7655.58	
18	0.00	0.00	40.21	58.02	19.25	1770.52	3856.40	181.43	13.18	0.00	0.00	0.00	5939.01	
19	0.00	0.00	58.02	72.88	15.39	927.21	1374.45	165.33	9.03	0.00	0.00	0.00	2622.31	
20	0.00	0.00	61.13	147.01	13.18	1024.72	808.73	149.60	6.49	0.00	0.00	0.00	2210.86	
21	0.00	0.00	68.55	214.67	11.06	5865.30	633.17	138.05	5.30	0.00	0.00	0.00	6936.09	
22	0.00	0.00	61.13	104.82	9.70	6645.82	1665.81	126.74	4.17	0.00	0.00	0.00	8618.18	
23	0.00	0.00	64.29	104.82	8.38	2144.93	716.83	115.65	3.11	0.00	0.00	0.00	3158.00	
24	0.00	0.00	58.02	68.55	7.73	1898.16	509.95	108.41	2.13	0.00	0.00	0.00	2652.95	
25	0.00	0.00	72.88	109.61	9.03	1374.45	735.75	101.27	1.67	0.00	0.00	0.00	2404.65	
26	0.00	0.00	104.82	214.67	13.18	1166.73	745.26	97.75	1.25	0.00	0.00	0.00	2343.66	
27	0.00	0.00	81.72	173.34	24.14	915.19	1256.60	90.79	0.50	0.00	0.00	0.00	2542.27	
28	0.00	0.00	64.29	153.50	48.92	963.50	1037.07	130.48	0.20	0.00	0.00	0.00	2397.95	
29	0.00	0.00	54.94	369.22	550.31	726.28	1626.65	101.27	0.00	0.00		0.00	3428.67	
30	0.00	3.63	81.72	160.04	418.22	596.80	1728.45	90.79	0.00	0.00		0.00	3079.65	
31		3.63		95.42	569.87		1286.91		0.00	0.00		0.00	1955.82	
Total	0.00	7.25	1340.00	3336.72	2294.02	29687.00	49695.90	10287.52	217.94	3.80	0.00	0.00	96870.15	Tonday
Mean	0.00	0.23	44.67	107.64	74.00	989.57	1603.09	342.92	7.03	0.12	0.00	0.00	3169.27	Ton/day
Max	0.00	3.63	104.82	369.22	569.87	6645.82	6338.45	1086.82	16.91	2.13	0.00	0.00	6645.82	Ton/day
Min	0.00	0.00	3.11	43.06	7.73	37.40	509.95	90.79	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

Ban Mai Khlong Charoen **Amphoe** Mae Poen **Changwat** Nakhon Sawan

Drainge Area	453 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	19
R-Square	0.9155
Remarks	Continued Sediment Station

$$QS = 4.7955\ QW^{0.82580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.27	59.25	4.19	0.72	67.89	3.36	1.77	0.19	6.33	0.19	2.71	2.71	150.58	
2	1.27	57.43	4.19	0.72	66.57	1.48	1.77	0.19	6.14	0.19	2.71	2.71	145.37	
3	1.27	37.33	4.19	0.72	46.75	1.27	35.26	0.19	6.14	0.19	2.71	2.71	138.72	
4	1.27	23.49	4.19	0.72	23.92	1.27	120.93	0.19	5.96	0.19	2.71	2.71	187.54	
5	1.27	1.77	11.55	0.72	23.49	1.27	166.11	0.19	5.38	0.19	2.71	2.71	217.36	
6	1.27	1.77	36.30	0.60	20.54	0.72	186.28	0.19	5.19	0.19	2.71	2.71	258.44	
7	1.27	5.57	1.77	0.60	4.40	2.34	142.55	0.19	4.99	0.19	2.71	2.71	169.29	
8	1.27	5.77	1.77	0.60	0.34	19.72	120.93	0.19	4.80	0.19	2.71	2.71	160.98	
9	1.27	5.77	1.77	0.60	1.27	3.78	100.19	0.19	4.19	0.19	2.71	2.71	124.63	
10	1.27	5.77	1.77	0.60	1.27	3.78	97.22	0.19	4.19	0.19	2.71	2.71	121.66	
11	1.27	5.77	68.54	0.60	0.40	2.71	97.22	0.19	3.99	0.19	2.71	2.71	186.29	
12	1.27	5.38	81.73	0.60	0.40	1.77	97.22	0.19	3.99	0.19	2.71	2.71	198.16	
13	1.27	4.40	47.92	0.60	0.40	1.77	97.22	0.19	3.78	0.19	2.71	2.71	163.16	
14	1.27	3.36	36.30	0.53	0.40	1.77	97.22	0.19	3.57	0.19	2.71	2.71	150.22	
15	1.27	3.15	25.60	0.40	0.47	1.68	97.22	0.19	3.36	0.19	2.71	2.71	138.94	
16	1.27	3.15	1.27	0.40	0.40	1.58	97.22	0.19	3.15	0.19	2.71	2.71	114.23	
17	1.27	3.15	1.27	0.40	0.40	1.58	97.22	0.19	2.93	0.19	2.71	2.71	114.01	
18	1.27	3.15	1.27	0.40	0.40	2.71	97.22	0.19	2.93	0.19	2.71	2.71	115.14	
19	1.27	3.99	1.16	0.40	0.40	2.34	87.96	0.19	2.71	0.19	2.71	2.71	106.02	
20	1.27	4.80	1.16	0.40	0.40	3.15	63.46	0.19	2.71	0.19	2.71	2.71	83.14	
21	1.27	4.40	0.83	0.40	0.40	37.33	62.27	0.19	2.43	0.19	2.71	2.71	115.13	
22	1.27	4.40	0.60	0.40	0.40	36.81	62.27	0.19	2.43	0.19	2.71	2.71	114.37	
23	1.27	4.40	0.60	0.26	0.40	8.50	62.27	0.19	2.43	0.19	2.71	2.71	85.92	
24	1.27	4.40	3.78	0.26	0.40	20.94	62.27	0.19	2.43	0.19	2.71	2.71	101.55	
25	1.27	4.40	1.27	0.26	0.40	15.00	62.27	0.19	2.34	0.19	2.71	2.71	93.01	
26	7.79	4.19	1.27	0.26	0.40	1.77	62.27	0.19	2.34	0.19	2.71	2.71	86.10	
27	51.40	4.19	0.95	19.30	0.72	0.47	62.27	0.19	2.34	0.19	2.71	2.71	147.43	
28	59.25	4.19	0.72	65.25	0.72	0.40	62.27	0.19	0.19	0.19	2.71	2.71	198.78	
29	59.25	4.19	0.72	67.23	0.72	0.40	62.27	0.19	0.19	0.19		2.71	198.06	
30	59.25	4.19	0.72	68.54	1.48	0.40	62.27	6.33	0.19	0.19		2.71	206.27	
31		4.19		68.54	33.69		62.27		0.19	0.19		2.71	171.78	
Total	268.70	291.33	349.39	302.05	300.27	182.08	2587.19	11.83	103.95	5.88	75.75	83.87	4562.28	Tonday
Mean	8.96	9.40	11.65	9.74	9.69	6.07	83.46	0.39	3.35	0.19	2.71	2.71	148.31	Ton/day
Max	59.25	59.25	81.73	68.54	67.89	37.33	186.28	6.33	6.33	0.19	2.71	2.71	186.28	Ton/day
Min	1.27	1.77	0.60	0.26	0.34	0.40	1.77	0.19	0.19	0.19	2.71	2.71	0.19	Ton/day

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Khok Mo, Uthai Thani (Ct.8)

Lat 15 - 29 - 50 N Long 99 - 56 - 28 E

Location : on left bank at Ban Khok Mo.

Ban Khok Mo **Amphoe** Thap Than **Changwat** Uthai Thani

Drainge Area	3,207 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	21
R-Square	0.6209
Remarks	Continued Sediment Station

$QS = 17.3460\ QW^{0.91800}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

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	2657.05	2821.18	1304.27	89.85	0.00	0.00	0.00	6872.35	
2	0.00	0.00	0.00	0.00	0.00	2501.20	2821.18	1210.86	89.85	0.00	0.00	0.00	6623.09	
3	0.00	0.00	0.00	0.00	0.00	1822.15	2821.18	751.91	89.85	0.00	0.00	0.00	5485.09	
4	0.00	0.00	0.00	0.00	0.00	1167.20	2821.18	135.68	89.85	0.00	0.00	0.00	4213.92	
5	0.00	0.00	0.00	0.00	0.00	606.15	2775.67	0.00	89.85	0.00	0.00	0.00	3471.68	
6	0.00	0.00	0.00	0.00	0.00	317.12	2307.47	0.00	89.85	0.00	0.00	0.00	2714.44	
7	0.00	0.00	0.00	0.00	0.00	164.58	2657.05	0.00	89.85	0.00	0.00	0.00	2911.48	
8	0.00	0.00	0.00	0.00	0.00	296.17	2839.36	0.00	89.85	0.00	0.00	0.00	3225.39	
9	0.00	0.00	0.00	0.00	0.00	1112.41	2839.36	0.00	89.85	0.00	0.00	0.00	4041.63	
10	0.00	0.00	0.00	0.00	0.00	1310.76	2089.45	0.00	89.85	0.00	0.00	0.00	3490.06	
11	0.00	0.00	0.00	0.00	0.00	1291.27	1513.93	0.00	89.85	0.00	0.00	0.00	2895.06	
12	0.00	0.00	0.00	0.00	0.00	1369.08	1199.96	0.00	89.85	0.00	0.00	0.00	2658.89	
13	0.00	0.00	0.00	0.00	0.00	1304.27	1199.96	0.00	89.85	0.00	0.00	0.00	2594.08	
14	0.00	0.00	0.00	0.00	0.00	1407.83	1205.41	1349.67	89.85	0.00	0.00	0.00	4052.77	
15	0.00	0.00	0.00	0.00	0.00	1369.08	1205.41	1349.67	89.85	0.00	0.00	0.00	4014.01	
16	0.00	0.00	0.00	0.00	0.00	1156.26	1210.86	1349.67	89.85	0.00	0.00	0.00	3806.64	
17	0.00	0.00	0.00	0.00	0.00	973.25	1210.86	1349.67	89.85	0.00	0.00	0.00	3623.63	
18	0.00	0.00	0.00	0.00	0.00	1046.35	1216.31	1349.67	89.85	0.00	0.00	0.00	3702.18	
19	0.00	0.00	0.00	0.00	0.00	1117.90	1216.31	1349.67	89.85	0.00	0.00	0.00	3773.73	
20	0.00	0.00	0.00	0.00	0.00	1145.31	1625.74	1349.67	89.85	0.00	0.00	0.00	4210.57	
21	0.00	0.00	0.00	0.00	0.00	1603.43	1221.75	1349.67	89.85	0.00	0.00	0.00	4264.71	
22	0.00	0.00	0.00	0.00	0.00	2147.50	1123.39	1349.67	89.85	0.00	0.00	0.00	4710.41	
23	0.00	0.00	0.00	0.00	0.00	2436.78	1095.93	1349.67	89.85	0.00	0.00	0.00	4972.23	
24	0.00	0.00	0.00	0.00	0.00	2657.05	1024.25	1349.67	89.85	0.00	0.00	0.00	5120.82	
25	0.00	0.00	0.00	0.00	0.00	2848.45	677.66	143.61	89.85	7.48	0.00	0.00	3767.06	
26	0.00	0.00	0.00	0.00	0.00	3089.86	677.66	143.61	89.85	7.48	0.00	0.00	4008.47	
27	0.00	0.00	0.00	0.00	41.70	2908.97	870.51	143.61	89.85	7.48	0.00	0.00	4062.13	
28	0.00	0.00	0.00	0.00	617.73	2821.18	1041.94	143.61	0.00	7.48	0.00	0.00	4631.94	
29	0.00	0.00	0.00	0.00	1566.19	2821.18	1101.43	135.68	0.00	7.48		0.00	5631.97	
30	0.00	0.00	0.00	0.00	2205.42	2821.18	1156.26	135.68	0.00	7.48		0.00	6326.02	
31		0.00		0.00	2482.81		1210.86		0.00	7.48		0.00	3701.15	
Total	0.00	0.00	0.00	0.00	6913.85	50290.97	50799.47	19094.87	2426.08	52.36	0.00	0.00	129577.60	Tonday
Mean	0.00	0.00	0.00	0.00	223.03	1676.37	1638.69	636.50	78.26	1.69	0.00	0.00	4254.53	Ton/day
Max	0.00	0.00	0.00	0.00	2482.81	3089.86	2839.36	1349.67	89.85	7.48	0.00	0.00	3089.86	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	164.58	677.66	0.00	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on right bank at Ban Don Yai.

Ban Don Yai **Amphoe** Mueang **Changwat** Uthai Thani

Drainge Area	3,454 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	21
R-Square	0.7880
Remarks	Continued Sediment Station

$$QS = 9.2971\ QW^{1.06510}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.44	0.80	0.80	7.82	26.78	3678.23	884.29	1252.05	129.41	5.40	0.80	0.80	5991.61	
2	3.88	0.80	0.80	8.80	25.72	3741.06	579.26	1108.26	125.92	5.40	0.80	0.80	5601.51	
3	2.76	0.80	0.80	7.82	24.15	3187.94	635.51	952.46	129.41	5.40	0.80	0.80	4948.65	
4	2.21	0.80	0.80	8.80	23.62	1764.11	1388.78	688.20	98.26	5.40	0.80	0.80	3982.59	
5	1.67	0.80	0.80	17.39	23.10	1068.52	2637.86	472.83	91.98	5.40	0.80	0.80	4321.94	
6	1.32	0.80	0.80	17.39	23.10	468.42	3032.55	385.23	81.76	5.40	0.80	0.80	4018.36	
7	0.80	0.80	0.80	18.42	23.10	385.23	3372.18	278.07	93.12	5.40	0.80	0.80	4179.51	
8	0.80	0.80	0.80	18.42	22.57	482.90	3851.17	359.17	88.56	5.40	0.80	0.80	4832.20	
9	0.80	0.80	0.80	18.42	23.10	705.61	3866.91	1053.97	71.62	5.88	0.80	0.80	5749.51	
10	0.80	0.80	0.80	18.42	24.67	1316.29	3187.94	1697.33	69.38	5.88	0.80	0.80	6323.91	
11	0.80	0.80	0.80	18.42	23.10	1388.78	1984.61	2763.90	73.87	5.88	0.80	0.80	6262.56	
12	0.80	0.80	0.80	18.42	22.57	1668.76	1423.77	2763.90	69.38	5.88	0.80	0.80	5976.69	
13	0.80	0.80	0.80	30.49	21.01	1687.80	1220.01	2449.48	28.37	5.88	0.80	0.80	5447.03	
14	0.80	0.80	0.80	30.49	21.01	1745.01	877.75	1602.20	4.92	5.40	0.80	0.80	4290.78	
15	0.80	0.80	0.80	30.49	21.01	1811.91	676.62	752.15	5.40	5.40	0.80	0.80	3306.97	
16	0.80	0.80	0.80	24.15	21.01	1406.27	650.91	676.62	5.40	0.80	0.80	0.80	2789.15	
17	0.80	0.80	0.80	26.25	21.01	959.69	1092.35	518.28	5.40	0.80	0.80	0.80	2627.79	
18	0.80	0.80	0.80	26.25	21.01	1068.52	1415.02	370.32	5.40	0.80	0.80	0.80	2911.32	
19	0.80	0.80	0.80	25.20	21.01	1188.01	1831.05	278.07	5.40	0.80	0.80	0.80	3353.54	
20	0.80	0.80	0.80	25.72	21.01	1244.03	1965.37	210.37	5.40	0.80	0.80	0.80	3476.71	
21	0.80	0.80	0.80	24.15	21.01	1869.37	1907.73	134.65	0.80	0.80	0.80	0.80	3962.51	
22	0.80	0.80	0.80	23.10	21.01	2865.00	1324.33	198.41	0.80	0.80	0.80	0.80	4437.45	
23	0.80	0.80	0.80	22.57	21.01	3159.65	838.57	129.41	0.80	0.80	0.80	0.80	4176.82	
24	0.80	0.80	0.80	21.01	21.01	3615.47	746.32	169.89	0.80	0.80	0.80	0.80	4579.30	
25	0.80	0.80	0.80	22.57	21.01	3961.47	757.98	222.37	0.80	0.80	0.80	0.80	4991.01	
26	0.80	0.80	0.80	21.53	21.01	4341.04	734.67	477.86	0.80	0.80	0.80	0.80	5601.72	
27	0.80	0.80	0.80	19.97	21.01	4388.63	832.06	433.27	0.80	0.80	0.80	0.80	5700.54	
28	0.80	0.80	0.80	19.45	21.01	3646.84	1061.24	318.46	0.80	0.80	0.80	0.80	5072.61	
29	0.80	0.80	0.80	23.10	21.01	2042.38	1308.25	262.26	0.80	0.80		0.80	3661.79	
30	0.80	0.80	0.80	23.10	336.93	1406.27	1196.01	224.78	0.80	0.80		0.80	3191.89	
31		0.80		23.10	3046.66		1356.53		0.80	0.80		0.80	4429.49	
Total	35.50	24.81	24.01	641.22	4026.34	62263.22	48637.62	23204.24	1197.13	96.14	22.41	24.81	140197.45	Tonday
Mean	1.18	0.80	0.80	20.68	129.88	2075.44	1568.96	773.47	38.62	3.10	0.80	0.80	4614.54	Ton/day
Max	4.44	0.80	0.80	30.49	3046.66	4388.63	3866.91	2763.90	129.41	5.88	0.80	0.80	4388.63	Ton/day
Min	0.80	0.80	0.80	7.82	21.01	385.23	579.26	129.41	0.80	0.80	0.80	0.80	0.80	Ton/day

WATER YEAR : 2016

SAKAE KRANG RIVER BASIN

Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

Lat 15 - 26 - 43 N Long 99 - 35 - 24 E

Location : on right bank at Ban Saphan Leak

Ban Saphan Leak **Amphoe** Lan Sak **Changwat** Uthai Thani

Drainge Area	691 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.6208
Remarks	Continued Sediment Station

$QS = 18.3820\ QW^{0.92550}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.98	1.98	3.76	11.46	19.40	83.03	110.13	562.73	7.87	0.93	28.40	28.40	861.08
2	3.18	2.38	3.57	7.32	16.67	51.44	407.38	562.73	7.87	0.93	28.40	28.40	1120.28
3	3.37	2.38	3.76	5.66	18.72	35.24	589.03	484.78	7.51	0.93	28.40	28.40	1208.18
4	3.37	2.18	3.95	4.91	19.40	25.76	279.10	386.66	7.14	0.93	28.40	28.40	790.21
5	4.34	2.18	4.72	4.53	15.30	20.41	915.29	299.54	6.77	0.93	28.40	28.40	1330.81
6	3.18	1.98	4.91	4.72	13.91	17.02	344.13	266.78	6.77	0.93	28.40	28.40	721.12
7	3.18	1.78	4.91	4.53	13.91	33.30	220.34	243.65	6.40	0.93	28.40	28.40	589.72
8	2.98	1.57	4.72	4.72	10.39	39.09	171.97	275.00	6.03	0.93	28.40	28.40	574.20
9	2.98	1.36	4.72	4.72	12.51	27.08	160.57	283.20	5.66	315.81	28.40	28.40	875.40
10	2.78	1.15	4.72	4.34	8.60	21.09	151.40	391.45	5.28	311.75	28.40	28.40	959.36
11	2.78	1.15	4.72	4.34	6.77	34.27	165.13	473.79	4.91	311.75	28.40	28.40	1066.40
12	2.78	1.57	4.91	4.14	6.59	20.41	142.19	396.24	4.53	307.69	28.40	28.40	947.84
13	2.78	1.36	4.91	3.95	6.03	19.06	144.50	344.13	4.14	307.69	28.40	28.40	895.35
14	2.58	2.78	4.72	3.76	5.66	16.67	519.19	299.54	4.14	303.62	28.40	28.40	1219.47
15	2.58	3.76	4.53	3.76	5.28	14.61	537.89	260.19	4.14	303.62	34.27	28.40	1203.02
16	2.78	3.37	4.53	3.76	5.10	12.51	451.74	240.33	14.95	303.62	200.21	191.77	1434.67
17	2.78	3.37	4.72	3.76	4.91	20.08	512.95	206.94	14.95	299.54	213.65	260.19	1547.83
18	2.58	4.34	5.66	3.76	4.72	62.01	396.24	183.31	14.95	295.46	217.00	240.33	1430.35
19	2.18	4.72	6.77	20.41	4.53	60.77	377.07	169.69	14.95	291.38	217.00	246.96	1416.43
20	1.98	5.66	4.91	11.81	4.53	99.48	435.15	153.70	14.95	299.54	220.34	250.27	1502.32
21	1.98	30.37	5.66	14.26	4.34	782.82	424.06	139.88	14.95	295.46	237.01	303.62	2254.40
22	2.38	12.86	5.28	60.77	4.34	473.79	323.92	124.20	14.95	287.29	237.01	303.62	1850.42
23	2.58	6.77	5.66	21.76	4.34	435.15	246.96	117.18	14.95	287.29	237.01	303.62	1683.28
24	2.58	4.91	6.22	18.72	4.34	699.95	203.58	110.13	14.95	233.68	237.01	307.69	1843.75
25	2.78	4.72	44.83	43.88	5.10	367.45	237.01	99.48	14.95	118.94	240.33	307.69	1487.15
26	2.38	4.14	16.67	19.06	4.91	217.00	213.65	101.26	14.95	63.24	240.33	311.75	1209.36
27	2.18	3.76	9.68	15.64	4.91	162.85	275.00	106.59	14.95	38.13	243.65	332.02	1209.36
28	2.18	3.57	6.77	20.41	207.92	200.21	429.61	99.48	14.95	28.40	240.33	348.16	1602.00
29	1.98	3.57	4.72	60.77	118.94	137.57	595.72	92.33	14.95	25.10		367.45	1423.10
30	1.98	3.76	4.53	60.77	142.77	113.66	609.08	89.04	14.95	25.10		391.45	1457.09
31		3.95		26.42	522.31		664.33		14.95	25.10		424.06	1681.13
Total	81.17	133.39	204.09	482.81	1227.12	4303.78	11254.32	7563.95	328.42	5086.66	3412.74	5316.62	39395.07 Tonday
Mean	2.71	4.30	6.80	15.57	39.58	143.46	363.04	252.13	10.59	164.09	121.88	171.50	1295.67 Ton/day
Max	4.34	30.37	44.83	60.77	522.31	782.82	915.29	562.73	14.95	315.81	243.65	424.06	915.29 Ton/day
Min	1.98	1.15	3.57	3.76	4.34	12.51	110.13	89.04	4.14	0.93	28.40	28.40	0.93 Ton/day

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

Ban Pa **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	14,233 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1978-Cont'd
Actual Measurement	1978-Cont'd
Using Rating Curve Water Year	2016
Number of observation	29
R-Square	0.9540
Remarks	Continued Sediment Station

$$QS = 3.4844\ QW^{1.16450}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	101.55	103.52	91.82	120.74	789.31	233.51	4046.08	142.42	41.54	204.38	211.61	539.10	6625.58	
2	86.05	89.89	91.82	123.42	777.10	197.19	4118.75	184.33	40.39	204.38	218.87	510.26	6642.45	
3	78.44	229.84	89.89	120.74	758.84	153.45	4203.75	263.16	41.54	204.38	313.11	504.52	6961.66	
4	76.55	244.57	86.05	118.07	783.20	139.69	4240.25	308.52	41.54	204.38	378.35	479.21	7100.38	
5	76.55	120.74	86.05	123.42	777.10	136.96	4289.00	308.52	39.24	248.27	383.07	450.06	7038.98	
6	74.67	82.23	89.89	164.58	758.84	134.23	4521.58	263.16	36.97	259.42	383.07	445.22	7213.88	
7	74.67	50.89	89.89	167.39	783.20	136.96	5417.91	248.27	164.58	255.70	378.35	445.22	8213.03	
8	91.82	41.54	89.89	142.42	764.92	134.23	6181.40	313.11	175.83	222.52	378.35	445.22	8981.26	
9	95.70	156.22	87.97	167.39	771.01	190.03	6672.05	686.43	134.23	215.24	378.35	445.22	9999.83	
10	80.33	128.81	87.97	193.60	813.80	131.52	7023.82	826.09	126.11	215.24	378.35	445.22	10450.86	
11	72.80	84.14	86.05	204.38	863.10	120.74	7141.63	863.10	123.42	218.87	378.35	445.22	10601.81	
12	72.80	76.55	86.05	207.99	881.69	134.23	7141.63	832.24	136.96	218.87	416.37	435.58	10640.97	
13	86.05	84.14	86.05	285.71	856.92	145.17	7102.33	801.54	128.81	218.87	474.33	416.37	10686.30	
14	89.89	80.33	86.05	317.71	881.69	159.00	7063.06	752.77	175.83	218.87	479.21	392.55	10696.97	
15	89.89	69.07	84.14	308.52	844.56	164.58	6945.43	758.84	317.71	218.87	474.33	368.92	10644.89	
16	89.89	56.26	86.05	211.61	807.67	159.00	6142.90	609.19	430.76	218.87	474.33	350.18	9636.72	
17	82.23	49.71	91.82	193.60	795.42	95.70	5091.61	435.58	392.55	218.87	459.75	294.81	8201.64	
18	67.22	46.18	101.55	226.17	746.70	115.40	4362.26	406.82	383.07	218.87	281.18	421.16	7376.60	
19	65.38	42.69	101.55	193.60	680.44	173.01	2550.45	290.25	326.94	218.87	240.87	450.06	5334.13	
20	72.80	33.59	101.55	193.60	603.31	150.68	430.76	204.38	294.81	218.87	313.11	474.33	3091.81	
21	97.64	17.51	103.52	290.25	479.21	126.11	123.42	200.78	340.86	218.87	354.85	459.75	2812.78	
22	99.60	20.60	103.52	313.11	421.16	303.94	69.07	200.78	354.85	218.87	402.05	368.92	2876.49	
23	99.60	22.70	105.48	354.85	368.92	716.48	34.71	222.52	294.81	218.87	474.33	430.76	3344.05	
24	99.60	20.60	110.10	373.63	364.23	1068.71	22.70	161.79	248.27	222.52	488.99	440.39	3621.53	
25	97.64	17.51	120.74	364.23	364.23	1297.87	30.26	91.82	211.61	222.52	539.10	368.92	3726.45	
26	95.70	13.50	118.07	368.92	378.35	1798.66	61.71	101.55	187.18	222.52	550.70	350.18	4247.03	
27	95.70	5.16	118.07	326.94	368.92	2021.15	52.67	58.07	215.24	218.87	568.16	350.18	4399.13	
28	95.70	33.59	112.74	383.07	368.92	2111.15	89.89	45.01	207.99	218.87	573.99	350.18	4591.12	
29	97.64	63.54	115.40	579.84	425.96	2661.01	150.68	41.54	204.38	222.52		340.86	4903.37	
30	97.64	69.07	134.23	764.92	354.85	3647.62	150.68	41.54	207.99	222.52		350.18	6041.25	
31		67.22		795.42	290.25		150.68		204.38	222.52		350.18	2080.65	
Total	2601.77	2221.92	2943.99	8699.88	19923.83	18757.97	105623.14	10664.12	6230.39	6852.14	11345.52	12918.94	208783.61	Tonday
Mean	86.73	71.67	98.13	280.64	642.70	625.27	3407.20	355.47	200.98	221.04	405.20	416.74	6811.77	Ton/day
Max	101.55	244.57	134.23	795.42	881.69	3647.62	7141.63	863.10	430.76	259.42	573.99	539.10	7141.63	Ton/day
Min	65.38	5.16	84.14	118.07	290.25	95.70	22.70	41.54	36.97	204.38	211.61	294.81	5.16	Ton/day

WATER YEAR : 2016

PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

Location : on right bank at the bridge.

Ban Tha Ruak **Amphoe** Chai Badan **Changwat** Lop Buri

Drainge Area	1,263 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	25
R-Square	0.8840
Remarks	Continued Sediment Station

$QS = 12.2470\ QW^{1.40190}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.42	0.29	0.29	102.13	2.70	365.36	1069.07	145.72	22.03	3.63	3.39	1.37	1716.40	
2	0.29	0.29	0.29	111.07	1.66	571.16	857.98	145.72	20.42	4.00	3.27	1.37	1717.52	
3	0.13	0.36	0.29	130.93	1.47	49.03	6166.10	145.72	18.46	4.25	3.27	1.37	6521.37	
4	0.13	0.42	0.29	175.50	9.27	2.37	10734.88	150.98	16.56	4.51	3.15	1.37	11099.44	
5	0.13	0.49	0.29	220.85	1228.07	2.59	11847.92	156.30	16.18	4.25	3.15	1.37	13481.60	
6	0.13	0.55	0.24	275.73	651.73	2.48	6555.77	161.67	16.18	4.63	3.04	1.37	7673.53	
7	0.13	0.63	0.24	137.06	610.80	2.48	6084.51	171.10	15.08	4.51	3.04	1.37	7030.94	
8	0.13	0.70	0.24	73.20	353.15	2.37	8755.56	182.17	13.64	4.38	2.92	1.37	9389.84	
9	0.18	0.78	0.18	22.03	706.56	2.37	6209.05	193.81	11.91	4.51	2.92	2.81	7157.11	
10	0.02	0.86	0.18	15.45	2298.71	2.16	2363.65	209.91	11.91	6.27	2.81	1.85	4913.78	
11	0.02	1.11	0.18	10.24	1138.95	1.85	2234.29	223.61	12.59	5.43	2.70	1.47	3632.44	
12	0.00	1.37	0.18	5.98	605.02	2.37	1699.56	234.74	11.57	5.71	2.70	1.47	2570.67	
13	0.00	1.75	0.18	458.42	44.50	2112.30	493.72	246.03	11.57	5.71	2.59	1.47	3378.23	
14	0.00	2.16	0.18	628.25	2.26	3597.21	289.24	249.28	11.23	5.16	2.59	1.47	4789.04	
15	0.00	2.59	0.13	18.85	3.39	1857.65	158.08	252.54	9.91	4.63	2.48	1.47	2311.73	
16	0.00	2.92	0.13	1.28	3.87	154.52	800.50	255.82	8.03	4.00	2.37	1.47	1234.92	
17	0.00	3.15	0.13	1.19	2.81	458.42	895.95	161.67	8.64	3.27	2.48	1.47	1539.19	
18	2.92	3.51	0.13	1.19	2.37	1830.18	345.07	142.24	8.96	2.59	2.37	1.47	2343.01	
19	5.43	3.87	0.13	1.11	2.06	1614.04	193.81	143.97	9.59	2.37	2.26	1.47	1980.12	
20	5.16	3.39	0.13	3.27	1.75	4144.23	75.50	137.06	9.59	2.37	2.16	1.47	4386.10	
21	4.90	2.48	0.13	423.88	1.75	7922.31	143.97	145.72	8.34	2.26	2.06	1.47	8659.26	
22	4.12	1.75	1.66	52.13	1.75	9910.59	48.27	94.64	8.34	2.16	1.95	1.47	10128.83	
23	3.51	1.19	23.26	51.35	1.37	2662.99	24.50	42.28	7.43	2.16	1.85	1.47	2823.36	
24	3.51	0.63	182.17	111.07	1.28	1445.51	14.00	46.75	6.84	1.85	1.75	1.47	1816.83	
25	3.51	0.29	143.97	9.27	60.91	9270.47	1424.66	47.51	6.55	1.66	1.66	1.47	10971.93	
26	3.39	0.29	109.78	1.95	143.97	7355.21	6512.13	49.03	6.55	1.56	1.56	1.47	14186.90	
27	3.87	0.29	98.37	8.96	51.35	8360.46	663.57	40.09	5.71	1.56	1.47	1.37	9237.07	
28	3.63	0.29	94.64	17.69	489.27	3304.82	693.42	24.92	5.16	1.56	1.37	1.37	4638.15	
29	3.51	0.29	99.62	152.75	5496.53	1246.77	282.46	23.26	4.25	1.56		1.37	7312.37	
30	0.78	0.29	100.87	269.05	5962.71	1044.42	147.46	22.43	3.75	1.56		1.37	7554.71	
31		0.29		2.26	432.45		143.97		3.87	1.56		1.37	585.79	
Total	49.99	39.31	858.56	3494.10	20314.46	69298.71	77928.62	4246.67	330.83	105.62	69.35	45.98	176782.19	Tonday
Mean	1.67	1.27	28.62	112.71	655.31	2309.96	2513.83	141.56	10.67	3.41	2.48	1.48	5782.95	Ton/day
Max	5.43	3.87	182.17	628.25	5962.71	9910.59	11847.92	255.82	22.03	6.27	3.39	2.81	11847.92	Ton/day
Min	0.00	0.29	0.13	1.11	1.28	1.85	14.00	22.43	3.75	1.56	1.37	1.37	0.00	Ton/day

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Nong Bua , Lop Buri (S.28)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Phatthana Nikhon **Changwat** Lop Buri

Drainge Area	8,778 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	30
R-Square	0.9240
Remarks	Continued Sediment Station

$$QS = 2.0089\ QW^{1.16350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	32.01	18.69	28.59	41.86	397.65	88.18	2496.48	62.53	5.03	100.22	112.47	324.23	3707.94	
2	25.23	18.05	28.59	41.86	384.41	50.58	2496.48	112.47	5.56	101.44	111.24	303.31	3679.22	
3	24.56	18.05	28.59	39.72	397.65	44.74	2490.76	155.24	5.83	100.22	132.88	309.00	3747.24	
4	24.56	18.05	27.91	39.72	399.86	44.74	2502.21	161.29	5.83	102.66	221.78	307.10	3855.71	
5	23.90	25.90	27.91	40.43	395.44	45.47	2519.40	159.77	5.29	102.66	226.54	307.10	3879.80	
6	23.90	32.71	27.91	42.58	391.02	42.58	2849.05	152.23	4.76	116.18	228.13	278.15	4189.21	
7	29.95	32.01	27.91	41.86	391.02	36.19	3490.28	147.73	100.22	138.79	229.72	253.77	4919.48	
8	37.60	32.01	27.91	48.38	386.61	55.76	3805.62	187.32	77.54	117.42	229.72	250.55	5256.45	
9	32.01	32.01	27.24	77.54	395.44	56.51	4036.08	210.73	39.01	107.55	228.13	291.99	5534.23	
10	25.23	27.24	27.24	82.25	415.39	42.58	4172.51	212.30	36.19	106.32	221.78	291.99	5661.01	
11	25.23	38.30	27.24	84.61	439.97	52.05	4158.84	286.35	40.43	106.32	223.36	288.23	5770.93	
12	29.27	39.72	27.24	106.32	435.48	52.79	4117.86	364.68	39.72	167.36	224.95	276.52	5881.92	
13	34.09	39.01	26.57	123.65	431.01	53.53	4104.21	384.41	39.72	198.20	261.87	269.99	5966.27	
14	33.40	39.72	26.57	129.93	422.08	55.02	4111.04	410.95	78.71	199.76	291.99	244.11	6043.26	
15	33.40	39.01	26.57	112.47	408.73	55.76	3873.21	437.73	195.08	198.20	278.15	188.87	5847.16	
16	32.71	39.01	27.91	65.95	404.29	44.02	3113.18	331.88	237.70	196.64	278.15	162.80	4934.25	
17	21.27	34.09	35.49	82.25	386.61	41.15	2669.06	210.73	236.10	198.20	274.89	187.32	4377.15	
18	20.62	33.40	35.49	70.56	362.73	44.02	2181.35	171.94	234.50	198.20	276.52	191.97	3821.29	
19	21.27	39.72	34.79	70.56	312.79	43.30	747.43	117.42	158.26	196.64	274.89	240.90	2257.97	
20	36.89	39.72	34.79	110.00	281.43	41.86	103.87	85.80	119.91	198.20	240.90	271.62	1565.01	
21	39.01	36.19	35.49	147.73	253.77	49.84	43.30	84.61	179.61	198.20	204.45	265.11	1537.31	
22	39.01	30.64	35.49	187.32	213.88	252.16	5.56	83.43	215.45	198.20	202.88	237.70	1701.72	
23	39.72	29.95	36.19	187.32	195.08	422.08	1.11	82.25	199.76	137.31	206.01	215.45	1752.23	
24	39.72	29.95	39.72	191.97	193.52	560.97	0.90	27.91	161.29	110.00	286.35	207.58	1849.90	
25	39.01	29.95	40.43	185.77	193.52	780.02	12.46	7.49	99.01	111.24	284.71	195.08	1978.70	
26	36.19	29.27	39.72	179.61	187.32	1128.14	14.29	6.38	107.55	111.24	284.71	185.77	2310.19	
27	34.79	29.27	39.72	184.23	191.97	1146.66	21.27	5.56	103.87	111.24	310.89	185.77	2365.25	
28	34.09	29.27	39.72	257.01	191.97	1288.98	64.81	5.03	101.44	111.24	331.88	185.77	2641.21	
29	34.09	28.59	40.43	354.98	182.69	2007.57	63.67	5.29	99.01	111.24		184.23	3111.80	
30	25.90	29.27	42.58	404.29	102.66	2467.88	63.67	5.03	101.44	113.70		184.23	3540.64	
31		28.59		395.44	106.32		63.67		102.66	111.24		184.23	992.14	
Total	928.64	967.41	971.98	4128.18	9852.31	11095.13	60393.62	4676.47	3136.49	4375.96	6679.93	7470.47	114676.60	Tonday
Mean	30.95	31.21	32.40	133.17	317.82	369.84	1948.18	155.88	101.18	141.16	238.57	240.98	3741.33	Ton/day
Max	39.72	39.72	42.58	404.29	439.97	2467.88	4172.51	437.73	237.70	199.76	331.88	324.23	4172.51	Ton/day
Min	20.62	18.05	26.57	39.72	102.66	36.19	0.90	5.03	4.76	100.22	111.24	162.80	0.90	Ton/day

WATER YEAR : 2016

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

Ban Tha Hai Yong **Amphoe** Lom Kao **Changwat** Phetchabun

Drainge Area	521 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2001 - 2016
Number of observation	463
R-Square	0.6792
Remarks	Continued Sediment Station

$$QS = 4.9105\ QW^{1.79160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.17	2.27	13.11	1637.30	84.66	408.80	363.42	56.24	20.99	12.04	6.81	5.36	2612.19	
2	1.04	0.95	8.41	408.80	53.69	209.72	312.11	53.69	20.99	12.04	6.81	4.91	1093.16	
3	1.42	0.75	4.07	6030.29	43.99	130.93	988.86	48.73	20.99	12.04	6.81	4.91	7293.79	
4	1.32	6.31	3.29	496.36	1996.88	87.78	328.83	46.33	22.18	12.04	6.81	4.48	3012.60	
5	1.17	4.91	2.59	51.18	1333.60	64.23	804.64	43.99	22.18	11.02	6.81	4.48	2350.80	
6	1.17	0.87	4.07	18089.00	9787.36	72.68	3932.73	43.99	22.18	11.02	6.81	4.48	31976.35	
7	1.04	0.50	2.27	1753.65	1333.60	3520.86	865.05	41.70	22.18	11.02	6.31	4.48	7562.65	
8	1.04	0.50	5.82	670.24	437.15	1777.35	527.20	64.23	20.99	11.02	6.31	4.48	3526.33	
9	0.95	0.50	2.59	3129.25	381.29	580.42	910.51	117.01	20.99	11.02	6.31	4.48	5165.33	
10	0.87	0.50	1.68	624.62	140.46	297.39	613.43	91.59	19.84	11.02	6.31	4.91	1812.62	
11	0.75	0.41	5.82	198.31	87.78	181.50	476.25	58.85	19.84	11.02	5.82	4.91	1051.27	
12	0.67	0.41	8.41	91.59	67.00	1087.21	476.25	51.18	18.55	13.11	5.82	4.48	1824.69	
13	0.57	0.41	23.57	67.00	58.85	11679.32	290.42	43.99	18.55	16.25	5.82	4.07	12208.82	
14	0.57	0.87	3.67	72.68	51.18	40127.02	227.13	39.46	18.55	12.04	5.82	4.07	40563.07	
15	0.57	2.59	1.97	227.13	64.23	4908.90	264.28	37.28	17.31	11.02	5.82	4.07	5545.16	
16	0.57	6.81	1.97	72.68	104.13	1706.69	198.31	35.15	16.25	10.15	5.82	4.07	2162.59	
17	0.50	13.11	1.68	29.10	56.24	1278.64	186.74	33.70	16.25	9.56	5.82	5.82	1637.17	
18	0.41	4.91	48.73	23.57	56.24	879.80	145.53	30.47	15.07	9.56	5.36	4.91	1224.55	
19	0.35	1.97	10.15	19.84	48.73	558.86	121.69	29.10	15.07	9.56	5.36	4.48	825.16	
20	0.35	2.93	5.36	227.13	64.23	926.49	117.01	26.27	14.08	9.56	4.91	4.91	1403.22	
21	0.35	3.29	8.97	81.59	53.69	613.43	104.13	26.27	14.08	9.56	4.48	4.48	924.31	
22	0.41	1.97	135.46	46.33	37.28	390.37	87.78	26.27	14.08	9.56	4.48	4.48	758.46	
23	0.57	10.15	6.81	26.27	39.46	290.42	91.59	24.99	13.11	9.56	4.48	4.48	521.89	
24	0.50	3.29	12.04	51.18	239.24	233.39	135.46	26.27	13.11	9.56	3.67	4.48	732.20	
25	0.50	1.68	9.56	239.24	3167.49	220.94	251.62	33.70	13.11	9.56	3.67	4.07	3955.13	
26	0.41	1.42	17.31	87.78	227.13	209.72	135.46	26.27	13.11	9.56	3.29	4.07	735.52	
27	0.41	2.59	24.99	145.53	270.97	466.34	87.78	26.27	13.11	9.56	3.29	4.07	1054.91	
28	0.50	6.81	126.09	150.28	145.53	198.31	72.68	24.99	13.11	9.56	2.59	3.67	754.12	
29	0.50	27.77	2336.42	198.31	516.83	170.81	72.68	22.18	12.04	9.56		3.67	3370.76	
30	0.50	95.80	1172.79	75.60	1897.91	776.40	64.23	19.84	12.04	9.56		3.29	4127.97	
31		58.85		198.31	227.13		58.85		12.04	9.56		3.29	568.04	
Total	21.16	266.10	4009.68	35220.14	23073.94	74054.72	13312.67	1250.00	525.98	331.20	152.43	136.78	152354.80	Tonday
Mean	0.71	8.58	133.66	1136.13	744.32	2468.49	429.44	41.67	16.97	10.68	5.44	4.41	5000.51	Ton/day
Max	1.42	95.80	2336.42	18089.00	9787.36	40127.02	3932.73	117.01	22.18	16.25	6.81	5.82	40127.02	Ton/day
Min	0.35	0.41	1.68	19.84	37.28	64.23	58.85	19.84	12.04	9.56	2.59	3.29	0.35	Ton/day

WATER YEAR : 2016

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

Drainge Area	- sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.8770
Remarks	Continued Sediment Station

$QS = 11.0820\ QW^{1.11440}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1			39.80	75.58	1448.31	2707.82	9703.96	3497.09	274.21	56.31	4.89	0.00	17807.97	
2			34.21	72.58	1548.45	3312.55	9703.96	2221.82	267.35	54.85	4.21	0.00	17219.99	
3			28.04	80.10	1434.07	3657.98	10229.01	1402.57	260.51	52.67	4.21	0.00	17149.17	
4			22.00	89.23	1245.18	3657.98	10823.17	909.47	260.51	51.22	2.79	0.00	17061.57	
5			0.00	75.58	1131.43	3490.40	11249.65	736.55	260.51	49.78	2.58	0.00	16996.47	
6			0.00	107.78	1311.53	3212.93	11292.39	630.97	246.89	48.34	2.26	0.00	16853.08	
7			0.00	936.70	1060.19	2854.81	11515.15	552.94	240.11	46.91	2.05	0.00	17208.85	
8			0.00	2027.57	884.27	2422.11	12311.59	497.89	233.34	45.48	2.05	0.00	18424.31	
9			0.00	2085.85	1405.61	1969.48	12631.68	789.94	221.55	44.05	1.74	0.00	19149.90	
10			0.00	2219.69	1555.63	1534.11	12860.82	789.94	216.52	43.34	1.64	0.00	19221.69	
11			0.00	2295.36	1275.30	1227.15	12837.89	657.20	211.50	41.92	1.34	0.00	18547.65	
12			0.00	2261.65	1245.18	1534.11	12540.14	604.84	206.49	39.80	1.34	0.00	18433.55	
13			0.00	2227.99	1048.36	3803.87	12037.91	527.18	201.49	37.70	0.85	0.00	19885.35	
14			0.00	2303.69	804.31	5038.95	11249.65	552.94	191.54	34.91	0.57	0.00	20176.56	
15			0.00	2430.49	713.78	5317.49	10419.62	454.29	176.71	32.83	0.57	0.00	19545.78	
16			0.00	2549.34	666.60	5597.53	9981.65	411.11	157.13	30.08	0.57	0.00	19394.02	
17			0.00	2659.00	582.54	5667.77	8821.90	425.45	142.61	28.72	0.48	0.00	18328.48	
18			0.00	2592.11	505.20	5992.01	7159.83	364.86	128.24	26.01	0.48	0.00	16768.73	
19			0.00	2227.99	432.64	6261.23	6133.55	356.03	121.91	23.99	0.39	0.00	15557.74	
20			0.00	1627.61	375.48	6560.17	5108.44	329.69	115.60	22.00	0.39	0.00	14139.39	
21			0.00	1257.22	347.23	7237.86	4238.31	320.95	106.22	20.02	0.39	0.00	13528.20	
22			5.69	1419.83	347.23	8060.47	1914.49	312.24	94.60	18.06	0.31	0.00	12172.92	
23			38.40	1927.90	316.59	8546.54	497.89	303.55	87.71	16.12	0.31	0.00	11735.01	
24			87.71	2312.23	282.81	8711.65	382.58	267.35	85.42	14.85	0.22	0.00	12144.82	
25			129.83	1952.88	264.79	10081.02	396.82	267.35	80.86	12.95	0.14	0.00	13186.64	
26			123.49	1526.94	257.10	10631.82	1402.57	260.51	76.33	11.08	0.14	0.00	14289.98	
27			118.75	1329.69	259.66	10738.09	1656.49	260.51	71.08	10.10	0.07	0.00	14444.43	
28			112.47	1455.44	560.33	10674.31	2044.87	260.51	66.61	9.13	0.00	0.00	15183.67	
29			89.23	1335.75	794.73	10271.34	3126.86	274.21	62.17	8.16		0.00	15962.45	
30			87.71	1137.39	1335.75	9862.54	3871.39	281.09	59.23	6.74		0.00	16641.84	
31				1203.14	1977.68		3871.39		57.04	5.58		0.00	7114.82	
Total			917.32	47804.28	27417.96	170636.10	232015.62	19521.07	4982.01	943.69	37.00	0.00	504275.04	Tonday
Mean			30.58	1542.07	884.45	5687.87	7484.37	650.70	160.71	30.44	1.32	0.00	16472.52	Ton/day
Max			129.83	2659.00	1977.68	10738.09	12860.82	3497.09	274.21	56.31	4.89	0.00	12860.82	Ton/day
Min			0.00	72.58	257.10	1227.15	382.58	260.51	57.04	5.58	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

PASAK RIVER BASIN

Huai Leng at Ban Wang Tian , Phetchabun (S.45)

Lat - - N Long - - E

Location : on left bank at the bridge.

