

**The Study on
Sabo and Flood Control for
Western River Basins of Mount Pinatubo
in
the Republic of the Philippines**

Final Report

**Volume IV
Data Book**

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Exchange Rates

US\$ 1.0 = Philippine Peso 50.5

US\$ 1.0 = Japanese Yen 120.1

Average of July 2002

**THE STUDY ON SABO AND FLOOD CONTROL
FOR WESTERN RIVER BASINS OF MOUNT PINATUBO
IN THE REPUBLIC OF THE PHILIPPINES**

FINAL REPORT

DATA BOOK

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Abbreviations

ASTM	-	American Society for Testing and Materials
BDCC	-	Barangay Disaster Coordinating Council
BOD	-	Bureau of Design, DPWH
BRS	-	Bureau of Research and Standards, DPWH
CBFM	-	Community-Based Forest Management
CDPP	-	Community-Based Disaster Prevention Plan
DA	-	Department of Agriculture
DAR	-	Department of Agrarian Reform
DENR	-	Department of Environment and Natural Resources
DILG	-	Department of Interior and Local Government
DOH	-	Department of Health
DPWH	-	Department of Public Works and Highways
DSWD	-	Department of Social Welfare and Development
DTI	-	Department of Trade and Industry
ECC	-	Environmental Compliance Certificate
EIA	-	Environmental Impact Assessment
GOJ	-	Government of Japan
GOP	-	Government of the Philippines
HUDCC	-	Housing and Urban Development Coordinating Council
ICC	-	Investment Coordination Committee, NEDA
IP	-	Indigenous People
IPRA	-	Indigenous People's Rights Act
IRA	-	Internal Revenue Allotment
JICA	-	Japan International Cooperation Agency
LGU	-	Local Government Unit
MDCC	-	Municipal Disaster Coordinating Council
MPC	-	Mount Pinatubo Commission
NCIP	-	National Commission on Indigenous People
NEDA	-	National Economic and Development Authority
NGO	-	Non-Government Organization
NHA	-	National Housing Authority
NIA	-	National Irrigation Administration
PAGASA	-	Philippine Atmospheric, Geophysical and Astronomical Services Administration
PCM	-	Project Cycle Management
PDCC	-	Provincial Disaster Coordinating Council
PHIVOLCS	-	Philippine Institute of Volcanology and Seismology
ZAMECO	-	Zambales Electric Cooperative

Measurements

Length

mm	=	millimeter
cm	=	centimeter
m	=	meter
km	=	kilometer
LM	=	linear meter

Area

m ²	=	square meter
ha	=	hectare
km ²	=	square kilometer

Volume

cm ³	=	cubic centimeter
l	=	liter
kl	=	kiloliter
m ³	=	cubic meter
MCM	=	million cubic meter

Derived Measures

m/s	=	meter per second
m ³ /s	=	cubic meter per second
kWh	=	kilowatt hour
MWh	=	megawatt hour
GWh	=	gigawatt hour
ppm	=	parts per million
kmph	=	kilometer per hour
lps/m	=	liter per second per meter

Weight

g	=	gram
kg	=	kilogram
ton	=	metric ton
meq	=	milligram equivalent

Currency

PHP	=	Philippine Peso
¥	=	Japanese Yen
US\$	=	US Dollar

Time

sec	=	second
min	=	minute
hr	=	hour
d	=	day
y	=	year

Other Measure

%	=	percent
°	=	degree
°C	=	degree(s) Celsius
10 ³	=	thousand
10 ⁶	=	million
10 ⁹	=	billion
pH	=	potential of hydrogen
mbgs	=	meter below ground surface
M	=	magnitude of earthquake