Ban Wang Tian **Amphoe** Wichian Buri **Changwat** Phetchabun

Drainge Area	- sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2016-Cont'd
Actual Measurement	2016-Cont'd
Using Rating Curve Water Year	2016
Number of observation	12
R-Square	0.6861
Remarks	Continued Sediment Station

$QS = 10.6840\ QW^{1.31940}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.99	1.72	0.00	0.00	0.00	0.00	0.58	0.26	1.72	0.45	6.71	
2	0.00	0.00	1.90	1.45	0.00	0.00	0.00	0.00	0.58	0.26	1.63	0.45	6.26	
3	0.00	0.00	1.81	1.45	0.00	0.00	0.00	0.00	0.58	0.26	4.28	0.45	8.82	
4	0.00	0.00	1.81	1.81	0.00	0.00	0.00	0.00	0.58	0.26	1.45	0.45	6.35	
5	0.00	0.00	1.72	1.81	0.00	0.00	0.00	0.00	0.58	0.26	1.45	0.45	6.26	
6	0.00	0.00	1.54	1.90	0.00	0.00	0.00	0.00	0.51	0.26	1.36	0.38	5.95	
7	0.00	0.00	1.45	2.09	0.00	0.00	0.00	0.00	0.51	0.26	1.28	0.38	5.97	
8	0.00	0.00	1.36	2.18	0.00	0.00	0.00	0.00	0.51	0.26	1.19	0.38	5.89	
9	0.00	0.00	1.19	2.98	0.00	0.00	0.00	0.00	0.51	0.26	1.11	0.38	6.44	
10	0.00	0.00	1.11	2.18	0.00	0.00	0.00	0.00	0.51	0.26	1.03	0.38	5.48	
11	0.00	0.00	1.03	2.38	0.00	0.00	0.00	0.00	0.51	0.32	0.87	0.38	5.49	
12	0.00	0.00	0.87	1.81	0.00	0.00	0.00	0.00	0.45	0.45	0.80	0.38	4.75	
13	0.00	0.00	0.80	1.81	0.00	0.00	0.00	0.00	0.45	0.45	0.80	0.38	4.68	
14	0.00	0.00	0.80	1.81	0.00	0.00	0.00	0.00	0.45	2.38	0.72	0.38	6.53	
15	0.00	0.00	0.72	1.81	0.00	0.00	0.00	0.00	0.45	2.18	0.72	0.38	6.26	
16	0.00	0.00	0.72	1.81	0.00	0.00	0.00	0.00	0.45	2.09	0.65	0.32	6.03	
17	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.45	2.09	0.65	0.32	4.53	
18	0.00	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.38	2.09	0.65	0.80	5.11	
19	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.38	2.09	0.65	0.95	5.52	
20	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.38	1.99	0.58	1.11	5.78	
21	0.00	0.00	1.81	0.00	0.00	0.00	0.00	0.00	0.32	1.99	0.58	1.11	5.81	
22	0.00	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.32	1.99	0.51	1.11	6.02	
23	0.00	0.00	2.18	0.00	0.00	0.00	0.00	0.00	0.32	1.99	0.51	1.11	6.12	
24	0.00	0.00	2.47	0.00	0.00	0.00	0.00	0.00	0.32	1.81	0.51	1.11	6.22	
25	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.32	1.81	0.51	1.11	6.42	
26	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.32	1.81	0.51	1.03	6.65	
27	0.00	0.00	3.19	0.00	0.00	0.00	0.00	0.65	0.32	1.81	0.45	0.95	7.36	
28	0.00	0.00	3.29	0.00	0.00	0.00	0.00	0.58	0.32	1.81	0.45	0.95	7.40	
29	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.58	0.32	1.81		0.95	6.33	
30	0.00	0.00	2.18	0.00	0.00	0.00	0.00	0.58	0.32	1.81		0.95	5.84	
31		0.00		0.00	0.00		0.00		0.32	1.72		0.80	2.83	
Total	0.00	0.00	51.76	30.97	0.00	0.00	0.00	2.39	13.31	39.05	27.64	20.74	185.86	Tonday
Mean	0.00	0.00	1.73	1.00	0.00	0.00	0.00	0.08	0.43	1.26	0.99	0.67	6.15	Ton/day
Max	0.00	0.00	3.29	2.98	0.00	0.00	0.00	0.65	0.58	2.38	4.28	1.11	4.28	Ton/day
Min	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.32	0.26	0.45	0.32	0.00	Ton/day

WATER YEAR : 2016

THA CHIN BASIN

Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

Ban Thap Man **Amphoe** Dan Chang **Changwat** Suphan Buri

Drainge Area	686 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2003-Cont'd
Actual Measurement	2003-Cont'd
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.9470
Remarks	Continued Sediment Station

$$QS = 6.0179\ QW^{1.51820}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.23	1.50	0.52	14.69	45.67	1201.26	2684.22	896.48	33.53	22.73	2.98	2.98	4908.80	
2	2.10	1.73	0.52	14.69	38.58	1186.81	3031.56	691.22	32.39	22.73	2.98	2.98	5028.30	
3	1.50	2.10	0.52	18.56	14.69	886.42	4151.48	508.70	31.26	22.73	2.98	2.98	5643.94	
4	1.50	1.97	0.52	16.98	11.82	826.87	4587.65	397.42	30.14	22.73	2.98	2.98	5903.56	
5	1.50	1.97	0.52	14.69	11.82	660.55	3525.73	313.33	30.14	22.73	2.98	2.98	4588.96	
6	1.50	1.97	0.52	14.69	11.82	460.09	1690.34	255.14	30.14	22.73	2.98	2.98	2494.92	
7	1.50	1.97	0.52	14.69	11.36	302.48	1225.30	211.85	30.14	22.73	2.98	2.98	1828.52	
8	1.50	1.97	0.52	17.76	11.36	171.97	821.97	183.58	30.14	22.73	2.98	2.98	1269.49	
9	1.50	1.85	0.52	14.69	11.36	86.79	821.97	196.94	29.04	22.73	2.98	2.98	1193.37	
10	1.50	1.85	0.52	8.75	10.91	45.67	607.26	358.02	29.04	22.73	2.98	2.98	1092.24	
11	1.50	1.85	0.52	5.48	10.03	29.04	335.06	2291.60	29.04	22.73	2.77	2.77	2732.40	
12	1.50	1.85	0.52	6.02	9.17	25.37	280.50	691.22	29.04	22.73	2.77	2.77	1073.47	
13	1.50	1.73	0.52	5.13	8.75	41.37	249.58	381.49	29.04	22.73	2.77	2.77	747.39	
14	1.50	1.73	0.52	5.13	7.94	59.04	244.06	286.97	29.04	22.73	2.77	2.77	664.20	
15	1.50	1.73	0.52	4.96	7.54	65.12	261.40	227.76	29.04	22.73	2.77	2.77	627.85	
16	1.50	1.61	0.52	4.96	7.15	82.29	421.72	188.00	29.04	22.73	2.77	2.77	765.06	
17	1.50	1.61	0.78	4.96	6.76	106.58	773.53	157.83	29.04	22.73	2.77	2.77	1110.87	
18	1.50	1.61	1.85	5.48	6.39	126.15	785.54	140.08	29.04	22.73	2.77	2.77	1125.92	
19	1.50	1.50	1.85	10.47	5.66	144.65	405.46	136.62	29.04	22.73	2.77	2.77	765.03	
20	1.50	1.39	2.10	12.75	5.48	180.07	306.67	133.19	29.04	22.73	2.77	2.77	700.46	
21	1.50	1.39	2.10	24.48	5.30	253.83	327.52	133.19	29.04	22.02	2.56	2.56	805.49	
22	1.50	1.28	2.10	31.90	5.30	601.53	381.49	133.19	29.04	22.02	2.56	2.56	1214.47	
23	1.50	1.28	1.97	31.90	5.13	572.74	358.02	133.19	29.04	22.02	2.56	2.56	1161.91	
24	1.39	1.28	2.77	35.86	5.13	773.53	286.97	133.19	29.04	22.02	2.56	2.56	1296.28	
25	1.39	1.17	3.06	302.48	4.62	2884.58	286.97	133.19	29.04	22.02	2.56	2.56	3673.63	
26	1.39	1.17	4.45	321.47	10.03	1928.58	547.41	140.08	29.04	22.02	2.56	2.56	3010.76	
27	1.28	1.17	4.45	302.48	9.17	2020.98	1120.88	133.19	29.04	22.02	2.56	2.56	3649.78	
28	1.28	1.07	4.45	271.73	1928.58	1502.56	2546.20	133.19	29.04	22.02	2.56	2.56	6445.23	
29	1.28	1.07	4.96	152.30	3159.29	1486.95	3799.53	133.19	29.04	22.02		2.56	8792.18	
30	1.28	1.07	5.48	61.04	2488.83	2221.14	1506.16	133.19	29.04	22.02		2.56	6471.81	
31		1.07		45.67	2424.83		1048.26		29.04	22.02		2.56	3573.46	
Total	45.03	48.51	50.74	1796.83	10300.48	20935.02	39420.40	9986.19	915.83	696.90	78.06	85.75	84359.74	Tonday
Mean	1.50	1.56	1.69	57.96	332.27	697.83	1271.63	332.87	29.54	22.48	2.79	2.77	2754.90	Ton/day
Max	2.23	2.10	5.48	321.47	3159.29	2884.58	4587.65	2291.60	33.53	22.73	2.98	2.98	4587.65	Ton/day
Min	1.28	1.07	0.52	4.96	4.62	25.37	244.06	133.19	29.04	22.02	2.56	2.56	0.52	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

Ban Thung Na Nang Rok **Amphoe** Mueang **Changwat** Kanchanaburi

Drainge Area	2,375 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	12
R-Square	0.9428
Remarks	Continued Sediment Station

$$QS = 1.4084\ QW^{1.51870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.07	0.05	0.06	0.00	87.12	1468.65	14.87	1.74	1.00	0.02	1573.59	
2	0.00	0.00	0.07	0.05	0.06	0.00	69.10	1774.14	12.81	1.74	1.28	0.02	1859.29	
3	0.00	0.00	0.07	0.09	0.05	0.00	48.63	1216.50	6.73	1.58	1.43	0.02	1275.10	
4	0.00	0.00	0.09	0.07	0.04	0.00	48.63	610.65	6.01	1.58	1.00	0.02	668.09	
5	0.00	0.00	0.09	0.07	0.04	0.00	90.11	406.21	6.01	1.43	0.70	0.02	504.68	
6	0.00	0.00	0.09	0.07	0.04	0.00	142.44	285.69	5.02	1.28	0.80	0.01	435.44	
7	0.00	0.00	0.09	0.07	0.04	0.00	308.97	206.38	4.16	1.43	0.70	0.01	521.85	
8	0.00	0.00	0.09	0.07	0.04	0.00	478.26	170.20	4.16	1.43	0.45	0.01	654.71	
9	0.00	0.00	0.09	0.07	0.02	0.00	914.45	152.92	3.88	1.43	0.45	0.01	1073.32	
10	0.00	0.00	0.09	0.07	0.02	0.00	841.26	144.52	3.35	2.07	0.17	0.01	991.57	
11	0.00	0.00	0.07	0.09	0.02	0.00	615.76	163.65	2.61	3.35	0.14	0.01	785.70	
12	0.00	0.00	0.07	0.07	0.02	0.00	516.33	146.60	2.25	4.16	0.11	0.01	669.63	
13	0.00	0.00	0.07	0.07	0.01	0.00	468.90	138.32	2.25	4.44	0.10	0.01	614.17	
14	0.00	0.00	0.07	0.07	0.00	0.00	406.21	140.38	1.90	3.61	0.09	0.00	552.34	
15	0.00	0.00	0.07	0.07	0.00	0.00	305.61	124.23	2.42	3.61	0.09	0.00	436.11	
16	0.00	0.00	0.05	0.07	0.00	0.00	227.65	105.30	2.25	3.35	0.04	0.00	338.71	
17	0.00	0.00	0.05	0.07	0.00	0.00	206.38	93.14	2.61	2.42	0.04	0.00	304.71	
18	0.00	0.06	0.04	0.07	0.00	0.00	330.53	81.24	2.85	1.58	0.04	0.00	416.41	
19	0.00	7.10	0.04	0.07	0.00	0.00	305.61	64.07	2.85	1.58	0.04	0.00	381.36	
20	0.00	2.07	0.04	0.07	0.00	0.00	315.74	51.68	3.10	1.58	0.01	0.00	374.30	
21	0.00	3.35	0.04	0.07	0.00	0.00	181.77	49.64	1.90	1.58	0.04	0.00	238.41	
22	0.00	1.14	0.24	0.06	0.00	0.00	130.21	47.63	1.90	1.43	0.04	0.00	182.65	
23	0.00	0.91	0.07	0.06	0.00	0.00	98.29	48.63	2.42	1.43	0.04	0.00	151.86	
24	0.00	0.70	0.05	0.06	0.00	0.04	81.24	38.03	2.25	1.28	0.04	0.00	123.68	
25	0.00	0.10	0.04	0.07	0.00	0.11	67.81	21.84	2.25	0.91	0.03	0.01	93.17	
26	0.00	0.10	0.04	0.13	0.00	0.13	59.40	18.14	2.25	0.70	0.03	0.01	80.93	
27	0.00	0.09	0.04	0.11	0.00	10.40	85.64	15.40	2.07	0.62	0.03	0.13	114.52	
28	0.00	0.09	0.04	0.11	0.02	36.20	222.09	14.87	2.07	0.62	0.04	0.38	276.51	
29	0.00	0.05	0.02	0.07	0.00	30.04	369.06	13.32	2.07	1.00		0.38	416.02	
30	0.00	0.05	0.05	0.07	0.00	94.84	694.70	12.81	2.07	1.14		0.24	805.98	
31		0.05		0.06	0.00		1127.22		1.74	1.00		1.28	1131.36	
Total	0.00	15.86	2.03	2.31	0.48	171.76	9845.14	7824.77	115.09	57.14	8.95	2.63	18046.16	Tonday
Mean	0.00	0.51	0.07	0.07	0.02	5.73	317.59	260.83	3.71	1.84	0.32	0.08	590.77	Ton/day
Max	0.00	7.10	0.24	0.13	0.06	94.84	1127.22	1774.14	14.87	4.44	1.43	1.28	1774.14	Ton/day
Min	0.00	0.00	0.02	0.05	0.00	0.00	48.63	12.81	1.74	0.62	0.01	0.00	0.00	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

Ban Bo **Amphoe** Suan Phung **Changwat** Ratchaburi

Drainge Area	1,344 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.9378
Remarks	Continued Sediment Station

$$QS = 0.6671\ QW^{1.66240}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	0.67	0.29	0.90	1.53	1.61	60.16	5603.27	5.61	1.46	1.10	0.46	5677.18	
2	0.21	0.61	0.18	0.84	1.38	1.10	28.16	1777.85	4.14	1.46	0.97	0.46	1817.36	
3	0.07	0.51	0.25	0.84	1.17	0.72	19.01	1298.60	3.48	1.46	0.97	0.46	1327.53	
4	0.07	0.21	0.67	0.84	1.17	0.84	41.52	756.83	3.27	1.46	0.97	0.46	808.29	
5	0.07	0.09	1.10	0.97	1.17	0.67	52.06	437.83	3.06	1.46	0.84	0.46	499.76	
6	0.07	0.09	0.61	1.03	0.97	0.56	52.06	263.84	3.06	1.46	0.78	0.46	324.99	
7	0.07	0.07	0.51	1.46	1.24	0.56	25.73	205.44	3.48	1.53	0.72	0.46	241.27	
8	0.07	0.07	0.25	2.86	1.10	0.56	17.35	171.82	3.06	1.53	0.72	0.46	199.85	
9	0.07	0.07	0.15	1.46	1.10	0.56	18.17	126.90	2.47	1.94	0.67	0.46	154.00	
10	0.07	0.07	0.12	1.69	1.03	0.56	17.35	101.12	2.02	6.00	0.61	0.41	131.06	
11	0.07	0.07	0.15	2.86	0.97	0.56	18.17	86.80	2.02	8.74	0.56	0.41	121.37	
12	0.07	0.07	0.09	5.23	0.97	0.56	8.74	71.20	1.94	5.61	0.51	0.46	95.44	
13	0.07	0.05	0.07	2.86	0.78	0.56	5.61	60.16	1.94	3.48	0.46	0.46	76.49	
14	0.07	0.03	0.07	1.85	0.97	0.56	5.23	52.06	1.85	3.06	0.46	0.46	66.67	
15	0.07	0.03	0.07	1.46	0.72	0.56	10.01	38.68	1.69	2.86	0.46	0.46	57.06	
16	0.07	0.03	0.07	1.31	0.97	0.56	17.35	35.93	1.85	2.47	0.46	0.46	61.52	
17	0.07	0.03	0.09	1.77	1.10	0.51	26.93	31.95	2.86	2.29	0.46	0.72	68.78	
18	0.07	0.09	0.33	3.27	1.17	0.56	63.53	28.16	2.66	2.11	0.46	0.78	103.18	
19	0.07	0.84	0.51	4.14	1.94	0.67	28.16	18.17	2.29	2.11	0.46	1.46	60.81	
20	0.07	1.77	0.41	3.92	1.94	1.17	41.52	19.01	2.02	1.94	0.46	1.24	75.46	
21	0.07	1.94	0.56	14.22	1.69	0.84	34.58	24.56	1.94	1.85	0.46	1.03	83.74	
22	0.07	0.90	10.67	4.85	1.46	15.76	15.76	19.01	1.77	1.77	0.46	1.10	73.58	
23	0.07	0.61	13.48	2.66	1.24	430.50	9.37	14.98	1.61	1.61	0.46	0.90	477.50	
24	0.07	0.46	2.47	2.66	1.10	475.20	5.61	15.76	1.61	1.46	0.46	0.78	507.64	
25	0.07	0.90	1.53	4.85	0.90	159.84	4.14	16.55	1.46	1.38	0.46	0.72	192.82	
26	0.07	0.72	1.24	29.40	1.03	75.53	9.37	12.75	1.46	1.31	0.46	0.78	134.12	
27	0.07	0.51	1.17	12.75	0.72	48.95	48.95	11.35	1.38	1.31	0.46	3.48	131.10	
28	0.07	0.51	1.03	3.48	0.90	77.74	234.49	10.01	1.46	1.24	0.46	2.86	334.24	
29	0.07	0.46	0.78	2.02	0.67	60.16	163.80	8.13	1.46	1.24		1.77	240.56	
30	0.07	0.33	0.72	2.29	0.56	63.53	1280.51	7.25	1.46	1.17		1.31	1359.20	
31		0.29		1.77	1.46		2124.30		1.46	1.17		1.53	2131.98	
Total	2.19	13.08	39.61	122.53	35.10	1422.06	4487.69	11325.96	71.86	69.93	16.78	27.74	17634.53	Tonday
Mean	0.07	0.42	1.32	3.95	1.13	47.40	144.76	377.53	2.32	2.26	0.60	0.89	582.67	Ton/day
Max	0.21	1.94	13.48	29.40	1.94	475.20	2124.30	5603.27	5.61	8.74	1.10	3.48	5603.27	Ton/day
Min	0.07	0.03	0.07	0.84	0.56	0.51	4.14	7.25	1.38	1.17	0.46	0.41	0.03	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

Ban Nam Chon **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	799 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	28
R-Square	0.9245
Remarks	Continued Sediment Station

$$QS = 0.2870\ QW^{1.73380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	0.29	2.40	7.97	33.99	6.79	13.20	63.92	9.01	4.36	2.64	2.64	148.16
2	0.80	0.39	3.75	13.97	27.52	6.79	11.73	49.05	9.01	4.36	2.64	2.64	132.65
3	0.65	0.29	2.90	16.37	25.49	13.20	11.02	41.03	8.38	4.36	2.64	2.40	128.72
4	0.65	0.39	2.16	18.05	22.58	13.20	11.73	35.12	8.38	4.36	2.90	2.40	121.92
5	0.51	0.51	1.71	14.75	23.53	16.37	13.20	31.77	8.38	4.36	2.64	2.40	120.13
6	0.51	1.13	1.50	13.20	24.50	20.72	11.02	28.56	7.97	4.36	2.64	2.40	118.51
7	0.39	0.80	1.71	17.20	24.50	13.97	8.38	29.61	7.56	4.36	2.16	2.16	112.79
8	0.39	0.51	1.71	19.81	23.53	9.66	7.56	27.52	7.17	4.36	1.93	2.16	106.32
9	0.39	0.39	1.71	37.44	20.72	7.97	7.17	28.56	7.56	4.05	1.93	2.16	120.04
10	0.29	0.39	1.71	52.61	21.64	6.79	6.41	26.50	7.17	4.36	2.64	1.93	132.44
11	0.29	0.29	2.40	143.28	18.92	6.41	7.17	24.50	6.79	5.34	3.46	1.93	220.78
12	0.29	0.29	49.05	54.43	21.64	5.69	5.34	22.58	6.79	9.66	3.46	1.93	181.14
13	0.29	0.29	32.87	32.87	23.53	5.34	9.66	20.72	6.79	9.01	3.17	1.93	146.47
14	0.29	0.29	13.20	28.56	56.28	6.41	7.17	18.92	6.79	6.05	3.17	1.93	149.06
15	0.29	0.24	11.02	23.53	136.45	5.34	30.68	18.05	6.41	5.00	3.17	1.71	241.91
16	0.39	0.65	7.97	17.20	1007.82	5.00	80.42	17.20	6.41	5.00	2.90	1.71	1152.69
17	0.39	2.40	6.79	13.97	465.15	4.67	110.56	16.37	6.41	4.36	2.90	1.71	635.68
18	0.39	2.16	6.79	13.20	153.79	4.05	58.15	15.55	6.05	4.36	2.90	1.50	268.89
19	0.29	1.71	7.17	12.46	84.79	5.34	27.52	14.75	6.05	4.36	2.90	1.50	168.84
20	0.39	2.90	7.17	11.02	49.05	9.01	20.72	13.97	5.69	4.36	2.64	1.71	128.64
21	0.51	1.93	5.69	13.20	37.44	23.53	36.27	13.97	5.69	4.05	2.64	1.50	146.43
22	0.39	1.93	9.66	18.05	25.49	103.25	18.05	13.20	5.69	3.75	2.64	1.50	203.62
23	0.29	5.69	9.01	33.99	18.92	61.97	13.20	13.20	5.69	3.46	2.64	1.50	169.57
24	0.39	7.17	6.41	26.50	14.75	38.62	10.33	12.46	5.69	3.46	2.40	1.50	129.68
25	0.39	5.00	5.34	35.12	11.02	71.97	8.38	12.46	5.34	3.17	2.40	1.50	162.10
26	0.39	6.79	7.17	36.27	11.73	52.61	9.66	12.46	5.34	3.17	2.40	1.50	149.51
27	0.39	5.34	7.56	29.61	7.97	35.12	67.89	12.46	5.34	3.17	2.40	1.50	178.77
28	0.39	3.46	7.56	22.58	6.79	33.99	44.75	11.02	5.00	3.17	2.40	1.93	143.04
29	0.51	3.17	6.41	18.05	6.41	23.53	36.27	10.33	4.36	2.90		1.93	113.89
30	0.51	2.90	5.69	22.58	6.79	16.37	46.03	9.66	4.36	2.90		1.71	119.50
31		2.40		32.87	9.66		43.50		4.36	2.90		1.71	97.39
Total	13.03	62.08	236.21	850.72	2422.41	633.68	793.17	665.46	201.62	136.85	75.40	58.64	6149.27 Tonday
Mean	0.43	2.00	7.87	27.44	78.14	21.12	25.59	22.18	6.50	4.41	2.69	1.89	200.29 Ton/day
Max	0.95	7.17	49.05	143.28	1007.82	103.25	110.56	63.92	9.01	9.66	3.46	2.64	1007.82 Ton/day
Min	0.29	0.24	1.50	7.97	6.41	4.05	5.34	9.66	4.36	2.90	1.93	1.50	0.24 Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

Ban Bong Ti **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge Area	518 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.9441
Remarks	Continued Sediment Station

$$QS = 1.2696\ QW^{2.04910}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.04	0.04	0.14	14.21	249.93	0.19	0.04	0.00	0.00	264.58
2	0.00	0.00	0.00	0.03	0.03	0.14	39.31	67.65	0.17	0.03	0.00	0.00	107.36
3	0.00	0.00	0.00	0.03	0.02	0.14	12.48	32.00	0.16	0.03	0.00	0.00	44.86
4	0.00	0.00	0.00	0.02	0.02	0.11	10.47	16.44	0.14	0.03	0.00	0.00	27.23
5	0.00	0.00	0.00	0.02	0.01	0.09	10.86	9.28	0.14	0.03	0.00	0.00	20.43
6	0.00	0.00	0.00	0.02	0.01	0.07	24.27	6.39	0.14	0.03	0.00	0.00	30.92
7	0.00	0.00	0.00	0.02	0.01	0.09	12.90	4.68	0.14	0.03	0.00	0.00	17.87
8	0.00	0.00	0.00	0.06	0.01	0.17	6.87	3.68	0.14	0.03	0.00	0.00	10.96
9	0.00	0.00	0.00	0.03	0.01	0.24	4.63	2.91	0.12	0.03	0.00	0.00	7.97
10	0.00	0.00	0.00	0.05	0.01	0.16	4.48	2.64	0.12	0.04	0.00	0.00	7.50
11	0.00	0.00	0.00	0.16	0.01	0.11	3.12	2.24	0.11	0.06	0.00	0.00	5.80
12	0.00	0.00	0.00	0.14	0.00	0.14	2.99	2.01	0.09	0.07	0.00	0.00	5.44
13	0.00	0.00	0.00	0.12	0.01	0.14	23.45	1.75	0.09	0.07	0.00	0.00	25.63
14	0.00	0.00	0.00	0.09	0.02	0.12	9.28	1.54	0.09	0.06	0.00	0.00	11.20
15	0.00	0.00	0.00	0.07	0.03	0.11	7.63	1.27	0.07	0.04	0.00	0.00	9.23
16	0.00	0.00	0.00	0.05	0.26	0.08	29.87	0.91	0.07	0.04	0.00	0.00	31.27
17	0.00	0.00	0.00	0.04	1.81	0.07	927.84	0.74	0.09	0.03	0.00	0.00	930.62
18	0.00	0.00	0.00	0.02	1.14	0.06	283.27	0.67	0.09	0.03	0.00	0.00	285.27
19	0.00	0.00	0.01	0.02	0.65	0.05	32.96	0.61	0.09	0.03	0.00	0.00	34.40
20	0.00	0.00	0.00	0.02	0.45	0.06	11.01	0.56	0.09	0.03	0.00	0.00	12.21
21	0.00	0.00	0.00	0.01	0.33	0.04	5.58	0.48	0.07	0.02	0.00	0.00	6.53
22	0.00	0.00	0.00	0.01	0.28	10.47	3.37	0.45	0.06	0.02	0.00	0.00	14.66
23	0.00	0.00	0.04	0.01	0.19	121.44	2.24	0.37	0.06	0.01	0.00	0.00	124.36
24	0.00	0.00	0.02	0.01	0.14	9.28	1.60	0.31	0.06	0.01	0.00	0.00	11.43
25	0.00	0.00	0.06	0.03	0.09	110.67	1.14	0.26	0.06	0.01	0.00	0.00	112.32
26	0.00	0.00	0.04	0.02	0.09	45.58	1.19	0.26	0.05	0.01	0.00	0.00	47.24
27	0.00	0.00	0.02	0.04	0.17	12.98	325.39	0.24	0.04	0.01	0.00	0.00	338.90
28	0.00	0.00	0.02	0.05	0.09	7.90	106.87	0.24	0.04	0.01	0.00	0.00	115.20
29	0.00	0.00	0.01	0.04	0.07	15.12	215.82	0.21	0.04	0.00		0.00	231.31
30	0.00	0.00	0.07	0.05	0.06	7.90	3002.71	0.21	0.04	0.00		0.00	3011.04
31		0.00		0.04	0.07		717.86		0.04	0.00		0.00	718.01
Total	0.00	0.00	0.29	1.33	6.14	343.65	5855.66	410.92	2.88	0.87	0.01	0.00	6621.75 Tonday
Mean	0.00	0.00	0.01	0.04	0.20	11.45	188.89	13.70	0.09	0.03	0.00	0.00	214.42 Ton/day
Max	0.00	0.00	0.07	0.16	1.81	121.44	3002.71	249.93	0.19	0.07	0.00	0.00	3002.71 Ton/day
Min	0.00	0.00	0.00	0.01	0.00	0.04	1.14	0.21	0.04	0.00	0.00	0.00	0.00 Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Wang Yen , Kanchanaburi (K.37)

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

Ban Wang Yen **Amphoe** Mueang **Changwat** Kanchanaburi

Drainge Area	10,557 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.9086
Remarks	Continued Sediment Station

$$QS = 0.0006\ QW^{2.75360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	591.33	356.62	561.47	295.84	439.00	637.98	255.86	16041.39	345.73	367.72	654.04	778.83	21325.81
2	532.59	304.29	546.91	324.59	464.57	532.59	324.59	19240.73	356.62	367.72	504.67	818.20	24318.05
3	504.67	279.40	561.47	390.59	464.57	546.91	477.70	15341.76	367.72	324.59	518.51	922.12	20700.01
4	426.56	439.00	439.00	304.29	379.05	477.70	390.59	7987.95	335.05	491.07	518.51	838.35	13027.13
5	356.62	561.47	390.59	367.72	451.67	561.47	324.59	2972.72	335.05	561.47	518.51	943.86	8345.74
6	439.00	491.07	451.67	504.67	345.73	546.91	345.73	1364.63	335.05	532.59	477.70	818.20	6652.94
7	314.33	518.51	356.62	606.63	379.05	576.28	414.35	818.20	279.40	576.28	477.70	879.60	6196.95
8	390.59	477.70	304.29	591.33	356.62	532.59	279.40	654.04	255.86	622.18	504.67	838.35	5807.62
9	439.00	464.57	255.86	491.07	345.73	451.67	279.40	518.51	248.30	591.33	576.28	759.60	5421.31
10	390.59	426.56	212.64	451.67	402.36	426.56	205.93	402.36	226.48	622.18	670.35	740.68	5178.36
11	390.59	451.67	226.48	402.36	324.59	426.56	162.69	426.56	226.48	654.04	576.28	546.91	4815.20
12	345.73	451.67	226.48	518.51	345.73	402.36	144.33	379.05	212.64	703.75	532.59	637.98	4900.81
13	414.35	390.59	248.30	491.07	314.33	379.05	157.97	279.40	199.35	686.92	546.91	576.28	4684.51
14	451.67	451.67	439.00	504.67	324.59	390.59	157.97	255.86	212.64	703.75	464.57	654.04	5011.01
15	367.72	477.70	504.67	314.33	546.91	477.70	131.47	335.05	212.64	622.18	491.07	740.68	5222.12
16	390.59	477.70	606.63	324.59	879.60	477.70	115.48	532.59	212.64	622.18	591.33	838.35	6069.39
17	464.57	670.35	561.47	314.33	1888.84	518.51	367.72	367.72	192.91	576.28	576.28	965.92	7464.90
18	439.00	464.57	546.91	248.30	3237.59	464.57	1204.81	379.05	192.91	622.18	622.18	965.92	9388.00
19	426.56	345.73	622.18	263.56	1925.40	518.51	1154.33	390.59	199.35	670.35	654.04	858.82	8029.42
20	477.70	367.72	561.47	271.41	1283.14	518.51	606.63	304.29	226.48	606.63	622.18	922.12	6768.28
21	402.36	414.35	491.07	287.55	1011.03	622.18	518.51	287.55	226.48	670.35	622.18	879.60	6433.21
22	390.59	532.59	637.98	287.55	900.70	5517.93	464.57	367.72	212.64	606.63	491.07	879.60	11289.58
23	390.59	379.05	637.98	314.33	818.20	3517.02	402.36	390.59	174.38	561.47	426.56	838.35	8850.90
24	345.73	390.59	576.28	345.73	576.28	1579.53	279.40	402.36	153.33	561.47	451.67	1011.03	6673.39
25	314.33	504.67	546.91	379.05	414.35	4787.00	233.61	439.00	139.96	622.18	591.33	879.60	9851.99
26	279.40	518.51	379.05	356.62	439.00	1817.04	240.88	491.07	144.33	606.63	606.63	879.60	6758.77
27	345.73	477.70	356.62	491.07	426.56	1129.61	3691.81	491.07	180.43	637.98	532.59	1204.81	9965.97
28	304.29	477.70	304.29	504.67	439.00	1230.57	3347.60	439.00	335.05	606.63	561.47	1057.46	9607.73
29	295.84	464.57	414.35	591.33	390.59	532.59	4120.90	356.62	367.72	546.91		943.86	9025.28
30	304.29	414.35	345.73	491.07	464.57	345.73	15169.95	402.36	379.05	576.28		943.86	19837.22
31		464.57		546.91	606.63		17878.44		426.56	546.91		1105.22	21575.24
Total	11926.92	13907.21	13314.35	12577.39	21585.95	30943.91	53849.56	73059.79	7913.24	18068.83	15381.85	26667.84	299196.84 Tonday
Mean	397.56	448.62	443.81	405.72	696.32	1031.46	1737.08	2435.33	255.27	582.87	549.35	860.25	9843.65 Ton/day
Max	591.33	670.35	637.98	606.63	3237.59	5517.93	17878.44	19240.73	426.56	703.75	670.35	1204.81	19240.73 Ton/day
Min	279.40	279.40	212.64	248.30	314.33	345.73	115.48	255.86	139.96	324.59	426.56	546.91	115.48 Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

Ban Nong Bang **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	122 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2000-Cont'd
Actual Measurement	2000-Cont'd
Using Rating Curve Water Year	2000-2016
Number of observation	341
R-Square	0.8375
Remarks	Continued Sediment Station

$$QS = 2.9028\ QW^{1.86420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.30	0.07	0.45	0.25	0.45	3.83	12.84	0.98	0.35	0.19	0.00	20.72	
2	0.00	1.30	0.07	0.35	0.25	0.45	3.83	10.97	0.98	0.35	0.19	0.00	18.74	
3	0.00	1.12	0.07	0.45	0.25	0.45	3.83	10.97	0.98	0.35	0.19	0.00	18.67	
4	0.00	0.98	0.07	0.45	0.25	0.45	3.83	9.23	0.98	0.35	0.19	0.00	16.80	
5	0.00	0.98	0.06	0.68	0.25	0.45	6.18	7.64	0.98	0.35	0.19	0.00	17.78	
6	0.00	0.98	0.06	0.98	0.25	1.12	23.92	6.89	0.98	0.68	0.12	0.00	36.01	
7	0.00	0.98	0.06	0.98	0.35	2.85	19.79	6.18	0.98	0.68	0.12	0.00	32.99	
8	0.00	0.83	0.06	0.98	0.35	2.39	14.85	3.83	0.98	0.68	0.12	0.00	25.07	
9	0.00	0.68	0.06	0.98	0.35	2.39	12.84	2.85	0.98	0.68	0.12	0.00	21.94	
10	0.00	0.68	0.06	0.98	0.35	2.39	10.08	2.85	0.98	0.68	0.12	0.00	19.18	
11	0.00	0.45	0.45	0.98	0.35	2.01	7.64	2.85	0.98	0.68	0.12	0.00	16.52	
12	0.00	0.45	0.35	0.83	0.35	2.01	6.18	2.01	0.83	0.58	0.00	0.00	13.57	
13	0.00	0.35	0.25	0.68	0.35	2.01	22.50	2.01	0.68	0.58	0.00	0.00	29.40	
14	0.00	0.25	0.25	0.68	0.83	2.01	19.79	2.01	0.68	0.58	0.00	0.00	27.07	
15	0.00	0.25	0.25	0.83	2.01	1.30	18.49	1.66	0.68	0.58	0.00	0.00	26.04	
16	0.00	0.25	0.25	1.12	6.89	1.30	17.23	1.66	0.68	0.58	0.00	0.00	29.97	
17	0.00	0.25	0.25	1.12	4.40	1.30	13.82	1.66	0.58	0.58	0.00	0.00	23.96	
18	0.00	0.25	0.25	1.12	3.35	0.98	10.08	1.66	0.58	0.58	0.00	0.00	18.85	
19	0.00	0.19	0.25	1.12	2.39	0.98	6.89	1.30	0.58	0.45	0.00	0.00	14.15	
20	0.00	0.12	0.19	0.98	1.66	0.83	6.89	1.30	0.45	0.45	0.00	0.00	12.87	
21	0.00	0.12	0.19	0.98	1.12	1.12	5.51	1.30	0.45	0.45	0.00	0.00	11.25	
22	0.00	0.12	0.19	0.98	0.83	2.01	4.94	1.30	0.45	0.35	0.00	0.00	11.17	
23	0.00	0.12	0.19	0.83	0.68	2.01	3.83	1.12	0.45	0.35	0.00	0.00	9.57	
24	0.00	0.10	0.12	0.83	0.68	2.01	2.85	1.12	0.45	0.25	0.00	0.00	8.41	
25	0.00	0.10	0.12	0.68	0.68	2.01	2.39	1.12	0.45	0.25	0.00	0.00	7.80	
26	0.00	0.07	0.12	0.68	0.58	7.64	2.39	1.12	0.35	0.25	0.00	0.00	13.19	
27	0.00	0.06	0.19	0.58	0.58	14.85	235.03	1.66	0.35	0.25	0.00	0.00	253.54	
28	0.00	0.06	0.19	0.45	0.45	4.40	25.38	1.66	0.35	0.19	0.00	0.00	33.13	
29	0.06	0.06	0.25	0.25	0.45	3.83	10.97	1.66	0.35	0.19		0.00	18.07	
30	0.98	0.07	0.35	0.25	0.45	3.83	49.32	1.66	0.35	0.19		0.00	57.45	
31		0.07		0.25	0.45		26.88		0.35	0.19		0.00	28.20	
Total	1.05	13.64	5.34	23.57	32.43	71.80	601.97	106.03	20.93	13.68	1.65	0.00	892.08	Tonday
Mean	0.03	0.44	0.18	0.76	1.05	2.39	19.42	3.53	0.68	0.44	0.06	0.00	28.98	Ton/day
Max	0.98	1.30	0.45	1.12	6.89	14.85	235.03	12.84	0.98	0.68	0.19	0.00	235.03	Ton/day
Min	0.00	0.06	0.06	0.25	0.25	0.45	2.39	1.12	0.35	0.19	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

Ban Ong Thi **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	51 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	1998 - 2016
Number of observation	420
R-Square	0.7715
Remarks	Continued Sediment Station

$$QS = 3.8257\ QW^{1.31880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	0.00	0.18	0.29	0.46	0.96	1.14	1.74	0.40	0.29	0.18	0.00	5.82	
2	0.09	0.00	0.14	0.34	0.46	0.96	1.33	1.53	0.40	0.29	0.18	0.00	5.72	
3	0.09	0.00	0.14	0.40	0.46	0.96	1.53	1.33	0.40	0.23	0.18	0.00	5.73	
4	0.05	0.00	0.14	0.46	0.46	0.96	1.53	0.96	0.40	0.23	0.18	0.00	5.37	
5	0.09	0.00	0.14	1.33	0.40	1.33	47.37	1.14	0.34	0.23	0.14	0.00	52.53	
6	0.05	0.00	0.14	0.61	0.40	1.14	3.93	1.14	0.34	0.23	0.14	0.00	8.13	
7	0.05	0.00	0.14	0.96	0.46	0.96	2.39	1.14	0.34	0.23	0.05	0.00	6.73	
8	0.09	0.00	0.14	0.61	0.61	0.78	2.39	1.53	0.34	0.23	0.00	0.00	6.74	
9	0.09	0.00	0.09	0.46	0.61	0.78	2.39	1.14	0.34	0.23	0.00	0.00	6.15	
10	0.09	0.00	0.09	1.33	0.46	0.78	1.53	1.14	0.34	0.29	0.00	0.00	6.07	
11	0.09	0.00	0.14	1.53	0.46	0.78	1.74	1.14	0.34	0.34	0.00	0.00	6.57	
12	0.09	0.02	0.96	0.46	0.40	0.78	1.53	1.14	0.34	0.40	0.00	0.00	6.13	
13	0.09	0.02	0.61	0.78	0.40	0.61	1.53	1.14	0.34	0.40	0.00	0.00	5.94	
14	0.09	0.02	0.46	0.61	1.33	0.78	1.53	1.14	0.34	0.23	0.00	0.00	6.56	
15	0.09	0.02	0.61	0.61	4.34	0.46	1.33	0.96	0.34	0.23	0.00	0.00	9.01	
16	0.09	0.00	0.61	0.96	7.70	0.78	1.14	0.78	0.34	0.23	0.00	0.00	12.65	
17	0.09	0.09	1.53	0.96	3.93	0.61	1.14	0.78	0.34	0.18	0.00	0.00	9.67	
18	0.02	1.53	1.53	0.96	2.39	0.61	1.14	0.78	0.34	0.23	0.00	0.00	9.55	
19	0.00	0.18	0.23	0.96	1.95	0.46	1.14	0.61	0.34	0.23	0.00	0.00	6.12	
20	0.00	0.14	0.23	0.96	2.17	0.46	1.14	0.61	0.29	0.23	0.00	0.00	6.23	
21	0.00	0.09	0.23	0.40	1.74	0.46	1.14	0.46	0.29	0.23	0.00	0.00	5.04	
22	0.00	0.09	0.23	0.40	1.53	1.33	1.14	0.46	0.29	0.23	0.00	0.00	5.71	
23	0.00	0.23	0.23	0.61	1.33	2.76	1.14	0.46	0.29	0.23	0.00	0.00	7.29	
24	0.00	0.23	0.23	0.61	1.14	2.39	1.33	0.46	0.29	0.18	0.00	0.00	6.88	
25	0.00	0.23	0.23	0.46	0.96	6.53	0.96	0.46	0.29	0.14	0.00	0.00	10.25	
26	0.00	0.23	0.23	0.40	1.14	3.14	1.14	0.46	0.29	0.18	0.00	0.00	7.21	
27	0.00	0.23	0.29	0.40	0.96	2.17	8.31	0.46	0.29	0.18	0.00	0.00	13.28	
28	0.00	0.23	0.29	0.40	0.96	1.53	3.93	0.46	0.29	0.18	0.00	0.00	8.26	
29	0.00	0.14	0.23	0.34	0.96	1.53	9.54	0.46	0.29	0.18		0.00	13.67	
30	0.00	0.14	0.29	0.34	0.78	1.53	3.93	0.46	0.29	0.18		0.00	7.93	
31		0.14		0.46	1.14		1.95		0.29	0.18		0.00	4.16	
Total	1.59	4.03	10.75	20.41	42.49	39.33	113.45	26.50	10.15	7.34	1.06	0.00	277.11	Tonday
Mean	0.05	0.13	0.36	0.66	1.37	1.31	3.66	0.88	0.33	0.24	0.04	0.00	9.03	Ton/day
Max	0.18	1.53	1.53	1.53	7.70	6.53	47.37	1.74	0.40	0.40	0.18	0.00	47.37	Ton/day
Min	0.00	0.00	0.09	0.29	0.40	0.46	0.96	0.46	0.29	0.14	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

Ban Hin Laem **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	123 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	1998 - 2016
Number of observation	373
R-Square	0.8263
Remarks	Continued Sediment Station

$$QS = 3.8312\ QW^{1.41820}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.24	1.52	35.75	7.20	0.04	0.00	0.00	0.00	44.74	
2	0.00	0.00	0.00	0.00	0.15	1.35	10.38	5.56	0.04	0.00	0.00	0.00	17.48	
3	0.00	0.00	0.00	0.00	0.15	4.33	6.74	4.33	0.00	0.00	0.00	0.00	15.55	
4	0.00	0.00	0.00	0.00	0.04	3.20	23.01	4.05	0.00	0.00	0.00	0.00	30.30	
5	0.00	0.00	0.00	0.00	0.86	3.20	18.63	3.78	0.00	0.00	0.00	0.00	26.47	
6	0.00	0.00	0.00	0.00	0.63	2.69	8.96	3.51	0.00	0.00	0.00	0.00	15.79	
7	0.00	0.00	0.00	0.00	0.63	2.08	6.36	2.94	0.00	0.00	0.00	0.00	12.01	
8	0.00	0.00	0.00	0.00	0.54	1.20	4.96	2.94	0.00	0.00	0.00	0.00	9.64	
9	0.00	0.00	0.00	0.00	0.42	0.86	4.33	1.90	0.00	0.00	0.00	0.00	7.51	
10	0.00	0.00	0.00	0.31	0.31	0.73	4.05	1.90	0.00	0.00	0.00	0.00	7.30	
11	0.00	0.00	0.00	3.51	18.63	0.63	2.69	1.90	0.00	0.00	0.00	0.00	27.36	
12	0.00	0.00	0.00	2.08	42.99	0.54	3.51	1.90	0.00	0.00	0.00	0.00	51.01	
13	0.00	0.00	0.00	1.52	66.10	0.42	2.94	1.90	0.00	0.00	0.00	0.00	72.88	
14	0.00	0.00	0.00	0.86	27.27	0.42	7.20	1.20	0.00	0.00	0.00	0.00	36.94	
15	0.00	0.00	0.00	0.73	25.54	0.31	10.90	0.63	0.00	0.00	0.00	0.00	38.11	
16	0.00	0.00	0.00	0.63	20.74	0.24	10.90	0.54	0.00	0.00	0.00	0.00	33.04	
17	0.00	0.00	0.00	0.42	11.42	0.24	17.94	0.42	0.00	0.00	0.00	0.00	30.43	
18	0.00	0.00	0.00	0.24	6.36	0.24	7.66	0.31	0.00	0.00	0.00	0.00	14.80	
19	0.00	0.00	0.00	0.24	4.61	0.42	5.26	0.31	0.00	0.00	0.00	0.00	10.84	
20	0.00	0.00	0.00	0.09	4.33	2.50	4.61	0.31	0.00	0.00	0.00	0.00	11.84	
21	0.00	0.00	0.00	0.09	4.05	2.69	4.33	0.31	0.00	0.00	0.00	0.00	11.47	
22	0.00	0.00	0.00	0.00	3.51	6.74	8.54	0.31	0.00	0.00	0.00	0.00	19.11	
23	0.00	0.00	0.00	0.09	2.94	2.50	7.20	0.31	0.00	0.00	0.00	0.00	13.04	
24	0.00	0.00	0.00	0.09	2.50	10.38	4.96	0.24	0.00	0.00	0.00	0.00	18.17	
25	0.00	0.00	0.00	0.09	2.08	15.26	2.69	0.24	0.00	0.00	0.00	0.00	20.36	
26	0.00	0.00	0.00	0.04	1.90	7.20	2.26	0.15	0.00	0.00	0.00	0.00	11.55	
27	0.00	0.00	0.00	0.04	1.90	4.33	18.63	0.15	0.00	0.00	0.00	0.00	25.04	
28	0.00	0.00	0.00	0.00	1.73	2.94	19.32	0.09	0.00	0.00	0.00	0.00	24.08	
29	0.00	0.00	0.00	0.00	1.52	8.06	20.74	0.09	0.00	0.00		0.00	30.41	
30	0.00	0.00	0.00	0.00	2.69	10.38	12.48	0.04	0.00	0.00		0.00	25.60	
31		0.00		0.00	1.90		9.38		0.00	0.00		0.00	11.28	
Total	0.00	0.00	0.00	11.05	258.66	97.59	307.33	49.43	0.08	0.00	0.00	0.00	724.15	Tonday
Mean	0.00	0.00	0.00	0.36	8.34	3.25	9.91	1.65	0.00	0.00	0.00	0.00	23.52	Ton/day
Max	0.00	0.00	0.00	3.51	66.10	15.26	35.75	7.20	0.04	0.00	0.00	0.00	66.10	Ton/day
Min	0.00	0.00	0.00	0.00	0.04	0.24	2.26	0.04	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Lin Thin , Kanchanaburi (K.54)

Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

Location : on right bank at the bridge on road.

Ban Lin Thin **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	4,774 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.8077
Remarks	Continued Sediment Station

$$QS = 0.0003\ QW^{2.68150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	134.72	74.52	130.81	89.35	108.85	123.21	21.00	13.26	39.59	61.34	134.72	229.99	1161.35	
2	123.21	126.97	95.58	33.62	79.28	74.52	15.33	12.05	38.04	76.88	126.97	235.95	1038.40	
3	81.73	164.14	79.28	61.34	108.85	130.81	11.50	10.44	39.59	142.75	159.71	419.39	1409.52	
4	151.08	123.21	130.81	81.73	86.76	105.43	13.93	9.94	41.18	126.97	112.33	168.64	1152.01	
5	86.76	119.51	79.28	134.72	86.76	134.72	18.39	9.45	39.59	108.85	126.97	242.00	1187.01	
6	130.81	119.51	102.08	102.08	84.22	119.51	24.03	9.45	27.31	142.75	155.36	310.33	1327.45	
7	155.36	98.80	76.88	130.81	86.76	81.73	13.93	8.98	27.31	159.71	119.51	224.13	1183.91	
8	138.70	105.43	41.18	72.21	134.72	95.58	11.50	9.45	27.31	126.97	182.61	260.75	1206.42	
9	102.08	126.97	67.73	55.34	79.28	112.33	10.44	8.98	28.47	115.89	130.81	164.14	1002.45	
10	108.85	115.89	67.73	61.34	95.58	142.75	10.44	8.53	27.31	159.71	112.33	302.78	1213.24	
11	134.72	95.58	39.59	98.80	89.35	61.34	9.45	8.53	27.31	134.72	138.70	235.95	1074.04	
12	182.61	86.76	69.95	108.85	69.95	115.89	9.94	8.53	28.47	151.08	102.08	254.40	1188.50	
13	84.22	134.72	79.28	51.55	123.21	105.43	11.50	8.08	27.31	142.75	123.21	224.13	1115.38	
14	86.76	105.43	108.85	63.42	182.61	98.80	11.50	65.55	28.47	119.51	187.43	288.03	1346.36	
15	119.51	112.33	123.21	72.21	187.43	112.33	10.44	28.47	26.19	134.72	112.33	295.35	1334.51	
16	123.21	108.85	81.73	41.18	341.71	98.80	13.93	42.81	26.19	130.81	159.71	349.85	1518.76	
17	112.33	102.08	138.70	63.42	341.71	105.43	25.09	49.72	27.31	155.36	168.64	288.03	1577.83	
18	168.64	72.21	108.85	61.34	218.36	86.76	46.18	39.59	27.31	119.51	155.36	273.74	1377.85	
19	74.52	92.44	84.22	61.34	202.34	126.97	41.18	42.81	27.31	182.61	155.36	273.74	1364.84	
20	119.51	207.47	151.08	59.29	182.61	105.43	38.04	44.47	29.65	126.97	173.22	341.71	1579.47	
21	126.97	57.29	112.33	61.34	212.68	123.21	42.81	46.18	27.31	134.72	89.35	254.40	1288.60	
22	115.89	74.52	98.80	63.42	187.43	142.75	41.18	44.47	26.19	130.81	164.14	419.39	1508.98	
23	98.80	130.81	92.44	69.95	98.80	61.34	36.53	41.18	26.19	115.89	138.70	224.13	1134.74	
24	86.76	123.21	84.22	61.34	105.43	38.04	35.06	44.47	26.19	164.14	207.47	267.19	1243.52	
25	138.70	112.33	67.73	74.52	98.80	16.81	35.06	42.81	27.31	151.08	134.72	318.00	1217.87	
26	123.21	95.58	49.72	92.44	108.85	18.39	33.62	39.59	30.86	142.75	197.29	288.03	1220.33	
27	95.58	119.51	69.95	98.80	69.95	16.81	55.34	38.04	72.21	123.21	288.03	302.78	1350.21	
28	98.80	84.22	63.42	67.73	92.44	12.05	59.29	41.18	76.88	138.70	280.83	318.00	1333.53	
29	177.88	89.35	51.55	115.89	108.85	10.96	57.29	39.59	112.33	95.58		310.33	1169.61	
30	95.58	138.70	72.21	89.35	112.33	16.06	55.34	38.04	69.95	254.40		333.69	1275.66	
31		84.22		69.95	86.76		15.33		115.89	67.73		392.38	832.26	
Total	3577.50	3402.57	2619.17	2368.65	4172.65	2594.18	834.58	854.66	1222.51	4138.86	4337.88	8811.37	38934.59	Tonday
Mean	119.25	109.76	87.31	76.41	134.60	86.47	26.92	28.49	39.44	133.51	154.92	284.24	1281.32	Ton/day
Max	182.61	207.47	151.08	134.72	341.71	142.75	59.29	65.55	115.89	254.40	288.03	419.39	419.39	Ton/day
Min	74.52	57.29	39.59	33.62	69.95	10.96	9.45	8.08	26.19	61.34	89.35	164.14	8.08	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

Ban Kui Mang **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge Area	128 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2002 - 2016
Number of observation	372
R-Square	0.8101
Remarks	Continued Sediment Station

$$QS = 3.8524\ QW^{1.39140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.00	0.02	0.00	0.08	1.98	46.72	6.96	0.79	0.28	0.08	0.02	56.95	
2	0.04	0.00	0.02	0.00	0.11	1.98	9.07	4.74	0.79	0.28	0.08	0.02	17.12	
3	0.04	0.00	0.02	0.00	0.11	2.16	7.80	4.40	0.79	0.28	0.08	0.02	15.69	
4	0.04	0.00	0.02	0.00	0.11	4.07	30.65	4.40	0.79	0.28	0.08	0.02	40.45	
5	0.04	0.00	0.02	0.00	0.41	3.43	15.98	4.07	0.79	0.28	0.04	0.02	25.07	
6	0.02	0.00	0.02	0.16	0.41	2.63	12.35	3.75	0.79	0.20	0.04	0.02	20.38	
7	0.02	0.00	0.02	0.02	0.41	2.39	9.07	3.43	0.72	0.20	0.04	0.02	16.33	
8	0.02	0.00	0.00	0.02	0.35	2.16	7.80	3.43	0.72	0.20	0.04	0.02	14.76	
9	0.02	0.00	0.00	0.04	0.35	1.98	6.15	3.12	0.72	0.20	0.04	0.02	12.65	
10	0.02	0.00	0.00	0.08	0.41	1.81	7.80	3.12	0.72	0.20	0.04	0.02	14.21	
11	0.00	0.00	0.00	0.04	0.50	1.59	6.15	2.82	0.62	0.28	0.04	0.02	12.07	
12	0.00	0.00	0.00	0.02	0.50	1.59	6.15	2.39	0.62	0.28	0.04	0.02	11.61	
13	0.00	0.00	0.00	0.02	0.56	1.59	10.04	2.16	0.62	0.28	0.04	0.02	15.32	
14	0.00	0.00	0.00	0.02	0.56	2.82	7.80	1.98	0.56	0.28	0.04	0.02	14.07	
15	0.00	0.00	0.00	0.02	0.72	2.16	15.34	1.81	0.56	0.28	0.04	0.02	20.94	
16	0.00	0.00	0.00	0.02	3.12	1.59	31.52	1.59	0.50	0.20	0.04	0.00	38.59	
17	0.00	0.04	0.00	0.02	4.07	1.59	12.35	1.59	0.50	0.20	0.02	0.00	20.38	
18	0.00	0.04	0.02	0.02	3.75	1.43	6.96	1.59	0.50	0.20	0.02	0.00	14.52	
19	0.00	0.04	0.02	0.02	3.75	1.59	5.43	1.43	0.41	0.16	0.02	0.00	12.86	
20	0.00	0.04	0.35	0.02	3.43	10.46	5.08	1.43	0.41	0.16	0.02	0.00	21.40	
21	0.00	0.04	0.08	0.04	3.12	8.19	31.52	1.43	0.41	0.16	0.02	0.00	45.01	
22	0.00	0.04	0.04	0.04	2.39	3.75	7.41	1.43	0.41	0.16	0.02	0.00	15.69	
23	0.00	0.04	0.02	0.04	2.16	3.75	6.52	1.43	0.35	0.11	0.02	0.00	14.45	
24	0.00	0.04	0.00	0.04	1.98	2.82	5.08	1.23	0.35	0.11	0.02	0.00	11.69	
25	0.00	0.04	0.00	0.04	1.59	6.52	4.40	1.23	0.35	0.11	0.02	0.00	14.32	
26	0.02	0.04	0.00	0.04	1.43	6.96	4.07	1.08	0.35	0.11	0.02	0.00	14.12	
27	0.02	0.04	0.00	0.04	1.23	12.35	32.40	1.08	0.28	0.08	0.02	0.00	47.53	
28	0.02	0.04	0.00	0.04	0.89	6.96	25.05	1.08	0.28	0.08	0.02	0.00	34.45	
29	0.02	0.04	0.00	0.08	0.62	8.19	12.80	0.89	0.28	0.08		0.00	23.00	
30	0.02	0.02	0.00	0.08	0.62	131.00	8.66	0.89	0.28	0.08		0.00	141.64	
31		0.02		0.08	1.08		6.15		0.28	0.08		0.00	7.67	
Total	0.39	0.60	0.64	1.08	40.85	241.51	404.27	71.97	16.54	5.83	1.03	0.25	784.97	Tonday
Mean	0.01	0.02	0.02	0.03	1.32	8.05	13.04	2.40	0.53	0.19	0.04	0.01	25.66	Ton/day
Max	0.04	0.04	0.35	0.16	4.07	131.00	46.72	6.96	0.79	0.28	0.08	0.02	131.00	Ton/day
Min	0.00	0.00	0.00	0.00	0.08	1.43	4.07	0.89	0.28	0.08	0.02	0.00	0.00	Ton/day

WATER YEAR : 2016

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

Location : on left bank at Ban Nong Phai.

Ban Nong Phai **Amphoe** Dan Makham Tia **Changwat** Kanchanaburi

Drainge Area	1,725 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2016
Number of observation	25
R-Square	0.9621
Remarks	Continued Sediment Station

$$QS = 1.5881\ QW^{1.49870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.81	1.83	5.90	0.21	100.33	4027.08	68.37	13.16	7.04	0.20	4224.92	
2	0.00	0.00	0.60	1.59	4.49	0.19	100.33	3524.43	59.02	13.16	7.04	0.09	3710.92	
3	0.00	0.00	0.50	1.59	3.52	0.21	75.05	2895.69	51.58	11.74	6.65	0.26	3046.78	
4	0.00	0.00	0.40	1.45	2.63	0.21	89.19	2200.26	47.10	12.21	6.65	0.33	2360.43	
5	0.00	0.00	0.60	1.45	1.59	0.19	125.89	1469.20	44.91	12.21	6.27	0.33	1662.63	
6	0.00	0.00	2.35	1.31	1.18	0.16	180.18	998.18	41.69	12.21	6.27	0.40	1243.94	
7	0.00	0.00	3.83	1.45	1.05	0.14	136.22	771.14	38.56	12.21	5.53	0.40	970.54	
8	0.00	0.00	2.09	2.35	0.81	0.14	133.61	676.27	39.59	12.68	4.83	0.40	872.79	
9	0.00	0.00	1.18	3.83	0.70	0.10	125.89	532.05	35.50	15.13	5.18	0.33	719.90	
10	0.00	0.00	0.70	4.83	0.37	0.08	92.86	444.68	32.53	24.16	5.53	0.33	606.08	
11	0.00	0.00	0.40	4.16	0.29	0.05	68.70	419.78	29.65	40.64	4.49	0.26	568.41	
12	0.00	0.00	0.37	4.16	0.26	0.04	58.94	359.07	27.78	39.59	4.16	0.26	494.63	
13	0.00	0.00	0.34	6.27	0.21	0.02	39.80	312.02	25.05	31.56	4.83	0.48	420.60	
14	0.00	0.00	0.32	7.04	0.19	0.02	31.50	295.62	24.16	25.05	4.83	0.40	389.13	
15	0.00	0.00	0.29	5.53	0.16	0.01	26.62	244.38	22.42	21.56	3.52	0.93	325.43	
16	0.00	0.00	0.32	4.16	0.14	0.01	31.50	215.97	23.29	18.25	3.21	1.59	298.43	
17	0.00	0.16	0.37	2.92	0.16	0.00	48.58	191.32	26.86	15.74	2.63	1.14	289.88	
18	0.00	0.12	0.32	3.21	0.16	0.00	80.26	171.97	30.60	16.36	2.35	0.74	306.09	
19	0.00	0.01	0.26	4.49	0.14	0.00	85.58	143.94	27.78	15.74	2.09	4.16	284.19	
20	0.00	0.00	0.24	5.18	0.12	0.00	60.13	129.48	25.05	14.13	1.36	7.83	243.52	
21	0.00	0.00	0.19	9.94	0.14	0.00	63.76	131.85	22.42	14.13	2.09	7.43	251.95	
22	0.00	0.50	0.16	16.15	0.19	341.44	56.19	122.44	20.89	12.68	1.36	5.90	577.88	
23	0.00	2.92	11.74	12.21	0.16	291.56	38.83	106.05	20.22	11.74	1.59	5.90	502.93	
24	0.00	1.83	21.28	9.08	0.12	651.44	29.02	99.19	18.90	11.28	1.83	5.53	849.52	
25	0.00	1.31	11.28	7.83	0.10	1571.53	24.28	127.11	17.61	10.83	1.36	5.53	1778.79	
26	0.00	1.18	7.04	20.55	0.07	428.33	38.83	108.37	16.98	10.38	0.56	4.83	637.12	
27	0.00	1.59	5.18	25.05	0.07	212.68	555.28	148.87	16.36	9.51	0.33	21.56	996.47	
28	0.00	1.05	4.49	22.02	0.10	144.15	658.50	117.82	15.74	9.94	0.26	20.22	994.29	
29	0.00	0.81	3.52	21.28	0.24	138.85	734.35	91.39	14.63	9.51		15.74	1030.30	
30	0.00	0.81	2.63	10.83	0.24	123.85	2385.07	77.03	13.64	8.66		11.28	2634.05	
31		0.93		7.83	0.24		3336.06		13.16	8.24		9.94	3376.40	
Total	0.00	13.23	83.79	231.55	25.75	3905.64	9611.34	21152.64	912.05	494.41	103.81	134.73	36668.93	Tonday
Mean	0.00	0.43	2.79	7.47	0.83	130.19	310.04	705.09	29.42	15.95	3.71	4.35	1210.26	Ton/day
Max	0.00	2.92	21.28	25.05	5.90	1571.53	3336.06	4027.08	68.37	40.64	7.04	21.56	4027.08	Ton/day
Min	0.00	0.00	0.16	1.31	0.07	0.00	24.28	77.03	13.16	8.24	0.26	0.09	0.00	Ton/day

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan , Sa Kaeo (Kgt.9)

Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

Ban Khao Chakan **Amphoe** Khao Chakan **Changwat** Sa Kaeo

Drainge Area	2,264 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	19
R-Square	0.9262
Remarks	Continued Sediment Station

$$QS = 0.3460\ QW^{1.82480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.84	1.84	1.12	6.76	184.34	121.25	664.53	365.49	1.98	5.38	3.06	2.12	1359.70	
2	1.98	1.58	1.12	43.83	167.45	91.07	867.32	523.84	1.58	5.38	2.57	2.12	1709.85	
3	1.98	1.58	1.12	9.10	121.25	91.07	1344.63	349.49	2.26	5.38	3.06	2.12	1933.04	
4	2.57	1.46	1.12	15.38	128.48	75.28	3323.12	223.80	2.57	6.06	2.57	2.12	3784.53	
5	2.26	1.46	1.12	39.97	562.49	60.87	9780.71	108.20	8.29	6.06	2.57	2.12	10576.11	
6	2.12	1.46	1.12	365.49	1344.63	43.83	4815.16	70.33	4.75	6.06	2.41	2.12	6659.47	
7	2.12	1.46	1.23	797.02	1015.94	26.15	1586.63	65.52	11.44	6.06	4.15	1.84	3519.54	
8	1.98	1.58	1.12	1945.51	1120.87	23.11	643.51	43.83	19.85	6.06	4.15	1.23	3812.79	
9	1.98	1.46	1.12	664.53	707.48	23.11	349.49	114.21	11.44	6.06	3.06	1.46	1885.38	
10	1.98	1.34	1.23	135.90	450.29	23.11	1041.73	167.45	9.10	6.06	3.06	2.12	1843.37	
11	1.98	1.34	1.23	36.27	450.29	21.45	685.85	415.41	12.69	5.38	2.57	2.12	1636.59	
12	1.98	1.34	1.12	167.45	1315.66	19.85	582.29	432.69	15.38	5.38	2.57	1.98	2547.69	
13	1.84	1.71	1.12	318.47	729.41	21.45	990.43	223.80	19.85	5.38	2.57	1.84	2317.89	
14	1.84	1.58	1.12	1618.15	291.40	29.36	1749.99	128.48	9.10	6.06	2.57	1.58	3841.22	
15	1.98	1.46	1.23	820.16	193.05	32.73	415.41	75.28	12.69	6.06	2.57	1.98	1564.59	
16	1.84	1.34	1.34	774.18	143.51	26.15	213.33	56.37	11.44	6.06	2.57	2.41	1240.54	
17	1.84	1.58	1.23	213.33	159.29	32.73	797.02	60.87	8.29	6.06	2.57	2.12	1286.91	
18	1.84	1.71	1.12	47.85	128.48	96.63	1403.43	43.83	11.44	5.38	2.57	1.84	1746.12	
19	1.71	1.58	1.12	36.27	128.48	143.51	333.82	47.85	7.51	4.75	2.57	2.12	711.27	
20	1.84	1.71	1.23	70.33	85.66	643.51	135.90	39.97	2.57	4.15	2.57	2.12	991.54	
21	1.98	2.12	1.84	121.25	75.28	1258.57	96.63	80.40	10.24	3.58	2.57	2.12	1656.57	
22	1.58	1.98	1.46	70.33	70.33	159.29	91.07	121.25	8.29	3.06	2.57	1.84	533.03	
23	1.84	1.46	1.34	32.73	60.87	223.80	65.52	70.33	15.38	2.57	2.57	1.58	479.99	
24	1.84	1.12	1.34	29.36	80.40	1524.44	60.87	39.97	10.24	2.41	2.41	2.26	1756.65	
25	1.84	1.23	1.23	29.36	333.82	1773.92	85.66	21.45	8.29	2.12	2.26	2.57	2263.74	
26	1.84	1.34	1.34	19.85	365.49	602.38	159.29	14.01	8.29	2.12	2.12	2.57	1180.63	
27	1.84	1.46	1.71	29.36	291.40	486.44	102.34	6.76	5.38	2.12	2.12	2.57	933.51	
28	1.71	1.58	2.26	36.27	184.34	1829.81	128.48	7.51	5.38	2.57	2.12	2.57	2204.60	
29	1.84	1.23	1.84	65.52	135.90	2134.00	121.25	4.75	6.06	4.75		2.57	2479.69	
30	1.84	1.23	1.58	85.66	121.25	1649.94	135.90	3.06	5.38	4.75		2.57	2013.15	
31		1.23		75.28	114.21		256.60		4.75	4.15		2.57	458.77	
Total	57.66	46.53	39.15	8720.89	11261.72	13288.83	33027.90	3926.20	271.87	147.39	75.07	65.27	70928.47	Tonday
Mean	1.92	1.50	1.30	281.32	363.28	442.96	1065.42	130.87	8.77	4.75	2.68	2.11	2306.89	Ton/day
Max	2.57	2.12	2.26	1945.51	1344.63	2134.00	9780.71	523.84	19.85	6.06	4.15	2.57	9780.71	Ton/day
Min	1.58	1.12	1.12	6.76	60.87	19.85	60.87	3.06	1.58	2.12	2.12	1.23	1.12	Ton/day

WATER YEAR : 2016

PPRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng , Sa Kaeo (Kgt.12)

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

Ban Kaeng **Amphoe** Mueang **Changwat** Sa Kaeo

Drainge Area	1,478 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.7905
Remarks	Continued Sediment Station

$$QS = 2.7665\ QW^{1.18160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.01	0.01	0.56	10.53	56.00	126.91	59.91	4.47	0.00	0.00	0.00	258.47	
2	0.04	0.00	0.01	0.83	11.75	57.30	117.08	74.59	3.60	0.00	0.00	0.00	265.20	
3	0.04	0.00	0.06	1.16	9.93	66.52	119.41	96.46	3.10	0.00	0.00	0.00	296.69	
4	0.03	0.00	0.04	1.82	7.40	67.86	114.76	107.84	2.44	0.00	0.00	0.00	302.19	
5	0.03	0.00	0.03	1.66	6.09	54.71	127.03	103.26	3.43	0.00	0.00	0.00	296.24	
6	0.01	0.00	0.03	1.05	6.09	38.33	146.67	80.87	5.18	0.00	0.00	0.00	278.22	
7	0.00	0.00	0.01	2.44	12.98	26.88	211.45	62.55	5.36	0.00	0.00	0.00	321.67	
8	0.00	0.00	0.00	14.87	15.50	22.76	255.06	98.72	3.94	0.00	0.00	0.00	410.85	
9	0.00	0.00	0.00	22.08	18.09	20.07	229.71	125.44	2.77	0.00	0.00	0.00	418.16	
10	0.00	0.00	0.00	20.74	17.44	18.09	230.68	125.44	1.97	0.00	0.00	0.00	414.35	
11	0.00	0.00	0.00	21.41	16.14	16.79	276.16	119.41	1.51	0.00	0.00	0.00	451.42	
12	0.00	0.00	0.00	20.74	16.14	19.41	289.47	77.31	1.13	0.00	0.00	0.00	424.20	
13	0.00	0.00	0.00	24.12	17.44	34.68	247.22	57.30	0.96	0.00	0.12	0.00	381.85	
14	0.00	0.00	0.00	26.18	16.79	66.52	179.07	43.27	0.91	0.00	0.04	0.00	332.80	
15	0.00	0.00	0.00	26.18	16.14	78.67	138.88	35.89	0.85	0.00	0.00	0.00	296.63	
16	0.00	0.00	0.00	22.08	15.50	100.99	125.85	29.92	0.80	0.00	0.00	0.00	295.14	
17	0.00	0.00	0.00	18.75	14.23	96.46	89.72	25.49	0.91	0.00	0.00	0.00	245.56	
18	0.00	0.00	0.00	15.50	17.44	121.75	63.87	22.08	1.16	0.00	0.00	0.00	241.80	
19	0.00	0.04	0.00	12.98	18.09	126.62	52.13	20.07	1.22	0.00	0.00	0.00	231.15	
20	0.00	0.27	0.00	10.53	18.09	129.09	40.79	17.44	1.02	0.00	0.00	0.00	217.23	
21	0.00	0.41	0.18	7.02	17.44	129.86	32.29	16.14	0.77	0.00	0.04	0.00	204.16	
22	0.00	0.46	0.34	5.00	15.50	134.12	26.88	15.50	0.67	0.00	0.34	0.00	198.82	
23	0.00	0.44	0.44	3.94	12.98	128.38	24.80	14.87	0.61	0.00	0.49	0.03	186.98	
24	0.00	0.36	0.51	3.26	22.76	126.73	22.76	14.23	0.61	0.00	0.46	0.08	191.78	
25	0.00	0.29	0.61	1.97	42.03	126.62	25.49	12.36	0.59	0.00	0.20	0.10	210.27	
26	0.01	0.20	0.64	1.19	69.20	127.32	33.48	10.53	0.49	0.00	0.00	0.10	243.17	
27	0.08	0.14	0.69	1.02	83.07	130.27	37.11	7.78	0.00	0.00	0.00	0.10	260.26	
28	0.10	0.08	0.67	1.08	62.55	130.27	31.10	7.02	0.00	0.00	0.00	0.12	232.98	
29	0.08	0.04	0.61	3.26	45.78	129.09	27.57	6.28	0.00	0.00		0.29	213.01	
30	0.04	0.04	0.51	9.34	49.57	130.86	29.92	5.36	0.00	0.00		0.56	226.21	
31		0.03		10.53	58.61		39.56		0.00	0.00		0.77	109.49	
Total	0.53	2.84	5.41	313.30	761.30	2513.02	3512.88	1493.34	50.49	0.00	1.70	2.16	8656.97	Tonday
Mean	0.02	0.09	0.18	10.11	24.56	83.77	113.32	49.78	1.63	0.00	0.06	0.07	283.58	Ton/day
Max	0.10	0.46	0.69	26.18	83.07	134.12	289.47	125.44	5.36	0.00	0.49	0.77	289.47	Ton/day
Min	0.00	0.00	0.00	0.56	6.09	16.79	22.76	5.36	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

Ban Non Suk Phum **Amphoe** Kabin Buri **Changwat** Prachin Buri

Drainge Area	4,906 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	17
R-Square	0.8252
Remarks	Continued Sediment Station

$$QS = 0.7960\ QW^{1.52520}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.10	6.10	3.83	16.85	264.48	320.11	2179.01	403.92	42.64	18.98	16.16	9.55	3287.72	
2	6.10	6.10	7.10	25.26	210.55	413.29	1460.21	642.14	39.80	18.62	16.16	8.71	2854.05	
3	6.10	6.10	10.72	119.98	172.47	297.42	1012.40	881.03	36.13	18.26	15.82	7.89	2584.32	
4	6.10	6.10	11.62	131.78	123.06	291.84	637.89	756.09	28.32	18.98	15.82	6.85	2034.45	
5	6.10	6.10	9.84	101.39	101.39	238.06	1807.28	583.49	20.63	18.62	15.48	6.85	2915.24	
6	6.10	6.10	10.72	135.32	182.24	176.36	2873.08	419.58	18.26	20.08	15.48	7.63	3870.94	
7	6.59	6.10	13.18	449.35	774.18	124.79	3441.19	294.62	21.19	21.19	15.15	7.10	5174.65	
8	8.16	6.10	11.02	1134.34	829.34	101.39	3831.23	256.45	36.13	20.63	14.81	7.89	6257.50	
9	7.63	5.38	10.42	1799.46	774.18	87.56	3818.86	349.27	41.68	18.98	15.15	8.43	6937.01	
10	6.10	3.83	7.89	1957.91	680.86	76.78	3397.91	432.25	49.51	19.53	16.16	6.59	6655.32	
11	5.62	4.69	6.10	769.64	583.49	65.38	3301.21	680.86	49.51	18.62	15.82	5.15	5506.10	
12	5.62	6.10	5.15	349.27	413.29	57.79	3173.79	579.38	49.51	18.62	15.15	5.15	4678.80	
13	5.62	6.10	5.15	413.29	633.65	73.29	3695.91	587.62	52.56	18.62	15.15	5.15	5512.09	
14	5.62	6.10	4.25	608.39	637.89	109.23	2179.01	491.43	54.63	18.98	15.15	5.38	4136.04	
15	5.62	6.10	3.42	866.82	322.99	138.89	2030.70	403.92	56.73	18.98	14.81	5.62	3874.59	
16	5.62	6.10	3.42	1438.48	194.20	161.00	1200.10	394.62	63.18	18.62	14.81	5.86	3506.00	
17	5.62	6.10	3.42	1116.63	164.80	188.19	724.78	147.97	64.28	18.26	14.81	5.62	2460.47	
18	5.62	6.10	3.03	774.18	151.66	238.06	1081.50	138.89	64.28	18.26	13.83	6.10	2501.49	
19	5.62	6.10	3.03	278.04	146.14	425.90	1206.14	121.35	64.28	16.85	12.87	6.59	2292.90	
20	5.62	6.10	2.65	180.27	149.81	881.03	738.15	88.79	65.38	17.20	12.55	8.43	2155.98	
21	5.62	6.34	2.65	178.31	147.97	1815.10	349.27	97.55	43.60	16.85	12.24	8.43	2683.93	
22	5.62	9.84	2.20	146.14	111.88	2303.43	261.80	98.83	40.74	15.48	11.93	8.71	3016.59	
23	5.62	14.81	3.42	138.89	85.13	1630.56	227.34	110.55	37.95	15.48	11.62	8.71	2290.09	
24	6.10	13.83	12.24	130.02	91.27	1041.00	188.19	111.88	35.23	13.83	14.15	9.55	1667.28	
25	6.10	10.72	15.82	107.91	253.80	1518.73	182.24	95.02	34.34	8.71	15.48	9.55	2258.41	
26	6.10	8.71	16.16	96.28	587.62	2162.35	198.24	82.71	30.85	7.63	14.81	10.72	3222.18	
27	6.10	6.59	16.16	107.91	783.28	2129.17	305.86	57.79	30.85	7.63	12.24	12.55	3476.13	
28	6.10	5.38	15.82	101.39	633.65	1752.83	331.67	54.63	30.85	9.27	11.62	13.51	2966.72	
29	6.10	4.47	14.48	130.02	518.87	1752.83	251.15	54.63	30.21	10.72		17.55	2791.03	
30	6.10	3.42	15.48	208.48	297.42	2331.82	240.66	53.59	26.47	13.83		21.19	3218.46	
31		2.65		305.86	280.78		256.45		21.19	16.85		21.19	904.99	
Total	180.76	204.33	250.39	14317.89	11302.32	22904.19	46583.21	9470.86	1280.89	513.16	405.26	278.20	107691.46	Tonday
Mean	6.03	6.59	8.35	461.87	364.59	763.47	1502.68	315.70	41.32	16.55	14.47	8.97	3510.59	Ton/day
Max	8.16	14.81	16.16	1957.91	829.34	2331.82	3831.23	881.03	65.38	21.19	16.16	21.19	3831.23	Ton/day
Min	5.62	2.65	2.20	16.85	85.13	57.79	182.24	53.59	18.26	7.63	11.62	5.15	2.20	Ton/day

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

Ban Thung Faek **Amphoe** Na Di **Changwat** Prachin Buri

Drainge Area	354 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2016
Number of observation	14
R-Square	0.8318
Remarks	Continued Sediment Station

$$QS = 5.2710\ QW^{1.39790}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.48	0.93	8.86	19.83	142.94	124.45	1.21	1.07	0.63	0.21	300.63	
2	0.00	0.00	0.37	1.89	6.41	21.35	215.12	72.15	1.12	1.07	0.52	0.18	320.18	
3	0.00	0.00	0.34	2.00	18.34	10.17	124.45	47.23	1.12	1.07	0.52	0.15	205.39	
4	0.00	0.00	0.37	1.62	41.82	5.27	91.44	35.33	1.12	1.07	0.52	0.15	178.71	
5	0.00	0.00	0.34	2.34	106.72	8.44	86.50	26.79	1.12	1.07	0.52	0.15	233.99	
6	0.00	0.00	0.93	14.77	198.37	15.47	276.65	20.58	1.21	1.07	0.56	0.15	529.78	
7	0.00	0.00	0.56	86.50	56.40	166.06	463.75	17.61	1.46	1.07	0.56	0.15	794.12	
8	0.00	0.00	0.76	50.00	27.97	135.46	1428.06	16.89	1.46	1.07	0.56	0.15	1662.39	
9	0.00	0.00	0.52	12.74	16.89	84.05	424.70	19.08	1.46	1.12	0.56	0.13	561.25	
10	0.00	0.00	0.44	6.80	31.59	47.23	158.25	40.50	1.26	1.17	0.52	0.13	287.88	
11	0.00	0.00	0.37	22.90	12.74	40.50	103.26	32.82	1.17	1.17	0.52	0.13	215.57	
12	0.00	0.00	0.37	93.94	6.80	401.75	93.94	19.83	1.21	1.17	0.52	0.13	619.65	
13	0.00	0.00	0.34	88.96	4.20	596.39	65.27	14.77	1.17	1.17	0.44	0.10	772.80	
14	0.00	0.85	0.30	31.59	7.20	1141.24	48.61	10.17	1.17	1.12	0.44	0.10	1242.79	
15	0.00	0.48	0.24	13.41	16.17	471.67	39.19	3.86	1.07	1.07	0.41	0.10	547.67	
16	0.00	0.34	0.21	7.20	81.63	249.74	29.16	2.23	0.89	1.03	0.41	0.10	372.94	
17	0.00	0.24	0.24	8.86	93.94	91.44	31.59	2.06	0.93	0.98	0.41	0.27	230.95	
18	0.00	0.21	0.21	2.58	43.15	86.50	30.37	2.06	1.03	0.93	0.41	0.44	167.89	
19	0.00	0.21	0.24	1.94	43.15	135.46	22.12	11.43	1.07	0.93	0.41	0.37	217.35	
20	0.00	0.24	0.24	1.67	56.40	276.65	19.08	2.52	1.07	0.89	0.37	0.34	359.48	
21	0.00	0.24	0.56	1.41	86.50	1267.43	18.34	2.17	1.07	0.80	0.37	0.30	1379.20	
22	0.00	0.21	0.59	1.21	37.89	329.15	74.49	1.94	1.07	0.93	0.34	0.34	448.18	
23	0.00	0.15	1.21	1.94	26.79	182.01	173.99	1.89	1.07	0.89	0.30	0.30	390.57	
24	0.00	0.15	1.12	2.40	99.84	440.20	69.84	2.34	1.03	0.85	0.27	0.27	618.32	
25	0.00	0.15	0.93	1.57	288.10	2244.31	67.54	2.11	1.07	0.85	0.24	0.34	2607.21	
26	0.00	0.15	1.07	1.21	142.94	409.36	52.11	2.06	1.07	0.80	0.24	0.30	611.34	
27	0.00	0.15	1.41	1.12	63.02	259.74	47.23	8.02	1.07	0.76	0.24	0.34	383.10	
28	0.00	0.24	1.12	1.52	34.07	245.34	36.60	2.06	1.07	0.76	0.24	0.34	323.35	
29	0.00	0.37	0.80	36.60	22.90	103.26	91.44	1.41	1.07	0.68		0.34	258.87	
30	0.00	0.93	0.63	10.80	16.89	96.45	158.25	1.21	1.07	0.63		0.37	287.25	
31		0.76		22.12	13.41		276.65		1.12	0.63		0.37	315.07	
Total	0.00	6.10	17.34	534.56	1711.10	9581.94	4960.93	547.58	35.13	29.89	12.02	7.28	17443.87	Tonday
Mean	0.00	0.20	0.58	17.24	55.20	319.40	160.03	18.25	1.13	0.96	0.43	0.23	573.66	Ton/day
Max	0.00	0.93	1.41	93.94	288.10	2244.31	1428.06	124.45	1.46	1.17	0.63	0.44	2244.31	Ton/day
Min	0.00	0.00	0.21	0.93	4.20	5.27	18.34	1.21	0.89	0.63	0.24	0.10	0.00	Ton/day

WATER YEAR : 2016

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

Ban Tharapha **Amphoe** Mueang **Changwat** Sa Kaeo

Drainge Area	2,558 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	19
R-Square	0.9040
Remarks	Continued Sediment Station

$$QS = 1.0159\ QW^{1.58990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.43	0.49	0.11	20.41	140.42	86.34	1527.16	341.14	1.36	3.69	0.37	0.71	2122.62	
2	0.43	0.45	0.11	61.81	96.63	51.96	871.71	484.83	1.02	3.51	0.39	0.71	1573.56	
3	0.43	0.43	0.11	51.06	69.39	45.18	546.73	494.42	0.76	3.13	0.43	0.68	1212.75	
4	0.43	0.39	0.11	30.80	59.09	42.38	1237.30	366.65	0.51	2.77	0.45	0.68	1741.56	
5	0.39	0.37	0.11	43.02	214.74	24.75	2538.21	212.39	0.49	2.43	0.49	0.64	3038.03	
6	0.39	0.34	0.11	166.92	814.03	10.25	3479.96	121.32	0.94	2.10	0.55	0.60	4597.52	
7	0.39	0.32	0.11	720.59	866.77	3.30	3955.59	73.30	3.13	1.89	0.58	0.58	5626.55	
8	0.43	0.29	0.11	1327.54	801.14	1.79	3177.30	105.99	8.59	1.83	0.64	0.55	5426.20	
9	0.43	0.27	0.08	1823.41	704.06	1.27	1186.95	191.12	8.84	1.89	0.68	0.51	3919.51	
10	0.43	0.24	0.07	1099.39	478.47	0.78	837.32	294.86	9.95	1.94	0.68	0.49	2724.61	
11	0.43	0.22	0.05	289.58	341.14	0.58	1121.05	355.23	13.55	2.25	0.71	0.45	2125.22	
12	0.43	0.22	0.05	217.10	526.89	0.49	758.40	434.87	17.54	2.59	0.76	0.43	1959.74	
13	0.43	0.19	0.05	425.72	832.45	0.49	643.43	381.11	17.91	2.77	0.76	0.37	2305.67	
14	0.45	0.34	0.05	814.03	425.72	0.60	1148.34	284.33	18.24	2.77	0.76	0.29	2695.93	
15	0.45	0.39	0.05	1327.54	195.08	1.15	972.77	214.74	18.95	2.77	0.71	0.19	2734.80	
16	0.45	0.45	0.05	1454.68	103.28	1.94	407.66	149.57	18.95	2.59	0.68	0.11	2140.41	
17	0.45	0.51	0.05	1137.39	68.46	3.90	733.17	105.99	17.17	2.59	0.64	0.15	2070.48	
18	0.45	0.55	0.05	766.88	52.80	8.84	1276.99	97.95	15.50	2.59	0.60	0.24	2223.43	
19	0.45	0.60	0.06	431.81	40.46	90.15	1341.45	91.43	13.89	2.43	0.58	0.34	2013.64	
20	0.45	0.64	0.13	203.09	31.96	704.06	741.55	87.60	12.63	2.43	0.55	0.45	1785.53	
21	0.45	0.68	0.34	122.75	23.18	1313.68	258.65	80.38	10.83	1.83	0.55	0.55	1813.88	
22	0.45	0.71	0.43	233.88	16.85	1220.43	134.43	77.29	9.39	1.45	0.60	0.49	1696.40	
23	0.45	0.60	0.51	110.09	16.53	1083.25	87.60	64.65	8.06	0.98	0.71	0.37	1373.82	
24	0.45	0.51	0.55	154.23	46.85	936.93	37.34	44.33	6.78	0.55	0.71	0.29	1229.52	
25	0.45	0.43	0.51	97.95	157.37	837.32	9.13	29.66	6.55	0.39	0.76	0.29	1140.81	
26	0.49	0.34	0.45	54.56	327.27	741.55	10.25	18.95	6.30	0.39	0.76	0.29	1161.59	
27	0.49	0.27	0.34	26.35	372.41	687.67	16.53	10.25	5.58	0.39	0.71	0.37	1121.35	
28	0.49	0.19	0.29	14.49	248.63	942.02	25.28	3.90	4.50	0.37	0.71	0.39	1241.26	
29	0.49	0.13	0.45	40.46	162.12	1744.64	48.53	1.79	3.90	0.37		0.45	2003.33	
30	0.49	0.11	0.83	197.13	115.66	2205.39	86.34	1.54	3.69	0.34		0.58	2612.08	
31		0.11		203.09	80.38		165.31		3.69	0.34		0.64	453.56	
Total	13.30	11.77	6.31	13667.75	8430.21	12793.08	29382.42	5221.58	269.18	58.37	17.53	13.87	69885.36	Tonday
Mean	0.44	0.38	0.21	440.90	271.94	426.44	947.82	174.05	8.68	1.88	0.63	0.45	2273.82	Ton/day
Max	0.49	0.71	0.83	1823.41	866.77	2205.39	3955.59	494.42	18.95	3.69	0.76	0.71	3955.59	Ton/day
Min	0.39	0.11	0.05	14.49	16.53	0.49	9.13	1.54	0.49	0.34	0.37	0.11	0.05	Ton/day

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

Ban Pa Kha **Amphoe** Ban Na **Changwat** Nakhon Nayok

Drainge Area	203 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.9018
Remarks	Continued Sediment Station

$$QS = 2.6105\ QW^{1.23300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.94	0.87	0.21	1.22	15.05	55.38	63.04	10.62	2.48	0.00	0.00	0.00	151.80	
2	2.80	0.84	0.23	13.98	12.41	49.14	49.76	7.68	2.36	0.00	0.00	0.00	139.20	
3	2.55	0.84	0.25	15.86	9.62	29.47	40.66	6.14	2.17	0.00	0.00	0.00	107.55	
4	2.55	0.82	0.29	13.19	7.68	18.90	59.18	4.84	2.04	0.00	0.00	0.00	109.49	
5	2.48	0.82	0.36	12.41	5.76	13.19	44.25	3.61	1.98	0.00	0.00	0.00	84.86	
6	2.36	0.77	0.50	13.98	5.57	10.62	80.98	3.44	1.92	0.00	0.00	0.00	120.13	
7	2.23	0.77	0.50	23.88	5.02	11.63	114.32	3.27	1.86	0.00	0.00	0.00	163.47	
8	2.23	0.74	0.47	19.27	4.30	14.25	70.70	5.20	2.48	0.00	0.00	0.00	119.65	
9	2.23	0.72	0.43	15.32	3.44	12.15	49.14	16.68	0.00	0.00	0.00	0.00	100.09	
10	2.11	0.69	0.43	14.78	6.33	16.68	52.24	25.85	0.00	0.00	0.00	0.00	119.09	
11	2.04	0.67	0.43	12.41	21.55	22.71	44.25	19.27	0.00	0.00	0.00	0.00	123.33	
12	1.98	0.59	0.47	9.13	29.47	16.40	32.76	11.89	0.00	0.00	0.00	0.00	102.69	
13	1.98	0.52	0.45	13.45	38.88	12.67	25.45	8.64	0.00	0.00	0.00	0.00	102.04	
14	1.92	0.50	0.43	43.05	24.27	11.63	19.65	6.75	0.00	0.00	0.00	0.00	108.19	
15	1.92	0.45	0.50	51.00	14.78	11.12	16.13	5.57	0.00	0.00	0.00	0.00	101.47	
16	1.86	0.43	0.57	32.76	10.87	9.37	13.45	4.48	0.00	0.00	0.00	0.00	73.79	
17	1.80	0.40	0.59	20.41	8.64	9.87	12.67	3.44	0.00	0.00	0.00	0.00	57.81	
18	1.56	0.38	0.67	12.93	8.40	46.69	12.41	2.87	0.00	0.00	0.00	0.00	85.90	
19	1.56	0.36	0.59	11.89	7.45	74.62	11.63	2.61	0.00	0.00	0.00	0.00	110.72	
20	1.45	0.36	0.57	10.12	6.52	42.45	10.12	2.68	0.00	0.00	0.00	0.00	74.25	
21	1.33	0.38	0.67	11.38	5.57	85.00	9.87	3.61	0.00	0.00	0.00	0.00	117.81	
22	1.28	0.36	0.64	11.63	3.95	131.92	9.13	3.78	0.00	0.00	0.00	0.00	162.69	
23	1.17	0.34	0.69	10.12	3.27	80.98	7.92	2.94	0.00	0.00	0.00	0.00	107.42	
24	1.11	0.36	0.69	10.12	2.48	66.29	6.98	2.68	0.00	0.00	0.00	0.00	90.70	
25	1.06	0.34	0.67	8.64	4.48	46.08	5.95	4.66	0.00	0.00	0.00	0.00	71.86	
26	1.00	0.32	0.64	5.57	11.89	31.93	5.57	8.64	0.00	0.00	0.00	0.00	65.56	
27	0.95	0.29	0.64	9.87	9.62	35.69	6.52	5.95	0.00	0.00	0.00	0.00	69.52	
28	0.92	0.29	0.59	34.01	9.13	54.12	6.75	4.13	0.00	0.00	0.00	0.00	109.93	
29	0.92	0.27	0.57	43.65	21.17	71.48	10.12	2.87	0.00	0.00		0.00	151.05	
30	0.92	0.25	0.62	23.88	36.53	52.86	11.38	2.68	0.00	0.00		0.00	129.12	
31		0.23		16.40	55.38		12.41		0.00	0.00		0.00	84.42	
Total	53.22	15.95	15.32	546.27	409.47	1145.27	915.37	197.44	17.30	0.00	0.00	0.00	3315.61	Tonday
Mean	1.77	0.51	0.51	17.62	13.21	38.18	29.53	6.58	0.56	0.00	0.00	0.00	108.47	Ton/day
Max	2.94	0.87	0.69	51.00	55.38	131.92	114.32	25.85	2.48	0.00	0.00	0.00	131.92	Ton/day
Min	0.92	0.23	0.21	1.22	2.48	9.37	5.57	2.61	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

Ban Noen Hom **Amphoe** Mueang **Changwat** Prachin Buri

Drainge Area	128 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1986-Cont'd
Actual Measurement	1986-Cont'd
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.8355
Remarks	Continued Sediment Station

$$QS = 1.3167\ QW^{1.69790}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	71.35	44.96	202.32	82.04	54.92	12.14	0.41	0.00	0.09	468.21	
2	0.00	0.00	0.00	105.22	35.84	85.74	121.97	43.07	11.59	0.28	0.00	0.09	403.80	
3	0.00	0.00	0.00	29.17	27.59	54.92	82.04	32.43	11.59	0.17	0.00	0.09	237.98	
4	0.00	0.00	0.00	8.99	412.19	46.89	254.37	26.04	11.05	0.17	0.00	0.09	759.78	
5	0.00	0.00	0.00	6.67	195.29	35.84	188.36	20.24	11.05	0.17	0.00	0.09	457.71	
6	0.00	0.00	0.00	130.73	117.69	44.96	239.00	18.89	10.52	0.17	0.00	0.09	562.04	
7	0.00	0.00	0.00	37.60	54.92	691.23	121.97	30.78	10.00	0.17	0.00	0.09	946.76	
8	0.00	0.00	0.00	78.40	485.86	328.30	89.50	52.86	9.49	0.17	0.00	0.09	1044.68	
9	0.00	0.00	0.00	35.84	328.30	239.00	54.92	35.84	8.99	0.09	0.00	0.09	703.06	
10	0.00	0.00	0.00	24.54	863.46	117.69	74.84	32.43	8.50	0.09	0.00	0.09	1121.64	
11	0.00	0.00	0.00	311.21	239.00	54.92	54.92	27.59	8.03	0.09	0.00	0.09	695.82	
12	0.00	0.00	0.41	676.63	354.65	168.20	52.86	20.24	7.56	0.09	0.00	0.09	1280.71	
13	0.00	0.00	0.28	136.70	130.73	224.03	50.84	18.89	7.11	0.09	0.00	0.09	568.74	
14	0.00	0.00	0.17	16.29	126.32	195.29	48.85	16.93	6.67	0.09	0.00	0.09	410.69	
15	0.00	0.00	0.17	13.86	105.22	436.19	43.07	15.67	6.24	0.09	0.00	0.09	620.60	
16	0.00	0.00	0.41	19.56	85.74	262.20	35.84	15.67	5.82	0.09	0.00	0.09	425.40	
17	0.00	0.00	54.92	16.93	130.73	982.37	30.78	14.45	5.42	0.03	0.00	0.09	1235.70	
18	0.00	0.00	54.92	15.67	188.36	1527.19	29.17	13.86	5.02	0.03	0.00	0.09	1834.29	
19	0.00	0.00	35.84	14.45	113.47	591.70	27.59	13.86	4.64	0.00	0.00	0.09	801.64	
20	0.00	0.00	17.57	13.86	174.81	537.71	26.04	13.28	4.27	0.00	0.00	0.03	787.57	
21	0.00	0.00	15.67	13.86	54.92	2465.86	26.04	12.70	3.92	0.00	0.00	0.03	2593.00	
22	0.00	0.00	18.22	13.86	54.92	750.93	35.84	12.70	3.57	0.00	0.00	0.03	890.07	
23	0.00	0.00	14.45	13.28	591.70	270.12	806.39	12.14	3.24	0.00	0.00	0.03	1711.36	
24	0.00	0.00	14.45	12.14	126.32	354.65	270.12	12.14	2.92	0.00	0.00	0.03	792.78	
25	0.00	0.00	18.89	12.14	174.81	345.77	254.37	12.14	2.62	0.00	0.00	0.00	820.74	
26	0.00	0.00	20.24	15.67	54.92	113.47	130.73	13.86	2.33	0.00	0.00	0.00	351.22	
27	0.00	0.00	155.28	882.84	54.92	67.92	126.32	13.28	2.06	0.00	0.00	0.00	1302.60	
28	0.00	0.00	32.43	537.71	181.54	54.92	113.47	13.28	1.79	0.00	0.00	0.00	935.14	
29	0.00	0.00	13.86	302.80	109.32	174.81	262.20	12.70	1.55	0.00		0.00	877.23	
30	0.00	0.00	78.40	67.92	126.32	74.84	195.29	12.70	1.32	0.00		0.00	556.80	
31		0.00		54.92	155.28		89.50		1.10	0.00		0.00	300.80	
Total	0.00	0.00	546.57	3690.79	5900.09	11499.99	4019.23	645.58	192.11	2.44	0.00	1.76	26498.57	Tonday
Mean	0.00	0.00	18.22	119.06	190.33	383.33	129.65	21.52	6.20	0.08	0.00	0.06	868.44	Ton/day
Max	0.00	0.00	155.28	882.84	863.46	2465.86	806.39	54.92	12.14	0.41	0.00	0.09	2465.86	Ton/day
Min	0.00	0.00	0.00	6.67	27.59	35.84	26.04	12.14	1.10	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

BANG PAKONG RIVER BASIN

Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

Ban Cha Om **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	126 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1986-Cont'd
Actual Measurement	1986-Cont'd
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.7632
Remarks	Continued Sediment Station

$$QS = 1.9901\ QW^{1.06140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1				8.78	0.95	9.82	19.89	0.65	0.17	0.00	0.00	0.00	40.28	
2				5.37	0.80	4.04	8.09	0.55	0.17	0.00	0.00	0.00	19.04	
3				3.39	0.65	3.06	6.73	0.46	0.17	0.00	0.00	0.00	14.46	
4				2.74	0.55	3.06	6.05	0.36	0.17	0.00	0.00	0.00	12.93	
5				2.58	0.55	2.74	10.87	0.36	0.17	0.00	0.00	0.00	17.27	
6				11.57	0.55	2.74	24.87	0.27	0.17	0.00	0.00	0.00	40.17	
7			1.47	6.39	0.55	2.74	12.27	0.27	0.17	0.00	0.00	0.00	23.85	
8			1.47	5.37	0.55	2.10	7.75	0.46	0.17	0.00	0.00	0.00	17.87	
9			1.47	4.37	0.55	1.47	10.17	0.46	0.17	0.00	0.00	0.00	18.66	
10			1.47	3.71	2.90	1.47	6.73	0.85	0.17	0.00	0.00	0.00	17.30	
11			1.47	2.90	1.94	1.47	4.71	0.55	0.17	0.00	0.00	0.00	13.20	
12			1.47	2.74	8.78	1.36	2.90	0.46	0.17	0.00	0.00	0.00	17.88	
13			1.47	5.71	2.90	1.36	1.94	0.46	0.08	0.00	0.00	0.00	13.92	
14			1.47	8.09	1.31	1.36	1.26	0.36	0.08	0.00	0.00	0.00	13.94	
15			1.47	3.39	1.06	1.16	1.00	0.27	0.08	0.00	0.00	0.00	8.42	
16			1.47	2.26	0.85	0.70	1.00	0.17	0.08	0.00	0.00	0.00	6.54	
17			1.47	1.41	0.75	8.44	1.06	0.17	0.00	0.00	0.00	0.00	13.30	
18			1.47	1.06	0.70	15.70	0.95	0.17	0.00	0.00	0.00	0.00	20.05	
19			1.47	0.80	0.60	7.41	0.95	0.17	0.00	0.00	0.00	0.00	11.41	
20			1.47	1.94	0.95	4.04	0.95	0.17	0.00	0.00	0.00	0.00	9.53	
21			1.47	1.11	0.55	33.76	1.00	0.17	0.00	0.00	0.00	0.00	38.06	
22			1.47	0.90	0.46	16.18	0.95	0.17	0.00	0.00	0.00	0.00	20.13	
23			1.47	0.65	0.46	8.09	0.90	0.17	0.00	0.00	0.00	0.00	11.75	
24			1.47	0.65	0.46	4.71	0.85	0.17	0.00	0.00	0.00	0.00	8.31	
25			1.47	0.55	1.16	2.90	0.85	0.75	0.00	0.00	0.00	0.00	7.68	
26			1.47	0.55	1.16	1.94	0.85	0.65	0.00	0.00	0.00	0.00	6.62	
27			1.47	0.70	1.06	10.52	0.65	0.46	0.00	0.00	0.00	0.00	14.85	
28			1.47	0.85	8.78	18.09	0.55	0.27	0.00	0.00	0.00	0.00	30.01	
29			1.78	0.95	8.78	10.17	0.46	0.17	0.00	0.00		0.00	22.32	
30			1.78	0.95	25.61	8.78	1.00	0.17	0.00	0.00		0.00	38.30	
31				0.95	9.82		0.85		0.00	0.00		0.00	11.63	
Total			35.82	93.40	86.77	191.35	139.09	10.81	2.40	0.00	0.00	0.00	559.65	Tonday
Mean			1.19	3.01	2.80	6.38	4.49	0.36	0.08	0.00	0.00	0.00	18.31	Ton/day
Max			1.78	11.57	25.61	33.76	24.87	0.85	0.17	0.00	0.00	0.00	33.76	Ton/day
Min			0.00	0.55	0.46	0.70	0.46	0.17	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Yai at Ban Si Bua Thong , Trat (Z.10)

Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

Ban Si Bua Thong **Amphoe** Khao Saming **Changwat** Trat

Drainge Area	779 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1978-Cont'd
Actual Measurement	1978-Cont'd
Using Rating Curve Water Year	2016
Number of observation	25
R-Square	0.8474
Remarks	Continued Sediment Station

$$QS = 0.0743\ QW^{1.89400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.07	1.09	13.68	2986.96	134.58	469.51	714.98	93.02	7.44	5.02	1.28	1.50	4432.13	
2	0.38	0.64	10.46	2620.75	112.23	228.00	535.94	73.33	6.97	5.02	1.88	1.50	3597.10	
3	0.00	0.42	8.55	1000.34	460.35	138.98	460.35	65.86	6.83	5.02	1.15	1.35	2149.21	
4	2.13	0.01	7.90	335.95	749.54	113.57	404.37	65.86	6.68	4.28	0.69	1.22	1692.20	
5	0.85	0.60	8.39	182.44	1017.30	97.98	295.31	94.25	6.53	3.81	0.64	1.15	1709.27	
6	0.97	0.64	8.07	219.36	1451.01	217.22	354.50	38.87	6.10	3.49	0.60	1.15	2301.98	
7	1.03	0.69	6.97	904.98	1872.40	196.42	325.56	30.56	5.42	3.07	0.50	1.09	3348.69	
8	0.85	0.69	6.68	532.69	2911.91	273.55	351.83	38.19	5.28	3.59	0.46	1.03	4126.75	
9	0.85	0.69	5.55	328.14	2541.47	457.32	310.26	38.19	5.16	3.49	0.46	0.91	3692.50	
10	0.85	0.69	5.42	280.71	3188.25	317.87	300.26	271.18	5.28	3.49	0.42	0.75	4375.17	
11	0.91	0.60	4.04	1995.38	3110.84	384.61	264.12	91.80	5.16	5.42	0.38	0.75	5864.01	
12	0.97	0.75	3.49	3375.70	1602.22	460.35	230.18	48.86	5.16	8.88	0.25	0.75	5737.55	
13	1.57	1.28	3.27	2865.46	1243.75	379.05	310.26	32.39	5.16	5.42	0.21	0.75	4848.58	
14	2.87	1.42	3.71	3207.75	1358.48	1139.79	149.51	27.04	5.42	5.02	0.16	0.69	5901.86	
15	2.96	1.57	3.71	1595.19	736.49	793.83	90.59	19.34	6.53	5.16	0.16	0.69	3256.22	
16	2.96	1.88	4.77	592.76	1139.79	562.34	157.26	19.34	8.55	4.90	0.16	0.91	2495.61	
17	2.87	1.57	5.69	346.50	1437.62	775.97	174.67	14.26	6.97	4.77	0.16	1.50	2772.53	
18	2.21	3.17	5.42	330.74	1145.79	351.83	204.62	10.64	6.83	4.52	0.16	2.67	2068.59	
19	2.13	1.03	5.55	322.99	1000.34	442.30	236.79	11.20	6.38	4.52	0.16	4.52	2037.92	
20	2.30	0.91	18.66	192.37	613.45	494.33	290.41	13.68	5.97	4.40	0.80	5.16	1642.44	
21	2.04	0.80	401.52	196.42	506.96	867.17	404.37	12.55	5.97	4.16	1.22	6.53	2409.70	
22	1.96	0.64	112.23	134.58	460.35	395.84	494.33	11.77	6.25	3.93	1.15	2.48	1625.52	
23	2.13	4.77	234.58	143.45	401.52	328.14	994.72	11.01	5.42	3.71	1.22	1.88	2132.53	
24	2.57	6.97	857.83	144.95	404.37	285.54	710.72	51.14	5.28	3.71	0.55	1.80	2475.45	
25	2.48	11.20	1169.92	154.14	592.76	280.71	914.55	22.15	5.42	3.59	0.35	2.48	3159.77	
26	1.64	69.01	914.55	93.02	552.37	254.86	469.51	13.11	5.28	3.49	0.55	2.67	2380.07	
27	0.46	38.19	510.15	78.89	398.68	243.49	354.50	10.83	5.28	3.49	1.72	3.93	1649.62	
28	0.03	116.27	697.99	83.48	387.40	252.56	273.55	9.22	5.16	3.38	1.57	2.96	1833.57	
29	0.60	287.97	1879.98	407.23	368.05	966.82	152.59	8.22	5.16	1.50		2.87	4080.98	
30	0.69	134.58	3197.99	535.94	494.33	857.83	120.38	8.07	5.16	1.03		3.27	5359.27	
31		41.61		275.93	393.02		99.24		5.16	0.91		3.93	819.79	
Total	47.35	732.35	10116.72	26465.18	32787.63	13027.78	11150.26	1255.93	183.33	126.17	19.02	64.84	95976.56	Tonday
Mean	1.58	23.62	337.22	853.72	1057.67	434.26	359.69	41.86	5.91	4.07	0.68	2.09	3122.37	Ton/day
Max	3.07	287.97	3197.99	3375.70	3188.25	1139.79	994.72	271.18	8.55	8.88	1.88	6.53	3375.70	Ton/day
Min	0.00	0.01	3.27	78.89	112.23	97.98	90.59	8.07	5.16	0.91	0.16	0.69	0.00	Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

Ban Khao Chik **Amphoe** Klaeng **Changwat** Rayong

Drainge Area	1,236 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2016
Number of observation	11
R-Square	0.8687
Remarks	Continued Sediment Station

$$QS = 0.9598\ QW^{1.69670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.74	6.19	5.51	26.07	34.45	43.76	1125.43	264.82	8.43	4.24	3.66	10.09	1546.38	
2	12.78	5.51	3.11	14.73	22.99	26.07	579.50	119.81	7.65	4.24	4.86	13.74	814.98	
3	7.65	3.66	2.85	22.99	17.85	14.73	416.56	92.31	6.91	4.24	6.19	10.09	606.03	
4	2.60	4.24	2.85	16.78	13.74	11.86	212.35	67.36	14.73	4.24	7.65	9.24	367.65	
5	1.31	3.66	4.86	10.96	12.78	10.09	356.38	53.97	7.65	4.86	6.19	10.09	482.79	
6	1.13	2.36	14.73	15.74	53.97	9.24	473.26	47.74	6.19	4.86	5.51	9.24	643.97	
7	2.60	1.13	26.07	337.18	53.97	7.65	579.50	56.12	5.51	4.86	4.86	8.43	1087.87	
8	5.51	0.80	27.66	409.69	29.30	7.65	437.48	112.81	5.51	4.86	4.86	10.09	1056.21	
9	8.43	4.24	8.43	161.37	20.07	6.91	611.46	58.30	5.51	6.19	4.24	10.09	905.24	
10	4.86	2.85	4.86	87.07	18.94	6.91	288.14	45.73	4.86	7.65	4.24	10.96	487.07	
11	2.60	1.50	6.91	58.30	18.94	8.43	247.87	36.23	4.86	9.24	4.86	8.43	408.18	
12	1.50	1.50	3.66	41.82	15.74	105.98	190.41	24.51	4.86	5.51	5.51	8.43	409.42	
13	0.80	2.60	2.36	27.66	12.78	356.38	169.47	20.07	4.86	4.86	6.91	7.65	616.40	
14	0.30	1.91	3.66	27.66	10.96	270.58	116.29	17.85	4.86	3.66	7.65	6.91	472.27	
15	0.02	1.91	10.09	94.98	10.09	145.68	84.49	18.94	5.51	3.66	8.43	7.65	391.45	
16	0.00	1.31	8.43	60.52	9.24	62.76	67.36	16.78	6.91	3.66	9.24	7.65	253.88	
17	0.00	1.13	6.91	29.30	8.43	38.06	525.27	15.74	10.09	3.66	10.09	7.65	656.33	
18	0.00	1.13	4.24	24.51	8.43	53.97	532.89	11.86	7.65	3.11	10.96	8.43	667.18	
19	1.31	0.80	3.11	49.78	7.65	369.42	119.81	3.66	4.86	3.66	13.74	7.65	585.46	
20	11.86	0.52	3.11	173.58	6.91	253.47	74.51	13.74	4.24	4.24	7.65	6.91	560.73	
21	13.74	0.40	12.78	264.82	6.19	409.69	87.07	43.76	5.51	3.66	8.43	7.65	863.71	
22	8.43	0.40	11.86	105.98	6.19	755.04	190.41	36.23	4.24	2.85	9.24	10.09	1140.97	
23	5.51	0.40	26.07	72.09	6.19	1437.73	87.07	17.85	3.66	2.13	10.09	10.09	1678.87	
24	4.86	0.40	24.51	34.45	6.91	3053.65	149.54	69.71	3.11	1.50	10.09	8.43	3367.15	
25	2.85	0.40	21.51	18.94	12.78	3301.55	330.88	43.76	3.11	0.96	11.86	10.09	3758.69	
26	2.36	0.30	43.76	15.74	15.74	891.87	532.89	22.99	4.86	0.66	10.09	9.24	1550.49	
27	2.85	0.20	49.78	26.07	15.74	330.88	652.40	14.73	4.86	1.13	9.24	13.74	1121.62	
28	3.11	0.12	65.05	65.05	11.86	288.14	306.16	15.74	4.86	1.50	10.09	13.74	785.41	
29	4.24	0.12	20.07	149.54	1090.08	294.10	532.89	17.85	4.86	1.31		10.09	2125.13	
30	3.66	0.12	12.78	60.52	330.88	138.07	1626.12	10.09	4.24	1.13		8.43	2196.05	
31		2.60		56.12	69.71		720.14		4.24	1.91		7.65	862.38	
Total	130.61	54.43	441.55	2560.00	1959.52	12710.32	12423.99	1391.07	179.14	114.20	216.41	288.69	32469.94	Tonday
Mean	4.35	1.76	14.72	82.58	63.21	423.68	400.77	46.37	5.78	3.68	7.73	9.31	1063.94	Ton/day
Max	13.74	6.19	65.05	409.69	1090.08	3301.55	1626.12	264.82	14.73	9.24	13.74	13.74	3301.55	Ton/day
Min	0.00	0.12	2.36	10.96	6.19	6.91	67.36	3.66	3.11	0.66	3.66	6.91	0.00	Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

Ban Puk **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	647 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1978-Cont'd
Actual Measurement	1978-Cont'd
Using Rating Curve Water Year	2016
Number of observation	18
R-Square	0.8097
Remarks	Continued Sediment Station

$$QS = 0.2957\ QW^{1.62130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	12.36	141.65	117.02	224.60	191.51	64.12	7.26	0.91	0.63	0.70	760.76	
2	0.00	0.00	10.05	296.69	85.67	131.58	216.14	55.33	4.83	0.84	0.51	0.45	802.08	
3	0.00	0.10	9.32	216.14	68.70	89.92	168.03	47.04	6.00	0.91	0.40	0.51	607.06	
4	0.00	0.70	13.18	112.32	112.32	68.70	157.27	41.17	6.62	0.91	0.45	0.57	514.20	
5	0.00	0.63	13.18	73.40	77.41	66.40	136.58	35.60	5.11	0.84	0.51	0.57	410.23	
6	0.00	0.70	10.80	71.04	362.95	98.65	151.99	32.06	5.11	0.51	0.45	0.51	734.77	
7	0.00	0.70	10.05	541.48	250.73	73.40	376.21	30.92	4.83	0.30	0.57	0.51	1289.70	
8	0.00	0.63	8.61	296.69	438.13	85.67	633.86	29.79	4.83	0.45	0.70	0.63	1500.00	
9	0.00	0.40	6.62	168.03	354.20	94.24	380.67	33.82	4.83	0.70	0.70	0.57	1044.78	
10	0.00	0.57	6.00	141.65	380.67	71.04	287.26	126.66	4.55	0.70	0.63	0.57	1020.30	
11	0.00	0.70	4.83	250.73	830.86	73.40	157.27	66.40	4.28	0.77	0.57	0.63	1390.44	
12	0.00	0.77	5.40	541.48	345.54	131.58	162.62	41.17	3.76	1.06	0.63	0.57	1234.58	
13	0.00	0.70	4.55	315.89	183.55	131.58	216.14	32.06	3.51	2.36	0.63	0.57	891.55	
14	0.00	0.84	4.28	541.48	199.59	672.36	157.27	28.67	3.51	1.95	0.51	0.57	1611.03	
15	0.00	1.76	4.28	268.76	136.58	596.24	117.02	26.49	4.02	1.95	0.40	0.51	1158.00	
16	0.00	2.15	5.11	183.55	362.95	287.26	85.67	22.33	4.02	1.95	0.45	0.51	955.95	
17	0.00	2.80	10.05	126.66	389.66	241.90	168.03	20.35	3.76	1.76	0.40	0.45	965.82	
18	0.00	2.58	14.01	131.58	287.26	216.14	121.80	18.45	3.27	1.57	0.35	0.40	797.39	
19	0.00	2.58	14.86	287.26	175.73	354.20	112.32	11.57	3.03	1.06	0.51	0.70	963.81	
20	0.00	2.58	14.86	126.66	126.66	1023.59	112.32	8.61	3.03	0.77	0.63	0.77	1420.46	
21	0.00	2.80	59.66	98.65	112.32	711.72	121.80	15.73	2.80	0.63	0.63	0.84	1127.58	
22	0.00	2.80	49.06	121.80	103.13	268.76	216.14	15.73	2.36	0.45	0.63	0.70	781.56	
23	0.00	3.27	51.12	37.42	77.41	421.73	259.69	15.73	2.36	0.45	0.70	0.51	870.39	
24	0.00	2.36	168.03	1.06	66.40	376.21	250.73	14.86	2.36	0.35	1.39	0.45	884.20	
25	0.00	2.36	141.65	0.45	168.03	199.59	191.51	18.45	1.95	0.13	1.39	0.57	726.08	
26	0.00	2.58	112.32	0.00	162.62	136.58	117.02	14.86	1.57	0.00	1.22	0.91	549.67	
27	0.00	3.27	89.92	0.00	89.92	121.80	112.32	12.36	1.06	0.00	1.22	1.76	433.62	
28	0.00	30.92	64.12	0.00	73.40	168.03	146.78	11.57	0.91	0.00	0.91	1.22	497.87	
29	0.00	19.39	53.21	207.80	175.73	438.13	85.67	10.05	0.91	0.00		1.06	991.95	
30	0.00	15.73	71.04	241.90	146.78	259.69	81.50	9.32	0.91	0.00		1.22	828.09	
31		14.86		199.59	157.27		64.12		0.84	0.25		2.58	439.50	
Total	0.00	122.18	1042.51	5741.79	6619.18	7834.71	5757.27	911.26	108.18	24.51	18.75	23.10	28203.42	Tonday
Mean	0.00	3.94	34.75	185.22	213.52	261.16	185.72	30.38	3.49	0.79	0.67	0.75	920.38	Ton/day
Max	0.00	30.92	168.03	541.48	830.86	1023.59	633.86	126.66	7.26	2.36	1.39	2.58	1023.59	Ton/day
Min	0.00	0.00	4.28	0.00	66.40	66.40	64.12	8.61	0.84	0.00	0.35	0.40	0.00	Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

Ban Chaman **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	229 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1978-Cont'd
Actual Measurement	1978-Cont'd
Using Rating Curve Water Year	1994 - 2016
Number of observation	371
R-Square	0.7547
Remarks	Continued Sediment Station

$$QS = 0.9959\ QW^{1.47180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.10	2.76	14.64	260.37	53.60	133.62	136.44	48.94	10.77	2.76	0.72	0.00	671.72	
2	5.02	1.00	12.87	222.89	50.48	73.57	128.01	50.48	9.96	4.06	1.81	0.00	560.14	
3	4.30	0.00	12.44	117.05	153.81	58.40	117.05	41.47	9.56	3.84	1.81	0.00	519.72	
4	5.02	0.00	12.01	56.79	303.33	69.24	109.03	36.49	9.56	3.84	2.17	0.00	607.49	
5	5.02	0.00	12.01	39.31	365.73	81.26	81.26	33.05	9.17	3.61	1.81	0.00	632.23	
6	4.77	0.47	12.01	35.79	541.52	78.87	72.70	30.56	8.41	3.18	1.47	0.00	789.73	
7	4.77	1.47	11.18	106.40	429.08	92.30	68.39	29.99	8.03	3.18	0.47	0.00	755.26	
8	4.77	1.47	9.96	73.57	401.10	113.02	70.96	35.79	8.03	3.84	0.26	0.00	722.76	
9	4.53	0.00	9.17	57.59	221.23	101.20	171.83	91.05	7.66	4.53	0.59	0.00	669.39	
10	4.53	0.00	8.03	67.54	371.58	71.83	110.35	92.30	7.10	4.77	0.85	0.00	738.90	
11	4.53	0.00	6.56	356.04	501.60	86.11	67.54	47.41	6.83	5.77	0.85	0.00	1083.25	
12	4.53	0.00	11.59	340.70	206.48	303.33	63.33	34.41	6.56	5.77	0.85	0.00	977.57	
13	4.77	1.30	8.79	285.18	135.03	130.81	82.46	29.99	6.56	5.27	1.99	0.00	692.14	
14	4.30	0.00	7.66	359.90	102.49	102.49	65.84	27.20	6.56	5.27	7.10	0.00	688.82	
15	4.30	0.00	7.66	129.41	83.67	103.79	55.19	24.49	6.83	5.27	0.00	0.00	420.61	
16	4.77	2.37	7.38	86.11	201.63	103.79	50.48	22.91	6.83	5.52	0.00	0.00	491.79	
17	5.02	5.77	9.56	58.40	234.61	137.87	47.41	21.37	6.29	5.52	0.00	0.00	531.82	
18	4.53	5.27	13.75	53.60	190.48	149.41	40.03	19.86	5.52	5.02	0.00	0.00	487.45	
19	4.77	4.06	14.19	55.19	107.71	195.23	36.49	18.87	5.52	4.06	0.00	0.00	446.10	
20	5.27	3.84	10.36	39.31	88.57	201.63	49.71	16.01	5.27	3.61	0.00	0.00	423.57	
21	7.66	5.77	65.84	34.41	75.32	226.22	80.06	17.42	5.02	3.18	0.00	0.00	520.91	
22	18.38	5.77	27.75	48.17	99.91	109.03	371.58	16.48	4.77	2.76	0.00	0.00	704.62	
23	15.09	10.36	76.20	64.17	71.83	301.50	279.80	16.01	4.77	2.56	0.00	0.00	842.30	
24	5.02	11.18	128.01	38.60	72.70	142.16	107.71	16.95	4.53	2.37	0.00	0.00	529.22	
25	4.30	8.79	133.62	29.99	155.29	92.30	86.11	15.09	4.30	1.63	0.00	0.00	531.41	
26	3.18	9.96	64.17	28.30	77.09	74.44	77.09	12.01	4.06	1.30	0.00	0.00	351.60	
27	0.36	43.67	40.03	28.86	60.85	71.83	75.32	12.87	4.06	1.30	0.00	0.00	339.15	
28	0.59	139.29	37.89	45.90	53.60	102.49	66.69	12.44	3.84	1.30	0.00	0.00	464.04	
29	0.47	39.31	54.39	173.36	65.00	422.03	52.82	11.59	3.39	1.81		0.00	824.17	
30	1.15	23.44	352.18	145.04	76.20	217.92	57.59	11.18	3.18	1.63		0.00	889.52	
31		18.38		86.11	162.74		45.90		3.18	1.47		0.00	317.78	
Total	152.82	345.68	1191.92	3524.07	5714.27	4147.69	2925.18	894.70	196.13	109.99	22.75	0.00	19225.20	Tonday
Mean	5.09	11.15	39.73	113.68	184.33	138.26	94.36	29.82	6.33	3.55	0.81	0.00	627.11	Ton/day
Max	18.38	139.29	352.18	359.90	541.52	422.03	371.58	92.30	10.77	5.77	7.10	0.00	541.52	Ton/day
Min	0.36	0.00	6.56	28.30	50.48	58.40	36.49	11.18	3.18	1.30	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

Lat 12 - 47 - 15 N Long 102 - 15 - 33 E

Location : on left bank at the bridge on highway.

Ban Pong Rong Sen **Amphoe** Makham **Changwat** Chanthaburi

Drainge Area	78 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1984-Cont'd
Actual Measurement	1984-Cont'd
Using Rating Curve Water Year	2016
Number of observation	13
R-Square	0.8205
Remarks	Continued Sediment Station

$$QS = 1.7137\ QW^{1.35150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.97	2.19	4.08	51.49	16.95	32.39	31.40	12.11	4.52	2.32	3.94	4.82	171.18
2	4.82	2.19	3.79	40.59	21.51	19.52	24.23	11.54	4.67	2.70	3.79	5.75	145.12
3	4.52	2.19	3.79	19.52	76.37	16.95	38.50	10.41	4.67	2.83	3.94	5.91	189.60
4	4.67	1.83	3.94	10.41	61.84	30.42	29.44	9.32	4.52	2.83	4.08	5.28	168.57
5	4.67	1.71	3.79	8.25	169.93	24.93	22.18	8.96	4.23	2.70	3.79	5.59	260.74
6	4.67	1.49	3.94	10.97	123.92	20.84	19.52	8.96	4.23	2.57	3.79	5.75	210.64
7	4.67	1.49	3.79	20.84	107.64	26.33	17.58	8.25	4.23	2.57	3.37	5.28	206.05
8	4.67	1.38	3.37	14.48	110.37	38.50	18.22	40.59	4.23	2.83	3.51	6.89	249.04
9	4.52	1.27	3.23	10.97	70.22	29.44	29.44	27.76	4.08	2.83	3.79	6.89	194.44
10	4.52	0.86	3.10	17.58	134.61	22.18	19.52	21.51	4.08	3.23	4.08	5.59	240.87
11	4.67	0.58	3.10	223.55	207.27	39.54	16.32	12.11	3.94	3.23	3.94	6.23	524.49
12	4.52	0.67	4.08	75.13	71.44	73.89	16.95	9.86	4.08	3.10	3.65	6.23	273.60
13	4.37	0.96	3.37	141.87	50.37	39.54	15.09	8.25	3.94	3.10	3.94	5.44	280.23
14	4.52	0.67	3.23	85.20	36.43	149.22	12.69	8.25	4.23	3.10	3.65	6.56	317.76
15	4.67	0.96	3.23	26.33	42.72	69.00	11.54	7.23	4.08	3.10	3.94	6.23	183.03
16	4.52	2.19	3.10	16.32	66.59	38.50	11.54	6.89	3.94	3.51	3.65	5.44	166.19
17	4.67	1.95	3.10	10.97	83.92	27.04	10.41	6.89	3.79	3.23	3.23	6.23	165.45
18	4.67	1.83	4.23	9.86	64.20	32.39	9.86	6.89	3.65	2.96	3.37	6.56	150.48
19	4.82	1.71	3.94	10.41	35.41	34.39	13.28	6.23	3.51	2.70	3.79	5.75	125.96
20	4.97	1.83	3.94	9.86	28.47	75.13	14.48	6.56	3.37	2.70	3.65	7.91	162.87
21	5.59	2.07	17.58	11.54	25.63	53.74	24.23	6.23	3.23	2.57	3.51	7.23	163.17
22	22.18	2.07	7.56	31.40	27.04	27.04	140.05	5.59	3.23	2.19	3.79	6.23	278.39
23	19.52	3.65	34.39	24.23	18.87	78.87	47.05	5.44	3.37	2.19	3.79	7.23	248.60
24	4.97	4.08	32.39	12.11	24.23	29.44	18.87	5.44	3.37	2.19	3.94	10.97	152.01
25	4.67	3.23	25.63	10.97	37.46	22.86	21.51	5.13	3.23	2.07	4.23	10.41	151.40
26	2.83	3.51	17.58	10.97	22.86	20.18	18.87	4.97	3.37	2.19	4.52	9.32	121.18
27	2.44	17.58	10.41	12.69	18.87	21.51	20.84	4.97	3.10	2.32	4.23	9.32	128.28
28	2.44	59.50	9.32	17.58	15.70	49.25	17.58	4.82	2.70	2.57	3.10	5.91	190.48
29	2.96	12.69	15.70	48.15	15.70	80.12	13.88	4.67	2.57	2.32		6.56	205.33
30	2.57	5.91	99.57	36.43	20.84	41.65	11.54	4.67	3.10	2.44		6.89	235.61
31		4.67		23.54	48.15		10.41		2.83	2.57		5.59	97.77
Total	163.33	148.92	342.28	1054.24	1855.53	1264.81	727.02	290.52	116.09	83.79	106.00	206.03	6358.55 Tonday
Mean	5.44	4.80	11.41	34.01	59.86	42.16	23.45	9.68	3.74	2.70	3.79	6.65	207.70 Ton/day
Max	22.18	59.50	99.57	223.55	207.27	149.22	140.05	40.59	4.67	3.51	4.52	10.97	223.55 Ton/day
Min	2.44	0.58	3.10	8.25	15.70	16.95	9.86	4.67	2.57	2.07	3.10	4.82	0.58 Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Sato at Ban Nong Bua , Trat (Z.30)

Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Khao Saming **Changwat** Trat

Drainge Area	316 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2016
Number of observation	18
R-Square	0.8554
Remarks	Continued Sediment Station

$$QS = 0.2118\ QW^{1.88830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	2.30	11.31	1066.31	71.84	111.76	243.23	41.58	3.87	0.17	0.00	0.00	1555.78
2	2.56	2.17	6.20	833.61	66.48	66.48	159.22	36.29	3.25	0.17	0.00	0.00	1176.43
3	1.21	1.61	4.03	338.57	142.09	51.69	160.57	32.73	2.30	0.09	0.00	0.00	734.91
4	0.95	0.72	3.55	144.67	312.82	45.25	161.93	28.90	2.30	0.12	0.00	0.00	701.22
5	0.87	0.40	2.43	87.23	292.10	39.78	175.83	27.27	2.56	0.09	0.00	0.00	628.56
6	1.61	0.23	1.94	94.15	407.11	76.56	130.78	24.55	1.61	0.12	0.00	0.00	738.66
7	2.96	0.32	1.40	334.21	707.10	88.12	119.91	21.60	1.03	0.00	0.00	0.00	1276.65
8	4.69	0.46	2.30	217.71	1052.90	95.21	182.98	22.31	0.79	0.00	0.00	0.00	1579.35
9	5.06	0.79	1.03	124.68	861.72	89.97	128.33	31.00	0.79	0.00	0.00	0.00	1243.38
10	4.36	0.65	0.58	129.55	841.68	69.50	94.15	119.91	2.17	0.00	0.00	0.00	1262.54
11	2.69	0.46	0.40	477.47	861.72	71.03	83.87	41.58	3.40	0.00	0.00	0.00	1542.62
12	2.30	0.40	0.28	1354.96	483.69	82.21	71.03	27.27	4.19	0.00	0.00	0.00	2026.33
13	1.83	0.46	0.21	729.44	372.10	108.35	77.32	21.25	4.89	0.00	0.00	0.00	1315.84
14	1.50	0.65	0.21	961.46	395.28	312.82	62.07	18.81	5.42	0.00	0.00	0.00	1758.21
15	0.95	1.50	0.21	404.73	219.48	212.41	51.69	16.84	5.24	0.00	0.00	0.00	913.06
16	0.79	1.40	0.51	207.17	402.36	152.52	45.85	14.98	3.87	0.00	0.00	0.00	829.47
17	0.79	4.19	0.46	138.27	468.45	119.91	60.63	12.10	1.83	0.00	0.00	0.00	806.62
18	0.79	4.52	0.72	137.01	250.77	114.06	73.39	8.81	0.95	0.00	0.00	0.00	591.02
19	0.87	4.69	0.95	88.12	164.67	205.44	85.54	10.52	0.65	0.00	0.00	0.00	561.45
20	1.83	5.42	4.19	67.26	112.91	203.72	97.34	15.28	0.08	0.00	0.00	0.00	508.03
21	3.87	6.01	139.54	66.48	95.21	246.98	88.94	16.22	0.30	0.00	0.00	0.00	663.55
22	5.61	6.80	62.07	57.80	76.56	129.55	110.62	13.23	0.65	0.00	0.00	0.00	462.87
23	6.20	17.16	88.12	87.23	66.48	149.88	266.16	12.95	0.19	0.00	0.00	0.00	694.37
24	6.40	139.54	521.30	62.07	71.03	123.48	237.65	19.51	0.23	0.00	0.00	0.00	1181.20
25	5.61	246.98	628.21	67.26	96.27	89.97	235.80	15.58	0.32	0.00	0.00	0.00	1386.01
26	6.20	15.28	409.50	47.78	82.21	78.94	127.11	12.67	0.32	0.00	0.00	0.00	780.01
27	5.24	6.20	214.17	39.22	78.94	86.42	109.48	10.77	0.28	0.00	0.00	0.00	550.71
28	4.19	117.55	228.48	42.79	83.07	117.55	74.15	7.45	0.21	0.00	0.00	0.00	675.44
29	2.96	145.96	404.73	167.43	59.94	117.55	53.67	5.24	0.23	0.00		0.00	957.72
30	2.05	51.69	1146.63	250.77	66.48	153.85	47.11	4.19	0.23	0.00		0.00	1723.01
31		18.15		121.09	115.22		48.39		0.14	0.00		0.00	302.99
Total	90.35	804.69	3885.66	8946.48	9378.66	3610.95	3664.73	691.40	54.32	0.78	0.00	0.00	31128.02 Tonday
Mean	3.01	25.96	129.52	288.60	302.54	120.36	118.22	23.05	1.75	0.03	0.00	0.00	1013.03 Ton/day
Max	6.40	246.98	1146.63	1354.96	1052.90	312.82	266.16	119.91	5.42	0.17	0.00	0.00	1354.96 Ton/day
Min	0.79	0.23	0.21	39.22	59.94	39.78	45.85	4.19	0.08	0.00	0.00	0.00	0.00 Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)

Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

Ban Prakaet **Amphoe** Kaeng Hang Mae **Changwat** Chanthaburi

Drainge Area	451 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	2016
Number of observation	14
R-Square	0.9521
Remarks	Continued Sediment Station

$$QS = 0.7019\ QW^{1.80810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				2.03	3.95	25.54	870.70	0.00					902.22
2				0.64	63.69	7.48	578.56	0.00					650.37
3				2.46	11.74	3.42	215.58	0.00					233.20
4				0.20	63.69	1.64	172.58	0.00					238.11
5				0.02	41.12	7.84	249.52	0.00					298.51
6				3.68	364.40	116.52	468.87	0.00					953.48
7				304.54	137.23	114.04	1770.14	0.00					2325.95
8				32.57	137.23	114.04	1575.42	0.00					1859.26
9				11.08	56.28	111.59	706.78	0.00					885.73
10				7.84	23.68	124.11	215.58	0.00					371.21
11				41.12	172.58	129.29	79.72	0.00					422.71
12				75.56	73.52	401.52	54.49	0.00					605.10
13				9.81	23.68	1959.50	50.99	0.00					2043.97
14				124.11	12.42	1941.93	39.57	0.00					2118.03
15				29.46	8.22	1820.93	18.46	0.00					1877.07
16			25.54	9.20	24.60	1820.93	11.08	0.00					1891.35
17			56.28	16.85	11.08	319.05	35.08	0.00					438.34
18			20.13	10.44	5.12	27.47	8.22	0.00					71.38
19			0.58	71.50	3.42	2734.87	6.08	0.00					2816.45
20			0.00	42.70	1.83	3261.36	0.00	0.00					3305.90
21			0.13	22.77	0.83	1425.08	0.00	0.00					1448.81
22			0.00	7.48	0.58	474.70	0.00	0.00					482.76
23			0.00	29.46	0.32	2066.40	0.00	0.00					2096.18
24			0.13	9.20	0.28	1688.98	0.00	0.00					1698.59
25			0.00	73.52	7.84	1506.25	0.00	0.00					1587.62
26			0.01	13.83	63.69	1506.25	0.00	0.00					1583.78
27			2.46	4.52	24.60	1506.25	0.00	0.00					1537.82
28			0.83	41.12	47.60	665.48	0.00	0.00					755.04
29			0.32	180.08	54.49	88.34	0.00	0.00					323.23
30			4.52	26.50	36.55	6165.58	0.00	0.00					6233.14
31				7.84	15.31		0.00						23.15
Total			110.95	1212.15	1491.57	32136.38	7127.43	0.00					42078.47 Tonday
Mean			7.40	39.10	48.12	1071.21	229.92	0.00					1395.74 Ton/day
Max			56.28	304.54	364.40	6165.58	1770.14	0.00					6165.58 Ton/day
Min			0.00	0.02	0.28	1.64	0.00	0.00					0.00 Ton/day

WATER YEAR : 2016

EAST COAST - GULF BASIN

Khlong Aeng at Ban Kho Lae , Trat (Z.45)

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

Ban Kho Lae **Amphoe** Bo Rai **Changwat** Trat

Drainge Area	58 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1999-Cont'd
Actual Measurement	1999-Cont'd
Using Rating Curve Water Year	2012 - 2016
Number of observation	15
R-Square	0.8125
Remarks	Continued Sediment Station

$$QS = 0.8346\ QW^{2.11900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.25	6.32	589.18	5.34	134.34	507.65	44.78	3.07	1.70	1.02	0.93	1294.75	
2	0.15	0.39	3.25	390.46	12.60	119.28	476.83	38.51	2.73	1.58	1.02	0.83	1047.64	
3	0.13	0.43	3.25	194.53	91.99	105.17	623.59	42.64	1.58	1.58	1.02	1.02	1066.92	
4	0.12	0.39	6.32	301.12	100.67	87.81	213.89	40.55	1.58	1.46	1.02	0.78	755.71	
5	0.13	0.33	3.07	447.03	337.91	2239.36	277.84	38.51	2.57	1.34	1.02	0.78	3349.90	
6	0.12	0.13	2.90	755.40	255.54	1651.98	91.99	14.13	2.73	1.23	0.93	0.78	2777.86	
7	0.09	0.12	3.25	1157.95	350.67	572.36	119.28	12.60	2.73	1.23	0.93	0.75	2221.95	
8	0.10	0.19	2.73	945.73	1477.02	223.94	79.74	7.40	2.57	1.46	0.93	0.75	2742.55	
9	0.13	0.25	1.58	185.21	945.73	91.99	105.17	12.60	2.41	1.23	0.93	0.75	1347.97	
10	0.09	0.19	1.23	51.55	945.73	337.91	142.22	12.60	2.57	1.02	0.83	0.75	1496.69	
11	0.10	0.21	1.46	3910.68	492.11	390.46	167.29	8.56	2.57	1.70	0.83	0.75	4976.72	
12	0.07	0.24	1.70	418.24	301.12	204.09	114.47	6.32	2.57	1.58	0.83	0.75	1051.98	
13	0.10	0.21	1.46	234.23	142.22	83.72	75.86	11.87	2.41	1.12	0.83	0.75	554.78	
14	0.07	0.31	1.70	266.57	277.84	167.29	49.24	7.40	2.41	1.02	0.83	0.75	775.43	
15	0.04	0.45	1.12	87.81	301.12	124.19	100.67	9.82	2.41	1.12	0.83	0.70	630.30	
16	0.04	0.78	1.02	21.18	234.23	176.13	100.67	8.56	2.11	1.02	0.78	0.67	547.19	
17	0.03	1.83	0.93	17.03	185.21	301.12	266.57	5.82	1.70	1.02	0.78	0.62	782.66	
18	0.03	4.02	0.75	12.60	266.57	109.77	100.67	5.34	1.58	1.02	0.75	0.67	503.75	
19	0.02	1.23	0.93	49.24	213.89	150.34	100.67	4.44	1.58	1.12	0.75	0.93	525.12	
20	0.01	0.75	1.02	46.98	223.94	129.21	91.99	4.02	1.46	1.12	0.75	61.37	562.62	
21	0.02	1.23	244.76	42.64	167.29	1983.44	109.77	4.44	1.46	1.02	0.75	21.18	2577.99	
22	0.01	1.83	668.66	21.18	109.77	755.40	167.29	3.44	1.97	0.93	0.70	11.16	1742.34	
23	0.01	5.34	507.65	12.60	79.74	289.36	134.34	4.44	1.97	1.02	0.70	9.82	1046.97	
24	0.01	1.97	2741.81	11.87	79.74	277.84	244.76	4.02	1.70	1.02	0.70	10.48	3375.91	
25	0.01	2.90	75.86	12.60	96.28	158.70	96.28	3.25	1.83	1.02	0.70	266.57	716.00	
26	0.02	9.82	100.67	11.16	129.21	150.34	61.37	3.44	1.70	1.02	0.78	301.12	770.65	
27	0.03	255.54	142.22	12.60	167.29	105.17	79.74	3.44	1.58	0.93	0.83	167.29	936.65	
28	0.06	1013.70	277.84	14.93	114.47	167.29	91.99	3.44	1.70	0.93	1.12	91.99	1779.46	
29	0.04	3910.68	313.14	11.87	150.34	641.18	46.98	3.44	1.58	0.93		40.55	5120.70	
30	0.04	726.08	363.68	6.32	114.47	167.29	46.98	3.44	1.97	1.02		14.93	1446.22	
31		49.24		3.63	96.28		29.16		1.97	1.02		5.34	186.64	
Total	2.00	5991.04	5482.28	10244.05	8466.33	12096.46	4914.98	373.20	64.77	36.52	23.91	1016.48	48712.01	Tonday
Mean	0.07	193.26	182.74	330.45	273.11	403.22	158.55	12.44	2.09	1.18	0.85	32.79	1590.74	Ton/day
Max	0.17	3910.68	2741.81	3910.68	1477.02	2239.36	623.59	44.78	3.07	1.70	1.12	301.12	3910.68	Ton/day
Min	0.01	0.12	0.75	3.63	5.34	83.72	29.16	3.25	1.46	0.93	0.70	0.62	0.01	Ton/day

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

Ban Song Phi Nong **Amphoe** Kaeng Krachan **Changwat** Phetchaburi

Drainge Area	2,220 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2004 - 2016
Number of observation	256
R-Square	0.7040
Remarks	Continued Sediment Station

$$QS = 0.9150\ QW^{1.22600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.24	40.14	22.24	12.62	30.15	48.16	14.93	6.45	9.25	6.16	11.35	11.35	241.05	
2	28.24	33.38	21.74	18.27	58.96	63.22	11.35	5.88	10.64	6.16	11.35	19.25	288.47	
3	27.61	28.24	21.74	19.25	72.78	59.81	7.04	5.08	10.29	6.16	14.93	21.24	294.17	
4	27.61	28.24	21.24	14.93	74.79	61.51	6.74	4.18	15.40	6.16	17.79	24.28	302.86	
5	27.61	28.87	20.74	14.46	74.79	49.80	6.74	3.95	11.35	5.08	17.30	24.28	284.98	
6	27.61	28.24	21.74	14.46	72.78	48.16	4.18	3.74	11.00	4.18	3.74	21.74	261.54	
7	32.08	35.35	21.24	14.46	74.79	48.16	2.68	3.30	15.87	4.18	2.27	21.74	276.13	
8	36.68	36.68	18.76	14.46	74.79	48.16	2.68	3.09	11.00	4.18	5.08	21.74	277.30	
9	38.01	38.01	18.76	18.27	56.44	48.16	2.68	3.09	15.87	1.69	11.71	21.74	274.44	
10	40.14	38.01	18.76	18.76	38.01	48.16	2.68	2.88	15.87	0.00	11.71	24.79	259.79	
11	39.35	40.14	18.27	18.76	43.32	46.54	2.68	2.88	15.87	0.00	11.71	27.61	267.13	
12	38.01	48.98	18.76	14.93	59.81	37.34	2.68	2.88	15.87	0.00	11.71	27.61	278.58	
13	31.44	47.35	18.27	13.99	58.96	38.68	2.68	3.95	9.25	0.00	11.71	24.79	261.09	
14	26.98	38.68	18.76	13.99	65.80	39.35	2.68	8.23	10.64	1.01	11.71	24.79	262.63	
15	26.98	38.68	22.75	13.99	66.67	25.31	2.68	11.71	7.33	0.87	11.71	27.61	256.29	
16	26.98	39.35	28.87	15.40	74.79	27.61	2.47	34.69	5.60	1.01	11.71	24.28	292.76	
17	26.98	32.08	23.26	17.79	90.22	36.68	2.47	36.68	4.18	0.00	11.71	23.77	305.81	
18	26.98	28.87	28.24	15.40	90.22	38.68	2.68	30.79	5.32	0.00	11.71	24.79	303.67	
19	26.98	28.87	25.31	15.40	63.22	62.37	3.30	30.79	7.93	2.88	11.71	23.26	302.02	
20	27.61	22.24	20.74	15.40	58.96	39.35	4.18	30.15	11.71	2.88	11.35	9.94	254.52	
21	34.69	21.74	19.75	13.99	64.94	26.35	4.18	30.79	11.35	8.57	11.35	17.30	265.01	
22	31.44	24.28	22.24	13.53	65.80	11.35	4.18	21.74	9.94	8.91	11.35	16.82	241.59	
23	34.69	30.79	20.24	17.79	65.80	9.60	4.18	25.31	6.16	2.88	11.35	12.16	240.97	
24	39.35	30.79	19.25	17.79	66.67	6.45	4.18	20.74	6.16	2.88	11.35	17.30	242.93	
25	32.08	31.44	19.75	13.53	66.67	9.25	4.18	15.40	6.16	2.47	11.35	17.30	229.58	
26	34.69	23.77	19.75	13.53	70.15	10.64	4.18	11.00	6.45	2.27	11.35	17.30	225.09	
27	39.35	22.75	13.53	13.53	69.28	13.07	4.40	9.94	6.45	2.88	11.35	16.82	223.37	
28	39.35	22.75	13.07	13.53	73.78	16.35	4.18	10.64	6.16	11.35	11.35	12.62	235.14	
29	40.14	22.75	13.07	17.30	75.81	16.35	4.18	10.64	6.16	7.63		19.25	233.29	
30	42.52	30.15	12.62	30.79	64.94	11.35	5.32	10.64	6.16	7.04		19.25	240.78	
31		22.75		34.69	48.16		6.45		6.16	6.45		19.25	143.93	
Total	1106.16	1404.94	803.32	707.61	6711.08	2083.82	564.60	595.20	396.77	451.83	1015.14	1313.26	17153.73	Tonday
Mean	36.87	45.32	26.78	22.83	216.49	69.46	18.21	19.84	12.80	14.58	36.26	42.36	561.79	Ton/day
Max	62.69	87.36	55.36	89.15	357.77	158.31	161.85	70.47	25.40	42.02	64.21	65.75	357.77	Ton/day
Min	25.40	21.65	7.77	7.44	70.47	4.57	1.14	0.82	2.54	1.71	2.27	7.12	0.82	Ton/day

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Huai Phak at Ban Prong Khae , Phetchaburi (B.8A)

Lat 12 - 48 - 50 N Long 99 - 42 - 16 E

Location : on left bank at Ban Prong Khae.

Ban Prong Khae **Amphoe** Tha Yang **Changwat** Phetchaburi

Drainge Area	301 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2016
Number of observation	13
R-Square	0.8650
Remarks	Continued Sediment Station

$QS = 3.5301\ QW^{1.18020}$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.62	0.56	0.89	0.69	0.21	0.62	2.55	25.21	0.89	0.23	0.38	0.18	33.03	
2	0.56	0.56	0.82	0.69	0.21	0.62	1.86	16.75	0.89	0.23	0.35	0.18	23.70	
3	0.56	0.56	0.82	0.75	0.21	0.62	1.63	14.65	0.82	0.23	0.35	0.13	21.33	
4	0.62	0.56	0.75	0.69	0.21	0.62	5.03	7.06	0.75	0.23	0.35	0.13	17.01	
5	0.56	0.56	0.62	0.69	0.21	0.62	13.01	4.38	0.75	0.23	0.35	0.10	22.08	
6	0.56	0.56	0.69	0.69	0.21	0.62	10.51	3.36	0.75	0.23	0.29	0.13	18.60	
7	0.38	0.56	0.75	0.75	0.21	0.62	5.47	3.04	0.75	0.23	0.23	0.10	13.10	
8	0.38	0.56	0.69	0.69	0.21	0.62	5.70	2.71	0.69	0.23	0.29	0.10	12.86	
9	0.18	0.56	0.62	0.75	0.21	0.62	3.95	2.40	0.62	0.44	0.23	0.18	10.76	
10	0.00	0.56	0.56	0.75	0.21	0.62	4.16	2.24	0.62	19.31	0.23	0.21	29.48	
11	0.00	0.56	0.56	0.62	0.29	0.62	6.24	1.93	0.69	11.10	0.23	0.23	23.08	
12	0.00	0.56	0.56	0.44	0.56	0.62	3.74	1.86	0.69	3.53	0.21	0.18	12.94	
13	0.00	0.62	0.56	0.44	0.69	0.62	6.79	1.74	0.75	2.55	0.18	0.13	15.07	
14	0.00	0.75	0.56	0.44	0.35	0.69	3.53	1.56	0.75	1.93	0.13	0.06	10.74	
15	0.00	0.75	0.56	0.44	0.21	0.56	7.91	1.45	0.69	1.93	0.18	0.03	14.70	
16	0.00	0.89	0.56	0.44	0.18	0.50	9.05	1.38	0.62	4.38	0.18	0.00	18.16	
17	0.00	1.02	0.62	0.44	0.10	0.38	26.74	1.30	0.62	4.38	0.13	0.00	35.73	
18	0.00	0.95	0.75	0.44	0.10	0.44	19.31	1.20	0.56	4.38	0.13	0.00	28.25	
19	0.00	0.95	0.75	0.44	0.10	0.44	8.76	1.09	0.44	4.16	0.18	0.00	17.31	
20	0.00	0.95	0.69	0.44	0.10	0.56	3.53	1.09	0.38	3.53	0.13	0.00	11.40	
21	0.35	0.82	0.75	0.29	0.10	1.38	2.24	1.09	0.35	1.09	0.29	0.00	8.75	
22	0.35	0.82	0.75	0.29	0.10	32.38	1.86	1.02	0.35	0.75	0.29	0.00	38.96	
23	0.35	0.82	0.75	0.29	0.10	7.62	1.74	1.02	0.29	0.69	0.29	0.10	14.07	
24	0.35	0.82	0.75	0.29	0.10	3.74	1.74	1.20	0.35	0.69	0.29	0.13	10.44	
25	0.35	0.75	0.75	0.23	0.35	4.81	1.56	1.30	0.35	0.62	0.29	0.21	11.57	
26	0.35	0.69	0.75	0.21	0.50	9.34	1.45	1.20	0.35	1.38	0.23	0.23	16.66	
27	0.35	0.75	0.75	0.21	0.62	18.45	68.12	1.20	0.35	2.55	0.23	0.29	93.87	
28	0.35	0.69	0.75	0.21	0.62	23.70	82.54	1.09	0.29	0.75	0.21	0.29	111.48	
29	0.44	0.69	0.75	0.23	0.62	18.45	33.67	1.02	0.23	0.62		0.29	57.02	
30	0.56	0.82	0.75	0.29	0.62	4.16	51.07	0.95	0.23	0.50		0.29	60.25	
31		0.95		0.23	0.62		26.74		0.23	0.44		0.29	29.51	
Total	8.19	22.23	20.91	14.45	9.11	135.68	422.18	107.50	17.08	73.57	6.82	4.18	841.90	Tonday
Mean	0.27	0.72	0.70	0.47	0.29	4.52	13.62	3.58	0.55	2.37	0.24	0.13	27.47	Ton/day
Max	0.62	1.02	0.89	0.75	0.69	32.38	82.54	25.21	0.89	19.31	0.38	0.29	82.54	Ton/day
Min	0.00	0.56	0.56	0.21	0.10	0.38	1.45	0.95	0.23	0.23	0.13	0.00	0.00	Ton/day

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

Ban Sarahed **Amphoe** Tha Yang **Changwat** Phetchaburi

Drainge Area	2,617 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7820
Remarks	Continued Sediment Station

$$QS = 0.1761\ QW^{1.95300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.38	65.75	27.38	7.44	70.47	97.06	5.92	39.57	2.54	24.44	33.76	31.56	432.28	
2	26.38	64.21	26.38	16.58	180.09	158.31	9.49	29.44	2.54	27.38	34.89	33.76	609.45	
3	25.40	36.03	26.38	29.44	270.38	141.75	5.64	20.76	2.69	25.40	42.02	33.76	659.65	
4	26.38	33.76	25.40	24.44	306.78	141.75	1.92	7.77	5.64	24.44	62.69	38.37	699.34	
5	26.38	33.76	24.44	16.58	301.43	92.77	4.83	4.83	8.10	23.49	64.21	51.17	651.99	
6	25.40	33.76	27.38	16.58	290.85	90.95	5.36	3.18	7.12	25.40	25.40	37.19	588.59	
7	26.38	34.89	29.44	17.38	296.12	90.95	3.35	2.39	8.43	26.38	3.01	37.19	575.91	
8	26.38	51.17	23.49	16.58	285.63	90.95	4.57	1.92	8.10	26.38	2.27	37.19	574.64	
9	25.40	55.36	20.76	22.56	241.56	90.95	3.35	1.71	8.10	21.65	30.49	37.19	559.08	
10	26.38	56.79	19.89	31.56	70.47	92.77	2.39	1.41	8.10	42.02	37.19	40.79	429.77	
11	53.94	58.24	18.20	28.40	104.61	94.61	3.53	1.05	8.10	29.44	38.37	59.70	498.19	
12	51.17	85.59	19.04	29.44	187.65	65.75	3.35	0.90	8.10	7.12	38.37	61.19	557.67	
13	52.55	87.36	19.89	18.20	172.68	70.47	5.09	0.82	5.36	4.57	39.57	56.79	533.36	
14	29.44	64.21	19.04	17.38	207.23	70.47	4.57	1.81	3.35	4.32	39.57	44.55	505.95	
15	28.40	64.21	18.20	16.58	219.42	61.19	28.40	16.58	4.08	6.51	39.57	58.24	561.39	
16	28.40	65.75	45.84	19.04	241.56	26.38	6.81	47.14	4.57	19.04	39.57	56.79	600.89	
17	27.38	62.69	55.36	23.49	357.77	51.17	17.38	70.47	4.32	7.77	39.57	52.55	769.93	
18	28.40	40.79	49.81	25.40	357.77	65.75	19.04	52.55	3.89	5.36	40.79	49.81	739.36	
19	28.40	38.37	37.19	21.65	246.25	151.36	7.77	51.17	8.78	4.32	40.79	59.70	695.76	
20	31.56	25.40	42.02	21.65	180.09	72.08	4.08	49.81	22.56	2.39	40.79	7.12	499.57	
21	31.56	22.56	30.49	20.76	191.49	87.36	2.54	47.14	20.76	3.53	42.02	28.40	528.62	
22	52.55	21.65	23.49	15.80	207.23	51.17	1.81	42.02	25.40	8.78	42.02	47.14	539.07	
23	31.56	38.37	34.89	20.76	207.23	9.13	1.51	36.03	24.44	5.64	34.89	25.40	469.84	
24	53.94	42.02	30.49	29.44	207.23	4.57	1.71	22.56	24.44	1.71	31.56	37.19	486.86	
25	55.36	43.28	30.49	23.49	211.25	20.76	1.41	26.38	24.44	1.92	32.65	36.03	507.46	
26	30.49	36.03	30.49	9.85	207.23	24.44	1.14	5.64	24.44	2.15	32.65	51.17	455.70	
27	53.94	25.40	23.49	9.49	191.49	16.58	47.14	2.15	23.49	2.39	32.65	65.75	493.97	
28	56.79	24.44	8.43	9.49	199.28	24.44	161.85	3.18	24.44	17.38	33.76	38.37	601.84	
29	56.79	24.44	7.77	18.20	219.42	22.56	61.19	2.27	23.49	20.76		32.65	489.54	
30	62.69	34.89	7.77	40.79	187.65	5.36	82.11	2.54	23.49	19.89		36.03	503.21	
31		33.76		89.15	92.77		55.36		23.49	9.85		30.49	334.86	
Total	1106.16	1404.94	803.32	707.61	6711.08	2083.82	564.60	595.20	396.77	451.83	1015.14	1313.26	17153.73	Tonday
Mean	36.87	45.32	26.78	22.83	216.49	69.46	18.21	19.84	12.80	14.58	36.26	42.36	561.79	Ton/day
Max	62.69	87.36	55.36	89.15	357.77	158.31	161.85	70.47	25.40	42.02	64.21	65.75	357.77	Ton/day
Min	25.40	21.65	7.77	7.44	70.47	4.57	1.14	0.82	2.54	1.71	2.27	7.12	0.82	Ton/day

WATER YEAR : 2016

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

Location : on left bank at the bridge of Ban Tha Yang.

Ban Tha Yang **Amphoe** Tha Yang **Changwat** Phetchaburi

Drainge Area	4,076 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2016
Number of observation	26
R-Square	0.9650
Remarks	Continued Sediment Station

$$QS = 0.8007\ QW^{1.40660}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.04	6.64	4.48	3.75	10.42	11.04	271.91	1204.50	16.38	11.38	6.23	13.62	1565.41	
2	4.66	8.23	5.43	2.58	6.44	4.29	270.09	1408.45	14.40	11.02	6.64	13.62	1755.86	
3	4.11	11.04	6.44	2.12	3.24	3.41	286.59	1511.57	12.12	11.02	7.92	14.01	1873.59	
4	3.93	10.42	7.06	2.66	6.03	5.43	266.46	1004.32	9.49	11.02	9.26	13.62	1349.72	
5	5.24	6.23	7.27	5.43	9.03	5.63	225.78	416.43	9.95	11.02	14.40	13.62	730.04	
6	3.58	4.85	7.96	7.06	10.42	4.11	294.64	149.87	10.31	9.49	17.61	14.01	533.92	
7	2.91	3.93	9.31	6.23	10.73	2.35	227.51	111.37	9.95	11.02	13.24	14.40	422.95	
8	2.12	3.15	11.99	5.24	10.73	1.42	101.56	95.76	10.31	13.24	6.85	15.58	277.95	
9	1.97	2.82	11.36	4.48	10.73	0.97	135.27	102.11	9.95	15.18	7.06	17.20	319.11	
10	3.58	2.99	8.23	4.48	9.31	1.03	170.45	101.19	9.72	25.01	8.36	17.20	361.54	
11	7.27	3.58	5.24	5.63	3.58	1.42	226.07	97.56	9.72	40.25	11.38	16.38	428.08	
12	8.76	3.75	3.41	8.49	1.10	3.24	184.13	80.00	10.31	64.29	12.86	19.71	400.05	
13	7.27	5.63	2.66	10.42	0.65	5.24	148.60	56.44	10.66	34.11	16.38	24.10	322.15	
14	6.85	9.58	2.20	11.04	0.63	6.85	176.04	12.12	11.38	19.71	16.38	27.64	300.42	
15	7.06	10.42	2.12	8.23	1.42	6.85	211.81	9.26	12.49	19.28	15.18	23.65	327.78	
16	6.03	8.49	2.20	6.03	3.93	6.23	276.17	8.58	12.86	19.71	14.01	23.65	387.89	
17	5.83	9.03	2.35	5.04	8.23	2.99	265.25	11.38	14.01	20.56	14.01	23.65	382.34	
18	6.23	11.36	5.24	5.43	16.79	1.35	247.94	17.20	9.49	20.56	15.58	22.31	379.48	
19	6.64	10.73	13.29	8.76	29.86	0.80	270.69	14.40	8.81	17.20	12.49	21.87	415.54	
20	5.63	7.70	18.02	9.31	23.65	2.82	246.47	12.49	8.81	21.87	12.49	25.01	394.27	
21	4.29	7.70	17.61	7.27	10.14	12.32	185.48	11.75	10.66	7.27	13.24	22.76	310.50	
22	3.32	7.06	14.01	6.44	5.63	37.83	108.57	11.75	18.02	6.03	14.40	21.43	254.48	
23	3.49	6.44	10.14	5.83	5.43	122.55	93.97	12.12	15.58	8.81	15.58	21.00	320.93	
24	3.15	7.27	8.23	5.04	6.03	449.06	85.16	10.66	9.26	10.31	16.38	19.71	630.27	
25	2.91	11.67	9.31	4.66	5.43	446.26	62.70	12.12	8.81	7.27	15.18	19.71	606.02	
26	3.93	14.40	11.99	5.83	3.93	294.64	38.17	21.00	8.81	5.63	14.79	25.01	448.12	
27	4.66	14.79	12.97	6.23	2.58	318.83	19.28	22.31	9.26	5.24	14.79	29.54	460.48	
28	4.48	12.32	12.64	6.85	2.27	281.06	189.57	18.44	12.49	5.24	14.01	34.11	593.47	
29	5.63	20.56	10.14	7.49	2.51	224.05	484.91	19.71	12.86	7.70		36.12	831.68	
30	6.23	27.95	6.44	7.70	2.91	268.27	528.14	19.71	12.86	10.31		34.77	925.29	
31		11.67		8.49	14.01		898.83		12.86	8.58		34.11	988.56	
Total	146.82	282.45	249.72	194.26	237.78	2532.34	7198.18	6584.56	352.61	489.33	356.72	673.10	19297.87	Tonday
Mean	4.89	9.11	8.32	6.27	7.67	84.41	232.20	219.49	11.37	15.78	12.74	21.71	633.97	Ton/day
Max	8.76	27.95	18.02	11.04	29.86	449.06	898.83	1511.57	18.02	64.29	17.61	36.12	1511.57	Ton/day
Min	1.97	2.82	2.12	2.12	0.63	0.80	19.28	8.58	8.81	5.24	6.23	13.62	0.63	Ton/day

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

Ban Klang **Amphoe** Thap Sakae **Changwat** Prachuap Khiri Khan

Drainge Area	125 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2007 - 2016
Number of observation	140
R-Square	0.8420
Remarks	Continued Sediment Station

$$QS = 4.1441\ QW^{1.25940}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.07	0.00	0.15	0.00	73.98	0.48	1.27	5.43	1.27	82.64	
2	0.00	0.00	0.00	0.00	0.00	0.15	0.00	39.58	0.35	0.83	5.10	1.27	47.27	
3	0.00	0.00	0.00	0.00	0.07	0.15	0.00	23.00	0.35	0.99	5.77	1.27	31.59	
4	0.00	0.00	0.00	0.00	0.15	0.15	0.00	17.23	0.99	1.69	5.77	1.27	27.23	
5	0.00	0.00	0.00	0.00	0.07	0.07	0.35	13.01	2.00	1.27	5.10	1.27	23.13	
6	0.00	0.00	0.00	0.00	0.07	0.07	0.26	10.42	21.53	1.10	4.78	1.27	39.50	
7	0.00	0.00	0.00	0.00	0.07	0.07	0.15	8.20	18.64	2.50	4.78	1.39	35.81	
8	0.00	0.00	0.00	0.00	0.07	0.35	0.07	6.96	5.10	37.59	4.46	1.39	56.00	
9	0.00	0.00	0.00	0.00	1.10	0.26	0.07	6.16	4.46	729.61	4.14	1.27	747.07	
10	0.00	0.00	0.00	0.00	0.35	0.07	0.07	5.43	3.53	605.81	3.83	1.27	620.37	
11	0.00	0.00	0.00	0.00	0.26	0.07	0.07	4.46	2.64	158.21	3.53	1.10	170.35	
12	0.00	0.00	0.00	0.00	0.26	0.00	0.00	3.83	2.50	78.35	3.53	1.10	89.58	
13	0.00	0.00	0.00	0.00	0.15	0.00	0.15	3.23	2.13	52.24	3.23	0.99	62.11	
14	0.00	0.00	0.00	0.00	0.15	0.00	0.35	2.64	2.00	30.82	2.93	0.99	39.88	
15	0.00	0.00	0.00	0.00	0.15	0.07	0.26	2.50	1.86	20.07	2.64	0.83	28.39	
16	0.00	0.00	0.00	0.00	0.15	0.07	0.26	2.00	2.13	14.07	2.64	0.72	22.04	
17	0.00	0.00	0.00	0.00	0.15	0.00	0.35	1.86	2.32	17.23	2.64	0.58	25.13	
18	0.00	0.00	0.00	0.00	0.07	0.00	0.83	1.69	1.86	34.66	2.64	0.58	42.34	
19	0.00	0.00	0.00	0.00	0.07	0.00	6.56	1.56	1.69	24.50	2.50	0.48	37.36	
20	0.00	0.00	0.00	0.00	0.07	0.00	7.79	1.56	1.56	18.64	2.50	0.48	32.60	
21	0.00	0.00	0.00	0.00	0.07	0.07	2.93	1.56	1.56	15.16	2.50	0.26	24.11	
22	0.00	0.00	0.00	0.26	0.07	0.07	2.00	1.39	1.56	14.07	2.64	0.26	22.32	
23	0.00	0.00	0.00	0.00	0.07	0.00	1.69	1.27	1.56	11.96	2.32	0.26	19.12	
24	0.00	0.00	0.00	0.00	0.07	0.00	1.56	1.27	1.86	10.93	2.13	0.26	18.08	
25	0.00	0.00	0.00	0.00	0.07	0.00	1.27	1.10	1.69	9.92	2.00	0.26	16.30	
26	0.00	0.00	0.00	0.00	0.07	0.00	5.10	0.99	1.56	9.05	1.10	0.15	18.03	
27	0.00	0.00	0.00	0.00	0.07	0.00	48.75	0.83	1.56	8.20	1.27	1.10	61.79	
28	0.00	0.00	0.00	0.00	0.07	0.15	11.44	0.72	1.39	7.79	1.27	0.58	23.41	
29	0.00	0.00	0.00	0.00	0.15	0.07	6.96	0.72	1.69	6.16		0.48	16.23	
30	0.00	0.00	0.00	0.00	0.15	0.00	19.35	0.58	1.39	6.16		0.48	28.11	
31		0.00		0.00	0.15		70.03		1.10	5.77		0.35	77.40	
Total	0.00	0.00	0.00	0.33	4.43	2.05	188.66	239.75	95.03	1936.64	93.20	25.19	2585.27	Tonday
Mean	0.00	0.00	0.00	0.01	0.14	0.07	6.09	7.99	3.07	62.47	3.33	0.81	83.98	Ton/day
Max	0.00	0.00	0.00	0.26	1.10	0.35	70.03	73.98	21.53	729.61	5.77	1.39	729.61	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.35	0.83	1.10	0.15	0.00	Ton/day

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

Ban Nong Ya Plong **Amphoe** Bang Saphan **Changwat** Prachuap Khiri Khan

Drainge Area	113 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	1998 - 2016
Number of observation	354
R-Square	0.8400
Remarks	Continued Sediment Station

$$QS = 3.2055\ QW^{1.47470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.23	0.06	0.03	0.30	0.00	0.06	0.03	160.39	0.54	1.15	35.02	20.25	218.07	
2	0.20	0.06	0.03	0.32	0.00	0.05	0.03	128.22	0.52	1.15	35.02	20.25	185.85	
3	0.18	0.08	0.03	0.16	0.00	0.04	0.09	50.66	0.49	1.15	34.21	20.25	107.34	
4	0.18	0.08	0.03	0.11	0.00	0.04	0.06	24.21	0.83	1.15	33.40	20.25	80.34	
5	0.16	0.08	0.03	0.14	0.02	0.03	0.04	16.76	50.66	1.58	32.60	20.85	122.94	
6	0.14	0.06	0.01	0.23	0.05	0.02	0.03	15.80	369.35	2.83	32.60	20.85	441.98	
7	0.14	0.06	0.00	0.30	0.12	0.02	0.03	39.60	95.91	3.69	31.80	20.85	192.53	
8	0.12	0.06	0.00	0.23	0.26	0.03	0.02	15.02	31.01	30.23	31.01	20.85	128.86	
9	0.14	0.06	0.01	0.21	0.52	0.02	0.03	10.25	15.80	2526.91	30.23	20.85	2605.04	
10	0.14	0.06	0.09	0.49	0.44	0.02	0.02	7.63	10.95	1261.47	29.46	20.85	1331.62	
11	0.14	0.06	0.00	0.39	0.26	0.01	0.02	6.12	8.26	246.42	28.69	20.25	310.61	
12	0.12	0.05	0.00	0.26	0.16	0.01	0.02	4.72	6.41	132.90	27.93	20.25	192.82	
13	0.09	0.05	0.00	0.18	0.11	0.01	0.03	3.69	5.38	108.00	27.17	19.65	164.35	
14	0.11	0.06	0.00	0.16	0.11	0.01	0.06	3.11	4.51	88.25	26.42	19.06	141.86	
15	0.11	0.06	0.00	0.18	0.18	0.01	0.08	2.57	3.69	72.65	25.68	19.65	124.85	
16	0.11	0.06	0.00	0.20	0.26	0.08	0.52	2.06	6.12	65.04	24.94	20.25	119.62	
17	0.09	0.06	0.00	0.14	0.16	0.09	0.77	1.82	4.30	76.04	24.21	20.25	127.93	
18	0.09	0.06	0.00	0.09	0.12	0.08	3.25	1.58	3.40	79.47	23.49	19.06	130.70	
19	0.09	0.06	0.00	0.06	0.11	0.05	6.41	1.36	2.70	63.80	23.49	18.48	116.62	
20	0.08	0.05	0.00	0.05	0.08	0.04	7.01	1.26	2.57	50.66	22.78	18.48	103.05	
21	0.08	0.06	0.00	0.04	0.06	0.03	0.77	1.09	2.31	45.02	22.78	17.90	90.13	
22	0.09	0.06	0.00	0.03	0.06	0.03	22.78	1.09	2.18	45.02	22.78	17.90	112.02	
23	0.09	0.08	0.00	0.02	0.05	0.04	28.69	0.96	2.18	43.92	22.07	17.33	115.42	
24	0.09	0.09	0.00	0.02	0.04	0.05	26.42	0.96	2.06	42.83	22.07	17.33	111.95	
25	0.09	0.09	0.00	0.01	0.03	0.03	3.40	0.89	1.93	41.74	21.46	17.33	87.00	
26	0.09	0.08	0.01	0.01	0.04	0.02	14.25	0.77	1.82	41.74	20.85	17.33	97.00	
27	0.11	0.05	0.04	0.00	0.46	0.01	93.94	0.71	1.58	40.67	20.85	18.48	176.91	
28	0.08	0.04	0.05	0.00	0.18	0.02	24.21	0.71	1.47	39.60	20.85	19.06	106.28	
29	0.05	0.03	0.08	0.00	0.11	0.01	12.75	0.71	1.47	38.54		19.06	72.81	
30	0.05	0.03	0.11	0.00	0.08	0.02	81.20	0.60	1.36	37.50		18.48	139.42	
31		0.03		0.00	0.08		236.92		1.26	36.66		18.48	293.42	
Total	3.48	1.91	0.54	4.34	4.13	0.95	563.86	505.30	643.01	5267.82	753.86	600.15	8349.36	Tonday
Mean	0.12	0.06	0.02	0.14	0.13	0.03	18.19	16.84	20.74	169.93	26.92	19.36	272.49	Ton/day
Max	0.23	0.09	0.11	0.49	0.52	0.09	236.92	160.39	369.35	2526.91	35.02	20.85	2526.91	Ton/day
Min	0.05	0.03	0.00	0.00	0.00	0.01	0.02	0.60	0.49	1.15	20.85	17.33	0.00	Ton/day

WATER YEAR : 2016

WEST COAST - GULF BASIN

Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

Ban Chang Laek **Amphoe** Bang Saphan Noi **Changwat** Prachuap Khiri Khan

Drainge Area	61 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	1998 - 2016
Number of observation	334
R-Square	0.8910
Remarks	Continued Sediment Station

$$QS = 3.2757\ QW^{1.61880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	0.00	0.00	0.03	0.08	0.14	0.01	141.95	0.07	0.01	0.07	0.00	142.36	
2	0.01	0.00	0.00	0.03	0.07	0.08	0.00	78.94	0.07	0.01	0.07	0.00	79.26	
3	0.01	0.00	0.00	0.03	0.08	0.14	0.00	40.39	0.07	0.00	0.05	0.00	40.77	
4	0.01	0.00	0.00	0.03	1.59	0.08	0.00	20.45	0.20	0.03	0.05	0.00	22.44	
5	0.00	0.00	0.00	0.05	1.59	0.80	0.00	11.74	138.17	0.14	0.05	0.00	152.55	
6	0.00	0.00	0.00	0.07	0.68	0.37	0.00	7.37	555.01	3.99	0.04	0.00	567.53	
7	0.00	0.00	0.00	0.04	0.93	0.14	0.00	4.95	103.09	4.95	0.04	0.00	114.14	
8	0.00	0.00	0.00	0.05	0.80	0.14	0.00	3.22	20.45	195.17	0.04	0.00	219.89	
9	0.00	0.00	0.00	0.05	0.68	0.08	0.00	2.52	8.03	1957.41	0.03	0.00	1968.81	
10	0.00	0.00	0.00	0.07	0.80	0.07	0.00	1.88	5.52	1934.86	0.03	0.00	1943.24	
11	0.00	0.00	0.00	0.07	0.80	0.04	0.00	1.59	3.22	251.00	0.03	0.00	256.76	
12	0.00	0.00	0.00	0.08	0.57	0.03	0.00	1.07	2.19	54.82	0.03	0.00	58.79	
13	0.00	0.00	0.00	0.08	0.47	0.03	0.01	0.80	1.32	27.23	0.03	0.00	29.96	
14	0.00	0.00	0.00	0.14	0.68	0.03	0.02	0.68	0.93	16.35	0.03	0.00	18.87	
15	0.00	0.00	0.00	0.80	0.80	0.20	0.03	0.57	0.57	10.14	0.02	0.00	13.14	
16	0.00	0.00	0.00	0.37	0.93	0.28	0.37	0.47	2.19	6.11	0.01	0.00	10.73	
17	0.00	0.00	0.00	0.08	0.68	0.14	0.47	0.47	1.32	21.75	0.01	0.00	24.90	
18	0.00	0.00	0.00	0.05	0.47	0.05	3.60	0.37	0.93	50.52	0.00	0.00	56.00	
19	0.00	0.00	0.00	0.03	0.28	0.03	5.52	0.28	0.68	13.51	0.00	0.00	20.35	
20	0.00	0.00	0.00	0.20	0.20	0.01	1.59	0.28	0.37	8.03	0.00	0.00	10.69	
21	0.00	0.00	0.00	0.57	0.14	0.00	0.57	0.20	0.14	5.52	0.00	0.00	7.14	
22	0.00	0.00	0.00	0.28	0.14	0.01	0.20	0.14	0.07	3.60	0.00	0.00	4.43	
23	0.00	0.00	0.00	0.07	0.14	0.00	0.08	0.14	0.07	2.86	0.00	0.00	3.35	
24	0.00	0.00	0.00	0.05	0.07	0.00	0.07	0.14	0.05	2.19	0.00	0.00	2.57	
25	0.00	0.00	0.01	0.04	0.05	0.00	0.05	0.14	0.04	1.59	0.00	0.00	1.94	
26	0.00	0.00	0.02	0.03	0.03	0.00	0.04	0.08	0.03	1.07	0.00	0.00	1.31	
27	0.00	0.00	0.03	0.04	0.03	0.00	0.07	0.08	0.03	0.57	0.00	0.08	0.93	
28	0.00	0.00	0.03	0.04	0.07	0.00	0.05	0.28	0.03	0.28	0.00	0.03	0.82	
29	0.00	0.00	0.05	0.03	0.37	0.00	0.04	0.28	0.02	0.20		0.03	1.04	
30	0.00	0.00	0.05	0.07	0.57	0.01	8.03	0.14	0.02	0.14		0.02	9.04	
31		0.00		0.20	0.37		216.86		0.01	0.08		0.01	217.54	
Total	0.04	0.00	0.20	3.82	15.19	2.90	237.67	321.60	844.89	4574.14	0.66	0.17	6001.28	Tonday
Mean	0.00	0.00	0.01	0.12	0.49	0.10	7.67	10.72	27.25	147.55	0.02	0.01	193.94	Ton/day
Max	0.01	0.00	0.05	0.80	1.59	0.80	216.86	141.95	555.01	1957.41	0.07	0.08	1957.41	Ton/day
Min	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2016

WEST COAST - GULF BASIN

Huai Sai at Ban Suan Son Huai Sai , Prachuap Khiri Khan (Gt.15)

Lat 11 - 40 - 33 N Long 99 - 41 - 44 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 342, Huai Sai.

Ban Suan Son Huai Sai **Amphoe** Mueang **Changwat** Prachuap Khiri Khan

Drainge Area	25 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2002-Cont'd
Actual Measurement	2002-Cont'd
Using Rating Curve Water Year	2002 - 2016
Number of observation	103
R-Square	0.8390
Remarks	Continued Sediment Station

$$QS = 8.1688\ QW^{1.46490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

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	4.74	0.24	0.07	0.72	0.13	5.91	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	0.24	0.05	0.72	0.13	5.58	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.32	0.05	0.72	0.10	3.32	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.32	0.05	0.66	0.10	2.02	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.37	0.05	0.66	0.10	2.01	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.51	0.03	0.66	0.10	2.01	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.56	0.05	0.66	0.10	2.09	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.46	2.79	0.56	0.10	4.57	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.46	120.53	0.56	0.07	122.18	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.32	77.61	0.56	0.07	79.12	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.24	17.77	0.51	0.07	19.10	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.20	12.00	0.51	0.07	13.29	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.17	6.77	0.51	0.05	8.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.17	4.15	0.46	0.05	5.28	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.13	3.31	0.46	0.05	4.41	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.13	2.54	0.46	0.05	3.54	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.13	4.74	0.37	0.05	5.66	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.13	6.77	0.37	0.05	7.64	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.13	4.15	0.37	0.05	5.02	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.13	2.54	0.32	0.03	3.34	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.10	1.98	0.32	0.03	2.67	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.10	1.61	0.24	0.03	2.22	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.10	1.20	0.24	0.03	1.81	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.10	1.01	0.20	0.03	1.58	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.10	0.89	0.17	0.03	1.42	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.07	0.89	0.17	0.03	1.39	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.24	0.07	0.89	0.13	0.07	1.43	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.24	0.07	0.83	0.13	0.10	1.40	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.20	0.07	0.83		0.07	1.23	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.20	0.07	0.83		0.05	1.52	
31		0.00		0.00	0.00		2.79		0.07	0.72		0.05	3.63	
Total	0.00	0.00	0.00	0.00	0.00	0.00	3.25	22.71	6.31	277.69	12.39	2.03	324.39	Tonday
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.76	0.20	8.96	0.44	0.07	10.53	Ton/day
Max	0.00	0.00	0.00	0.00	0.00	0.00	2.79	4.74	0.56	120.53	0.72	0.13	120.53	Ton/day
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.07	0.03	0.13	0.03	0.00	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

Ban Wang Phai **Amphoe** Mueang **Changwat** Chumphon

Drainge Area	296 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 48
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.9381
Remarks	Continued Sediment Station

$$QS = 1.0762\ QW^{1.55810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	0.66	4.67	11.52	15.70	10.46	31.31	1276.29	8.13	17.00	36.10	12.61	1426.25	
2	1.51	0.77	3.86	7.82	26.37	9.44	21.75	930.63	7.51	15.70	32.65	12.24	1070.25	
3	1.38	0.88	9.77	4.88	91.28	9.77	23.26	326.74	9.10	15.70	34.71	12.24	539.71	
4	1.12	0.66	3.86	3.86	307.67	26.37	26.91	150.29	171.03	57.60	35.40	12.24	797.01	
5	1.12	0.66	2.76	3.48	572.44	47.95	26.37	104.56	3618.25	503.36	29.08	10.46	4920.49	
6	1.00	0.66	2.43	5.52	198.07	22.25	29.08	154.36	4268.07	2879.71	26.91	7.51	7595.57	
7	1.00	0.66	2.11	372.80	106.95	21.26	25.32	97.69	2327.37	2161.34	24.80	6.31	5147.61	
8	1.00	0.66	1.66	172.45	109.35	23.26	22.25	71.43	907.88	1701.09	22.75	6.03	3039.81	
9	0.88	0.66	1.38	54.32	90.23	33.33	24.28	51.90	335.34	5524.17	21.26	5.75	6143.50	
10	0.66	0.66	1.12	114.21	91.28	20.28	19.32	46.41	172.45	2858.99	19.80	5.75	3350.93	
11	0.47	0.66	1.00	173.87	103.38	28.53	16.55	37.52	125.42	1410.07	19.32	5.75	1922.54	
12	0.38	0.66	0.77	49.52	397.78	19.80	14.51	29.63	84.37	577.69	19.80	8.78	1203.69	
13	0.38	0.66	0.77	47.95	320.34	31.31	14.12	26.37	65.25	316.10	18.38	8.78	850.41	
14	0.30	0.66	0.77	41.14	322.47	48.73	20.28	22.75	54.32	213.49	17.00	8.78	750.69	
15	0.30	0.66	1.95	30.74	546.49	111.77	70.53	20.28	62.66	143.59	16.10	8.78	1013.85	
16	0.30	0.66	2.11	21.75	361.63	93.40	61.81	18.38	56.77	127.96	15.30	8.78	768.85	
17	0.30	0.66	2.94	11.88	155.72	106.95	103.38	18.85	83.42	134.39	14.51	8.78	641.78	
18	0.30	0.66	3.30	10.11	89.18	143.59	140.94	15.70	59.27	3010.43	14.51	8.78	3496.77	
19	0.30	0.66	2.43	7.20	78.73	90.23	82.48	15.30	44.12	1039.57	14.12	8.78	1383.92	
20	0.38	0.66	1.95	7.82	108.15	70.53	55.95	17.00	36.10	368.32	13.36	8.78	689.00	
21	0.30	1.12	1.80	9.44	64.38	76.88	55.95	13.74	31.31	216.97	12.61	8.78	493.28	
22	0.30	2.11	1.95	6.31	45.64	69.64	139.62	12.24	27.98	154.36	11.88	8.78	480.81	
23	0.30	2.11	2.26	17.92	36.81	61.81	90.23	11.52	94.47	119.14	11.16	8.78	456.51	
24	0.30	3.48	3.11	10.81	37.52	54.32	135.69	11.16	166.81	109.35	10.81	8.78	552.14	
25	0.30	6.61	3.11	7.20	25.84	43.37	137.00	12.61	53.50	83.42	10.46	8.78	392.20	
26	0.30	4.06	2.94	5.75	21.26	36.81	80.60	10.11	36.10	71.43	9.77	8.78	287.91	
27	0.30	4.06	3.48	5.30	17.92	34.02	57.60	9.44	29.08	62.66	10.11	8.78	242.75	
28	0.30	3.11	18.38	5.52	15.30	28.53	45.64	9.10	25.32	55.13	18.38	8.78	233.49	
29	0.30	4.67	25.84	7.51	13.74	33.33	44.12	12.24	26.91	48.73		8.78	226.17	
30	0.30	7.82	37.52	17.00	13.36	25.84	63.52	9.10	21.26	43.37		8.78	247.87	
31		4.46		30.18	11.88		194.70		18.38	38.95		8.78	307.33	
Total	17.86	57.17	151.98	1275.78	4396.86	1433.75	1875.06	3543.34	13027.97	24079.78	541.05	272.42	50673.02	Tonday
Mean	0.60	1.84	5.07	41.15	141.83	47.79	60.49	118.11	420.26	776.77	19.32	8.79	138.83	Ton/day
Max	1.80	7.82	37.52	372.80	572.44	143.59	194.70	1276.29	4268.07	5524.17	36.10	12.61	5524.17	Ton/day
Min	0.30	0.66	0.77	3.48	11.88	9.44	14.12	9.10	7.51	15.70	9.77	5.75	0.30	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

Ban Tha Yai **Amphoe** Lan Saka **Changwat** Nakhon Si Thammarat

Drainge Area	105 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 48
Period of Available Records	1989 - 2009,2012 - Cont' d
Actual Measurement	1990 - 2009,2012 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	23
R-Square	0.8375
Remarks	Continued Sediment Station

$$QS = 0.4426\ QW^{1.90800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.37	1.99	13.95	4.96	8.65	4.96	17.40	185.79	15.97	475.89	39.30	11.45	785.69
2	5.80	1.99	14.61	8.14	8.65	5.80	19.64	33.79	1181.82	1515.46	39.30	10.86	2845.85
3	5.80	1.99	13.95	7.16	10.28	6.23	19.64	32.47	6145.38	2627.29	36.50	9.73	8916.41
4	5.80	1.99	13.30	6.69	10.28	6.23	19.64	36.50	2930.68	2481.52	65.75	8.65	5587.03
5	5.37	1.99	13.30	6.69	7.16	7.16	18.88	22.02	9178.42	25153.48	59.08	8.14	34481.68
6	5.37	1.99	11.45	6.69	7.64	7.16	18.88	10.28	1665.01	10626.08	41.11	7.64	12409.29
7	5.37	1.99	8.14	6.69	9.73	7.16	18.88	19.64	313.95	2553.91	33.79	7.64	2986.88
8	5.37	1.99	6.23	8.14	8.65	7.16	18.13	35.13	159.80	1407.70	19.64	7.16	1685.11
9	4.57	1.99	6.23	10.28	8.14	7.64	18.13	24.52	98.56	2182.53	11.45	7.16	2381.20
10	4.57	1.99	7.16	10.28	8.14	7.64	18.13	15.28	213.64	636.82	9.73	6.69	940.07
11	4.57	1.99	6.69	9.18	7.16	7.64	15.97	14.61	151.55	172.56	11.45	6.23	409.60
12	4.57	1.99	6.23	12.05	8.14	8.65	10.86	13.30	82.64	93.10	15.28	6.23	263.05
13	3.83	1.99	6.23	20.42	7.64	10.28	4.96	32.47	448.20	87.80	13.95	5.80	643.57
14	5.80	1.74	7.64	12.05	8.14	18.13	5.37	56.93	658.50	44.83	15.28	5.80	840.20
15	6.23	1.74	9.73	10.28	12.67	18.13	7.16	54.82	691.66	29.91	10.86	5.80	858.98
16	6.23	1.74	15.28	11.45	16.68	12.05	7.64	33.79	563.67	26.26	12.67	5.80	713.25
17	6.23	1.99	6.23	9.73	13.95	10.86	7.16	19.64	514.03	24.52	13.30	9.18	636.82
18	6.23	1.74	6.23	10.86	10.86	11.45	7.64	14.61	553.57	1146.00	12.05	13.95	1795.18
19	6.23	1.74	6.23	11.45	9.18	13.95	8.14	11.45	514.03	514.03	11.45	41.11	1148.97
20	6.23	1.74	5.80	10.28	7.64	18.13	8.14	11.45	658.50	1041.71	10.86	61.26	1841.73
21	6.23	1.51	5.80	9.73	8.14	15.97	9.18	13.30	1407.70	2270.31	9.73	68.05	3825.63
22	6.23	1.51	5.80	10.28	8.65	13.95	8.65	10.28	421.30	1273.65	9.18	131.84	1901.33
23	6.23	1.51	6.23	10.86	8.65	12.67	9.18	10.28	131.84	553.57	8.65	155.65	915.32
24	6.23	1.51	10.28	14.61	8.65	16.68	9.18	11.45	155.65	395.20	8.14	139.57	777.14
25	6.23	2.84	8.65	12.67	8.14	19.64	9.18	10.86	77.62	337.39	7.64	131.84	632.71
26	6.23	6.23	7.64	11.45	7.16	16.68	9.73	12.05	59.08	494.78	7.64	155.65	794.31
27	6.23	9.73	7.64	13.30	6.69	13.95	10.86	13.30	46.75	894.17	8.65	199.49	1230.75
28	3.83	9.73	7.64	13.30	6.23	13.95	10.28	12.05	48.71	248.47	11.45	199.49	585.12
29	1.99	10.28	1.51	11.45	5.37	13.30	16.68	12.67	54.82	113.44		194.87	436.37
30	1.99	9.73	1.51	9.18	5.37	12.67	75.17	10.86	59.08	75.17		185.79	446.52
31		10.28		9.18	4.96		636.82		63.49	48.71		176.92	950.37
Total	161.02	103.18	247.29	319.44	267.38	345.84	1075.32	795.57	29265.60	59546.24	553.85	1985.41	94666.14 Tonday
Mean	5.37	3.33	8.24	10.30	8.63	11.53	34.69	26.52	944.05	1920.85	19.78	64.05	3057.33 Ton/day
Max	6.23	10.28	15.28	20.42	16.68	19.64	636.82	185.79	9178.42	25153.48	65.75	199.49	25153.48 Ton/day
Min	1.99	1.51	1.51	4.96	4.96	4.96	4.96	10.28	15.97	24.52	7.64	5.80	1.51 Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

Ban Wang Kong **Amphoe** Mueang **Changwat** Nakhon Si Thammarat

Drainge Area	36 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 48
Period of Available Records	1989 - 2010,2014 - Cont' d
Actual Measurement	1989 - 2010,2014 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	21
R-Square	0.9718
Remarks	Continued Sediment Station

$$QS = 5.8968\ QW^{1.27220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.48	2.82	2.82	1.61	3.68	1.84	1.27	34.51	9.71	221.65	54.70	12.90	350.98	
2	3.48	2.82	2.82	1.61	3.68	2.69	0.16	19.40	308.77	125.16	30.94	12.46	513.99	
3	3.08	2.82	2.69	1.61	3.68	2.82	0.32	9.38	1163.70	360.20	26.52	13.34	1590.15	
4	3.08	2.82	2.69	1.72	3.48	2.57	0.40	6.27	521.60	513.78	84.01	12.46	1154.88	
5	3.08	2.82	2.69	1.72	3.48	2.57	0.67	6.05	870.85	1051.04	35.28	12.02	1992.25	
6	3.08	2.82	2.44	1.72	3.48	2.69	0.76	7.44	463.60	411.57	27.14	12.02	938.76	
7	3.08	2.82	2.44	1.72	3.48	2.69	0.86	9.05	123.44	422.02	23.45	12.02	607.06	
8	2.95	2.82	2.44	1.72	3.28	2.69	0.76	7.44	100.63	721.76	19.89	12.02	878.39	
9	2.95	2.82	2.44	1.72	3.28	2.82	0.76	6.50	117.00	329.74	17.01	12.02	499.07	
10	2.95	2.82	2.32	1.61	3.08	2.82	0.86	5.38	102.01	183.61	15.15	12.02	334.61	
11	2.95	2.82	2.32	1.84	3.08	2.57	1.49	9.05	55.67	193.84	13.79	12.02	301.43	
12	2.95	2.82	2.32	1.84	3.08	2.32	1.61	14.70	36.05	90.02	26.52	12.02	196.23	
13	2.95	2.82	2.32	4.09	3.08	2.20	2.32	15.62	26.52	57.62	25.28	12.02	156.82	
14	2.95	2.82	2.20	4.09	4.09	2.07	6.73	14.70	21.06	40.75	18.92	12.02	132.40	
15	2.95	2.82	2.20	4.09	3.68	2.07	7.44	16.54	17.49	30.94	15.62	12.02	117.84	
16	2.95	2.82	2.20	4.30	3.08	2.07	6.05	11.15	16.08	25.90	15.15	12.02	103.76	
17	2.95	2.82	2.20	4.30	3.08	2.20	5.82	10.05	17.49	43.96	43.15	12.02	150.01	
18	2.95	2.82	2.20	4.30	3.08	2.20	5.82	10.38	33.74	288.44	22.85	12.02	390.80	
19	2.95	2.82	2.07	4.30	3.08	2.82	6.97	9.05	18.44	277.45	29.03	12.02	370.99	
20	3.08	2.82	2.07	4.30	2.95	3.08	7.44	7.75	29.66	521.60	22.25	12.02	619.02	
21	3.08	2.82	1.96	5.16	2.95	2.82	7.44	9.38	158.93	369.44	24.67	12.02	600.66	
22	3.08	2.82	1.96	5.16	2.95	3.08	6.73	8.39	80.45	293.97	17.96	12.46	439.01	
23	3.08	2.82	1.96	10.72	2.95	3.08	5.38	8.07	58.72	573.01	14.70	11.15	695.64	
24	3.08	2.82	1.84	5.16	2.95	2.95	4.72	7.44	44.76	197.97	13.34	12.02	299.04	
25	3.08	2.82	1.84	3.08	2.82	2.95	4.30	6.73	32.98	103.39	12.46	12.02	188.46	
26	2.95	2.82	1.84	3.08	2.82	3.08	4.09	6.27	25.28	148.08	12.46	12.02	224.79	
27	2.95	2.82	1.72	2.32	2.82	3.08	3.88	6.05	19.89	214.66	12.46	12.02	284.66	
28	2.82	2.82	1.72	2.32	2.69	2.95	3.68	5.82	20.47	87.60	17.96	14.24	165.10	
29	2.82	2.82	1.72	3.08	2.69	2.82	4.51	5.16	17.96	54.70		30.30	128.58	
30	2.82	2.82	1.72	3.68	2.69	2.82	9.38	4.94	18.44	40.75		14.70	104.76	
31		2.82		3.68	2.69		23.45		22.85	32.98		12.02	100.49	
Total	90.56	87.42	66.15	101.62	97.86	79.42	136.06	298.64	4554.24	8027.63	692.65	398.38	14630.64	Tonday
Mean	3.02	2.82	2.21	3.28	3.16	2.65	4.39	9.95	146.91	258.96	24.74	12.85	474.93	Ton/day
Max	3.48	2.82	2.82	10.72	4.09	3.08	23.45	34.51	1163.70	1051.04	84.01	30.30	1163.70	Ton/day
Min	2.82	2.82	1.72	1.61	2.69	1.84	0.16	4.94	9.71	25.90	12.46	11.15	0.16	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Klai at Ban Hua Na , Nakhon Si Thammarat (X.149)

Lat 08 - 43 - 46 N Long 99 - 44 - 53 E

Location : on left bank at Ban Hua Na.

Ban Hua Na **Amphoe** Nopphitam **Changwat** Nakhon Si Thammarat

Drainge Area	475 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 48
Period of Available Records	1998 - 2006, 2012 - Cont' d
Actual Measurement	1998 - 2006, 2012 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.8988
Remarks	Continued Sediment Station

$$QS = 0.7690\ QW^{1.91570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.15	2.25	31.98	20.86	28.99	28.99	26.14	1861.42	721.17	4326.28	2165.51	721.17	9950.89
2	16.15	2.25	35.57	7.35	20.86	20.86	20.86	467.79	19528.77	4326.28	1861.42	3256.44	29564.58
3	14.01	2.25	18.43	5.34	26.14	14.01	163.38	296.89	111724.80	16495.73	1490.30	1414.38	131665.66
4	14.01	2.25	12.02	3.64	26.14	12.02	630.91	369.22	36144.97	74249.35	1960.34	675.32	114100.18
5	12.02	2.90	18.43	3.64	20.86	20.86	56.25	875.83	129052.22	343985.43	1490.30	430.66	475969.38
6	12.02	2.25	12.02	3.64	18.43	65.78	76.02	232.13	38033.26	139193.20	1129.76	320.16	179098.66
7	12.02	2.25	7.35	5.34	51.76	43.30	51.76	817.18	10404.65	58374.99	936.41	296.89	71003.91
8	12.02	1.67	7.35	70.81	35.57	26.14	56.25	369.22	3533.06	59617.45	817.18	252.87	64799.60
9	10.17	1.67	6.31	43.30	56.25	20.86	51.76	369.22	2061.70	32578.46	675.32	212.24	36087.27
10	10.17	1.18	6.31	39.35	31.98	20.86	39.35	212.24	5047.32	14220.14	587.95	175.02	20391.87
11	8.48	1.18	5.34	18.43	51.76	26.14	28.99	110.95	1670.93	8282.21	546.44	152.12	10902.96
12	8.48	0.77	6.31	141.25	26.14	152.12	23.42	84.16	817.18	6065.90	1063.39	141.25	8530.36
13	7.35	0.77	6.31	70.81	47.44	60.93	35.57	76.02	467.79	4680.16	630.91	120.66	6204.73
14	7.35	0.50	5.34	28.99	18.43	28.99	31.98	70.81	344.27	3985.72	546.44	152.12	5220.95
15	6.31	0.50	7.35	23.42	20.86	47.44	70.81	84.16	252.87	2990.61	430.66	130.76	4065.75
16	6.31	0.50	6.31	20.86	28.99	28.99	35.57	76.02	193.20	2491.52	546.44	120.66	3555.36
17	5.34	0.50	8.48	141.25	23.42	23.42	51.76	130.76	163.38	2380.42	675.32	141.25	3745.31
18	5.34	2.90	14.01	31.98	23.42	20.86	51.76	65.78	320.16	20058.02	430.66	110.95	21135.83
19	5.34	2.90	7.35	20.86	18.43	23.42	60.93	56.25	152.12	7243.55	467.79	92.70	8151.65
20	4.45	60.93	5.34	43.30	20.86	163.38	320.16	60.93	175.02	35218.07	320.16	84.16	36476.77
21	4.45	18.43	5.34	175.02	18.43	43.30	141.25	56.25	3533.06	14642.69	274.46	175.02	19087.71
22	4.45	6.31	4.45	56.25	18.43	130.76	101.63	51.76	1764.95	9774.66	252.87	130.76	12297.28
23	3.64	4.45	4.45	394.99	16.15	101.63	84.16	65.78	3393.40	17981.68	232.13	110.95	22393.41
24	3.64	212.24	5.34	65.78	47.44	47.44	92.70	56.25	1268.25	8865.01	232.13	76.02	10972.25
25	3.64	130.76	5.34	56.25	26.14	39.35	51.76	43.30	630.91	5427.71	212.24	65.78	6693.18
26	2.90	43.30	4.45	31.98	20.86	26.14	35.57	39.35	369.22	8282.21	163.38	60.93	9080.28
27	2.90	20.86	4.45	47.44	16.15	28.99	39.35	35.57	296.89	16984.24	1490.30	56.25	19023.39
28	2.90	16.15	3.64	43.30	12.02	23.42	130.76	28.99	252.87	6293.44	2271.75	84.16	9163.41
29	2.90	28.99	3.64	232.13	70.81	20.86	430.66	43.30	175.02	4154.33		130.76	5293.40
30	2.25	26.14	3.64	51.76	51.76	18.43	274.46	47.44	163.38	3122.17		70.81	3832.22
31		43.30		51.76	43.30		8865.01		252.87	2491.52		84.16	11831.92
Total	227.15	643.28	272.65	1951.08	938.18	1329.66	12130.92	7154.96	372909.70	938783.16	23901.97	10047.40	1370290.11 Tonday
Mean	7.57	20.75	9.09	62.94	30.26	44.32	391.32	238.50	12029.35	30283.33	853.64	324.11	44295.18 Ton/day
Max	16.15	212.24	35.57	394.99	70.81	163.38	8865.01	1861.42	129052.22	343985.43	2271.75	3256.44	343985.43 Ton/day
Min	2.25	0.50	3.64	3.64	12.02	12.02	20.86	28.99	152.12	2380.42	163.38	56.25	0.50 Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

Ban Wang Khrok **Amphoe** Tha Sae **Changwat** Chumphon

Drainge Area	1,814 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D - 48
Period of Available Records	1996 - Cont' d
Actual Measurement	1996 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	24
R-Square	0.8262
Remarks	Continued Sediment Station

$$QS = 1.7719\ QW^{1.48080}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.63	11.09	61.74	149.63	172.31	139.76	272.75	4104.59	102.58	163.11	210.68	172.31	5576.18	
2	16.43	24.24	133.31	139.76	215.66	126.96	181.66	7521.63	133.31	133.31	200.86	136.52	8963.65	
3	15.63	19.78	139.76	108.52	181.66	133.31	172.31	3879.37	111.53	120.71	225.71	136.52	5244.81	
4	12.54	16.43	93.89	96.76	837.59	154.08	172.31	1342.24	489.02	235.91	279.51	123.82	3854.10	
5	12.54	14.06	61.74	74.60	4333.90	857.04	196.00	926.25	7557.23	1665.38	235.91	105.54	16040.19	
6	12.54	13.29	45.11	66.79	1872.84	246.26	191.18	1383.09	18358.35	9460.26	186.40	149.63	31985.74	
7	12.54	11.09	74.60	2214.41	642.37	349.96	191.18	687.32	21015.19	15941.87	176.96	136.52	41454.01	
8	12.54	9.01	42.88	886.49	402.24	293.18	149.63	513.63	13591.05	11574.05	167.69	136.52	27778.91	
9	14.06	8.36	31.61	456.83	456.83	387.06	196.00	456.83	3636.44	22827.34	154.08	130.12	28755.56	
10	14.84	7.71	21.53	456.83	789.60	235.91	191.18	314.09	1383.09	29084.50	149.63	102.58	32751.49	
11	12.54	7.71	17.25	1042.64	837.59	230.79	146.31	272.75	1131.21	21413.67	146.31	93.89	25352.66	
12	11.09	7.71	16.43	521.92	696.42	181.66	139.76	191.18	651.28	11756.36	143.03	91.05	14407.89	
13	10.38	9.01	16.43	425.36	456.83	349.96	136.52	186.40	379.55	5304.62	120.71	102.58	7498.35	
14	10.38	8.36	14.84	417.61	607.13	314.09	225.71	286.32	314.09	2757.47	108.52	130.12	5194.64	
15	9.01	7.71	16.43	307.07	1248.47	876.64	696.42	196.00	364.66	1753.32	102.58	114.56	5692.87	
16	9.01	5.89	19.78	259.39	1438.18	521.92	761.25	146.31	379.55	1067.70	96.76	88.23	4793.97	
17	8.36	7.09	19.78	149.63	926.25	448.90	293.18	146.31	696.42	827.92	93.89	126.96	3744.69	
18	8.36	18.08	22.42	123.82	572.55	307.07	1564.65	146.31	464.81	6821.23	91.05	111.53	10251.88	
19	7.71	35.71	23.32	93.89	357.28	246.26	926.25	130.12	220.66	3968.96	91.05	99.66	6200.87	
20	7.71	47.38	24.24	82.69	349.96	215.66	818.28	130.12	196.00	1738.56	88.23	79.96	3778.79	
21	7.71	21.53	23.32	77.27	246.26	181.66	425.36	149.63	181.66	1235.26	91.05	79.96	2720.67	
22	7.71	15.63	32.96	96.76	210.68	215.66	293.18	133.31	186.40	1144.05	102.58	85.45	2524.37	
23	7.09	16.43	30.28	93.89	181.66	225.71	246.26	117.62	176.96	660.23	96.76	71.96	1924.85	
24	4.76	18.08	40.68	91.05	181.66	241.07	252.80	117.62	1369.43	513.63	93.89	71.96	2996.63	
25	5.89	56.81	74.60	88.23	149.63	235.91	425.36	117.62	335.46	456.83	93.89	64.24	2104.47	
26	5.89	71.96	79.96	85.45	143.03	172.31	246.26	105.54	205.75	409.90	93.89	61.74	1681.68	
27	5.32	93.89	91.05	82.69	130.12	149.63	215.66	102.58	186.40	387.06	85.45	71.96	1601.81	
28	7.09	49.69	220.66	82.69	133.31	133.31	321.16	111.53	176.96	364.66	154.08	186.40	1941.54	
29	14.84	35.71	210.68	108.52	133.31	230.79	321.16	117.62	167.69	272.75		196.00	1809.07	
30	11.81	49.69	266.04	123.82	120.71	246.26	246.26	111.53	158.57	252.80		172.31	1759.80	
31		47.38		172.31	133.31		642.37		149.63	235.91		123.82	1504.73	
Total	311.97	766.51	1967.33	9177.31	19159.35	8648.77	11258.37	24145.47	74470.94	154549.34	3881.13	3554.46	311890.95	Tonday
Mean	10.40	24.73	65.58	296.04	618.04	288.29	363.17	804.85	2402.29	4985.46	138.61	114.66	854.50	Ton/day
Max	16.43	93.89	266.04	2214.41	4333.90	876.64	1564.65	7521.63	21015.19	29084.50	279.51	196.00	29084.50	Ton/day
Min	4.76	5.89	14.84	66.79	120.71	126.96	136.52	102.58	102.58	120.71	85.45	61.74	4.76	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

Ban Sao Thong **Amphoe** Ron Phibun **Changwat** Nakhon Si Thammarat

Drainge Area	252 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 48
Period of Available Records	1998 - 2009 , 2012 - Cont'd
Actual Measurement	1998 - 2009 , 2012 - Cont'd
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.9230
Remarks	Continued Sediment Station

$$QS = 1.0984\ QW^{1.79570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.27	1.41	1.10	1.20	8.14	2.55	47.00	227.65	62.82	879.85	603.83	141.10	1978.93	
2	2.27	1.30	0.74	1.20	6.93	2.01	33.61	129.13	1421.59	3073.27	675.37	107.05	5454.47	
3	2.01	1.30	0.51	1.20	6.36	3.48	30.27	90.41	4983.98	3938.71	424.82	141.10	9624.16	
4	2.01	1.30	0.06	1.20	6.36	4.16	31.92	57.93	4983.98	4983.98	475.85	100.25	10649.02	
5	1.88	1.30	2.01	1.20	6.36	5.29	31.92	51.25	4947.01	5133.09	351.84	81.30	10614.47	
6	1.88	1.20	0.58	1.20	6.93	9.42	31.92	28.66	4512.89	5021.08	274.92	67.88	9958.57	
7	1.64	1.20	0.51	1.20	4.53	17.02	33.61	27.09	2769.39	5021.08	232.71	62.82	8172.79	
8	1.64	1.41	0.82	1.41	3.48	27.09	33.61	28.66	1346.96	4947.01	198.36	70.48	6660.93	
9	1.64	1.41	0.51	1.41	2.85	44.94	37.10	20.12	1161.31	4873.43	175.32	49.11	6369.14	
10	1.52	1.41	0.51	1.64	2.01	47.00	35.34	33.61	973.54	3726.29	153.55	42.92	5019.34	
11	1.52	1.41	0.58	1.88	3.48	53.44	30.27	18.03	1161.31	2466.34	121.41	39.00	3898.66	
12	1.41	1.41	0.66	4.90	3.16	53.44	31.92	21.21	522.15	1332.24	491.07	33.61	2497.18	
13	1.41	1.41	0.66	4.16	2.01	51.25	35.34	30.27	345.51	1109.19	586.81	33.61	2201.64	
14	1.41	1.41	0.66	3.16	2.01	49.11	39.00	81.30	258.72	1134.69	242.97	31.92	1846.35	
15	1.41	1.41	0.74	2.01	4.53	51.25	39.00	149.35	217.69	639.15	179.83	35.34	1321.70	
16	1.41	1.52	0.91	1.88	4.16	49.11	51.25	103.62	179.83	483.44	170.86	40.94	1088.93	
17	1.41	1.52	1.20	2.01	17.02	47.00	31.92	84.11	162.10	438.74	845.80	40.94	1673.77	
18	1.41	1.52	1.20	2.55	10.79	47.00	53.44	70.48	193.65	1467.23	320.70	39.00	2208.98	
19	1.41	1.52	1.10	3.48	8.14	47.00	65.33	75.80	153.55	3073.27	253.42	40.94	3724.96	
20	1.41	1.64	0.91	3.16	5.29	47.00	78.53	75.80	129.13	3637.06	175.32	44.94	4200.19	
21	1.41	1.64	1.10	3.48	4.53	47.00	81.30	70.48	1259.76	4836.83	141.10	55.66	6504.29	
22	1.41	1.88	0.82	3.16	4.53	49.11	67.88	70.48	1245.48	4092.76	117.63	81.30	5736.43	
23	1.41	1.88	0.66	21.21	3.48	49.11	70.48	75.80	1303.03	4763.98	117.63	44.94	6453.61	
24	1.41	1.88	0.58	2.01	3.48	49.11	73.12	44.94	1161.31	4061.89	100.25	39.00	5538.97	
25	1.41	1.76	0.02	16.03	2.85	51.25	70.48	37.10	522.15	2978.27	93.64	33.61	3808.58	
26	1.41	1.76	0.00	28.66	2.85	51.25	57.93	57.93	333.00	1836.00	87.24	51.25	2509.29	
27	1.41	2.01	0.06	37.10	2.85	51.25	55.66	31.92	253.42	4410.25	107.05	47.00	4999.99	
28	1.41	1.76	1.76	5.29	2.85	53.44	55.66	28.66	207.92	2403.43	212.78	184.38	3159.36	
29	1.41	1.76	1.20	19.06	2.85	53.44	121.41	27.09	175.32	1175.15		203.12	1781.81	
30	1.41	1.64	1.10	13.24	2.85	53.44	232.71	25.56	193.65	779.49		114.05	1419.14	
31		1.64		10.10	2.85		302.87		193.65	586.81		81.30	1179.22	
Total	47.13	47.67	23.22	201.39	150.48	1166.98	1991.82	1874.49	37335.80	89303.99	7932.06	2179.85	142254.88	Tonday
Mean	1.57	1.54	0.77	6.50	4.85	38.90	64.25	62.48	1204.38	2880.77	283.29	70.32	4619.63	Ton/day
Max	2.27	2.01	2.01	37.10	17.02	53.44	302.87	227.65	4983.98	5133.09	845.80	203.12	5133.09	Ton/day
Min	1.41	1.20	0.00	1.20	2.01	2.01	30.27	18.03	62.82	438.74	87.24	31.92	0.00	Ton/day

WATER YEAR : 2016

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.

Ban - **Amphoe** Lang Suan **Changwat** Chumphon

Drainge Area	1,406 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	2015 - Cont' d
Actual Measurement	2015 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	21
R-Square	0.8647
Remarks	Continued Sediment Station

$$QS = 0.0419\ QW^{2.17680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	845.91	358.02	415.09	643.77	391.72	427.06	845.91	5005.71	1030.13	1607.79	1258.01	1282.16	14111.27	
2	945.83	403.31	439.20	543.06	315.63	403.31	945.83	2136.41	1699.68	1548.06	826.64	1234.11	11441.09	
3	807.62	415.09	347.15	369.07	439.20	403.31	753.80	2332.99	3400.10	2497.00	1073.74	1331.19	14170.27	
4	705.50	489.64	336.46	347.15	5715.28	476.75	643.77	2332.99	7878.11	4560.79	925.36	865.41	25277.22	
5	674.25	451.54	305.48	305.48	6782.69	529.42	753.80	3087.53	20894.95	127093.33	807.62	585.09	162271.19	
6	689.78	427.06	249.34	241.39	1234.11	599.47	788.84	1668.75	46317.64	878860.47	885.15	570.89	932532.89	
7	674.25	439.20	266.67	585.09	1187.06	2136.41	753.80	1794.34	66397.56	338289.56	945.83	643.77	414113.56	
8	614.05	439.20	218.40	1607.79	1577.77	1518.65	614.05	1548.06	10854.27	51529.93	753.80	737.51	72013.51	
9	628.82	315.63	203.76	905.14	1141.00	905.14	529.42	1826.51	3507.91	135992.50	689.78	753.80	147399.41	
10	556.88	380.30	218.40	628.82	3138.49	658.92	489.64	2174.98	2060.39	104682.06	1008.69	721.41	116718.98	
11	529.42	358.02	276.11	476.75	3346.87	451.54	643.77	1356.08	2798.58	21951.49	1699.68	543.06	34431.38	
12	502.72	369.07	225.93	464.05	2332.99	529.42	628.82	1141.00	1406.62	7878.11	1992.01	529.42	18000.15	
13	464.05	427.06	218.40	1924.88	1460.75	1030.13	737.51	1073.74	945.83	4193.24	1548.06	476.75	14500.41	
14	502.72	439.20	211.01	3400.10	3453.78	737.51	1073.74	1141.00	1095.91	3138.49	1460.75	489.64	17143.86	
15	570.89	403.31	241.39	865.41	11250.89	826.64	2136.41	1163.91	1118.33	2455.43	1331.19	464.05	22827.86	
16	570.89	439.20	276.11	599.47	6406.25	674.25	2623.98	1258.01	1891.78	2026.05	1210.46	502.72	18479.18	
17	628.82	515.98	305.48	403.31	2937.34	737.51	1891.78	1073.74	6975.27	4074.42	1141.00	556.88	21241.53	
18	614.05	476.75	233.59	347.15	1794.34	807.62	3957.45	966.54	11117.83	65886.09	1073.74	515.98	87791.14	
19	614.05	464.05	189.67	380.30	2623.98	845.91	5005.71	966.54	2754.36	9515.73	1008.69	543.06	24912.05	
20	945.83	347.15	315.63	369.07	2253.23	925.36	3957.45	925.36	1762.48	3294.10	753.80	556.88	16406.35	
21	614.05	211.01	203.76	380.30	1432.26	1668.75	3087.53	788.84	1432.26	2667.06	628.82	464.05	13578.68	
22	585.09	128.70	165.51	439.20	945.83	2174.98	1607.79	705.50	945.83	2174.98	658.92	476.75	11009.08	
23	585.09	233.59	295.51	489.64	689.78	1638.12	966.54	705.50	689.78	2455.43	689.78	658.92	10097.68	
24	674.25	1187.06	249.34	380.30	845.91	2060.39	1095.91	737.51	845.91	2888.17	643.77	502.72	12111.24	
25	585.09	2253.23	305.48	614.05	599.47	2026.05	1306.55	788.84	599.47	1891.78	721.41	543.06	12234.48	
26	515.98	1163.91	257.42	305.48	614.05	1163.91	1460.75	885.15	614.05	5314.80	1073.74	628.82	13998.05	
27	515.98	826.64	176.95	391.72	556.88	1030.13	925.36	826.64	556.88	29439.23	1460.75	925.36	37632.53	
28	529.42	325.96	266.67	415.09	515.98	945.83	1258.01	1258.01	515.98	4313.90	1924.88	925.36	13195.10	
29	599.47	464.05	403.31	865.41	529.42	1030.13	1891.78	1548.06	529.42	1794.34		1095.91	10751.33	
30	614.05	439.20	987.49	628.82	614.05	788.84	1794.34	987.49	614.05	1406.62		643.77	9518.73	
31		347.15		599.47	451.54		2455.43		451.54	1518.65		753.80	6577.59	
Total	18904.79	15939.31	8804.72	20916.75	67578.53	30151.46	47625.51	44205.74	203702.92	1826939.62	30196.12	21522.32	2336487.78	Tonday
Mean	630.16	514.17	293.49	674.73	2179.95	1005.05	1536.31	1473.52	6571.06	58933.54	1078.43	694.27	75584.69	Ton/day
Max	945.83	2253.23	987.49	3400.10	11250.89	2174.98	5005.71	5005.71	66397.56	878860.47	1992.01	1331.19	878860.47	Ton/day
Min	464.05	128.70	165.51	241.39	315.63	403.31	489.64	705.50	451.54	1406.62	628.82	464.05	128.70	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA EAST COAST

Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)

Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

Ban Hat Nai **Amphoe** Tha Sae **Changwat** Chumphon

Drainge Area	691 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	2006 - Cont' d
Actual Measurement	2006 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	22
R-Square	0.8116
Remarks	Continued Sediment Station

$$QS = 3.4496\ QW^{1.17390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.12	48.48	108.02	118.89	138.27	127.14	143.88	654.25	92.02	94.66	110.72	129.91	1771.34	
2	5.12	48.48	97.31	99.97	135.47	118.89	141.07	461.72	92.02	94.66	108.02	102.64	1505.36	
3	5.12	46.68	89.39	89.39	1281.39	113.44	135.47	304.87	629.65	97.31	105.33	152.36	3050.40	
4	5.12	44.90	81.57	108.02	1612.14	186.97	132.69	224.05	1511.95	297.02	108.02	102.64	4415.08	
5	5.12	44.90	74.50	116.16	672.78	176.04	143.88	205.38	1342.90	1083.37	99.97	92.02	4057.03	
6	5.12	44.90	68.79	129.91	328.60	183.31	146.70	197.99	1053.06	1612.14	99.97	161.63	4032.12	
7	5.12	43.13	65.02	155.20	231.59	168.81	141.07	190.63	635.79	685.18	92.02	108.02	2521.57	
8	5.12	63.15	63.15	197.99	239.16	186.97	138.27	186.97	312.75	1538.91	86.77	143.88	3163.06	
9	5.12	59.43	59.43	258.23	227.81	205.38	138.27	172.42	265.93	3505.95	84.17	102.64	5084.78	
10	5.12	57.58	53.91	353.39	209.10	194.30	132.69	143.88	172.42	1159.68	81.57	89.39	2653.03	
11	4.27	52.09	50.28	348.57	224.05	186.97	129.91	135.47	183.31	648.08	78.99	84.17	2126.16	
12	4.27	41.37	44.90	190.63	231.59	179.67	129.91	132.69	194.30	416.89	76.42	81.57	1724.20	
13	4.27	31.05	48.48	168.81	235.37	176.04	143.88	124.38	201.68	312.75	74.50	89.39	1610.59	
14	4.27	21.22	57.58	152.36	239.16	168.81	161.63	118.89	158.05	224.05	72.59	78.99	1457.60	
15	4.27	18.08	63.15	138.27	273.65	165.21	190.63	113.44	146.70	190.63	70.69	78.99	1453.69	
16	4.27	24.43	68.79	127.14	293.10	158.05	176.04	110.72	149.53	332.58	68.79	94.66	1608.10	
17	4.27	32.74	63.15	108.02	258.23	158.05	168.81	105.33	152.36	289.20	66.90	124.38	1531.44	
18	4.27	41.37	61.28	99.97	179.67	158.05	161.63	99.97	132.69	231.59	66.90	127.14	1364.53	
19	4.27	57.58	59.43	97.31	165.21	152.36	155.20	94.66	129.91	194.30	65.02	89.39	1264.64	
20	4.27	63.15	55.74	92.02	155.20	146.70	149.53	94.66	127.14	168.81	63.15	78.99	1199.35	
21	3.45	66.90	55.74	84.17	152.36	135.47	143.88	94.66	124.38	165.21	63.15	74.50	1163.87	
22	3.45	70.69	53.91	81.57	149.53	124.38	138.27	92.02	165.21	165.21	59.43	70.69	1174.35	
23	3.45	72.59	61.28	81.57	146.70	116.16	135.47	99.97	186.97	161.63	59.43	74.50	1199.71	
24	2.65	74.50	74.50	81.57	138.27	108.02	138.27	99.97	161.63	161.63	61.28	68.79	1171.08	
25	2.65	84.17	94.66	94.66	132.69	127.14	138.27	97.31	138.27	149.53	59.43	63.15	1181.90	
26	2.65	92.02	118.89	110.72	124.38	124.38	138.27	97.31	135.47	143.88	70.69	59.43	1218.09	
27	2.65	89.39	127.14	110.72	121.63	124.38	135.47	97.31	127.14	138.27	94.66	61.28	1230.05	
28	2.65	81.57	138.27	105.33	113.44	127.14	138.27	97.31	108.02	132.69	138.27	108.02	1290.96	
29	2.65	74.50	152.36	99.97	113.44	129.91	146.70	94.66	102.64	127.14		97.31	1141.28	
30	2.65	78.99	155.20	113.44	110.72	127.14	161.63	94.66	99.97	121.63		99.97	1166.01	
31		74.50		143.88	110.72		161.63		97.31	110.72		84.17	782.93	
Total	122.86	1744.50	2365.80	4257.83	8745.40	4555.29	4537.24	4837.52	9131.17	14755.27	2286.82	2974.60	60314.32	Tonday
Mean	4.10	56.27	78.86	137.35	282.11	151.84	146.36	161.25	294.55	475.98	81.67	95.95	1966.30	Ton/day
Max	5.12	92.02	155.20	353.39	1612.14	205.38	190.63	654.25	1511.95	3505.95	138.27	161.63	3505.95	Ton/day
Min	2.65	18.08	44.90	81.57	110.72	108.02	129.91	92.02	92.02	94.66	59.43	59.43	2.65	Ton/day

WATER YEAR : 2016

TAPI RIVER BASIN

Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

Ban Tha Khanon **Amphoe** Khiri Ratnikhom **Changwat** Surat Thani

Drainge Area	2,968 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	1989 - Cont' d
Actual Measurement	1989 - 1999 , 2003-2005, 2012 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	13
R-Square	0.7919
Remarks	Continued Sediment Station

$$QS = 1.6054\ QW^{1.33390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	469.57	529.02	961.29	658.79	1251.28	1578.46	3364.64	1483.06	647.23	723.29	545.54	1099.50	13311.68	
2	336.55	635.72	1473.60	618.55	1719.38	1842.00	3684.95	2074.07	919.06	664.59	512.64	885.63	15366.74	
3	376.29	496.38	2308.87	635.72	1730.44	2125.70	3750.48	1664.36	5473.07	658.79	448.40	464.26	20132.75	
4	443.15	545.54	1955.27	670.41	2335.34	2536.27	4254.00	1188.19	7639.52	682.07	534.52	556.62	23340.89	
5	485.61	607.17	1188.19	1492.53	2782.74	3048.96	4439.83	2361.89	3134.28	1530.57	590.20	850.45	22512.43	
6	540.02	590.20	1454.73	2099.84	2190.68	3652.30	4741.24	1609.78	2125.70	2024.04	464.26	831.97	22324.75	
7	545.54	658.79	1989.58	1152.51	2001.05	4217.07	3734.07	1989.58	1549.68	1251.28	567.76	1055.81	20712.72	
8	595.84	699.66	2024.04	1943.87	1978.12	4665.42	3619.72	2428.59	1047.13	2048.37	1073.24	986.84	23110.84	
9	540.02	641.47	2335.34	9048.33	2686.21	3965.40	3766.90	2024.04	759.09	9048.33	1003.98	741.13	36560.25	
10	507.20	437.91	2112.76	8702.09	3668.61	3321.14	4383.87	3006.52	1763.73	8514.67	1064.52	935.89	38418.91	
11	458.96	545.54	1752.61	2699.95	4627.63	3120.02	4099.14	2604.16	1642.47	2755.07	910.68	869.03	26085.26	
12	386.40	647.23	1875.80	2035.55	4882.61	2741.26	4309.54	2061.21	1003.98	1407.82	376.29	664.59	22392.29	
13	437.91	664.59	1417.17	2335.34	4132.75	2282.47	3466.70	1730.44	676.23	1081.97	269.80	693.78	19189.17	
14	361.26	735.17	1609.78	3034.80	4183.29	2388.52	2782.74	1966.69	578.95	885.63	411.95	1038.46	19977.24	
15	386.40	693.78	1620.66	2824.37	4065.60	2824.37	2216.81	1819.55	556.62	838.12	496.38	1269.46	19612.12	
16	321.94	717.36	1955.27	2361.89	3466.70	3636.00	1653.41	1426.54	1012.57	795.32	578.95	1233.17	19159.12	
17	376.29	711.45	1631.56	1887.10	4346.66	4309.54	1197.15	1134.77	1502.02	753.09	534.52	1047.13	19431.28	
18	321.94	607.17	1786.00	1197.15	3865.83	4149.58	1887.10	1125.93	1206.13	838.12	765.10	687.92	18437.99	
19	366.25	518.08	1588.08	1642.47	3495.99	4514.71	2880.11	777.15	753.09	789.25	850.45	448.40	18624.07	
20	386.40	534.52	1445.32	2125.70	3220.19	5448.47	6223.52	807.49	612.85	717.36	432.69	302.72	22257.21	
21	437.91	601.50	1492.53	1943.87	2658.79	6071.51	5646.00	735.17	919.06	753.09	1361.30	453.67	23074.41	
22	573.35	795.32	1664.36	2164.63	2282.47	5945.56	4439.83	927.47	1206.13	641.47	1117.10	952.80	22710.49	
23	573.35	927.47	2086.95	1620.66	2308.87	4533.48	6122.07	729.22	877.32	607.17	978.31	978.31	22343.18	
24	453.67	1631.56	1943.87	1609.78	4183.29	4015.43	4309.54	844.28	1179.25	687.92	1073.24	952.80	22884.62	
25	480.25	2894.09	2203.74	2048.37	3466.70	3379.17	4235.52	789.25	1012.57	573.35	838.12	1426.54	23347.68	
26	386.40	3652.30	2243.02	1909.76	2631.44	3481.34	3982.06	534.52	641.47	507.20	534.52	1620.66	22124.67	
27	443.15	2645.10	1774.85	2375.19	1966.69	3263.36	3452.07	687.92	910.68	856.63	422.29	1117.10	19915.04	
28	464.26	2099.84	1483.06	2838.28	1521.04	3034.80	3162.85	647.23	534.52	735.17	944.34	1306.00	18771.39	
29	376.29	1417.17	1038.46	2964.23	1134.77	3277.78	1966.69	578.95	545.54	540.02		1719.38	15559.30	
30	386.40	969.79	1188.19	2388.52	1568.85	3134.28	1609.78	523.55	411.95	540.02		1864.52	14585.85	
31		1073.24		2308.87	1808.35		850.45		601.50	629.98		1786.00	9058.39	
Total	13218.58	30924.14	51604.94	73339.13	88162.38	106504.35	110232.76	42281.58	43443.40	45079.81	19701.06	30840.59	655332.73	Tonday
Mean	440.62	997.55	1720.16	2365.78	2843.95	3550.15	3555.90	1409.39	1401.40	1454.19	703.61	994.86	21437.54	Ton/day
Max	595.84	3652.30	2335.34	9048.33	4882.61	6071.51	6223.52	3006.52	7639.52	9048.33	1361.30	1864.52	9048.33	Ton/day
Min	321.94	437.91	961.29	618.55	1134.77	1578.46	850.45	523.55	411.95	507.20	269.80	302.72	269.80	Ton/day

WATER YEAR : 2016

TAPI RIVER BASIN

Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

Ban Yan Din Daeng **Amphoe** Phrasaeng **Changwat** Surat Thani

Drainge Area	5,383 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	1990 - Cont' d
Actual Measurement	1990 - 2000 , 2002 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	14
R-Square	0.7461
Remarks	Continued Sediment Station

$$QS = 7.4961\ QW^{1.00340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.19	114.24	2200.85	734.70	1679.66	1885.01	2762.35	2500.72	1275.35	1263.11	3181.44	795.82	18523.46
2	127.91	109.69	2055.18	973.93	1305.97	1864.32	2652.63	2635.75	1191.94	1465.21	3091.62	795.82	18269.96
3	125.63	105.13	1802.25	993.81	1111.60	1649.02	2652.63	2703.27	2055.18	1802.25	2961.90	772.90	18735.57
4	127.91	123.35	1483.59	719.42	1170.51	1385.58	2610.43	2677.95	2821.44	2039.84	2787.68	757.62	18705.33
5	132.46	114.24	1090.18	494.21	1318.22	1186.58	2526.04	2551.36	3363.41	2382.60	2610.43	700.33	18470.06
6	152.98	107.41	918.88	402.69	1318.22	1063.41	2526.04	2391.04	3801.20	2787.68	2399.47	627.78	18496.79
7	166.66	116.52	643.05	620.14	1181.23	1197.29	2576.67	2231.52	4148.48	3421.01	2154.84	581.97	19039.38
8	166.66	118.80	460.65	1275.35	1095.54	1612.25	2661.07	2131.84	4422.84	4226.86	1933.30	612.51	20717.66
9	164.38	118.80	405.74	1789.99	1100.89	1850.53	2770.80	2170.18	4383.64	4710.33	1747.08	623.96	21836.31
10	159.82	118.80	356.96	2131.84	1095.54	2032.18	2875.93	2170.18	4123.89	5538.51	1575.49	562.89	22742.02
11	150.70	134.74	329.53	2526.04	1159.80	2193.18	2991.83	2078.17	3847.29	5644.66	1403.96	513.29	22973.19
12	141.58	155.26	299.06	2635.75	1459.08	2289.80	3061.68	2032.18	3616.85	5080.92	1348.84	494.21	22615.20
13	134.74	143.86	286.87	2694.83	1722.57	2306.67	3021.77	1960.89	3409.49	4579.64	1385.58	471.33	22118.24
14	130.19	139.30	296.01	2728.59	1960.89	2200.85	2951.92	1850.53	3221.37	4148.48	1342.71	454.55	21425.37
15	130.19	164.38	326.48	2703.27	2116.51	1988.48	2857.51	1759.34	3041.72	3685.98	1229.43	430.14	20433.44
16	130.19	162.10	286.87	2559.79	2231.52	1740.95	2804.56	1600.00	2829.89	3421.01	1133.02	405.74	19305.64
17	127.91	143.86	267.08	2264.49	2357.29	1520.35	2770.80	1410.08	2568.23	3253.61	1079.47	402.69	18165.86
18	123.35	198.59	411.84	2062.84	2433.22	1391.71	2796.12	1229.43	2298.24	3111.58	1111.60	436.24	17604.77
19	125.63	299.06	547.62	1953.99	2399.47	1299.85	2829.89	1165.16	2024.51	2981.85	1186.58	494.21	17307.82
20	121.07	269.36	757.62	1836.73	2208.51	1224.08	2894.35	1143.73	1836.73	2921.98	1269.23	562.89	17046.30
21	118.80	228.26	420.99	1734.82	1981.59	1287.60	2991.83	1428.46	1796.12	2931.96	1336.59	658.32	16915.33
22	118.80	109.69	381.35	1581.62	1777.73	1679.66	3091.62	1636.76	1995.38	2981.85	1385.58	788.18	17528.22
23	116.52	141.58	396.59	1483.59	1526.47	2154.84	3171.46	1520.35	2177.84	3131.54	1367.21	863.84	18051.83
24	116.52	308.20	414.89	1563.23	1403.96	2483.85	3171.46	1728.69	2281.36	3285.86	1218.72	746.16	18722.91
25	116.52	658.32	424.04	1612.25	1410.08	2745.47	3111.58	1933.30	2256.06	3478.60	1084.83	631.59	19462.65
26	123.35	918.88	405.74	1716.44	1434.58	2941.94	3041.72	2032.18	2177.84	3444.04	955.58	539.99	19732.30
27	121.07	1202.65	338.67	1593.87	1318.22	3011.79	3001.81	2101.17	2055.18	3444.04	877.60	505.66	19571.73
28	111.96	1410.08	317.34	1452.96	1240.15	3011.79	2921.98	2062.84	1783.86	3397.97	818.75	589.60	19119.29
29	116.52	1740.95	292.97	1569.36	1379.46	2991.83	2770.80	1885.01	1581.62	3374.93		665.96	18369.40
30	118.80	2116.51	326.48	1885.01	1636.76	2903.56	2593.55	1575.49	1422.33	3318.11		688.87	18585.47
31		2256.06		1933.30	1857.42		2458.53		1287.60	3264.36		734.70	13791.98
Total	3948.97	14048.64	18945.38	52228.88	49392.66	59094.43	87921.37	58297.56	81096.89	104520.39	45978.54	18909.76	594383.47 Tonday
Mean	131.63	453.18	631.51	1684.80	1593.31	1969.81	2836.17	1943.25	2616.03	3371.63	1642.09	609.99	19483.42 Ton/day
Max	166.66	2256.06	2200.85	2728.59	2433.22	3011.79	3171.46	2703.27	4422.84	5644.66	3181.44	863.84	5644.66 Ton/day
Min	111.96	105.13	267.08	402.69	1095.54	1063.41	2458.53	1143.73	1191.94	1263.11	818.75	402.69	105.13 Ton/day

WATER YEAR : 2016

TAPI RIVER BASIN

Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)

Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

Location : on left bank at Ban Tha Pho.

Ban Tha Pho **Amphoe** Chawang **Changwat** Nakhon Si Thammarat

Drainge Area	488 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 48
Period of Available Records	1998 - Cont'd
Actual Measurement	1998 - 2002, 2005-2006, 2011 - Cont'd
Using Rating Curve Water Year	2016
Number of observation	13
R-Square	0.7090
Remarks	Continued Sediment Station

$$QS = 1.5349\ QW^{1.55420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.09	2.31	43.50	171.64	134.03	195.94	327.16	1320.35	200.94	1417.14	887.14	186.08	4895.32
2	10.33	3.06	45.88	146.20	130.06	163.00	314.33	887.14	540.28	2546.32	777.95	167.30	5731.85
3	32.93	3.06	61.09	134.03	146.20	142.10	347.06	756.08	4722.10	2185.33	691.81	176.41	9398.20
4	66.49	3.89	50.78	130.06	163.00	134.03	320.72	599.29	6768.58	8687.85	639.82	130.06	17694.57
5	80.71	6.78	41.16	122.25	171.64	130.06	347.06	619.44	5103.78	14554.97	569.51	114.61	21861.95
6	80.71	10.33	34.87	122.25	150.34	146.20	681.30	502.17	6137.65	13065.41	521.10	103.48	21555.79
7	86.66	10.33	34.87	158.74	158.74	195.94	713.00	511.60	2144.17	8896.63	476.09	77.79	13464.55
8	63.77	11.63	32.93	320.72	146.20	195.94	745.23	549.96	1195.14	8563.43	451.41	69.26	12345.61
9	34.87	11.63	31.03	289.24	171.64	226.73	660.44	404.00	938.34	6804.28	492.80	63.77	10128.77
10	25.57	11.63	38.87	254.20	181.22	226.73	530.66	347.06	1320.35	4420.37	327.16	58.45	7742.27
11	22.15	10.33	34.87	254.20	232.14	216.20	492.80	295.45	938.34	3126.38	314.33	55.85	5993.03
12	20.50	10.33	32.93	382.29	216.20	237.59	467.81	271.22	734.43	2164.71	427.21	53.29	5018.50
13	23.84	10.33	45.88	1030.37	368.05	271.22	427.21	259.83	502.17	1652.32	476.09	50.78	5118.07
14	25.57	10.33	50.78	619.44	333.63	259.83	404.00	283.09	443.29	1320.35	427.21	48.31	4225.82
15	18.90	11.63	43.50	375.15	327.16	254.20	492.80	259.83	404.00	1257.19	354.01	48.31	3846.66
16	15.84	12.98	45.88	295.45	354.01	248.62	521.10	216.20	375.15	1097.96	354.01	48.31	3585.49
17	14.39	12.98	58.45	484.42	320.72	221.37	589.30	200.94	382.29	938.34	511.60	58.45	3793.24
18	14.39	14.39	72.06	301.70	265.50	221.37	639.82	176.41	411.33	1739.39	451.41	50.78	4358.54
19	14.39	15.84	63.77	254.20	243.08	243.08	670.84	167.30	382.29	2373.99	435.22	45.88	4909.88
20	11.63	18.90	55.85	226.73	265.50	248.62	777.95	167.30	375.15	3592.88	354.01	48.31	6142.81
21	7.90	15.84	53.29	232.14	259.83	307.99	766.99	150.34	836.98	7056.00	195.94	69.26	9952.49
22	6.78	14.39	55.85	248.62	232.14	435.22	691.81	142.10	766.99	3619.47	176.41	61.09	6450.84
23	5.75	15.84	89.70	521.10	216.20	639.82	609.33	142.10	723.69	4137.77	150.34	63.77	7315.41
24	4.79	27.35	96.29	320.72	221.37	451.41	681.30	134.03	660.44	3151.69	142.10	61.09	5952.58
25	4.79	48.31	89.70	276.98	190.99	382.29	912.61	134.03	521.10	1883.49	126.13	61.09	4631.50
26	3.89	32.93	80.71	134.03	163.00	549.96	660.44	200.94	404.00	1516.35	130.06	69.26	3945.58
27	3.89	32.93	77.79	150.34	150.34	609.33	589.30	200.94	368.05	4193.76	154.52	66.49	6597.67
28	3.06	32.93	74.90	142.10	138.04	459.58	549.96	190.99	354.01	2568.16	265.50	86.66	4865.92
29	3.06	53.29	74.90	289.24	130.06	411.33	650.10	186.08	295.45	1652.32		86.66	3832.50
30	3.06	48.31	99.86	186.08	254.20	368.05	629.60	181.22	451.41	1257.19		92.77	3571.76
31		58.45		171.64	226.73		1070.74		530.66	1030.37		83.66	3172.25
Total	719.70	583.24	1711.93	8746.24	6661.94	8793.78	18282.78	10457.42	39932.53	122471.80	11280.87	2457.22	232099.45 Tonday
Mean	23.99	18.81	57.06	282.14	214.90	293.13	589.77	348.58	1288.15	3950.70	402.89	79.27	7549.38 Ton/day
Max	86.66	58.45	99.86	1030.37	368.05	639.82	1070.74	1320.35	6768.58	14554.97	887.14	186.08	14554.97 Ton/day
Min	3.06	2.31	31.03	122.25	130.06	130.06	314.33	134.03	200.94	938.34	126.13	45.88	2.31 Ton/day

WATER YEAR : 2016

TAPI RIVER BASIN

Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)

Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

Ban Bang Rup **Amphoe** Phrasaeng **Changwat** Surat Thani

Drainge Area	866 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	2009 - Cont' d
Actual Measurement	2009 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.7010
Remarks	Continued Sediment Station

$$QS = 7.8276\ QW^{1.22540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.45	1.94	511.67	27.16	296.28	435.19	726.82	527.23	853.44	426.17	1540.88	147.83	5502.04	
2	7.45	1.94	628.78	157.77	254.19	365.00	583.95	564.93	880.80	502.37	1515.57	141.27	5604.01	
3	7.07	1.94	456.37	113.09	205.63	334.90	480.80	549.16	940.62	609.49	1458.92	134.76	5292.75	
4	7.07	1.94	267.35	67.19	176.29	239.36	542.88	542.88	1440.12	680.75	1365.39	127.03	5458.25	
5	6.69	1.94	164.46	46.49	309.81	233.97	625.56	536.61	1547.22	987.12	1309.83	123.20	5892.90	
6	6.69	1.94	137.36	77.88	493.11	309.81	690.57	533.48	2125.18	1240.07	1269.36	121.93	7007.37	
7	6.32	1.94	129.60	276.20	593.50	334.90	772.33	533.48	2825.70	1668.55	1191.55	118.12	8452.18	
8	6.32	1.94	125.75	596.70	574.42	367.33	808.19	530.35	3005.24	2200.71	1001.15	110.58	9328.69	
9	6.32	2.24	93.36	670.95	527.23	462.46	940.62	530.35	2701.53	2962.30	821.72	105.61	9824.69	
10	5.95	2.24	71.49	753.40	486.95	603.09	1071.83	527.23	2115.77	4728.13	756.73	100.68	11223.49	
11	5.59	2.55	49.71	785.74	450.30	700.43	1172.24	524.11	1884.46	4375.52	651.42	95.79	10697.86	
12	5.59	2.55	31.93	848.89	420.17	661.17	1225.48	521.00	1759.00	3461.18	606.29	89.74	9633.00	
13	5.23	4.19	27.64	912.92	403.87	477.74	1230.34	517.88	1502.95	3381.94	493.11	84.96	9042.76	
14	4.88	5.59	27.64	876.23	396.15	372.01	1206.07	514.77	1269.36	3221.57	459.41	79.05	8432.74	
15	4.88	5.95	24.29	835.29	393.59	298.53	1143.38	511.67	1157.79	2919.49	362.67	74.38	7731.90	
16	4.53	7.83	22.88	657.92	587.13	225.04	1081.32	502.37	1090.83	2611.88	339.50	67.19	7198.42	
17	4.53	11.82	21.49	330.31	628.78	159.43	1062.35	499.28	996.47	2276.72	267.35	59.58	6318.12	
18	4.19	16.09	21.49	176.29	539.74	129.60	903.72	493.11	945.25	2059.49	235.76	56.25	5580.98	
19	4.19	16.97	26.68	159.43	383.75	123.20	987.12	486.95	848.89	1931.91	210.89	53.78	5233.76	
20	3.85	18.30	33.81	138.66	280.64	154.44	949.88	483.87	723.51	1751.22	172.89	51.33	4762.41	
21	3.51	20.57	40.19	184.83	235.76	228.60	922.14	483.87	648.18	1585.35	147.83	49.71	4550.54	
22	3.51	21.95	40.19	244.76	212.65	360.34	839.82	480.80	625.56	1415.13	145.20	48.10	4438.01	
23	3.18	23.82	40.19	321.17	172.89	670.95	680.75	680.75	615.91	1353.01	141.27	46.49	4750.38	
24	3.18	36.97	38.25	386.11	121.93	785.74	564.93	871.66	583.95	1484.05	137.36	44.90	5059.03	
25	2.86	136.06	30.70	426.17	121.93	830.76	552.31	826.24	530.35	1821.53	137.36	44.11	5460.37	
26	2.86	195.18	25.24	409.02	109.34	853.44	577.60	772.33	480.80	1860.82	134.76	43.32	5464.71	
27	2.55	260.76	21.03	332.60	127.03	871.66	590.32	730.14	450.30	1821.53	134.76	43.32	5386.00	
28	2.24	337.20	18.75	351.05	195.18	996.47	564.93	690.57	432.18	1805.86	133.47	58.74	5586.63	
29	1.94	346.42	18.30	493.11	305.29	1105.11	546.02	641.70	409.02	1782.41		70.62	5719.94	
30	1.94	351.05	17.85	606.29	374.35	1076.57	517.88	568.09	401.29	1720.13		81.40	5716.85	
31		358.01		615.91	447.27		496.19		393.59	1636.46		89.74	4037.17	
Total	142.57	2199.79	3164.46	12879.51	10825.17	14767.22	25058.32	17176.87	36185.26	62282.86	17142.39	2563.53	204387.95	Tonday
Mean	4.75	70.96	105.48	415.47	349.20	492.24	808.33	572.56	1167.27	2009.12	612.23	82.69	6690.31	Ton/day
Max	7.45	358.01	628.78	912.92	628.78	1105.11	1230.34	871.66	3005.24	4728.13	1540.88	147.83	4728.13	Ton/day
Min	1.94	1.94	17.85	27.16	109.34	123.20	480.80	480.80	393.59	426.17	133.47	43.32	1.94	Ton/day

WATER YEAR : 2016

TAPI RIVER BASIN

Lower Khlong I - Pan at Ban Arpart , Surat Thani (X.260)

Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

Ban Arpart **Amphoe** Phrasaeng **Changwat** Surat Thani

Drainge Area	2,076 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 49
Period of Available Records	2007 - Cont' d
Actual Measurement	2007 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	14
R-Square	0.7370
Remarks	Continued Sediment Station

$$QS = 7.1058\ QW^{1.10180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.64	27.81	2053.47	450.39	599.47	943.24	1511.06	1210.86	659.89	475.73	1511.06	332.51	9814.12
2	38.64	25.16	1938.79	400.12	652.76	954.32	1449.51	1347.48	603.01	599.47	1567.68	321.36	9898.28
3	37.27	26.48	1742.56	359.41	692.09	913.77	1372.92	1296.72	1103.08	767.76	1505.92	323.58	10141.57
4	52.58	26.48	1170.65	290.32	778.63	869.72	1434.16	1145.58	1099.34	877.05	1327.15	321.36	9393.02
5	61.11	27.81	987.61	246.53	847.77	833.17	1459.75	1125.56	1110.57	1043.34	1231.02	274.92	9249.17
6	65.43	31.83	851.43	395.58	910.09	785.88	1444.40	1106.82	1788.17	1296.72	1088.12	253.05	10017.52
7	71.22	42.78	782.25	1480.26	965.41	742.46	1413.72	1099.34	2531.33	1697.06	946.93	250.88	12023.63
8	78.52	46.95	677.76	2299.26	1035.89	1065.71	1464.88	1091.86	2488.25	2109.04	829.53	288.12	13475.76
9	87.85	59.68	560.67	2458.67	1073.17	1276.47	1684.08	1084.38	2346.04	2769.47	728.03	266.15	14394.67
10	66.87	62.55	475.73	2617.70	1120.56	1516.20	1833.89	1080.64	2124.94	5058.10	631.39	233.52	16822.10
11	51.17	72.67	413.77	2336.68	1160.62	1716.55	2093.15	1065.71	1932.22	4874.56	546.62	209.85	16473.56
12	45.56	72.67	381.98	2053.47	1210.86	1413.72	2061.40	1043.34	1775.13	3691.07	581.80	194.92	14525.91
13	40.01	65.43	404.66	1801.23	1327.15	1311.93	1912.52	1035.89	1625.78	2965.73	631.39	184.31	13306.04
14	35.90	55.41	422.90	1638.72	1413.72	1276.47	1645.19	1028.45	1485.39	2468.08	546.62	177.98	12194.83
15	35.90	53.99	443.50	1516.20	1485.39	836.82	1529.05	998.74	1388.21	2124.94	475.73	175.87	11064.34
16	35.90	63.99	487.28	1429.05	1548.35	825.88	1439.28	811.31	1266.36	1965.10	441.21	167.46	10481.18
17	35.90	78.52	522.11	1180.69	1567.68	771.38	1423.94	670.61	1135.57	1860.07	425.19	184.31	9855.96
18	35.90	117.91	574.75	939.55	1470.00	764.14	1480.26	550.13	1061.97	1703.55	427.47	203.44	9329.07
19	34.54	144.55	585.33	822.24	1337.31	756.91	1554.79	595.93	902.74	1593.48	418.33	248.70	8994.85
20	34.54	134.24	448.09	775.00	1165.63	764.14	1619.32	585.33	778.63	1495.65	422.90	235.68	8459.16
21	33.18	97.78	391.04	756.91	1088.12	800.40	1781.65	950.63	778.63	1500.78	471.11	218.43	8868.65
22	30.48	71.22	391.04	753.29	991.32	836.82	1971.68	1013.58	899.06	1522.62	585.33	268.34	9334.80
23	29.14	65.43	366.17	753.29	902.74	1017.30	2011.22	785.88	972.80	1567.68	617.18	285.92	9374.74
24	26.48	180.09	336.98	756.91	855.08	1541.92	1932.22	1073.17	1013.58	1638.72	487.28	244.35	10086.79
25	25.16	695.68	270.53	756.91	728.03	2024.41	1873.17	1306.86	980.21	1736.05	448.09	261.78	11106.88
26	22.53	1140.57	222.73	764.14	546.62	2164.75	1853.52	1470.00	954.32	1820.82	386.50	220.58	11567.09
27	21.23	1362.74	194.92	756.91	588.86	1991.44	1846.98	1554.79	935.87	1899.39	366.17	199.17	11718.46
28	19.93	1580.57	184.31	804.04	638.51	1664.63	1729.55	1480.26	756.91	1932.22	341.46	259.60	11391.97
29	27.81	1749.07	182.20	946.93	652.76	1413.72	1511.06	1266.36	670.61	1905.95		332.51	10658.98
30	27.81	1788.17	184.31	1080.64	840.47	1311.93	1311.93	899.06	578.27	1781.65		323.58	10127.84
31		1794.70		1125.56	902.74		1155.60		478.04	1606.39		343.70	7406.73
Total	1247.18	11762.92	18649.53	34746.57	31097.80	35106.19	50805.85	31775.27	38224.92	60348.26	19987.21	7805.94	341557.65 Tonday
Mean	41.57	379.45	621.65	1120.86	1003.15	1170.21	1638.90	1059.18	1233.06	1946.72	713.83	251.80	11180.38 Ton/day
Max	87.85	1794.70	2053.47	2617.70	1567.68	2164.75	2093.15	1554.79	2531.33	5058.10	1567.68	343.70	5058.10 Ton/day
Min	19.93	25.16	182.20	246.53	546.62	742.46	1155.60	550.13	478.04	475.73	341.46	167.46	19.93 Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Nasithong.

Ban Nasithong **Amphoe** Ratthaphum **Changwat** Songkhla

Drainge Area	248 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-59
Period of Available Records	2008 - Cont' d
Actual Measurement	2008 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.7538
Remarks	Continued Sediment Station

$$QS = 1.6691\ QW^{1.89940}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.53	3.34	8.87	4.52	35.49	29.05	13.45	82.59	239.09	2636.16	161.42	55.05	3275.56	
2	6.53	3.34	8.87	7.08	29.05	27.84	12.61	70.01	1679.93	4018.07	149.22	51.78	6064.32	
3	6.53	3.34	8.25	7.08	18.03	26.65	11.80	58.42	1994.20	10323.45	145.25	48.60	12651.59	
4	6.53	3.34	8.25	6.53	13.45	23.23	18.03	82.59	1833.88	2189.26	153.24	45.52	4383.84	
5	6.53	2.99	7.66	7.08	9.51	22.14	19.02	110.68	1886.61	597.06	130.89	44.01	2844.19	
6	6.53	2.99	7.08	7.66	13.45	21.07	18.03	127.41	1807.78	576.71	120.59	39.64	2748.93	
7	6.53	2.99	7.66	7.66	12.61	20.03	17.06	145.25	681.84	1886.61	113.94	38.23	2940.41	
8	6.53	2.99	6.53	8.25	11.80	82.59	16.12	187.19	342.75	2761.95	104.75	36.85	3568.29	
9	6.53	2.99	8.25	8.87	11.01	77.44	15.20	391.64	285.99	597.06	98.98	35.49	1539.46	
10	6.53	2.99	5.48	9.51	10.25	58.42	14.31	1391.28	187.19	443.60	90.61	35.49	2255.67	
11	5.99	2.99	4.99	9.51	13.45	35.49	13.45	425.94	145.25	383.27	87.90	34.15	1162.40	
12	5.99	2.99	4.99	10.25	16.12	31.55	12.61	234.12	127.41	342.75	85.22	34.15	908.17	
13	5.99	2.99	4.99	8.25	17.06	29.05	11.80	187.19	110.68	187.19	82.59	32.84	680.63	
14	5.48	2.99	5.48	5.48	19.02	27.84	11.01	110.68	110.68	187.19	79.99	32.84	598.69	
15	5.99	2.99	6.53	5.48	20.03	23.23	104.75	145.25	96.15	210.03	72.45	32.84	725.73	
16	5.99	2.36	7.08	4.99	21.07	22.14	107.70	145.25	145.25	200.75	70.01	32.84	765.44	
17	5.99	2.07	7.66	4.99	21.07	21.07	9.51	127.41	234.12	200.75	65.25	31.55	731.46	
18	5.99	1.80	8.25	4.99	21.07	21.07	58.42	107.70	285.99	1234.84	62.93	31.55	1844.62	
19	5.99	1.54	8.87	4.52	22.14	20.03	65.25	96.15	425.94	4539.40	60.65	31.55	5282.05	
20	5.99	1.31	8.25	4.52	22.14	19.02	70.01	82.59	670.95	3744.20	58.42	31.55	4718.94	
21	5.48	1.09	7.66	6.53	23.23	19.02	70.01	70.01	1913.24	5852.06	56.72	51.78	8076.82	
22	4.99	4.08	7.08	58.42	23.23	18.03	55.05	67.61	1654.89	1833.88	53.40	41.08	3821.73	
23	4.99	6.53	6.53	145.25	24.34	18.03	44.01	65.25	783.55	660.14	51.78	39.64	1850.04	
24	4.52	8.25	5.48	187.19	24.34	17.06	26.65	60.65	417.24	517.64	50.18	34.15	1353.36	
25	4.08	9.51	4.52	110.68	25.48	16.12	23.23	58.42	285.99	517.64	48.60	32.84	1137.12	
26	4.08	11.01	3.70	58.42	25.48	16.12	19.02	58.42	169.81	461.60	55.05	31.55	914.26	
27	3.70	13.45	3.34	56.72	25.48	15.20	17.06	70.01	130.89	425.94	56.72	31.55	850.07	
28	3.70	11.80	3.34	50.18	26.65	14.31	16.12	96.15	110.68	350.68	58.42	53.40	795.42	
29	3.34	10.25	3.34	45.52	26.65	14.31	42.53	120.59	101.85	296.95		70.01	735.33	
30	3.34	9.51	2.99	44.01	26.65	13.45	137.99	141.60	110.68	219.52		517.64	1227.38	
31		8.87		42.53	29.05		117.24		145.25	187.19		96.15	626.30	
Total	166.87	149.71	191.97	942.68	638.43	800.61	1189.05	5118.07	19115.76	48583.53	2425.18	1756.37	81078.23	Tonday
Mean	5.56	4.83	6.40	30.41	20.59	26.69	38.36	170.60	616.64	1567.21	86.61	56.66	2630.56	Ton/day
Max	6.53	13.45	8.87	187.19	35.49	82.59	137.99	1391.28	1994.20	10323.45	161.42	517.64	10323.45	Ton/day
Min	3.34	1.09	2.99	4.52	9.51	13.45	9.51	58.42	96.15	187.19	48.60	31.55	1.09	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Tam at Ban Khuan Lang , Songkhla (X.71B)

Lat 06 - 59 - 15 N Long 100 - 25 - 27 E

Location : on left bank at the bridge.

Ban Khuan Lang **Amphoe** Hat Yai **Changwat** Songkhla

Drainge Area	148 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-59
Period of Available Records	2005 - Cont' d
Actual Measurement	2005 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	11
R-Square	0.8011
Remarks	Continued Sediment Station

$$QS = 3.5186\ QW^{0.75490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.63	0.88	1.83	1.24	1.89	1.83	0.37	18.68	16.40	40.45	9.96	2.33	97.48	
2	1.59	0.84	1.76	1.24	1.83	1.79	0.37	18.68	41.58	73.81	8.74	2.33	154.57	
3	1.59	0.66	1.66	1.24	1.83	1.79	0.31	15.62	50.22	75.97	8.21	2.30	161.39	
4	1.56	0.66	1.59	1.12	1.76	1.76	0.31	2.92	39.80	50.92	7.84	2.24	112.48	
5	1.56	0.66	1.66	1.12	1.69	1.66	0.31	2.09	22.53	29.88	7.49	2.24	72.90	
6	1.56	0.66	1.59	1.04	1.66	1.66	0.31	2.09	17.92	21.30	7.15	2.21	59.16	
7	1.56	0.57	1.96	1.00	1.66	1.89	0.31	4.83	16.97	32.62	6.64	2.15	72.16	
8	1.56	0.71	2.30	1.00	1.66	2.39	0.31	6.81	12.74	51.39	6.29	2.15	89.32	
9	1.49	0.80	2.24	1.12	1.66	1.00	0.31	10.97	9.96	46.32	5.94	2.12	83.93	
10	1.49	0.75	2.02	1.83	1.66	0.75	0.31	22.96	8.39	37.82	5.76	2.12	85.86	
11	1.49	0.75	1.76	1.83	1.59	0.75	0.31	19.48	6.64	20.07	5.58	2.15	62.41	
12	1.49	0.75	1.76	1.49	1.59	0.75	0.31	12.21	6.29	14.46	5.39	2.12	48.62	
13	1.42	0.75	0.71	1.59	1.59	0.62	0.31	9.96	6.12	12.39	5.39	2.12	42.98	
14	1.42	0.75	0.00	1.56	1.59	0.37	0.31	9.27	5.02	11.32	0.31	2.12	34.03	
15	1.42	0.75	0.18	1.76	1.66	0.37	0.25	8.74	4.44	9.62	0.31	2.15	31.65	
16	1.42	0.75	0.37	1.83	1.66	0.37	0.25	8.21	5.94	12.74	0.31	2.15	35.99	
17	1.45	0.75	0.57	1.83	1.59	0.37	0.25	6.98	5.39	9.62	1.59	2.09	32.49	
18	1.42	0.80	0.62	1.59	1.59	0.31	0.25	6.64	19.68	8.74	2.45	2.09	46.18	
19	1.31	0.92	0.75	1.59	1.59	0.31	0.37	6.12	39.36	22.33	2.51	2.09	79.25	
20	1.31	1.08	0.84	1.83	1.52	0.31	0.31	5.58	36.04	56.77	2.48	2.09	110.16	
21	1.31	1.24	0.92	1.83	1.49	0.37	0.80	4.04	43.16	67.58	2.48	2.69	127.90	
22	1.31	1.42	0.92	1.83	1.42	0.42	0.71	4.83	49.74	58.74	2.42	2.45	126.21	
23	1.20	1.42	1.00	1.83	1.31	0.47	0.71	4.63	43.16	38.04	2.42	2.27	98.47	
24	1.08	1.49	1.04	1.83	1.89	0.52	0.52	4.44	22.96	23.61	2.39	2.21	64.00	
25	1.08	1.63	1.04	1.86	2.12	0.42	0.00	3.49	16.97	29.43	2.36	2.21	62.62	
26	1.04	1.76	1.04	2.15	2.18	0.42	0.84	3.11	12.04	30.56	2.33	2.18	59.66	
27	1.00	1.73	1.31	1.89	1.99	0.37	6.12	2.51	9.96	22.75	2.36	2.09	54.08	
28	1.00	1.76	1.42	1.86	1.89	0.31	8.39	2.09	7.65	17.92	2.33	2.02	48.65	
29	1.00	1.96	1.35	1.83	1.89	0.31	9.96	2.30	7.49	14.29		2.63	45.01	
30	1.00	1.93	1.12	1.83	1.83	0.31	21.09	3.30	5.76	11.86		6.16	56.19	
31		1.96		1.89	1.79		18.48		14.12	11.32		2.92	52.48	
Total	40.77	33.58	37.37	49.48	53.11	24.99	73.74	233.58	604.43	964.63	119.46	73.14	2308.28	Tonday
Mean	1.36	1.08	1.25	1.60	1.71	0.83	2.38	7.79	19.50	31.12	4.27	2.36	75.24	Ton/day
Max	1.63	1.96	2.30	2.15	2.18	2.39	21.09	22.96	50.22	75.97	9.96	6.16	75.97	Ton/day
Min	1.00	0.57	0.00	1.00	1.31	0.31	0.00	2.09	4.44	8.74	0.31	2.02	0.00	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

Ban Bang Sala **Amphoe** Khlong Hoi Khong **Changwat** Songkhla

Drainge Area	1,547 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-48
Period of Available Records	1982 - Cont' d
Actual Measurement	1982 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	16
R-Square	0.7297
Remarks	Continued Sediment Station

$$QS = 9.2622\ QW^{1.19630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.40	647.00	828.72	195.56	629.25	893.99	210.26	691.73	317.63	3116.18	1391.34	620.40	9568.48	
2	34.47	638.12	585.23	170.25	611.58	838.00	217.68	847.29	2070.11	10729.01	884.62	718.80	18345.16	
3	42.88	620.40	431.42	143.81	602.77	755.16	202.89	727.86	2930.00	8472.51	847.29	782.61	16559.60	
4	56.00	602.77	398.33	103.17	567.77	647.00	188.27	629.25	2844.71	4145.70	903.38	810.23	11896.58	
5	69.64	593.99	381.96	79.00	515.92	533.11	170.25	473.36	2358.58	1790.74	838.00	819.47	8624.02	
6	103.17	585.23	373.81	34.47	464.92	423.11	159.59	746.04	2164.67	1192.07	773.44	810.23	7830.76	
7	309.73	576.49	431.42	8.17	431.42	439.75	154.30	655.91	1830.24	1764.48	950.57	791.80	8344.27	
8	439.75	559.07	456.51	8.17	431.42	664.83	149.04	791.80	1303.54	3585.12	1007.70	764.29	10161.25	
9	481.82	620.40	439.75	0.00	390.13	1429.26	188.27	602.77	1036.47	4485.79	979.07	736.94	11390.68	
10	507.36	647.00	448.12	8.17	341.53	1378.74	325.57	620.40	764.29	4049.35	884.62	746.04	10721.18	
11	533.11	673.78	414.82	34.47	301.87	1082.29	414.82	856.60	700.74	2964.23	773.44	746.04	9496.22	
12	620.40	655.91	390.13	34.47	270.74	585.23	550.40	333.53	559.07	1883.12	664.83	736.94	7284.78	
13	673.78	431.42	373.81	22.50	270.74	507.36	498.83	278.47	576.49	1328.53	629.25	709.76	6300.94	
14	682.75	507.36	373.81	15.04	217.68	550.40	414.82	349.55	490.31	969.55	875.26	682.75	6129.30	
15	682.75	718.80	333.53	8.17	188.27	550.40	365.70	567.77	533.11	912.79	1046.09	673.78	6581.15	
16	673.78	912.79	294.03	0.00	175.62	567.77	317.63	664.83	498.83	593.99	988.60	682.75	6370.62	
17	673.78	969.55	278.47	22.50	175.62	541.74	278.47	349.55	414.82	559.07	865.92	673.78	5803.29	
18	664.83	960.05	195.56	34.47	154.30	498.83	255.39	202.89	682.75	507.36	727.86	629.25	5513.54	
19	709.76	682.75	217.68	195.56	138.61	481.82	278.47	349.55	865.92	960.05	638.12	585.23	6103.52	
20	727.86	673.78	247.77	585.23	123.21	481.82	638.12	349.55	960.05	2097.06	673.78	764.29	8322.53	
21	718.80	810.23	263.05	1082.29	98.25	481.82	884.62	341.53	1989.62	4315.19	682.75	1391.34	13059.49	
22	700.74	875.26	255.39	1621.25	65.04	620.40	423.11	398.33	1883.12	4073.40	655.91	1007.70	12579.65	
23	682.75	718.80	294.03	1378.74	38.64	838.00	365.70	673.78	1291.08	2574.65	602.77	810.23	10269.17	
24	682.75	673.78	217.68	1341.06	60.49	931.65	507.36	847.29	1007.70	1751.38	602.77	736.94	9360.86	
25	682.75	782.61	270.74	865.92	98.25	960.05	473.36	638.12	1070.20	1803.89	791.80	847.29	9284.98	
26	682.75	856.60	154.30	838.00	550.40	960.05	490.31	373.81	709.76	1518.36	960.05	950.57	9044.95	
27	673.78	755.16	143.81	856.60	1058.13	828.72	576.49	240.19	782.61	1167.53	988.60	988.60	9060.21	
28	655.91	682.75	88.54	718.80	1253.80	341.53	490.31	278.47	682.75	969.55	736.94	1036.47	7935.82	
29	638.12	673.78	154.30	764.29	1167.53	286.23	423.11	309.73	473.36	764.29		1229.05	6883.79	
30	647.00	764.29	210.26	755.16	1026.87	247.77	423.11	240.19	718.80	736.94		1046.09	6816.48	
31		941.10		718.80	912.79		490.31		1026.87	856.60		727.86	5674.33	
Total	15479.38	21811.02	9947.00	12644.08	13333.56	20346.85	11526.54	15430.16	35538.20	76638.48	23364.78	25257.52	281317.57	Tonday
Mean	515.98	703.58	331.57	407.87	430.11	678.23	371.82	514.34	1146.39	2472.21	834.46	814.76	9221.32	Ton/day
Max	727.86	969.55	828.72	1621.25	1253.80	1429.26	884.62	856.60	2930.00	10729.01	1391.34	1391.34	10729.01	Ton/day
Min	26.40	431.42	88.54	0.00	38.64	247.77	149.04	202.89	317.63	507.36	602.77	585.23	0.00	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

Ban Thung Prap **Amphoe** Sadao **Changwat** Songkhla

Drainge Area	118 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-49
Period of Available Records	1981 - Cont' d
Actual Measurement	1981 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	9
R-Square	0.8821
Remarks	Continued Sediment Station

$$QS = 20.1440\ QW^{1.58300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	3.32	20.14	2.69	8.97	8.05	6.30	206.48	163.24	163.24	45.79	13.05	645.27	
2	9.94	1.58	14.15	2.10	7.15	7.15	4.72	37.47	3063.02	114.66	42.39	13.05	3317.39	
3	9.94	2.10	13.05	2.10	7.15	6.30	4.72	225.58	586.27	77.90	39.08	13.05	987.25	
4	11.98	2.69	10.94	1.58	6.30	4.72	6.30	85.92	139.79	51.08	35.88	10.94	368.11	
5	88.65	2.69	8.05	1.58	5.49	15.29	4.72	97.05	356.30	40.73	34.31	9.94	664.79	
6	17.65	1.58	6.30	4.00	4.00	80.54	5.49	1511.86	229.47	47.53	32.77	9.94	1951.14	
7	8.97	1.58	5.49	18.88	4.00	1434.40	20.14	94.22	108.67	715.77	32.77	9.94	2454.84	
8	7.15	1.11	3.32	91.42	4.00	241.30	20.14	52.89	70.18	1257.62	29.78	9.94	1788.83	
9	7.15	1.11	4.00	13.05	4.00	44.08	25.48	361.83	58.45	773.61	29.78	8.97	1331.49	
10	133.34	8.05	4.00	7.15	2.69	28.32	65.20	75.29	52.89	146.35	28.32	8.97	560.56	
11	9.94	91.42	3.32	6.30	2.10	22.75	14.15	42.39	42.39	99.91	26.88	8.97	370.54	
12	8.97	24.10	4.00	6.30	3.32	16.45	9.94	32.77	39.08	120.77	26.88	8.05	300.65	
13	7.15	13.05	3.32	6.30	2.69	17.65	7.15	32.77	34.31	77.90	24.10	8.05	234.45	
14	7.15	29.78	2.69	4.72	11.98	15.29	6.30	120.77	31.26	70.18	21.43	8.05	329.60	
15	7.15	180.80	2.10	6.30	6.30	11.98	11.98	253.34	28.32	60.35	20.14	8.97	597.74	
16	6.30	67.67	1.58	6.30	4.00	8.97	8.97	44.08	25.48	52.89	17.65	7.15	251.05	
17	6.30	14.15	6.30	6.30	4.00	8.05	8.97	31.26	25.48	49.29	17.65	5.49	183.25	
18	7.15	297.60	51.08	9.94	2.69	18.88	313.22	26.88	54.72	58.45	16.45	4.72	861.80	
19	4.72	28.32	14.15	117.70	2.10	13.05	277.23	29.78	28.32	249.30	16.45	9.94	791.06	
20	2.69	18.88	8.05	221.71	1.58	130.15	77.90	40.73	83.21	935.77	15.29	31.26	1567.21	
21	2.10	65.20	7.15	34.31	1.58	60.35	31.26	601.79	425.65	773.61	15.29	16.45	2034.74	
22	21.43	195.32	7.15	91.42	1.58	39.08	20.14	52.89	91.42	133.34	14.15	9.94	677.87	
23	8.05	99.91	6.30	1480.70	1.58	42.39	16.45	51.08	54.72	83.21	14.15	10.94	1869.48	
24	4.72	45.79	4.00	60.35	114.66	24.10	31.26	58.45	51.08	67.67	14.15	47.53	523.77	
25	1.58	58.45	4.00	32.77	153.03	16.45	47.53	34.31	40.73	241.30	13.05	11.98	655.17	
26	1.11	26.88	3.32	21.43	35.88	13.05	34.31	24.10	39.08	94.22	11.98	7.15	312.52	
27	1.58	26.88	2.10	20.14	17.65	9.94	18.88	39.08	34.31	75.29	11.98	21.43	279.29	
28	7.15	39.08	1.58	44.08	20.14	8.97	20.14	21.43	31.26	62.76	14.15	170.19	440.95	
29	6.30	199.01	1.58	20.14	15.29	8.97	75.29	18.88	28.32	54.72		803.14	1231.65	
30	5.49	188.01	3.32	14.15	8.97	8.97	52.89	16.45	28.32	54.72		195.32	576.61	
31		85.92		9.94	13.05		412.97		35.88	52.89		49.29	659.93	
Total	425.84	1822.02	226.50	2365.89	477.90	2365.65	1660.20	4321.85	6081.61	6857.02	662.70	1551.80	28818.99	Tonday
Mean	14.19	58.77	7.55	76.32	15.42	78.86	53.55	144.06	196.18	221.19	23.67	50.06	939.83	Ton/day
Max	133.34	297.60	51.08	1480.70	153.03	1434.40	412.97	1511.86	3063.02	1257.62	45.79	803.14	3063.02	Ton/day
Min	1.11	1.11	1.58	1.58	1.58	4.72	4.72	16.45	25.48	40.73	11.98	4.72	1.11	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

Ban Khlong Lam **Amphoe** Srinagarindra **Changwat** Phatthalung

Drainge Area	258 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-59
Period of Available Records	2005 - Cont' d
Actual Measurement	2005 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	18
R-Square	0.8814
Remarks	Continued Sediment Station

$$QS = 2.9884\ QW^{1.38040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.01	4.11	14.88	5.82	13.62	23.54	16.18	40.43	42.99	1244.29	237.50	56.40	1709.78	
2	10.01	4.11	12.38	5.82	12.38	21.95	14.88	31.91	1052.96	527.05	188.09	53.64	1935.19	
3	10.01	3.32	12.38	5.82	17.51	17.51	18.87	33.67	2690.06	5439.61	169.00	59.20	8476.96	
4	10.01	3.32	18.87	4.94	20.39	16.18	18.87	28.48	6648.83	6870.66	242.34	50.92	13933.82	
5	10.01	3.32	14.88	4.94	13.62	14.88	17.51	26.80	3551.88	4646.95	157.81	45.59	8508.22	
6	10.01	3.32	11.18	4.94	11.18	30.18	17.51	23.54	1309.99	2765.64	132.56	42.99	4363.04	
7	8.87	3.32	10.01	21.95	10.01	35.45	16.18	23.54	591.58	1371.02	125.58	40.43	2257.94	
8	8.87	2.58	8.87	30.18	10.01	28.48	45.59	21.95	376.03	1011.66	115.30	37.92	1697.44	
9	8.87	2.58	8.87	21.95	21.95	37.92	30.18	21.95	314.96	900.47	101.98	35.45	1507.14	
10	8.87	2.58	7.78	14.88	16.18	25.16	30.18	28.48	357.39	599.03	95.49	33.67	1219.70	
11	7.78	2.58	7.78	11.18	14.88	21.95	21.95	25.16	297.23	466.30	101.98	31.91	1010.68	
12	7.78	2.58	7.78	10.01	35.45	20.39	17.51	33.67	297.23	420.49	108.58	31.91	993.39	
13	7.78	2.58	6.73	17.51	31.91	30.18	17.51	67.82	184.23	363.58	95.49	31.91	857.23	
14	7.78	1.90	5.82	16.18	129.06	20.39	17.51	76.75	115.30	314.96	111.93	30.18	847.76	
15	7.78	1.90	5.82	14.88	56.40	18.87	17.51	79.80	115.30	261.94	95.49	30.18	705.87	
16	7.78	1.90	5.82	12.38	33.67	17.51	21.95	125.58	101.98	227.91	98.72	30.18	685.37	
17	6.73	1.90	7.78	10.01	26.80	16.18	17.51	101.98	118.70	213.74	82.87	30.18	634.38	
18	6.73	1.28	7.78	10.01	20.39	16.18	23.54	154.13	731.79	520.20	76.75	28.48	1597.26	
19	5.82	1.28	6.73	10.01	18.87	14.88	26.80	111.93	369.79	667.24	150.48	28.48	1412.29	
20	5.82	2.58	6.73	10.01	17.51	13.62	67.82	64.91	213.74	1158.17	82.87	28.48	1672.26	
21	5.82	11.18	6.73	14.88	16.18	30.18	33.67	50.92	276.91	1770.56	73.74	53.64	2344.41	
22	5.82	12.38	6.73	10.01	16.18	23.54	26.80	42.99	1011.66	1233.44	67.82	45.59	2502.96	
23	4.94	5.82	6.73	199.82	14.88	33.67	23.54	42.99	1901.24	1042.59	70.76	30.18	3377.16	
24	4.94	20.39	6.73	30.18	25.16	25.16	33.67	50.92	890.55	980.98	67.82	28.48	2164.97	
25	4.94	31.91	6.73	30.18	23.54	17.51	62.04	40.43	446.51	900.47	64.91	26.80	1655.99	
26	4.94	37.92	5.82	20.39	20.39	16.18	33.67	35.45	309.02	644.28	62.04	28.48	1218.58	
27	4.94	56.40	5.82	21.95	17.51	14.88	28.48	89.12	287.02	614.01	64.91	28.48	1233.54	
28	4.94	30.18	5.82	20.39	16.18	16.18	28.48	45.59	252.09	554.70	82.87	30.18	1087.62	
29	4.94	20.39	5.82	28.48	30.18	14.88	82.87	37.92	195.89	388.59		31.91	841.88	
30	4.11	18.87	5.82	18.87	28.48	16.18	79.80	37.92	191.98	309.02		45.59	756.63	
31		21.95		16.18	26.80		89.12		213.74	261.94		31.91	661.64	
Total	217.65	320.47	251.58	654.76	767.30	649.81	997.73	1596.72	25458.54	38691.51	3125.67	1139.37	73871.10	Tonday
Mean	7.26	10.34	8.39	21.12	24.75	21.66	32.18	53.22	821.24	1248.11	111.63	36.75	2396.66	Ton/day
Max	10.01	56.40	18.87	199.82	129.06	37.92	89.12	154.13	6648.83	6870.66	242.34	59.20	6870.66	Ton/day
Min	4.11	1.28	5.82	4.94	10.01	13.62	14.88	21.95	42.99	213.74	62.04	26.80	1.28	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

Ban Mae Khree **Amphoe** Tamot **Changwat** Phatthalung

Drainge Area	295 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-59
Period of Available Records	2007 - Cont' d
Actual Measurement	2007 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	17
R-Square	1.0838
Remarks	Continued Sediment Station

$$QS = 5.3408\ QW^{1.08380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.74	3.07	6.16	0.93	3.07	1.34	0.44	16.05	73.95	9.61	58.83	34.75	211.95	
2	3.74	3.07	5.69	1.03	3.07	1.24	0.44	10.34	302.07	224.63	50.03	32.55	637.92	
3	3.74	2.96	5.46	1.14	3.07	1.14	0.44	6.63	963.30	559.81	47.29	31.89	1626.85	
4	3.57	2.96	5.23	1.14	3.07	1.03	0.44	5.46	1311.90	515.16	46.47	29.90	1926.32	
5	3.57	2.96	4.99	1.14	3.07	0.93	0.44	4.76	654.54	278.42	45.64	27.26	1027.74	
6	3.40	2.96	4.76	1.14	3.07	0.93	0.44	4.59	342.60	231.60	44.01	24.78	664.29	
7	3.40	2.85	4.59	1.14	3.07	0.93	0.44	4.25	172.97	222.70	39.19	23.02	478.56	
8	3.40	2.85	4.42	1.14	3.07	0.93	0.44	3.91	57.78	240.91	36.97	21.28	377.10	
9	3.40	2.85	4.08	1.14	3.07	0.93	0.44	3.40	39.93	247.91	32.55	19.61	359.32	
10	3.40	2.74	3.91	1.14	3.07	0.93	0.44	3.07	39.93	186.26	30.56	17.57	293.03	
11	3.40	2.74	3.74	1.14	3.07	1.14	0.44	4.25	25.95	148.49	31.22	15.55	241.13	
12	3.40	2.74	3.57	1.14	3.07	1.24	0.44	10.34	18.08	133.58	41.56	13.30	232.46	
13	3.40	2.74	3.40	1.14	3.07	1.34	0.44	33.28	7.10	91.83	33.28	12.00	193.04	
14	3.24	2.74	3.24	1.14	5.23	1.34	0.44	95.74	5.92	68.29	30.56	10.34	228.21	
15	3.24	2.74	2.96	1.14	5.69	1.34	0.44	238.58	4.76	68.29	29.90	9.98	369.06	
16	3.24	2.52	2.74	1.14	4.42	1.45	0.44	226.95	3.07	66.18	28.58	9.61	350.34	
17	3.07	2.52	2.63	1.14	3.91	1.34	0.44	197.71	3.07	71.68	27.26	8.89	323.67	
18	3.07	2.52	2.52	1.14	3.40	1.24	0.44	147.00	3.07	104.89	25.36	8.17	302.81	
19	3.07	2.52	2.30	1.14	3.07	1.14	0.73	55.84	3.07	107.66	42.37	7.81	230.72	
20	2.96	2.52	2.09	1.14	2.74	1.03	2.63	36.23	22.44	209.22	39.19	7.45	329.63	
21	2.96	3.07	1.87	1.98	2.52	0.93	5.46	31.22	120.27	411.78	30.56	7.10	619.72	
22	2.96	3.07	1.76	1.98	2.19	0.88	6.16	32.55	325.87	220.77	27.26	7.10	632.56	
23	2.96	5.92	1.55	1.98	1.98	0.83	6.39	34.75	424.76	130.61	25.36	7.10	644.20	
24	2.96	7.81	1.45	20.70	1.98	0.78	6.63	31.89	340.21	148.49	23.61	7.10	593.59	
25	3.07	9.25	1.24	11.57	1.98	0.68	6.86	30.56	205.38	141.02	23.02	7.10	441.73	
26	3.07	4.99	1.24	6.63	1.98	0.59	6.86	25.36	106.27	165.41	22.44	7.10	351.93	
27	3.07	9.61	1.14	4.99	1.76	0.49	7.10	31.22	44.01	139.53	22.44	7.10	272.46	
28	3.07	7.10	1.14	3.91	1.55	0.44	7.10	42.37	13.30	89.39	34.75	7.10	211.21	
29	3.07	6.39	1.14	3.40	1.55	0.44	10.34	51.00	3.57	69.42		7.10	157.43	
30	3.07	5.92	1.14	3.24	1.34	0.44	21.28	59.88	0.93	66.18		12.00	175.41	
31		6.16		3.07	1.34		21.28		0.12	63.02		16.05	111.04	
Total	97.74	124.85	92.15	85.88	88.56	29.48	116.73	1479.20	5640.19	5432.77	970.27	457.62	14615.43	Tonday
Mean	3.26	4.03	3.07	2.77	2.86	0.98	3.77	49.31	181.94	175.25	34.65	14.76	476.65	Ton/day
Max	3.74	9.61	6.16	20.70	5.69	1.45	21.28	238.58	1311.90	559.81	58.83	34.75	1311.90	Ton/day
Min	2.96	2.52	1.14	0.93	1.34	0.44	0.44	3.07	0.12	9.61	22.44	7.10	0.12	Ton/day

WATER YEAR : 2016

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

Ban Khao Pu **Amphoe** Si Banphot **Changwat** Phatthalung

Drainge Area	47 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D-59
Period of Available Records	2009 - Cont' d
Actual Measurement	2009 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	17
R-Square	0.8809
Remarks	Continued Sediment Station

$$QS = 5.6887\ QW^{1.41070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.02	0.08	2.77	0.11	2.02	6.84	0.85	29.61	74.96	118.39	29.61	9.14	276.40	
2	2.02	0.02	3.79	0.29	1.51	6.51	1.04	12.53	651.30	394.89	27.56	8.24	1109.68	
3	2.02	0.00	4.01	0.51	1.35	5.85	2.02	7.88	2926.19	3744.05	24.56	8.24	6726.67	
4	2.02	0.00	4.45	0.51	0.94	5.21	4.01	4.23	3627.80	5145.25	25.55	7.88	8827.84	
5	2.02	0.00	4.45	0.36	0.85	4.67	4.90	1.35	2044.57	1634.01	20.72	7.88	3725.77	
6	1.84	0.00	4.67	0.22	0.76	4.67	7.18	0.51	5761.05	1193.34	18.31	7.53	7000.09	
7	1.84	0.00	4.90	1.51	0.76	4.45	61.40	0.19	1938.56	2607.87	16.75	7.53	4645.77	
8	1.84	0.00	4.23	1.67	0.67	3.58	110.31	0.16	602.09	1091.90	15.98	7.18	1839.63	
9	1.84	0.00	3.79	1.04	0.59	2.96	148.53	5.53	508.04	471.34	14.49	7.18	1165.33	
10	1.84	0.00	2.57	0.76	0.51	2.57	46.88	5.85	450.57	188.08	13.04	7.18	719.86	
11	1.84	0.00	2.20	0.59	0.59	2.39	27.56	12.53	389.38	86.42	13.76	6.51	543.75	
12	1.84	0.00	2.02	2.77	0.67	2.20	20.72	22.61	273.76	48.22	12.53	5.53	392.88	
13	1.84	0.00	1.51	2.39	1.51	1.84	15.98	74.96	228.34	36.02	12.53	4.67	381.60	
14	1.84	0.00	1.04	2.39	11.04	1.35	8.24	110.31	195.23	17.52	16.75	4.45	370.16	
15	1.67	0.00	0.94	1.84	6.84	0.76	4.23	96.87	136.23	9.61	15.98	4.23	279.21	
16	1.67	0.00	0.85	1.51	4.90	0.59	2.77	73.09	121.31	3.58	13.04	4.23	227.53	
17	1.67	0.00	0.76	1.35	4.23	0.36	4.45	63.01	99.07	1.51	12.03	4.01	192.44	
18	1.67	0.00	0.59	1.04	3.79	2.20	3.37	49.58	82.54	4.01	11.04	3.58	163.41	
19	1.67	0.00	0.76	1.04	3.17	2.20	4.67	27.56	112.60	6.51	10.56	3.37	174.11	
20	1.67	0.01	0.67	0.76	2.77	3.37	67.92	16.75	101.29	9.14	10.08	27.56	241.99	
21	1.35	0.06	0.51	0.67	2.39	2.57	20.72	12.53	105.78	4.90	9.14	10.08	170.69	
22	1.04	0.08	0.36	1.19	2.20	2.20	9.14	8.69	170.77	2.77	8.69	6.18	213.30	
23	0.76	0.19	0.22	0.85	1.84	1.84	8.69	4.67	291.77	4.45	8.69	3.58	327.56	
24	0.59	0.51	0.19	0.76	1.51	1.51	7.53	2.57	191.65	12.53	8.24	5.21	232.79	
25	0.36	1.19	0.13	0.59	1.35	1.35	7.18	1.35	90.34	44.24	7.88	4.90	160.85	
26	0.22	2.20	0.11	0.43	1.35	1.19	6.51	0.85	26.55	52.31	7.88	4.45	104.04	
27	0.19	2.57	0.08	1.19	1.51	0.94	6.18	1.84	5.53	46.88	12.03	4.45	83.40	
28	0.13	3.17	0.08	1.35	3.17	0.76	4.90	6.18	4.45	44.24	10.08	10.08	88.58	
29	0.08	2.02	0.08	2.96	3.58	0.76	7.18	12.03	20.72	40.49		6.84	96.76	
30	0.08	1.35	0.06	2.77	4.45	0.67	217.14	15.23	34.93	33.84		6.18	316.70	
31		1.19		2.57	6.84		46.88		76.83	31.71		7.18	173.22	
Total	41.54	14.64	52.80	37.96	79.63	78.38	889.10	681.04	21344.21	17130.01	407.46	215.25	40972.01	Tonday
Mean	1.38	0.47	1.76	1.22	2.57	2.61	28.68	22.70	688.52	552.58	14.55	6.94	1324.00	Ton/day
Max	2.02	3.17	4.90	2.96	11.04	6.84	217.14	110.31	5761.05	5145.25	29.61	27.56	5761.05	Ton/day
Min	0.08	0.00	0.06	0.11	0.51	0.36	0.85	0.16	4.45	1.51	7.88	3.37	0.00	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Trang River at Ban Tha Pradu , Trang (X.56)

Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban Tha Pradu	**Amphoe** Huai Yot	**Changwat** Trang
Drainge Area	1,801 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US DH-49		
Period of Available Records	1981 - Cont' d		
Actual Measurement	1981 - 1987, 2007 - Cont' d		
Using Rating Curve Water Year	2016		
Number of observation	21		
R-Square	0.8462		
Remarks	Continued Sediment Station		

$$QS = 0.5912\ QW^{1.62110}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.21	23.50	114.54	68.82	154.39	533.81	209.06	3224.50	206.44	537.58	2912.07	284.49	8297.41	
2	27.61	23.50	96.36	56.41	117.68	485.77	193.53	2088.10	677.78	893.38	2078.59	252.69	6991.40	
3	27.00	22.93	90.57	42.81	122.46	225.05	249.87	1253.90	5577.39	1947.21	1984.41	235.96	11779.56	
4	27.00	22.37	261.22	38.60	1013.15	166.26	247.06	914.09	17894.83	8902.44	1349.18	235.96	31072.16	
5	27.00	22.37	124.07	36.56	1373.42	378.36	308.51	708.97	45604.59	18221.10	1042.16	211.69	68058.80	
6	26.41	22.37	80.77	39.99	371.78	581.63	293.41	500.37	38105.82	29454.79	886.51	198.65	70562.50	
7	26.41	21.82	62.50	511.42	188.45	2088.10	252.69	522.57	27725.73	32849.20	721.60	190.98	65161.47	
8	26.41	21.27	51.72	1463.69	149.74	2526.12	605.14	1161.32	21489.84	28758.36	599.23	185.93	57038.77	
9	25.81	21.27	60.04	1365.32	117.68	2059.62	1168.93	921.04	17356.09	28068.33	533.81	225.05	51922.99	
10	26.41	23.50	49.43	715.28	103.79	1325.11	635.02	879.67	13863.03	26371.51	485.77	173.54	44652.06	
11	26.41	22.37	43.53	362.01	111.42	593.34	647.13	653.22	10619.64	21026.75	446.48	159.10	34711.40	
12	25.81	21.27	39.99	381.66	188.45	362.01	371.78	446.48	7458.11	17142.36	457.07	152.06	27047.05	
13	25.23	21.27	37.23	457.07	222.35	446.48	275.67	425.59	4150.21	14159.07	617.03	142.87	20980.07	
14	25.23	23.50	35.22	317.72	537.58	384.97	275.67	683.98	1993.76	11704.82	518.85	136.12	16637.42	
15	24.65	24.07	39.99	504.04	747.11	258.36	526.31	907.17	1093.69	9124.66	453.53	133.90	13837.48	
16	24.65	22.93	44.25	375.06	949.02	188.45	629.00	1146.16	786.00	6609.62	429.05	140.60	11344.79	
17	24.07	21.82	43.53	168.67	653.22	161.47	515.13	683.98	641.07	4341.74	464.18	196.08	7914.96	
18	24.07	23.50	65.00	175.99	411.88	138.35	753.54	533.81	629.00	2894.07	522.57	152.06	6323.84	
19	24.07	29.44	51.72	391.63	258.36	122.46	812.35	384.97	740.70	2397.72	432.51	145.15	5791.08	
20	23.50	26.41	42.81	255.52	183.43	147.44	1013.15	381.66	599.23	3627.06	368.51	171.10	6839.82	
21	23.50	39.99	38.60	188.45	154.39	198.65	1783.18	305.47	740.70	8259.18	339.58	190.98	12262.67	
22	22.93	60.04	43.53	190.98	125.69	599.23	2088.10	278.60	1397.82	11858.72	305.47	311.57	17282.68	
23	22.37	39.29	57.61	747.11	106.82	1472.00	1668.18	653.22	1864.51	15264.92	284.49	233.21	22413.73	
24	22.37	44.98	48.30	839.03	100.79	970.22	879.67	949.02	3356.67	15163.07	266.96	159.10	22800.18	
25	23.50	233.21	44.25	471.33	133.90	496.70	1447.11	1078.87	3905.40	13667.01	249.87	136.12	21887.27	
26	24.65	255.52	39.29	266.96	131.69	388.30	1539.17	394.98	2822.51	11766.29	238.72	127.32	17995.40	
27	24.65	311.57	37.92	241.49	131.69	249.87	1455.39	278.60	1685.68	10678.87	225.05	125.69	15446.47	
28	24.65	278.60	35.89	299.42	120.86	238.72	956.07	272.76	1078.87	9348.98	235.96	149.74	13040.52	
29	24.07	296.41	35.22	511.42	371.78	203.83	1138.60	244.27	859.26	8847.21		188.45	12720.52	
30	24.07	323.91	36.56	530.06	872.85	193.53	2769.29	211.69	605.14	7749.60		225.05	13541.75	
31		136.12		261.22	623.00		3607.48		493.05	5095.71		201.23	10417.81	
Total	752.70	2481.10	1851.70	12275.70	10848.80	18184.20	29315.20	23089.00	236022.60	386731.30	19449.20	5772.40	746774.00	Tonday
Mean	25.10	80.00	61.70	396.00	350.00	606.10	945.70	769.60	7613.60	12475.20	694.60	186.20	2046.00	Ton/day
Max	28.20	323.90	261.20	1463.70	1373.40	2526.10	3607.50	3224.50	45604.60	32849.20	2912.10	311.60	45604.60	Ton/day
Min	22.40	21.30	35.20	36.60	100.80	122.50	193.50	211.70	206.40	537.60	225.00	125.70	21.30	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Wang Pa Khian.

Ban Wang Pa Khian **Amphoe** Langu **Changwat** Satun

Drainge Area	480 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US DH - 48
Period of Available Records	1998 - Cont' d
Actual Measurement	1998 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7785
Remarks	Continued Sediment Station

$$QS = 4.7897\ QW^{1.14030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.31	11.77	42.98	39.77	51.66	119.14	58.30	694.48	84.55	214.04	131.38	62.78	1531.16
2	20.31	10.86	30.36	33.46	52.76	98.69	52.76	733.91	317.80	1018.32	125.24	54.97	2549.44
3	18.37	9.96	42.98	28.31	57.19	85.72	69.57	326.97	467.01	814.05	117.92	56.08	2094.13
4	17.40	9.96	68.43	24.27	49.47	77.59	90.41	270.67	467.01	715.68	117.92	52.76	1961.57
5	17.40	9.96	39.77	22.28	50.57	82.23	72.99	610.50	437.38	403.29	115.50	49.47	1911.34
6	16.45	9.07	29.33	36.60	44.05	124.02	83.39	715.68	661.33	308.67	107.05	48.38	2184.02
7	14.55	9.07	25.27	111.87	38.71	577.89	93.95	886.36	339.86	667.34	101.07	47.30	2913.24
8	13.62	9.07	29.33	343.55	35.55	810.46	181.25	625.40	224.54	740.00	98.69	46.21	3157.67
9	13.62	10.86	96.31	133.84	33.46	249.25	159.22	462.21	200.15	1440.10	93.95	44.05	2937.02
10	13.62	10.86	46.21	83.39	33.46	155.86	215.79	1096.30	317.80	952.05	90.41	42.98	3058.73
11	13.62	9.07	30.36	74.14	34.50	120.36	127.69	664.33	182.96	384.49	88.06	41.91	1771.49
12	13.62	8.19	24.27	126.47	42.98	104.65	97.50	323.30	140.86	303.20	90.41	40.84	1316.29
13	12.69	7.32	22.28	103.46	50.57	98.69	91.59	272.47	126.47	242.15	83.39	39.77	1150.85
14	12.69	7.32	19.34	201.88	142.52	88.06	93.95	221.03	115.50	217.53	79.91	38.71	1238.44
15	12.69	7.32	18.37	110.66	81.06	81.06	89.24	303.20	110.66	198.43	78.75	38.71	1130.15
16	11.77	6.46	17.40	75.29	59.42	71.85	96.31	242.15	107.05	184.67	75.29	38.71	986.37
17	12.69	8.19	26.28	59.42	52.76	70.71	98.69	208.82	283.27	164.27	72.99	51.66	1109.75
18	12.69	14.55	56.08	53.87	45.13	81.06	150.84	165.96	165.96	160.90	71.85	41.91	1020.80
19	13.62	18.37	42.98	328.81	38.71	77.59	577.89	144.18	130.15	542.56	75.29	38.71	2028.86
20	12.69	21.29	51.66	124.02	34.50	103.46	1066.51	130.15	117.92	610.50	78.75	63.90	2415.35
21	12.69	27.29	164.27	98.69	31.39	130.15	377.01	125.24	193.25	483.84	69.57	66.16	1779.55
22	12.69	21.29	81.06	78.75	29.33	96.31	184.67	121.57	235.09	408.95	67.29	47.30	1384.30
23	11.77	20.31	52.76	447.87	38.71	152.51	137.55	181.25	285.08	295.94	65.03	40.84	1729.62
24	14.55	20.31	39.77	188.10	510.43	121.57	214.04	198.43	247.47	249.25	62.78	38.71	1905.41
25	13.62	49.47	33.46	157.54	1843.17	96.31	279.66	116.71	188.10	243.93	62.78	36.60	3121.35
26	13.62	46.21	29.33	126.47	1258.63	81.06	207.08	110.66	147.50	221.03	60.53	34.50	2336.62
27	13.62	72.99	35.55	117.92	315.97	74.14	207.08	97.50	176.13	201.88	60.53	34.50	1407.81
28	12.69	62.78	88.06	91.59	201.88	79.91	162.58	89.24	133.84	179.54	76.44	75.29	1253.84
29	16.45	59.42	91.59	89.24	354.66	76.44	457.43	83.39	116.71	159.22		79.91	1584.46
30	16.45	70.71	51.66	71.85	242.15	68.43	412.72	78.75	107.05	142.52		249.25	1511.54
31		65.03		59.42	145.84		339.86		104.65	132.61		108.25	955.66
Total	432.53	725.30	1427.52	3642.76	6001.22	4255.17	6547.52	10300.80	6933.11	13000.94	2418.77	1751.14	57436.77 Tonday
Mean	14.42	23.40	47.58	117.51	193.59	141.84	211.21	343.36	223.65	419.39	86.38	56.49	157.36 Ton/day
Max	20.31	72.99	164.27	447.87	1843.17	810.46	1066.51	1096.30	661.33	1440.10	131.38	249.25	1843.17 Ton/day
Min	11.77	6.46	17.40	22.28	29.33	68.43	52.76	78.75	84.55	132.61	60.53	34.50	6.46 Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Hin Dan , Phangnga (X.187)

Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

Ban Hin Dan **Amphoe** Ta Kuaw Pa **Changwat** Phangnga

Drainge Area	546 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH - 48
Period of Available Records	2003 - Cont' d
Actual Measurement	2003 - 2008, 2010 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	15
R-Square	0.7451
Remarks	Continued Sediment Station

$$QS = 8.3881\ QW^{1.06970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	67.25	41.92	2132.28	2440.01	1230.65	2944.43	2219.93	1324.01	583.94	87.99	87.99	87.99	13248.39	
2	67.25	41.92	1417.81	1606.61	1057.61	2001.26	2395.89	1324.01	667.12	87.99	87.99	87.99	10843.45	
3	67.25	41.92	1493.15	1606.61	1057.61	1701.56	3771.61	1324.01	717.36	87.99	87.99	87.99	12045.05	
4	67.25	41.92	1417.81	1606.61	1057.61	4770.78	7031.06	1324.01	717.36	87.99	87.99	87.99	18298.38	
5	67.25	41.92	717.36	1230.65	1057.61	3905.36	4230.24	1324.01	667.12	87.99	87.99	87.99	13505.49	
6	67.25	41.92	717.36	1230.65	1057.61	4684.01	3587.55	1324.01	583.94	87.99	87.99	87.99	13558.27	
7	67.25	41.92	717.36	3486.45	1057.61	7067.24	3284.81	1324.01	550.87	102.70	87.99	87.99	17876.20	
8	67.25	41.92	717.36	3664.84	1455.45	4343.40	4456.75	1324.01	550.87	140.07	87.99	87.99	16937.90	
9	67.25	41.92	550.87	3851.82	1796.86	2991.77	3587.55	1324.01	550.87	182.49	87.99	87.99	15121.39	
10	67.25	41.92	550.87	1796.86	2219.93	2241.88	2897.13	1324.01	505.04	192.38	87.99	87.99	12013.25	
11	67.25	41.92	550.87	1417.81	5279.83	2219.93	2897.13	1324.01	429.26	162.82	87.99	87.99	14566.81	
12	67.25	41.92	399.18	1606.61	5970.87	1606.61	2219.93	1324.01	357.78	162.82	87.99	87.99	13932.96	
13	67.25	87.99	399.18	1606.61	5654.83	1796.86	2219.93	1324.01	289.48	162.82	87.99	87.99	13784.94	
14	67.25	102.70	520.29	1777.78	5279.83	1606.61	1898.88	1324.01	232.24	162.82	87.99	87.99	13148.39	
15	67.25	162.82	1417.81	2001.26	4173.74	1606.61	1898.88	1324.01	182.49	162.82	87.99	87.99	13173.67	
16	67.25	162.82	1417.81	1230.65	3134.11	3110.36	3562.26	1324.01	140.07	162.82	87.99	87.99	14488.14	
17	67.25	140.07	1417.81	1230.65	2440.01	3385.53	2440.01	1230.65	102.70	162.82	87.99	87.99	12793.48	
18	67.25	162.82	1417.81	1230.65	1796.86	2001.26	5497.23	1230.65	87.99	162.82	87.99	87.99	13831.32	
19	67.25	399.18	1230.65	1230.65	1606.61	1606.61	8197.33	1230.65	87.99	162.82	87.99	87.99	15995.72	
20	67.25	262.45	886.42	1230.65	1606.61	7583.38	9298.02	1230.65	87.99	155.21	87.99	87.99	22584.61	
21	67.25	262.45	1230.65	1040.41	1230.65	7923.61	4428.39	1230.65	87.99	147.63	87.99	132.54	17870.21	
22	62.12	262.45	1230.65	1040.41	1230.65	7961.48	7507.90	1230.65	87.99	140.07	87.99	125.03	20967.39	
23	57.02	262.45	886.42	1040.41	1230.65	4712.47	4740.94	1324.01	87.99	132.54	87.99	87.99	14650.88	
24	51.96	3851.82	903.44	971.77	1267.94	3511.71	3905.36	1324.01	87.99	125.03	87.99	87.99	16177.01	
25	46.92	5339.93	886.42	852.42	1195.91	4173.74	3435.96	1324.01	87.99	125.03	87.99	87.99	17644.31	
26	41.92	2708.44	886.42	717.36	988.90	4093.10	2351.82	1230.65	87.99	125.03	87.99	87.99	13407.61	
27	41.92	3638.18	886.42	633.76	988.90	5907.58	1701.56	1143.92	87.99	125.03	87.99	87.99	15331.24	
28	41.92	2088.55	801.59	1417.81	1195.91	3486.45	1701.56	1057.61	87.99	125.03	87.99	87.99	12180.40	
29	41.92	2779.10	3309.97	1417.81	1230.65	2661.40	1701.56	971.77	87.99	110.11		87.99	14400.27	
30	41.92	2001.26	4428.39	1417.81	2329.80	2219.93	1701.56	886.42	87.99	95.33		767.83	15978.24	
31		2088.55		1267.94	5781.11		1324.01		87.99	87.99		550.87	11188.46	
Total	1839.80	27267.00	35540.40	48902.30	68662.90	109826.90	112092.80	37830.50	9060.30	4105.00	2463.60	3951.90	461543.50	Tonday
Mean	61.30	879.60	1184.70	1577.50	2214.90	3660.90	3615.90	1261.00	292.30	132.40	88.00	127.50	1264.50	Ton/day
Max	67.20	5339.90	4428.40	3851.80	5970.90	7961.50	9298.00	1324.00	717.40	192.40	88.00	767.80	9298.00	Ton/day
Min	41.90	41.90	399.20	633.80	988.90	1606.60	1324.00	886.40	88.00	88.00	88.00	88.00	41.90	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

Lat 07 - 53 - 20 N Long 98 - 23 - 40 E

Location : on left bank at Satree Phuket School.

Ban - **Amphoe** Mueang **Changwat** Phuket

Drainge Area	54 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH - 48
Period of Available Records	2006 - Cont' d
Actual Measurement	2006 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	18
R-Square	0.7347
Remarks	Continued Sediment Station

$$QS = 15.5750\ QW^{1.18110}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.75	5.12	25.14	14.84	23.18	66.78	79.37	114.15	28.74	6.22	14.11	11.26	394.66
2	5.75	5.12	23.18	13.39	31.18	34.90	381.51	127.49	29.96	5.75	16.50	11.97	686.70
3	5.75	5.75	104.23	14.11	90.10	51.00	265.92	87.94	36.15	6.22	17.43	11.97	696.57
4	5.12	5.75	29.96	25.14	24.16	52.55	147.27	166.14	31.18	10.57	18.37	6.87	523.08
5	5.12	5.75	20.27	14.84	33.65	29.96	169.31	150.39	32.42	32.42	17.43	11.26	522.82
6	5.12	5.12	16.50	14.84	15.58	240.25	99.32	96.88	31.18	66.78	14.84	11.97	618.38
7	5.75	5.75	99.32	46.40	66.78	222.17	81.50	87.94	29.96	251.20	10.57	10.57	917.91
8	5.75	5.75	25.14	26.33	22.20	425.44	60.62	121.92	26.33	368.93	12.68	9.19	1110.28
9	5.75	5.75	16.50	16.50	22.20	254.87	47.93	83.64	22.20	111.65	11.97	15.58	614.54
10	5.75	5.75	13.39	16.50	60.62	124.70	51.00	77.25	22.20	60.62	11.97	8.02	457.77
11	5.12	5.75	13.39	25.14	62.66	83.64	60.62	87.94	21.23	36.15	11.97	8.52	422.13
12	5.75	5.75	13.39	480.96	34.90	79.37	75.14	66.78	12.68	26.33	12.68	6.87	820.60
13	5.75	5.75	27.54	90.10	36.15	70.94	60.62	60.62	21.23	21.23	11.97	6.87	418.77
14	5.75	5.75	14.84	73.04	29.96	44.88	92.27	58.59	6.22	19.32	13.39	7.36	371.37
15	6.22	5.75	28.74	43.37	19.32	37.41	81.50	47.93	5.12	17.43	12.68	6.87	312.34
16	5.75	5.75	101.77	23.18	31.18	41.87	81.50	46.40	5.75	14.84	13.39	33.65	405.03
17	6.22	17.43	70.94	22.20	17.43	96.88	277.04	44.88	6.22	26.33	11.97	6.87	604.41
18	5.12	6.87	43.37	23.18	25.14	106.69	254.87	44.88	5.75	49.46	12.68	6.22	584.23
19	5.75	5.75	26.33	25.14	19.32	147.27	476.29	51.00	6.22	34.90	13.39	6.22	817.58
20	5.75	5.75	18.37	33.65	14.11	68.86	175.70	79.37	6.22	20.27	12.68	7.36	448.09
21	5.75	9.88	16.50	24.16	13.39	60.62	138.74	47.93	5.75	17.43	11.97	9.19	361.31
22	5.75	7.36	20.27	24.16	13.39	153.52	124.70	41.87	15.58	18.37	12.68	7.36	445.01
23	5.12	6.87	20.27	34.90	15.58	144.42	121.92	96.88	22.20	21.23	11.97	10.57	511.93
24	5.12	121.92	18.37	28.74	121.92	90.10	147.27	44.88	7.36	20.27	12.68	7.36	625.99
25	5.75	109.17	14.11	27.54	439.22	73.04	116.65	40.37	5.75	14.84	12.68	9.19	868.31
26	5.75	162.97	14.84	18.37	90.10	46.40	85.78	28.74	5.75	13.39	11.97	9.19	493.25
27	5.12	23.18	14.11	14.11	52.55	291.97	104.23	31.18	5.75	14.11	19.32	11.97	587.60
28	5.12	33.65	15.58	43.37	36.15	138.74	81.50	32.42	4.66	19.32	19.32	9.19	439.02
29	5.12	135.91	31.18	38.89	58.59	254.87	697.49	27.54	5.12	18.37		10.57	1283.65
30	5.12	44.88	23.18	22.20	49.46	101.77	169.31	27.54	13.39	16.50		7.36	480.71
31		27.54		15.58	133.10		94.45		9.19	15.58		6.22	301.66
Total	166.50	809.20	920.70	1334.90	1703.30	3635.90	4901.30	2121.50	487.50	1376.10	385.20	303.60	18145.70 Tonday
Mean	5.60	26.10	30.70	43.10	54.90	121.20	158.10	70.70	15.70	44.40	13.80	9.80	49.70 Ton/day
Max	6.20	163.00	104.20	481.00	439.20	425.40	697.50	166.10	36.20	368.90	19.30	33.70	697.50 Ton/day
Min	5.10	5.10	13.40	13.40	13.40	30.00	47.90	27.50	4.70	5.70	10.60	6.20	4.70 Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

Location : on right bank at Ban Yan Ta Khaow.

Ban Yan Ta Khaow **Amphoe** Yan Ta Khaow **Changwat** Trang

Drainge Area	587 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH-49
Period of Available Records	2005 - Cont' d
Actual Measurement	2005 - 2006, 2010 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	20
R-Square	0.7041
Remarks	Continued Sediment Station

$$QS = 0.6228\ QW^{1.61330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.93	25.36	1015.77	60.01	169.41	638.60	71.88	533.53	155.91	221.24	140.70	76.15	3127.49	
2	14.21	23.53	822.76	58.81	164.86	470.24	64.99	545.36	487.20	239.79	120.03	67.71	3079.49	
3	17.84	24.14	603.93	57.63	164.86	362.01	171.70	404.72	1764.48	426.14	101.04	62.42	4160.91	
4	21.76	23.53	470.24	67.71	160.36	305.11	212.87	357.50	2950.69	1152.85	80.76	54.13	5857.51	
5	27.87	22.35	362.01	69.09	140.70	280.11	169.41	475.87	3646.02	815.06	77.59	42.93	6129.01	
6	34.63	21.76	114.07	73.29	124.06	366.54	167.13	710.14	1889.88	739.55	67.71	33.85	4342.61	
7	40.30	18.38	87.24	124.06	110.24	838.25	181.33	674.01	941.58	1049.42	64.99	30.47	4160.27	
8	44.86	31.14	93.91	153.70	118.03	1231.04	371.09	645.62	510.17	949.72	66.35	32.48	4248.11	
9	46.82	41.98	88.89	160.36	114.07	807.38	481.52	464.64	305.11	1032.54	69.09	37.02	3649.42	
10	44.86	38.65	71.88	112.11	101.04	521.80	481.52	557.29	389.51	761.91	71.88	41.14	3193.59	
11	38.65	36.22	54.13	93.91	88.89	384.87	366.54	442.49	313.62	521.80	74.71	45.83	2461.66	
12	31.14	45.83	45.83	183.85	130.21	300.88	280.11	404.72	276.02	362.01	82.36	47.81	2190.77	
13	22.94	44.86	40.30	155.91	204.62	296.68	280.11	399.43	204.62	276.02	70.48	50.82	2046.79	
14	15.73	41.98	38.65	218.43	1100.67	253.46	267.91	371.09	169.41	243.18	62.42	51.85	2834.78	
15	11.36	52.98	37.83	253.46	1126.65	233.06	296.68	431.56	160.36	215.64	56.45	47.81	2923.84	
16	12.76	54.13	40.30	174.00	974.29	224.05	292.50	399.43	153.70	194.08	49.81	37.83	2606.88	
17	15.22	60.01	62.42	164.86	447.99	233.06	263.89	394.16	144.99	162.60	41.98	40.30	2031.48	
18	18.38	44.86	120.03	188.94	233.06	243.18	357.50	305.11	136.47	155.91	34.63	36.22	1874.29	
19	21.76	35.42	85.60	330.91	201.90	246.59	603.93	246.59	124.06	221.24	37.02	31.81	2186.83	
20	24.14	38.65	79.17	300.88	176.31	459.06	1144.09	210.10	102.86	215.64	33.85	29.81	2814.56	
21	27.87	29.81	112.11	688.37	160.36	380.26	846.04	196.68	95.67	339.69	29.16	73.29	2979.31	
22	30.47	33.16	116.04	389.51	149.32	309.35	590.26	218.43	147.15	330.91	30.47	50.82	2395.89	
23	33.16	43.89	102.86	838.25	136.47	515.97	426.14	305.11	226.88	233.06	46.82	41.14	2949.75	
24	38.65	42.93	90.55	545.36	313.62	384.87	631.61	243.18	224.05	201.90	57.63	39.47	2813.82	
25	35.42	54.13	83.97	437.01	999.10	276.02	815.06	201.90	169.41	224.05	41.14	41.14	3378.35	
26	31.81	97.45	74.71	330.91	551.32	212.87	674.01	186.39	134.37	201.90	46.82	45.83	2588.39	
27	27.87	181.33	67.71	300.88	389.51	201.90	869.56	181.33	153.70	199.28	61.21	50.82	2685.10	
28	25.36	877.45	56.45	260.40	288.35	226.88	761.91	171.70	128.15	186.39	82.36	63.64	3129.04	
29	23.53	917.33	49.81	267.91	539.43	292.50	885.38	155.91	114.07	167.13		73.29	3486.29	
30	20.04	901.30	52.98	218.43	784.52	246.59	861.69	151.50	106.52	151.50		97.45	3592.52	
31		925.39		181.33	539.43		624.64		110.24	142.84		80.76	2604.63	
Total	818.30	4830.00	5142.20	7460.30	10903.60	11743.20	14513.00	10985.50	16436.80	12335.00	1799.50	1556.10	98523.40	Tonday
Mean	27.30	155.80	171.40	240.70	351.70	391.40	468.20	366.20	530.20	397.90	64.30	50.20	514.80	Ton/day
Max	46.80	925.40	1015.80	838.30	1126.60	1231.00	1144.10	710.10	3646.00	1152.90	140.70	97.50	3646.00	Ton/day
Min	11.40	18.40	37.80	57.60	88.90	201.90	65.00	151.50	95.70	142.80	29.20	29.80	11.40	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

Ban Bang Tong **Amphoe** Mueang **Changwat** Phangnga

Drainge Area	242 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH - 48
Period of Available Records	2005 - Cont' d
Actual Measurement	2005 - Cont' d
Using Rating Curve Water Year	2016
Number of observation	14
R-Square	0.7225
Remarks	Continued Sediment Station

$$QS = 6.2297\ QW^{1.03020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.59	6.23	607.02	238.47	106.99	488.48	546.93	298.66	99.32	86.82	115.37	95.15	2695.03	
2	5.59	6.23	385.99	255.63	106.99	320.25	1001.36	277.12	99.32	86.82	115.37	90.98	2751.65	
3	5.59	6.23	687.91	129.37	106.99	346.21	671.71	255.63	99.32	90.98	115.37	86.82	2602.13	
4	5.59	6.23	1140.91	129.37	104.20	823.83	851.99	242.75	99.32	93.06	115.37	82.66	3695.28	
5	5.59	6.23	704.13	129.37	104.20	679.81	679.81	229.90	97.23	95.15	115.37	78.51	2925.30	
6	4.95	6.23	476.82	298.66	104.20	832.72	615.10	221.35	97.23	101.41	112.57	74.36	2945.60	
7	4.95	6.23	365.72	1272.72	101.41	1961.46	832.72	214.22	97.23	106.99	112.57	72.29	5148.51	
8	4.95	6.23	302.98	671.71	101.41	1200.77	3260.28	203.55	97.23	115.37	109.78	70.23	6144.49	
9	4.95	6.23	171.64	506.00	101.41	770.56	3046.91	200.00	97.23	115.37	109.78	66.10	5196.18	
10	4.95	6.23	118.16	174.47	101.41	506.00	590.88	189.35	97.23	123.76	106.99	61.97	2081.40	
11	4.31	6.23	115.37	129.37	401.21	459.34	459.34	177.30	97.23	129.37	106.99	59.91	2145.97	
12	4.31	6.23	109.78	412.81	607.02	459.34	346.21	168.81	95.15	134.99	106.99	56.49	2508.13	
13	4.31	6.23	104.20	488.48	752.83	598.95	294.35	154.69	95.15	134.99	106.99	53.07	2794.24	
14	4.31	6.23	99.32	360.66	945.54	1023.71	277.12	143.42	95.15	134.99	106.99	51.36	3248.80	
15	4.31	6.23	134.99	302.98	945.54	1545.05	391.06	132.18	95.15	132.18	106.99	47.95	3844.61	
16	4.31	15.35	207.11	207.11	720.35	1602.41	561.57	129.37	93.06	132.18	104.20	44.55	3821.57	
17	4.31	8.81	277.12	171.64	517.68	814.95	779.43	126.57	93.06	132.18	104.20	39.46	3069.41	
18	4.31	8.81	251.33	157.51	590.88	517.68	1200.77	123.76	93.06	132.18	104.20	36.07	3220.56	
19	4.31	49.65	185.81	134.99	590.88	568.89	1915.90	115.37	93.06	132.18	104.20	31.02	3926.26	
20	4.31	84.74	180.14	126.57	590.88	924.73	956.70	115.37	93.06	129.37	104.20	27.66	3337.73	
21	5.59	90.98	192.90	123.76	506.00	1164.85	488.48	112.57	90.98	129.37	101.41	23.31	3030.20	
22	7.52	95.15	189.35	120.96	324.57	1296.73	436.06	106.99	90.98	129.37	101.41	20.65	2919.74	
23	8.16	134.99	182.97	118.16	264.22	823.83	407.01	106.99	90.98	129.37	101.41	19.32	2387.41	
24	7.52	539.61	174.47	115.37	221.35	539.61	396.13	101.41	90.98	129.37	101.41	17.99	2435.22	
25	6.87	841.61	140.61	115.37	207.11	744.71	385.99	101.41	88.90	129.37	99.32	15.35	2876.62	
26	6.87	752.83	129.37	109.78	180.14	696.02	375.85	101.41	88.90	129.37	99.32	14.04	2683.90	
27	6.87	687.91	129.37	101.41	163.16	945.54	370.79	99.32	88.90	126.57	99.32	12.72	2831.88	
28	6.87	517.68	129.37	101.41	160.34	539.61	365.72	99.32	88.90	126.57	99.32	12.07	2247.18	
29	6.23	375.85	380.92	115.37	350.55	324.57	350.55	99.32	86.82	120.96		12.07	2223.21	
30	6.23	370.79	546.93	109.78	447.69	229.90	346.21	99.32	86.82	120.96		200.00	2564.63	
31		500.16		106.99	788.31		341.88		86.82	118.16		134.99	2077.31	
Total	164.60	5168.40	8822.70	7536.20	11315.40	23750.50	23544.80	4747.40	2903.70	3729.80	2987.30	1709.10	96380.00	Tonday
Mean	5.50	166.70	294.10	243.10	365.00	791.70	759.50	158.20	93.70	120.30	106.70	55.10	264.10	Ton/day
Max	8.20	841.60	1140.90	1272.70	945.50	1961.50	3260.30	298.70	99.30	135.00	115.40	200.00	3260.30	Ton/day
Min	4.30	6.20	99.30	101.40	101.40	229.90	277.10	99.30	86.80	86.80	99.30	12.10	4.30	Ton/day

WATER YEAR : 2016

SOUTHERN PENINSULA WEST COAST

Khlong Duson at Ban Panjor , Satun (X.279)

Lat 06 - 46 - 39 N Long 100 - 04 - 16 E

Location : on right bank at Ban Panjor.

	Ban Panjor		**Amphoe** Khuan Don	**Changwat** Satun	
Drainge Area	262 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US DH - 48				
Period of Available Records	2013 - Cont' d				
Actual Measurement	2013 - Cont' d				
Using Rating Curve Water Year	2016				
Number of observation	15				
R-Square	0.7334				
Remarks	Continued Sediment Station				

$QS = 3.7748\ QW^{1.12180}$

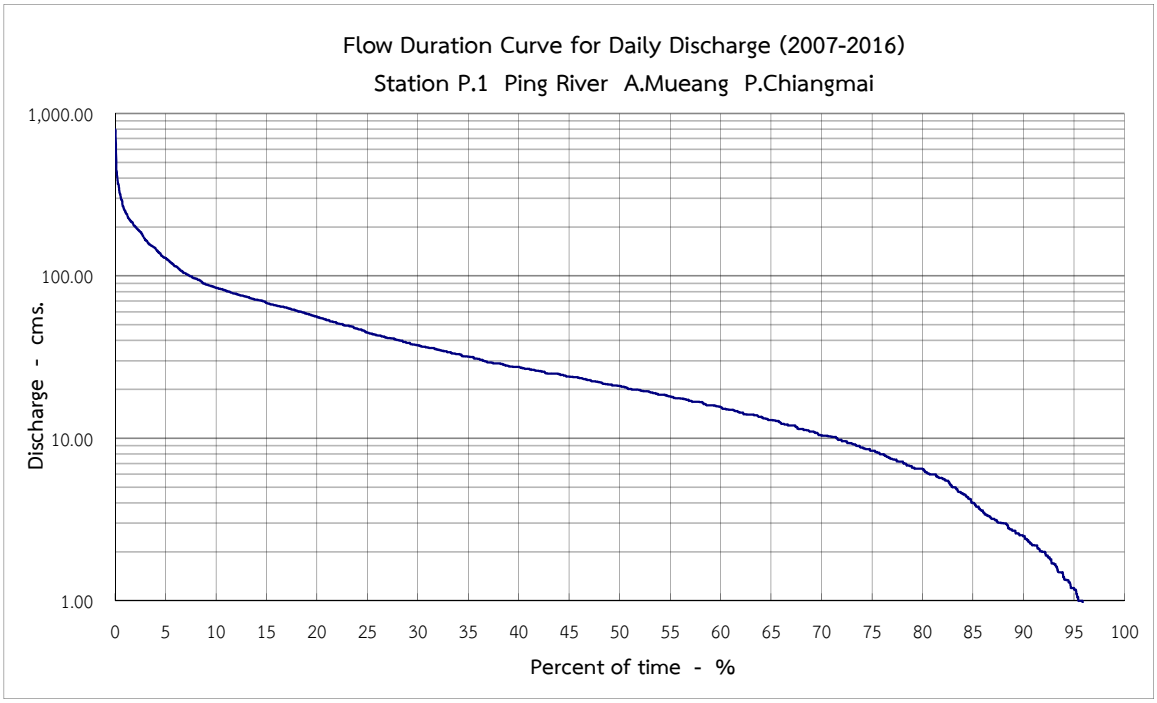
Suspended Sediment , in Tons per Day. Water Year 1 April 2016 to 31 March 2017

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.91	0.84	3.60	2.10	2.73	5.80	3.10	16.68	6.55	18.48	6.77	3.90	71.46	
2	0.77	0.84	2.91	1.96	2.73	4.70	3.00	15.00	32.40	30.00	6.55	3.80	104.66	
3	0.84	0.91	4.70	1.89	2.37	4.20	3.70	14.70	25.40	15.90	6.22	3.80	84.63	
4	0.77	0.91	5.40	1.75	2.37	4.00	5.90	12.66	13.50	10.80	6.00	3.70	67.76	
5	0.91	0.77	3.60	1.19	2.91	4.10	4.20	19.56	11.19	9.02	5.90	3.60	66.95	
6	0.63	0.84	2.91	1.54	2.37	5.00	3.80	48.72	24.00	8.54	5.70	3.50	107.55	
7	0.77	0.77	2.64	3.70	2.03	26.80	5.30	24.60	11.84	43.44	5.60	3.40	130.89	
8	0.84	0.77	3.60	4.30	2.46	31.44	9.63	19.02	8.90	54.20	5.60	3.30	144.06	
9	0.63	0.77	8.18	4.00	2.10	16.68	9.02	15.00	8.06	52.95	5.40	3.20	125.99	
10	0.49	0.84	4.00	3.20	2.03	8.66	13.22	21.24	10.02	28.20	5.30	3.10	100.30	
11	0.56	0.91	2.91	2.91	2.55	6.33	10.02	13.22	7.34	19.74	5.20	3.10	74.79	
12	0.49	0.77	2.55	3.40	2.73	5.60	6.33	10.67	6.66	13.65	5.20	3.00	61.05	
13	0.63	0.84	2.46	3.20	5.30	5.60	6.11	9.14	5.80	11.71	5.00	2.91	58.70	
14	0.63	1.33	2.46	3.50	4.20	4.90	5.90	8.90	5.60	10.28	5.00	2.82	55.52	
15	0.49	2.10	2.28	3.00	3.30	4.50	6.11	10.80	6.33	9.76	4.80	2.73	56.20	
16	0.49	2.37	2.10	2.55	3.10	4.20	5.30	8.42	5.60	9.50	4.70	2.73	51.06	
17	0.56	1.75	2.82	3.50	2.91	4.40	7.34	7.46	6.99	8.78	4.60	4.10	55.21	
18	0.56	3.60	3.60	6.22	2.73	4.70	28.80	7.10	7.46	8.18	4.50	3.20	80.65	
19	0.70	2.19	2.82	5.90	2.28	4.40	37.68	6.88	6.88	19.02	4.50	3.10	96.35	
20	0.98	3.00	2.64	6.88	2.03	8.06	36.72	6.66	15.15	19.56	4.40	5.10	111.18	
21	1.05	2.19	2.82	8.66	1.89	7.46	18.30	7.10	14.10	20.86	4.30	5.00	93.73	
22	1.19	2.28	2.55	5.50	1.75	5.80	11.06	7.94	11.06	13.95	4.20	4.20	71.48	
23	0.84	2.46	2.37	3.80	1.68	5.70	8.54	10.02	7.94	11.32	4.10	3.60	62.37	
24	1.26	2.46	2.19	10.02	31.68	5.40	12.24	7.94	9.63	10.28	4.10	3.80	101.00	
25	1.12	2.55	1.82	1.82	58.10	4.80	13.95	6.22	6.99	11.19	4.00	3.10	115.66	
26	0.70	2.28	1.68	4.40	20.48	4.20	10.80	5.50	6.22	9.76	3.90	2.91	72.83	
27	0.63	2.19	1.68	5.40	11.45	3.80	8.30	5.10	6.00	8.90	4.30	4.20	61.95	
28	0.77	3.50	2.28	5.40	8.06	3.70	8.66	4.80	5.70	8.30	4.40	5.60	61.17	
29	0.84	3.10	2.73	3.90	6.88	3.50	12.94	4.50	4.50	7.70		7.22	57.81	
30	0.77	2.73	2.28	3.10	5.80	3.40	11.71	4.60	6.00	7.34		11.06	58.79	
31		3.20		2.73	6.55		11.58		7.46	7.10		6.11	44.73	
Total	22.82	56.06	90.58	121.42	209.55	211.83	339.26	360.15	311.27	518.41	140.24	124.89	2506.48	Tonday
Mean	0.76	1.81	3.02	3.92	6.76	7.06	10.94	12.01	10.04	16.72	5.01	4.03	6.87	Ton/day
Max	1.26	3.60	8.18	10.02	58.10	31.44	37.68	48.72	32.40	54.20	6.77	11.06	58.10	Ton/day
Min	0.49	0.77	1.68	1.19	1.68	3.40	3.00	4.50	4.50	7.10	3.90	2.73	0.49	Ton/day

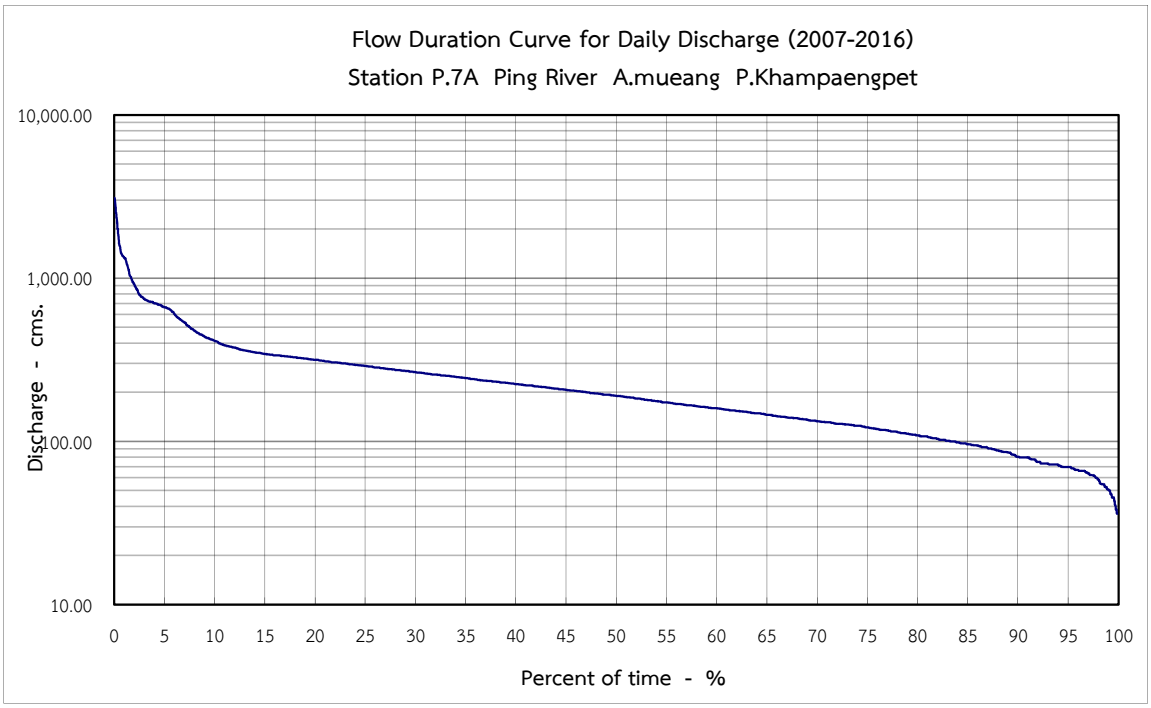
Appendix

Flow Duration Curve for Daily Discharge

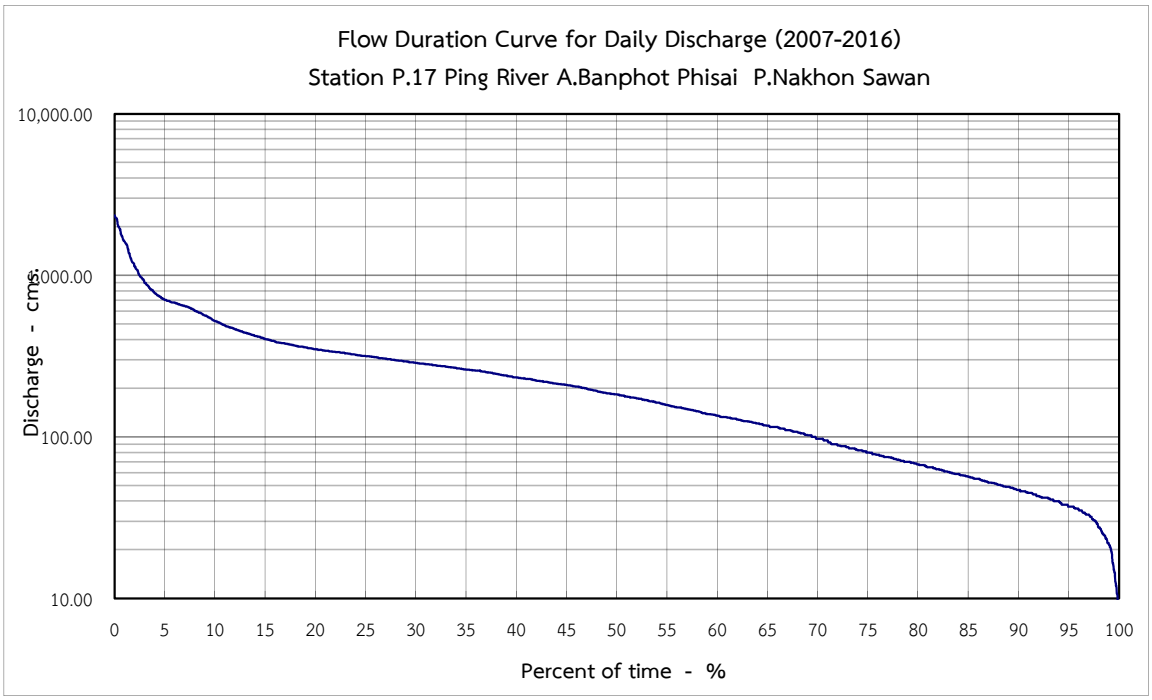
(2007-2016)



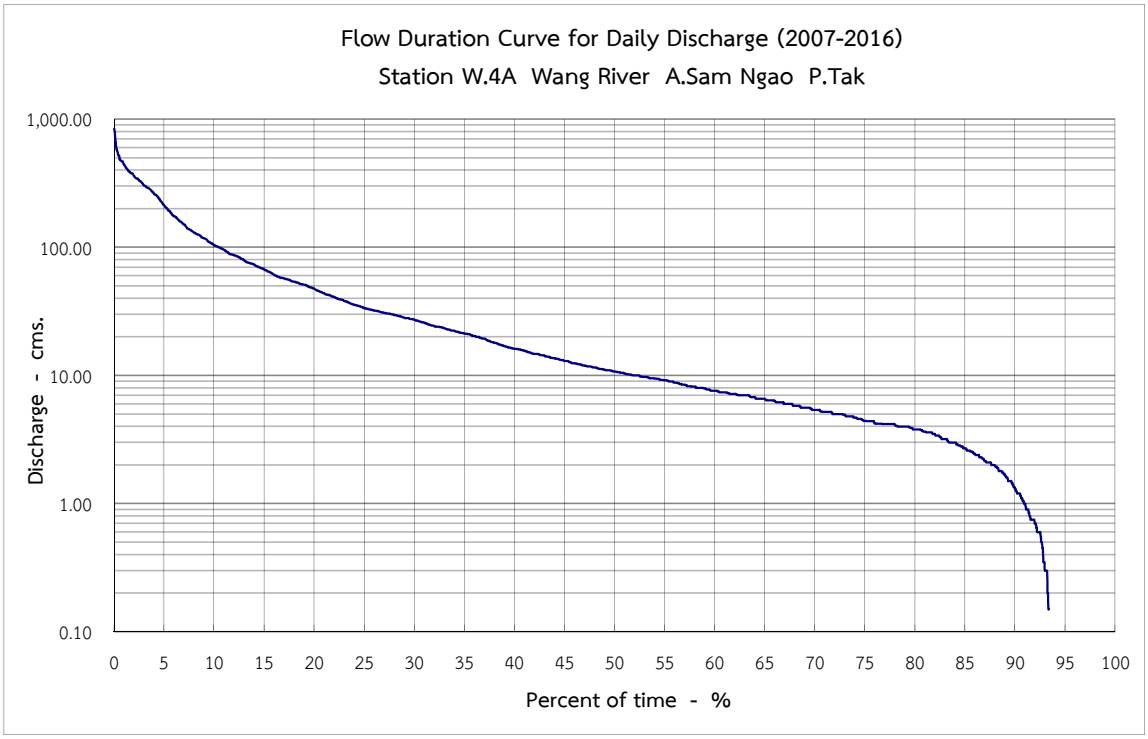
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	248.9	84.6	56.2	37.5	21.0	15.6	6.5	4.0	2.5	1.2	0.1



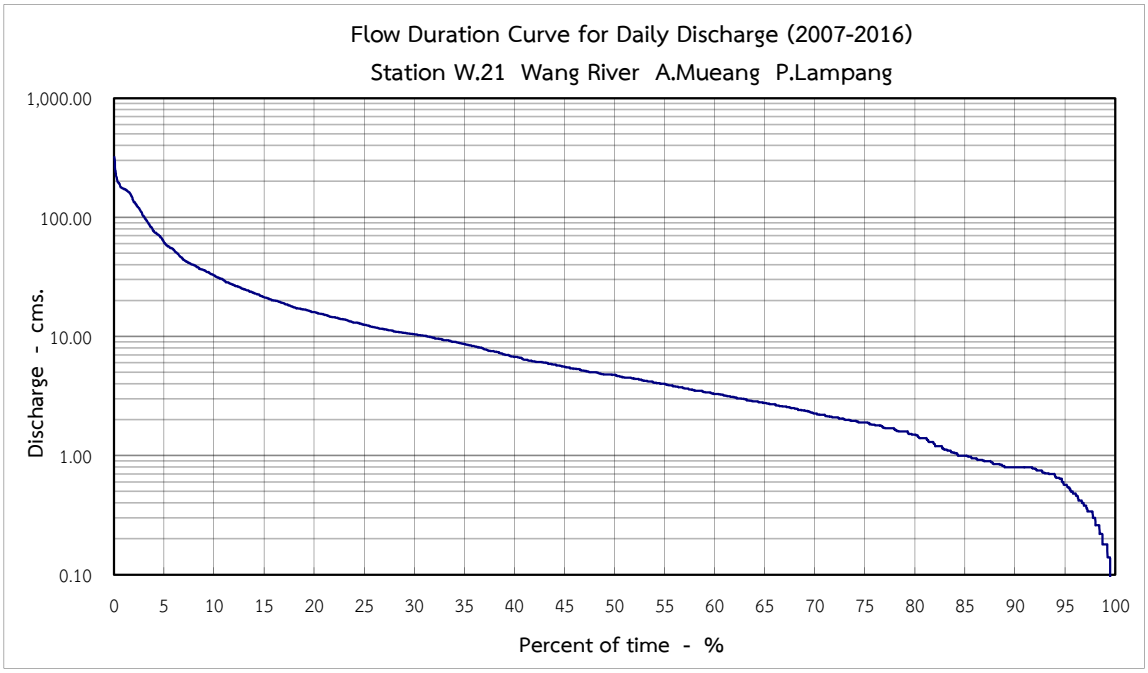
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,330.4	414.5	316.8	266.2	190.3	160.0	109.0	96.0	80.5	69.7	25.3



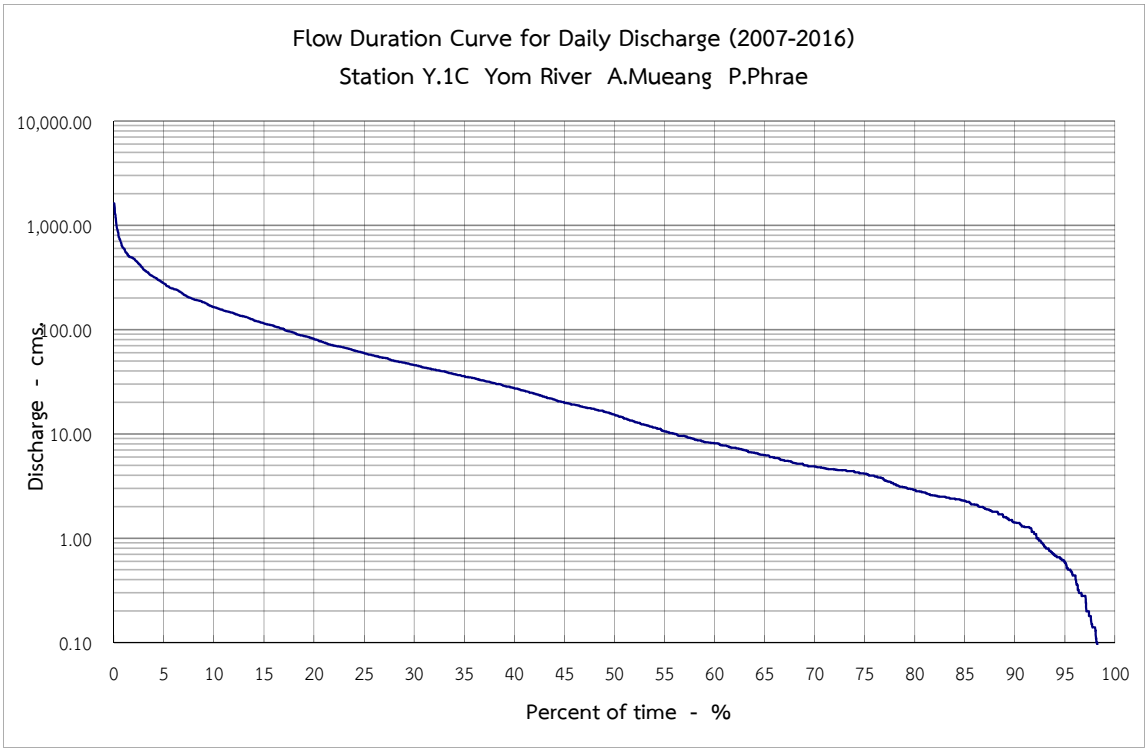
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,621.6	521.0	349.7	287.0	183.2	135.1	67.5	56.8	47.0	37.0	3.0



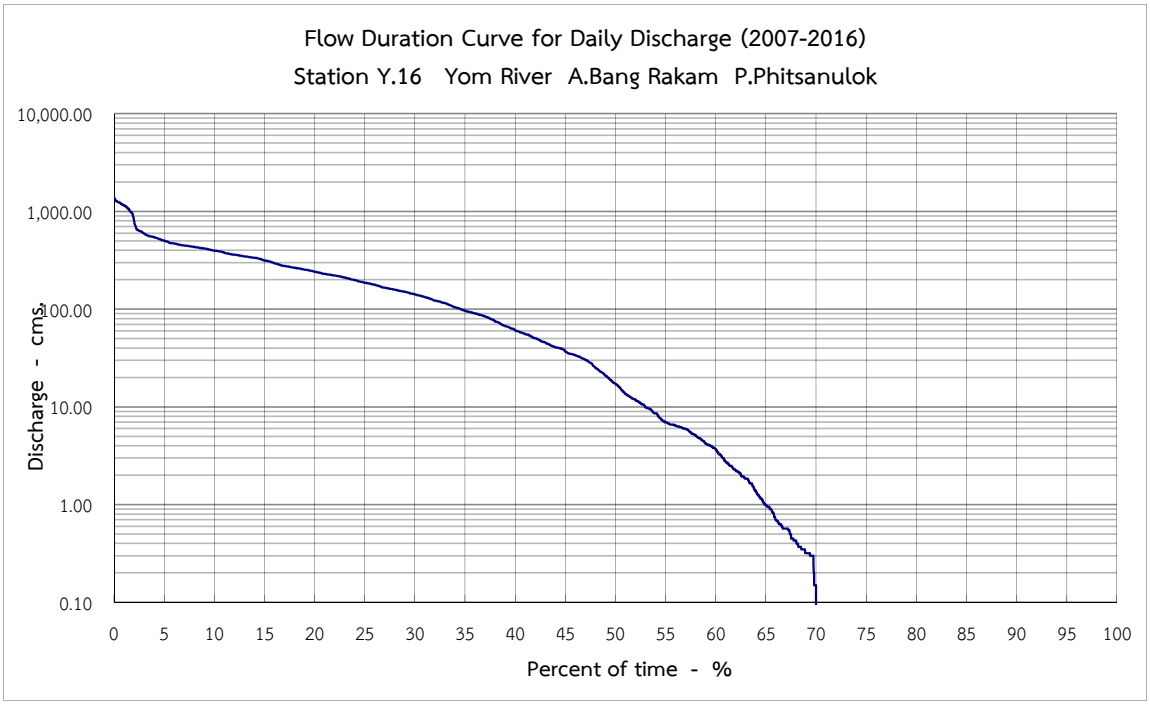
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	442.1	104.3	47.6	27.2	10.8	7.6	3.8	2.7	1.3	0.0	0.0



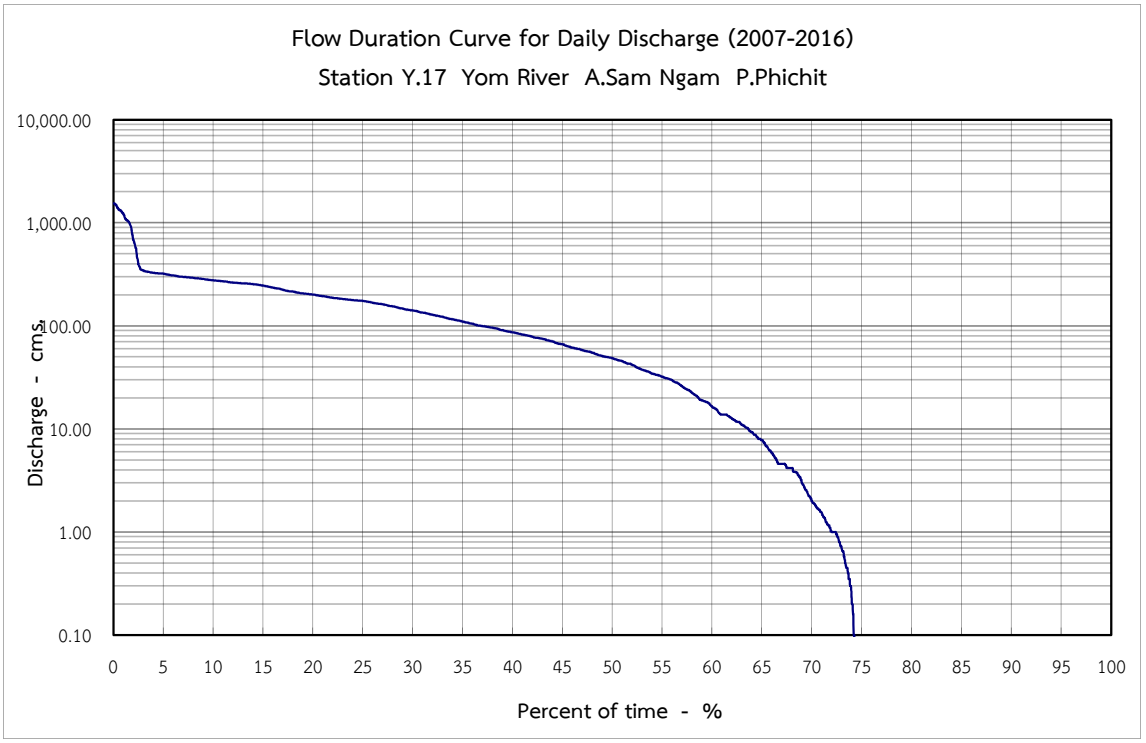
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	172.8	32.6	16.0	10.5	4.8	3.3	1.5	1.0	0.8	0.6	0.0



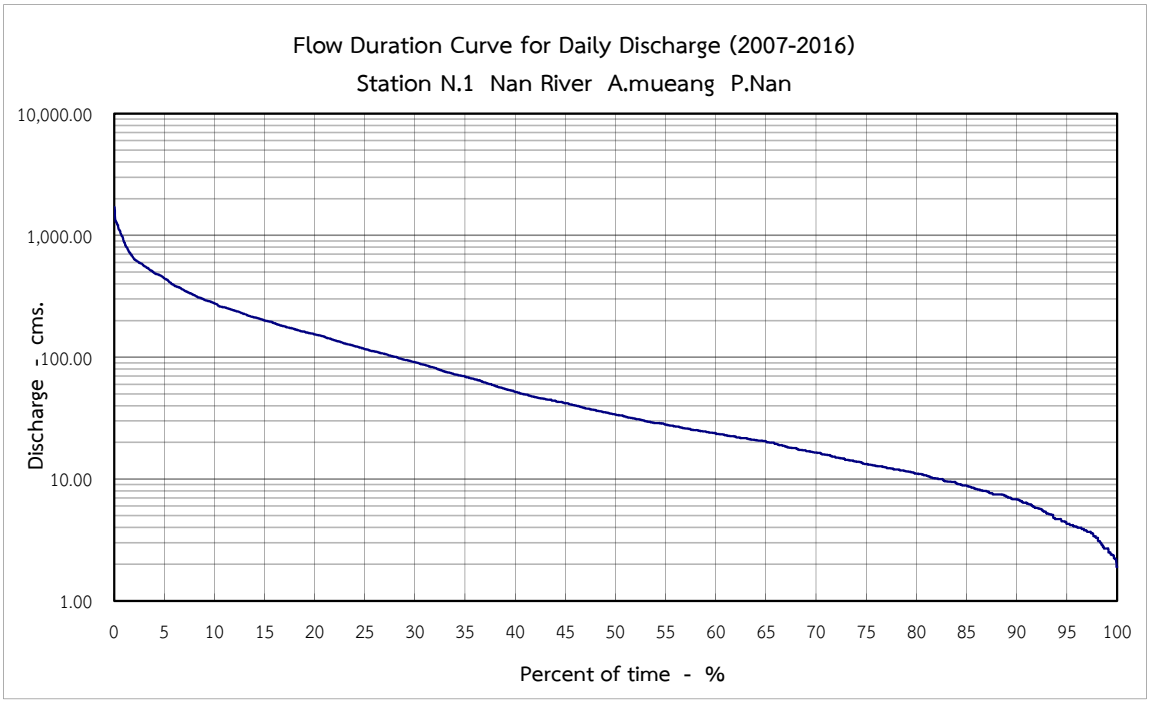
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	597.4	164.5	81.2	45.8	15.4	8.1	2.9	2.3	1.4	0.6	0.0



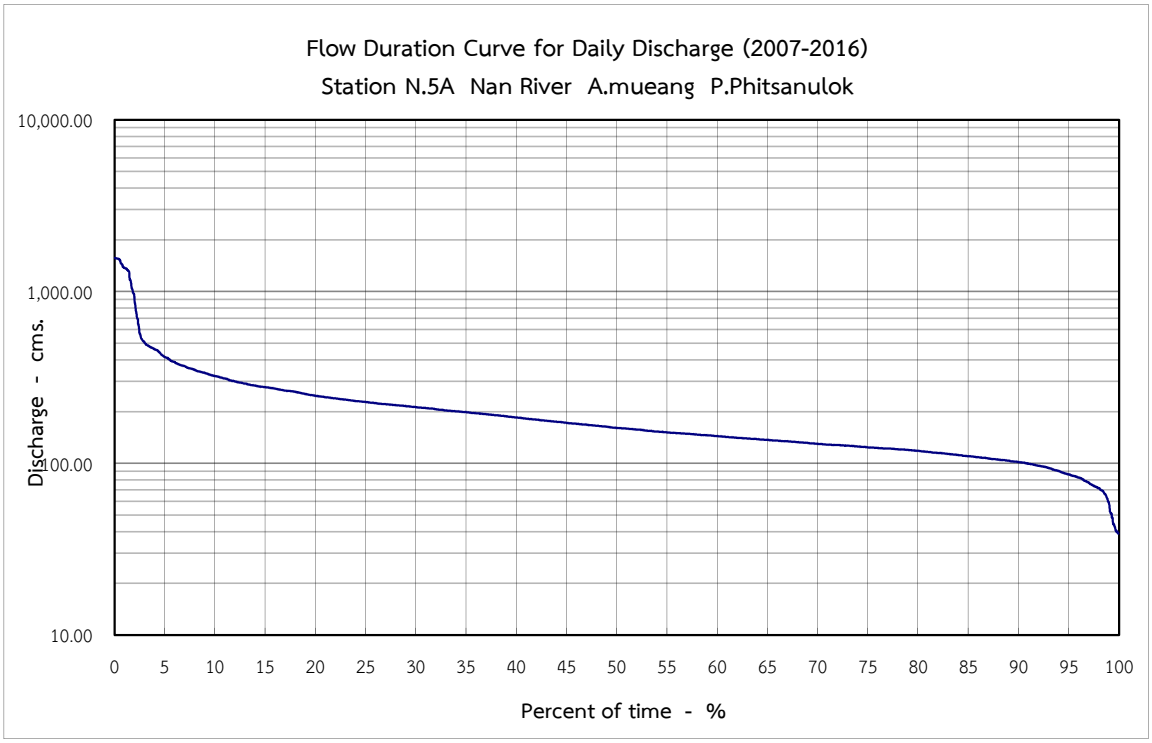
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,154.0	399.0	242.8	142.2	17.2	3.7	0.0	0.0	0.0	0.0	0.0



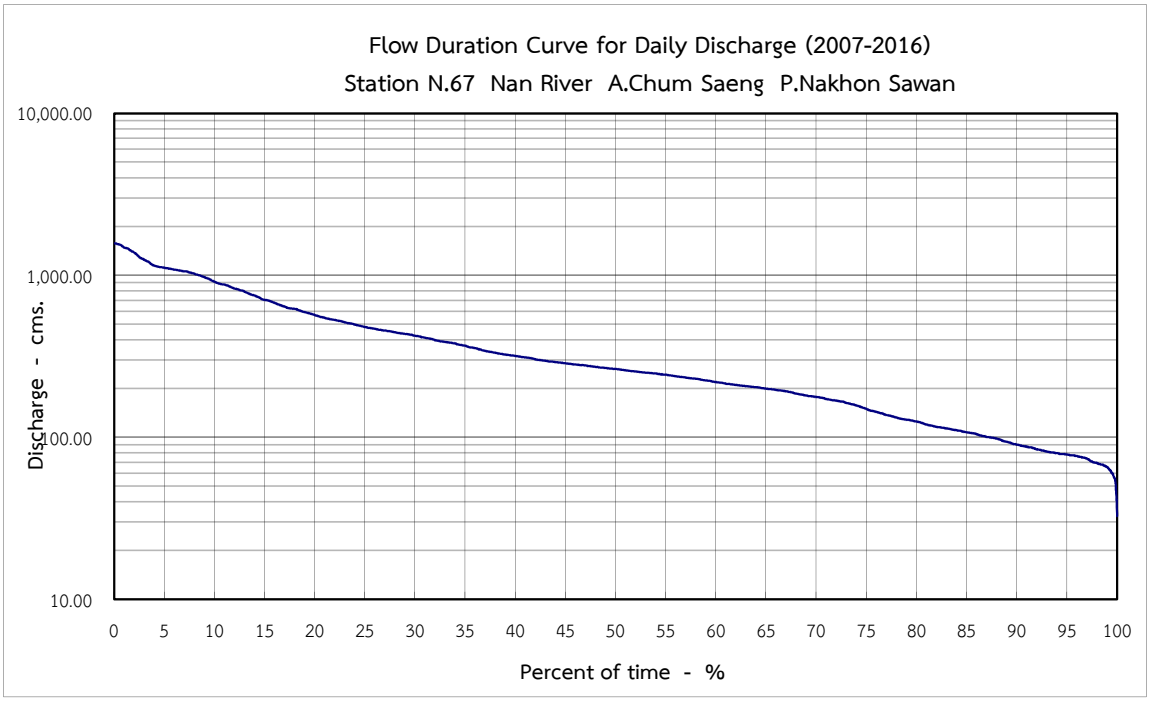
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,228.6	277.2	201.7	141.6	48.6	16.5	0.0	0.0	0.0	0.0	0.0



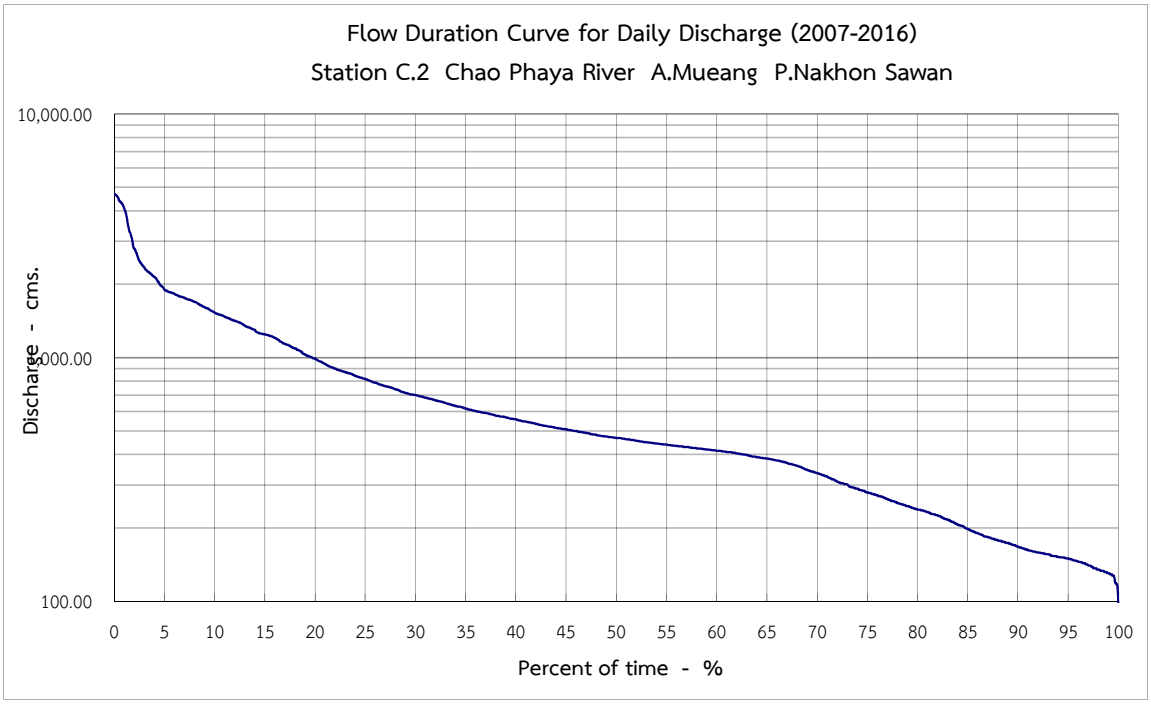
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	879.1	277.3	154.0	91.4	33.9	23.6	11.1	8.8	6.8	4.3	1.9



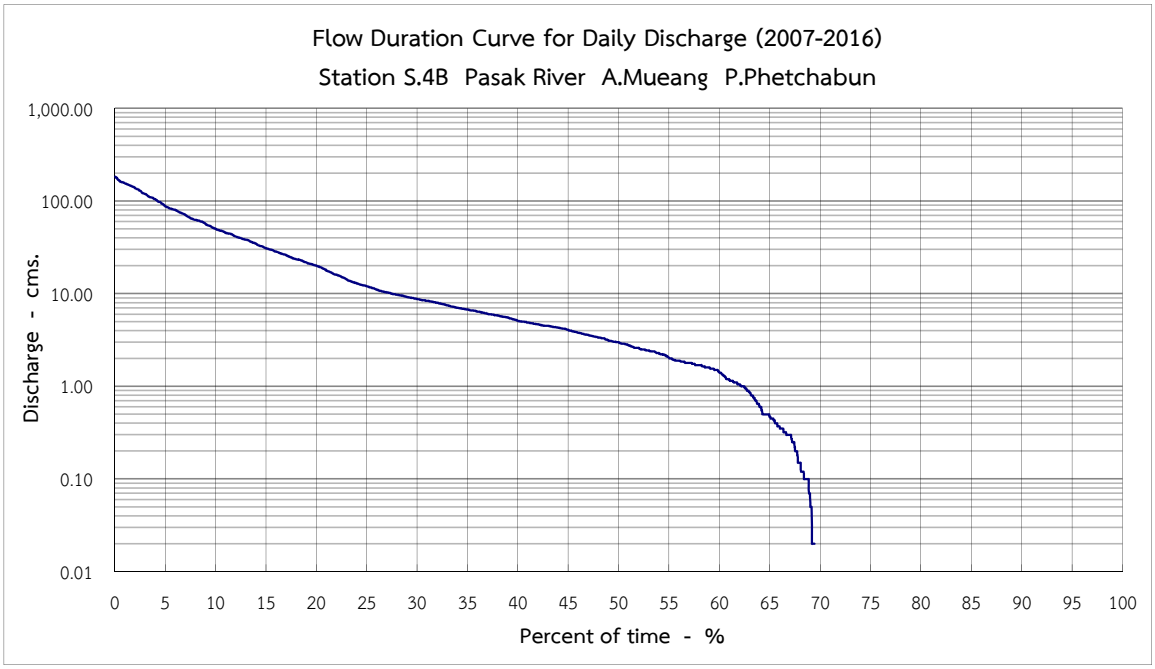
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,374.2	322.7	248.0	212.5	161.0	144.4	118.4	110.2	101.8	86.4	38.7



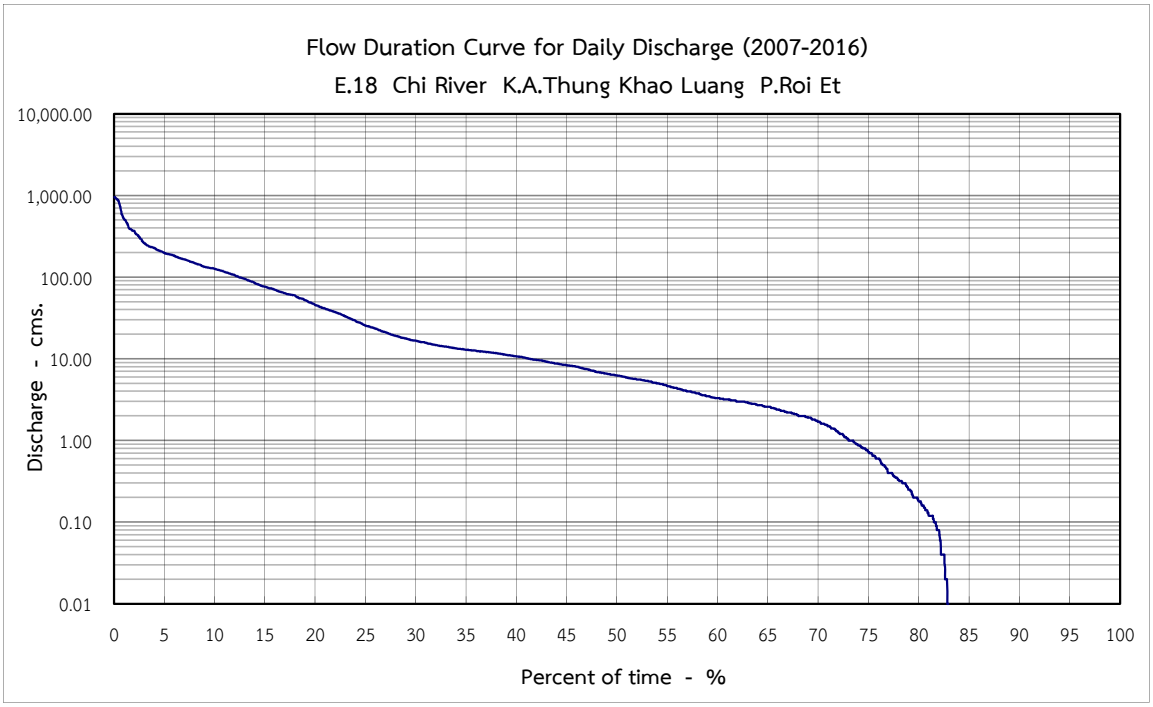
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,484.9	913.9	569.0	423.8	264.2	219.7	125.2	107.6	90.2	78.3	32.7



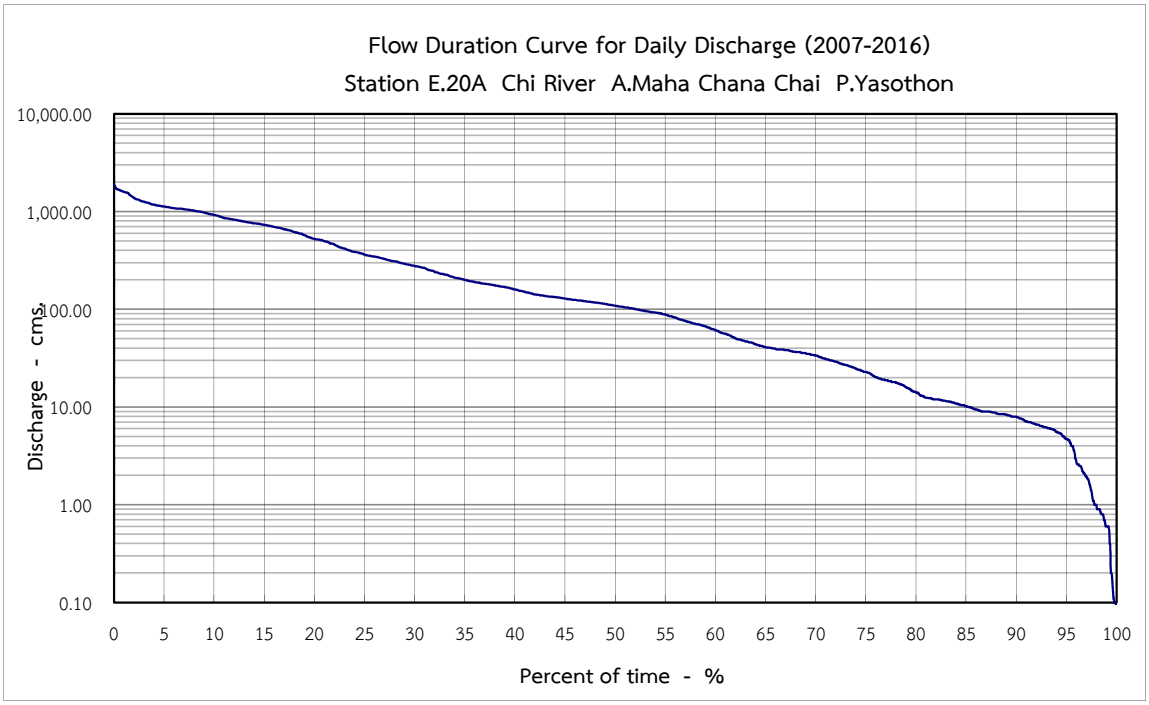
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,088.9	1,531.6	988.0	703.0	468.8	415.0	238.0	198.2	167.6	150.2	94.5



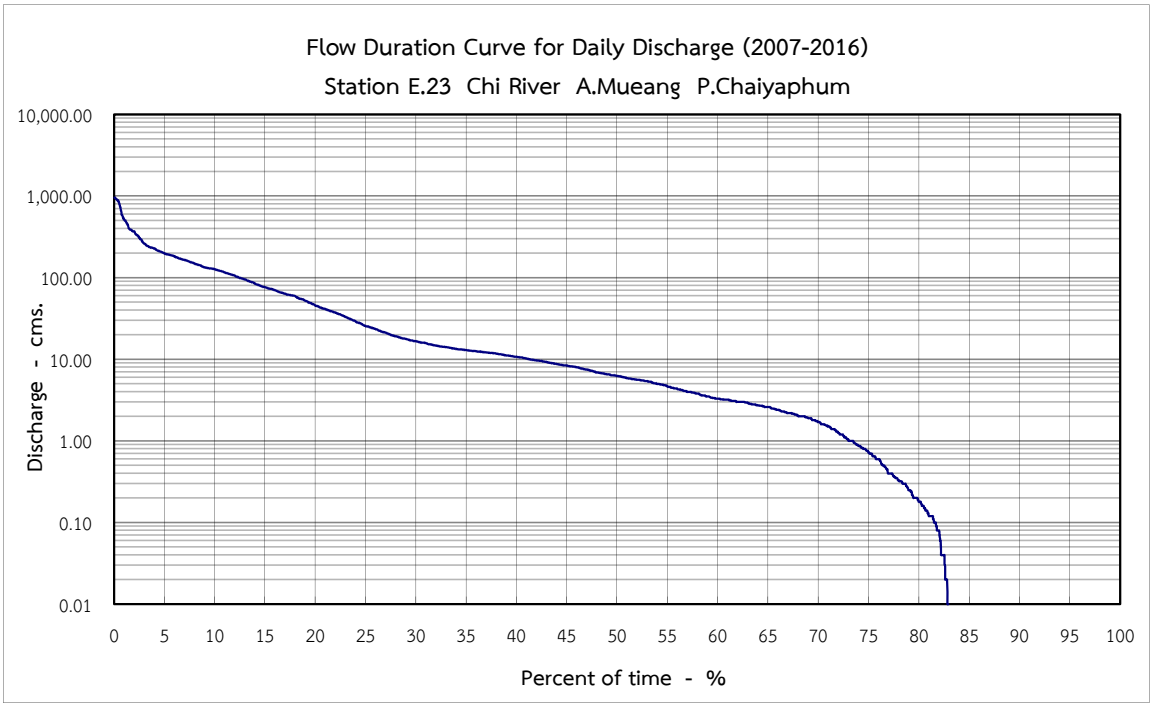
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	155.8	50.3	20.1	8.8	3.0	1.4	0.0	0.0	0.0	0.0	0.0



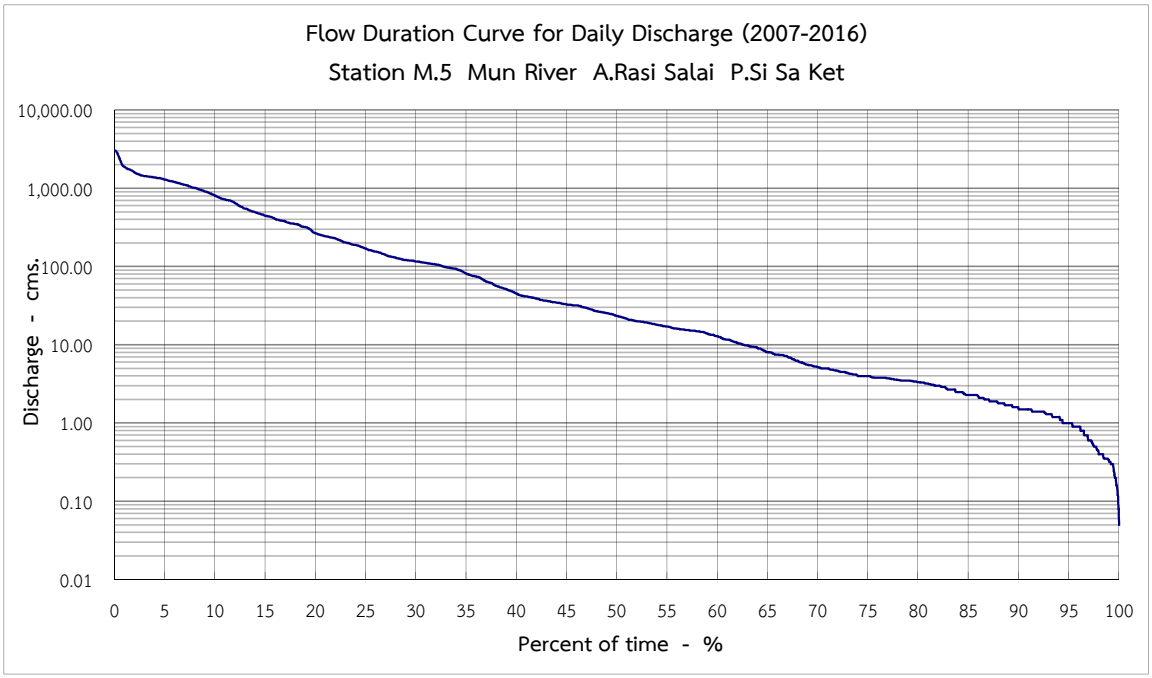
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,276.2	705.9	381.6	205.2	99.4	66.5	16.7	11.9	8.0	4.2	0.2



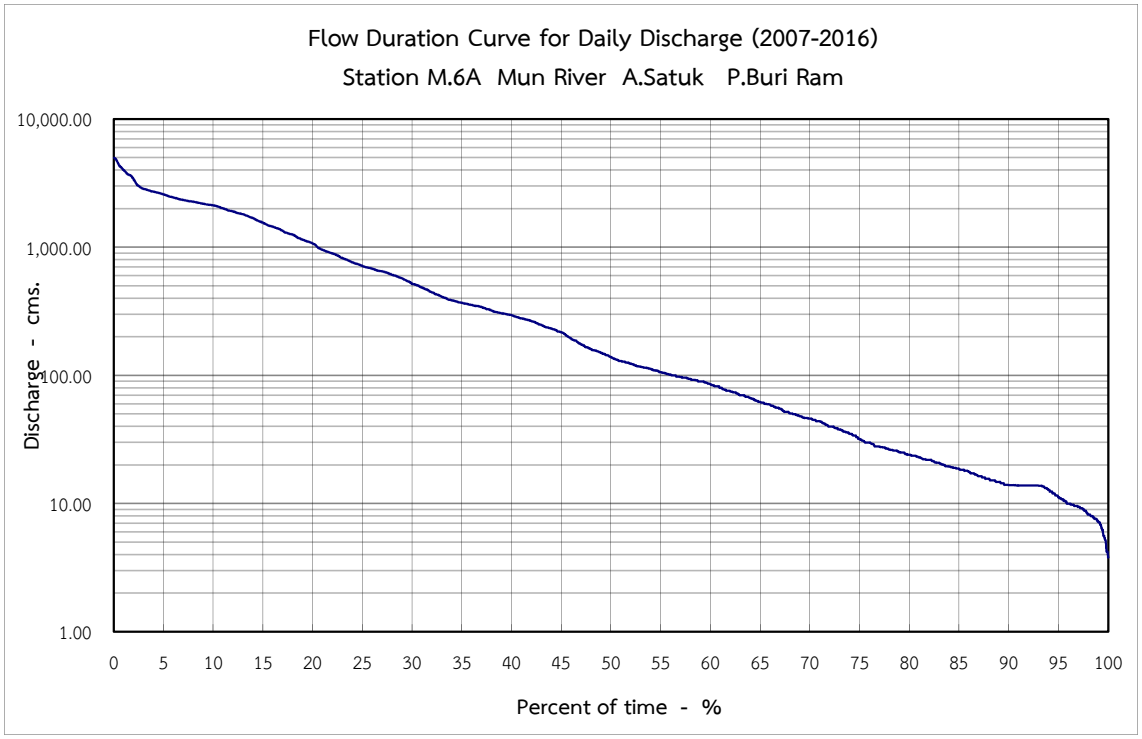
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,594.9	925.6	526.6	278.2	108.9	61.2	14.2	10.2	7.9	4.7	0.1



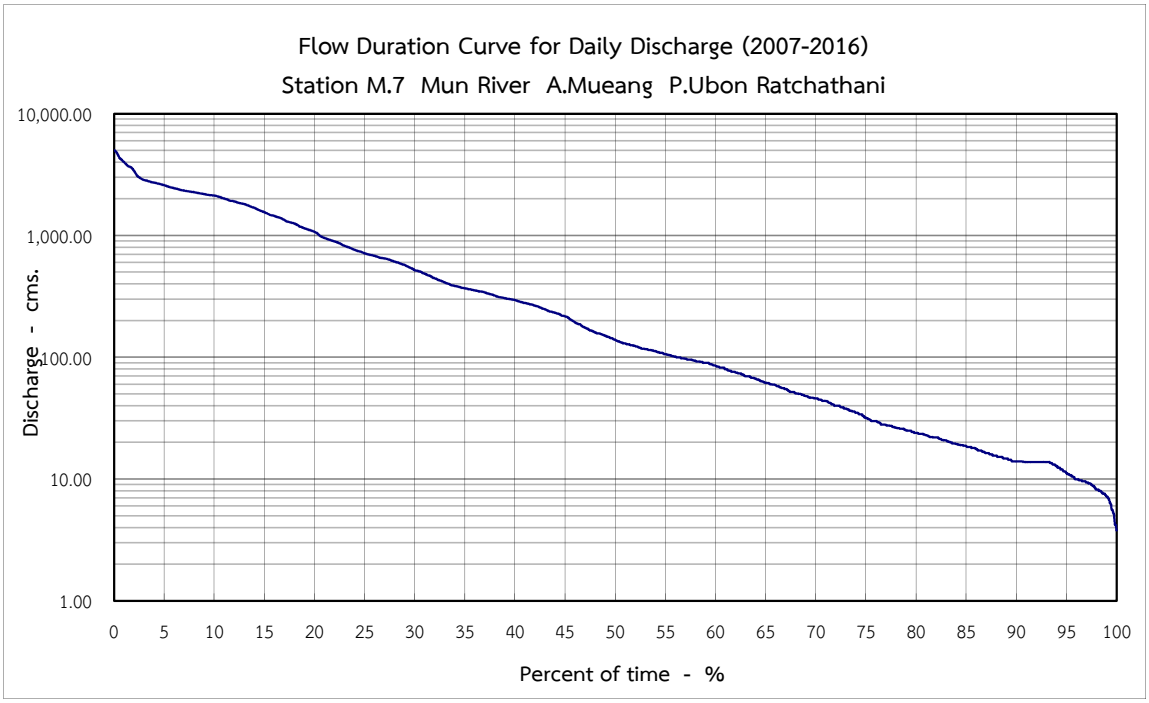
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	514.1	127.2	45.5	16.7	6.3	3.3	0.2	0.0	0.0	0.0	0.0



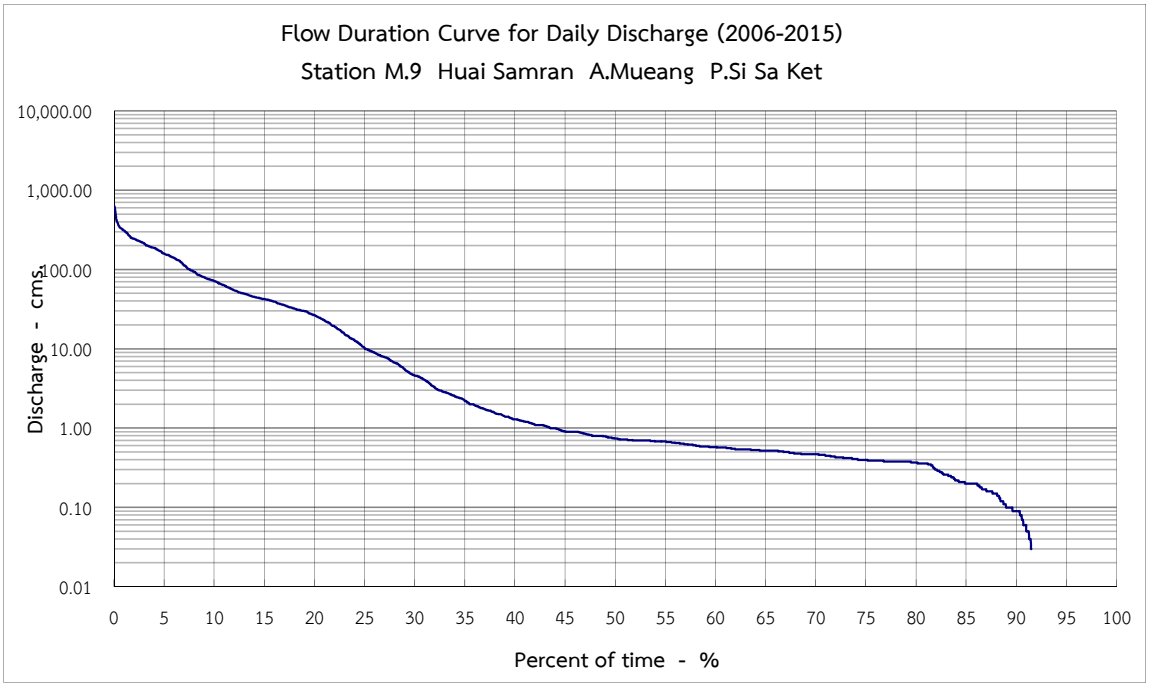
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,891.8	813.3	266.8	116.0	23.4	13.0	3.4	2.3	1.5	1.0	0.1



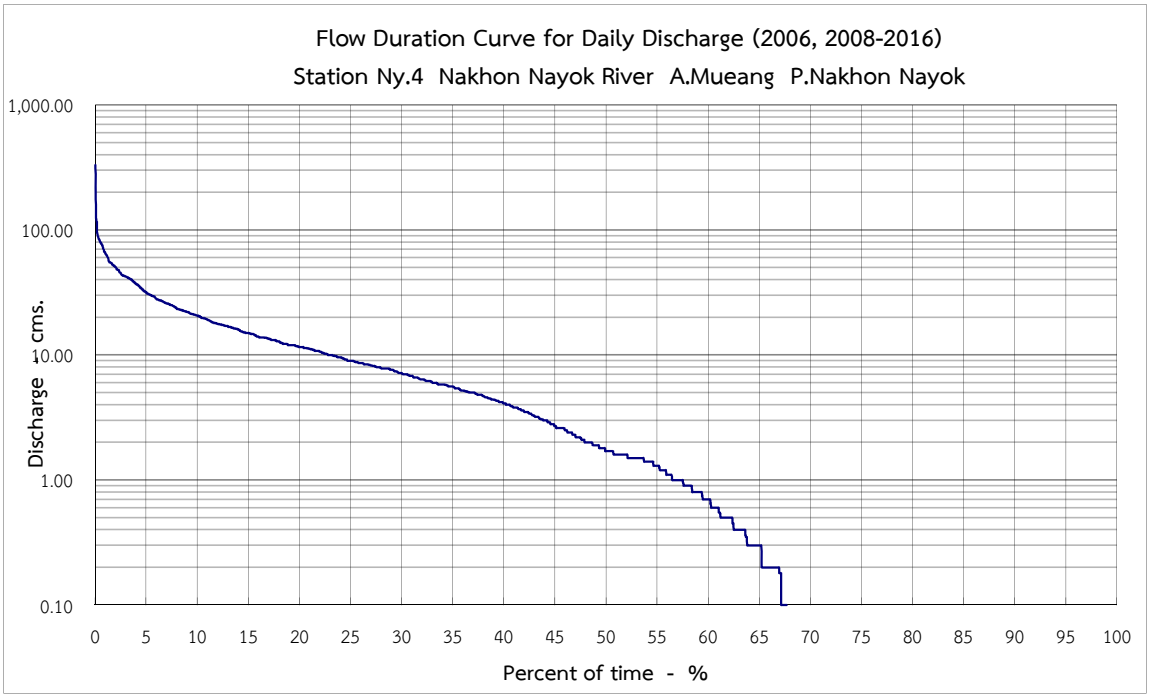
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,185.0	381.0	161.2	63.3	8.2	2.0	0.0	0.0	0.0	0.0	0.0



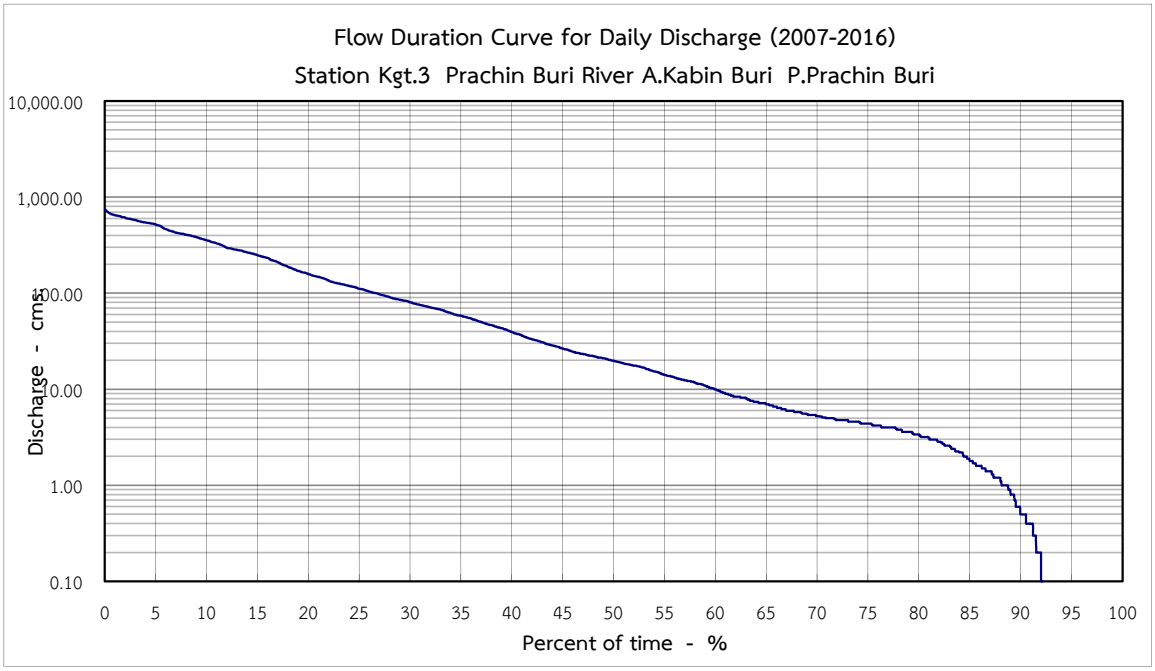
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,011.1	2,127.0	1,070.8	519.0	139.0	85.1	24.0	18.6	14.0	11.2	3.8



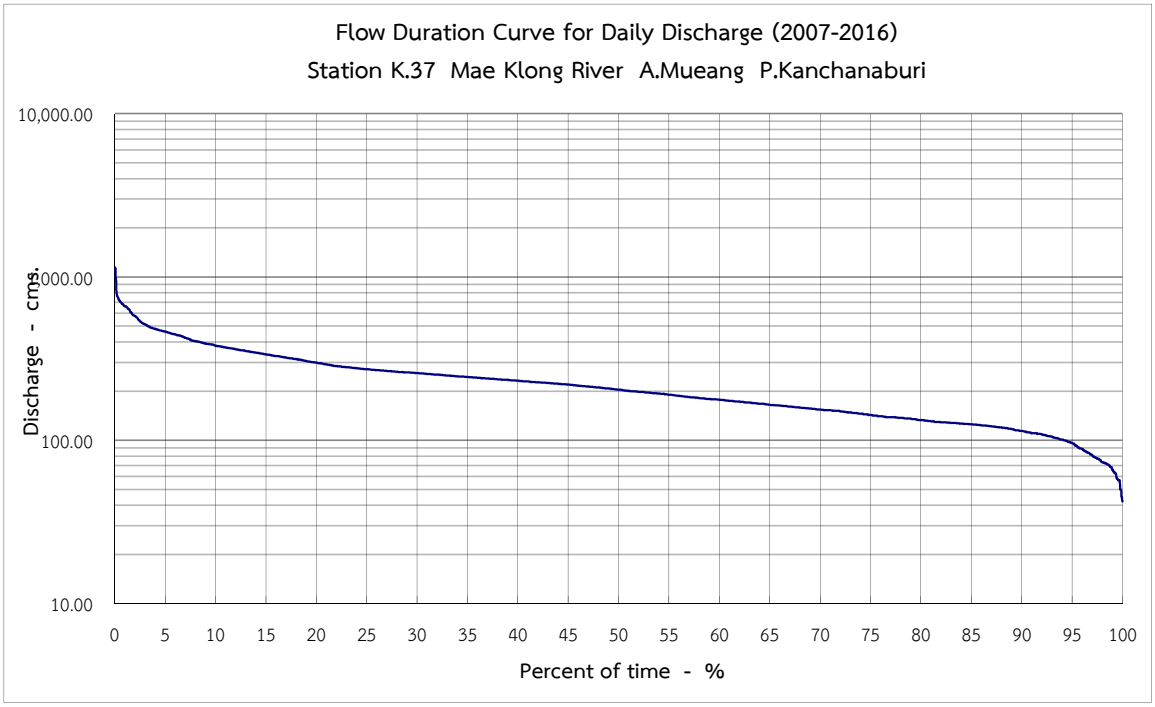
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	311.2	71.7	26.7	4.6	0.7	0.6	0.4	0.2	0.1	0.0	0.0



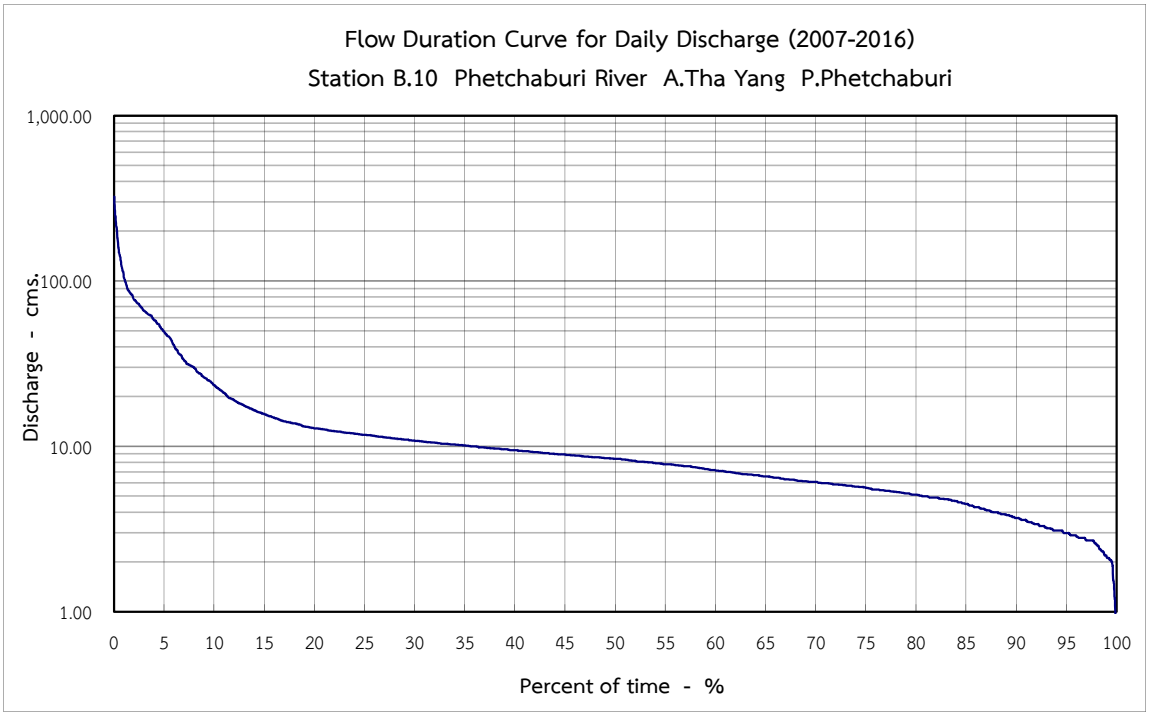
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	65.1	20.7	11.6	7.2	1.7	0.7	0.0	0.0	0.0	0.0	0.0



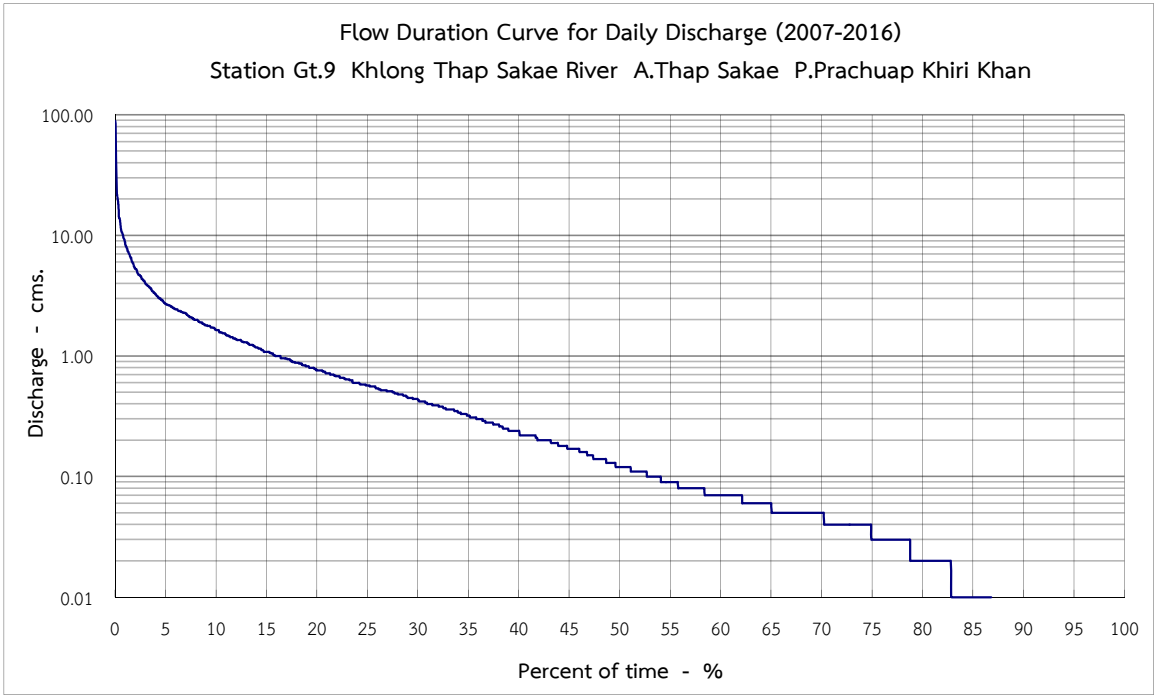
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	650.8	356.5	158.6	80.4	19.8	10.0	3.4	1.8	0.5	0.0	0.0



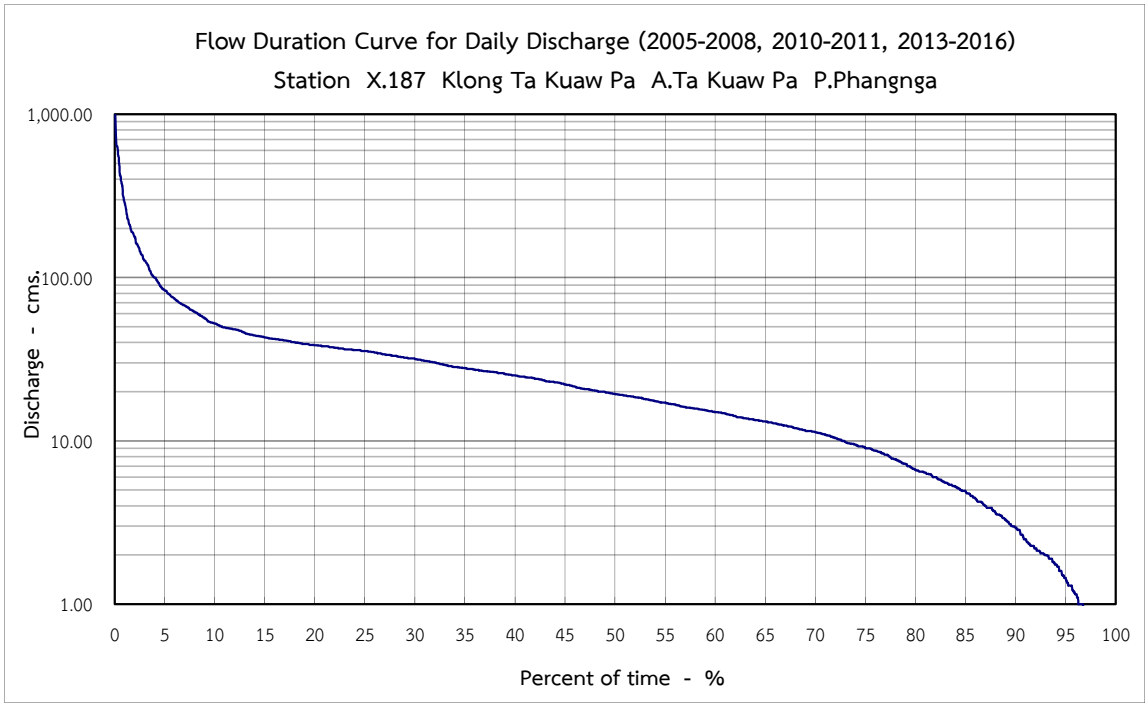
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	664.0	380.3	299.6	258.8	204.4	177.4	133.4	125.6	114.4	96.5	42.4



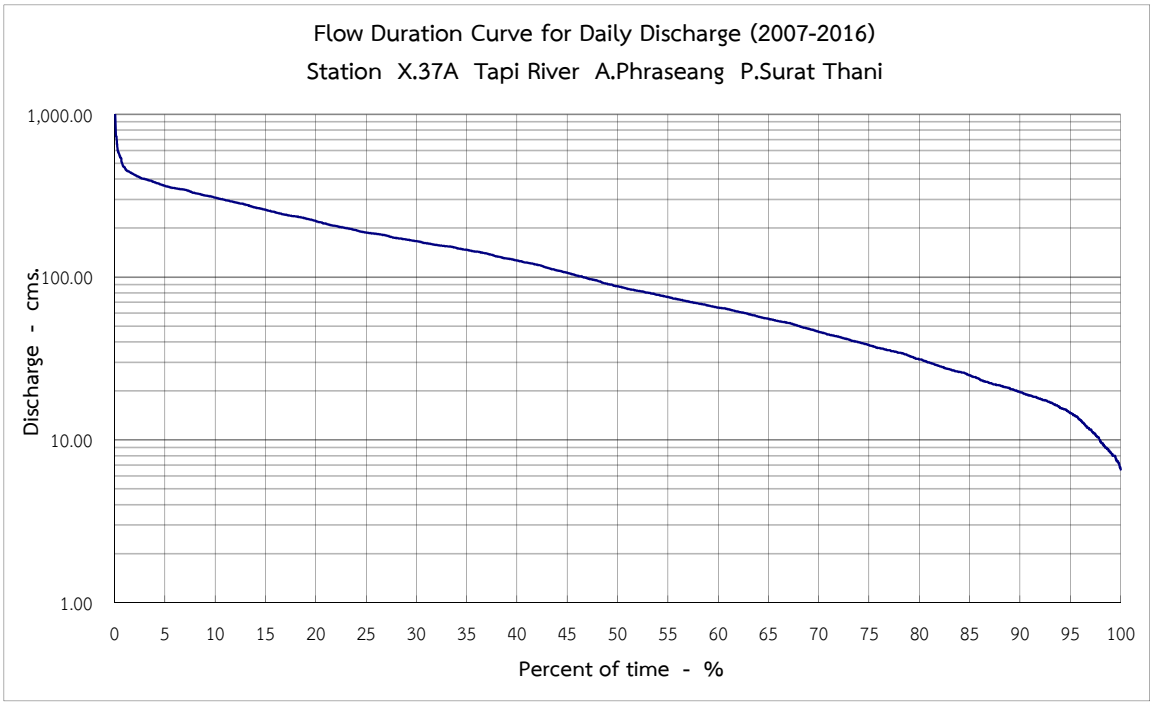
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	104.3	23.5	12.9	10.8	8.4	7.2	5.1	4.5	3.7	3.0	0.4



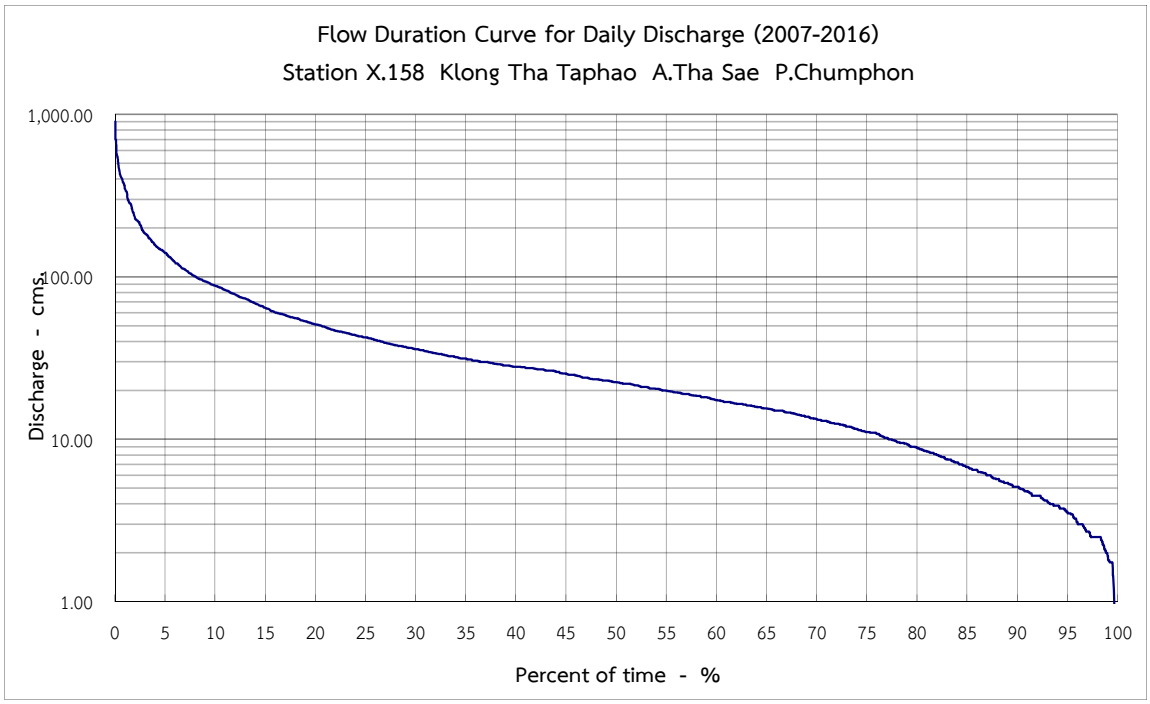
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	8.6	1.6	0.8	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0



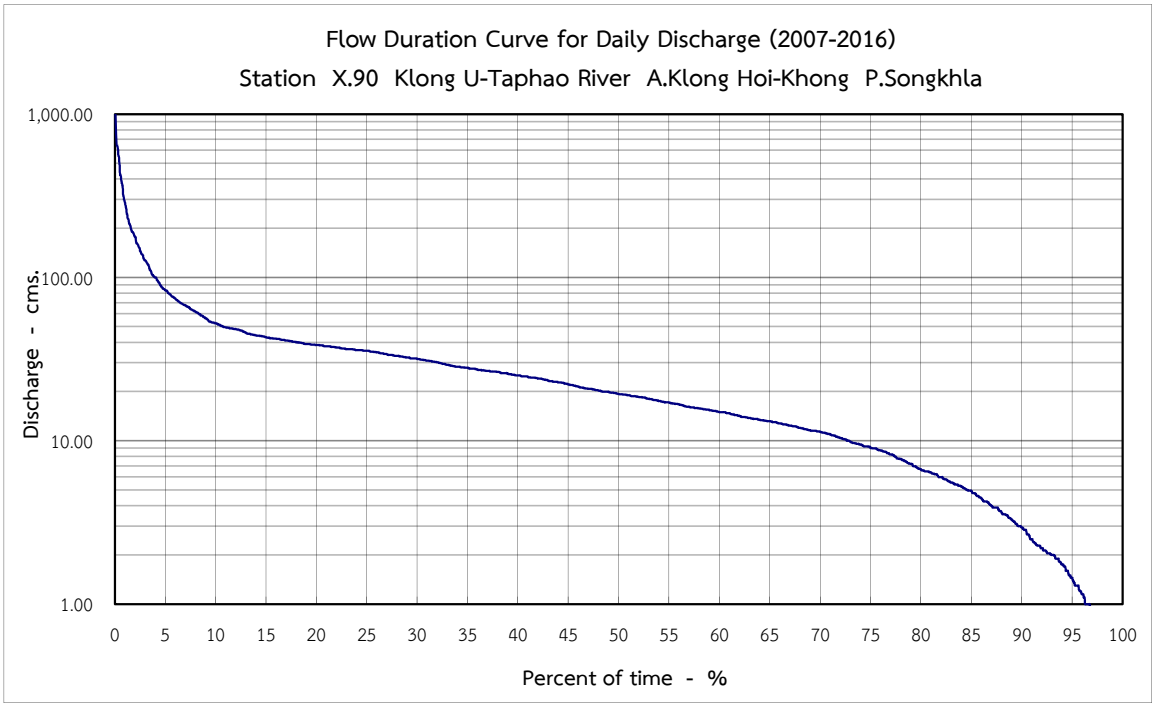
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	493.1	152.0	82.9	53.5	28.6	18.0	9.0	7.8	5.9	4.3	0.2



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	472.9	308.9	222.0	166.8	88.0	65.0	31.2	25.0	19.7	14.6	6.6



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	348.0	88.4	51.0	36.0	22.5	17.5	8.9	6.8	5.1	3.6	0.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	287.3	52.5	38.6	31.7	19.4	15.0	6.7	4.9	3.0	1.5	0.0