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A. Hydrological Data

**THE STUDY ON SABO AND FLOOD CONTROL
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A. Hydrological Data

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A1 Daily Rainfall

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1961

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	133.4	0	70.9	36.1	0	0
2	0	0	0.8	0	0	0	54.4	0	14.7	3.6	0	0
3	0	0	0	0	0	72.6	6.1	0	5.3	7.9	0	0
4	0	0	12.4	0	0	2	22.6	4.8	16.8	1	0	0
5	0	0	0	0	50.3	0	145.8	2	27.7	0.8	1.5	0
6	0	0	0	0	0	0	69.6	65.3	4.6	5.6	0	0
7	0	0	0	0	0	16.8	64.3	6.4	98.8	0.8	0	0
8	0	0	0	0	0	0	0	38.4	33.5	23.6	2.8	0
9	0	0	0	0	27.9	0	0	3.3	6.4	12.4	0	-999.9
10	0	0	5.8	0	0	9.4	19.3	51.3	1.3	4.6	0	-999.9
11	0	0	0	0	31.8	0	102.4	79.5	1.8	1	0	0
12	0	0	0	0	0	0	16	27.4	14.7	1	0	0
13	0	0	0	0	3	0	6.9	5.3	135.4	0.8	5.1	0
14	0	0	0	0	10.4	3.6	9.7	53.8	175.3	1.3	1	0
15	0	0	0	0	0	0	35.1	14.7	92.7	2	0	0
16	0	0	0	0	4.3	0	36.6	91.2	54.6	0	0	0
17	0	0	0	0	10.7	0	85.3	119.9	20.1	13.5	0	0
18	0	0	0	0	13.5	34.5	79.8	94.5	1.5	0	0	0
19	0	0	0	0	0	1.3	24.4	85.9	0	0	0	0
20	0	0	8.1	0	0	0.8	7.4	55.6	0	0	0	0
21	0	0	0	0	0	29.2	6.1	31.5	30.7	1	0	0
22	0	0	0	0	16.5	46	0	52.3	69.1	0	4.8	0
23	0	0	0	0	2	56.9	4.3	20.8	0	0	0.5	0
24	0	0	0	0	52.3	77	13.2	11.2	0	0	0.5	0
25	0	0	0	0	80.5	68.6	32.8	53.8	0	0	0	0
26	0	0	0	0	226.3	133.6	45.5	68.6	0	0	0	0
27	0	0	0	9.9	10.9	198.6	46.2	18	6.4	0	0	0
28	0	0	1.8	0	1.3	57.7	21.6	334.5	57.7	0	0	0
29	0	0	0	0	0	72.4	41.7	113.3	9.9	0	0	0
30	0	0	0	1	0	195.1	0	7.1	99.6	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	28.9	10.9	541.7	1076.1	1130.5	1510.4	1049.5	117	16.2 *	
Max	0	0	12.4	9.9	226.3	198.6	145.8	334.5	175.3	36.1	5.1 *	

Annual *
-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1962

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	9.1	0	0	0	1.5	35.1	-999.9	2	0	0.8
2	0	0	0	0	0	0	7.1	42.2	-999.9	10.4	0	0
3	0	0	0	1	0	0	0	4.6	-999.9	6.6	6.1	0
4	0	0	0	0	0	2.5	28.7	40.6	-999.9	0	0	0
5	0	0	0	0	0	4.1	7.9	51.6	-999.9	0	0	0
6	0	0	0	0	0	0	0.3	8.4	-999.9	0	0	0
7	0	0	0	0	0	0	121.4	0	-999.9	0	0.3	0
8	0	0	0	0	0	44.7	24.4	0	-999.9	0	0	0
9	0	0	0	0	0	22.6	115.8	2	-999.9	0	5.3	0
10	0	0	0	0	0	0	25.9	0	-999.9	4.3	5.1	0
11	0	0	0	0	0	5.1	2	0	-999.9	0	0	0
12	0	0	0	1.5	0	49	4.6	0	-999.9	0	0	0
13	0	0	0	0	14.2	15	2	0	-999.9	1	0	0
14	0	0	0	0	0	11.7	7.6	31.8	-999.9	0	0	0
15	0	0	0	0	0	101.1	22.4	0	-999.9	0	0	0
16	0	0	0	0.5	0	9.7	2	1.8	-999.9	0	0	0
17	0	0	0	0	0.5	0	95.5	3.6	-999.9	0	23.6	0
18	0	0	0	0	16.3	0	70.9	1	-999.9	0	0	0
19	0	0	0	13.7	7.1	0	149.4	82	-999.9	0	0	0
20	0	0	0	0	0	0	79.2	2	-999.9	7.9	0	0
21	0	0	0	0	0	5.3	129.8	3.8	-999.9	0	0	0
22	0	0	0	53.8	50.5	4.6	49.5	25.9	-999.9	0	0	0
23	0	0	0	0.5	0	78.2	119.1	0	-999.9	0	0	0
24	0	0	0	0	0	0	152.9	0	-999.9	0	0	0
25	0	0	0	0	0	0	5.8	10.2	-999.9	0	0	0
26	0	0	0	0	5.6	0	2	0	-999.9	0	0	0.3
27	0	0	0	0	0	24.1	37.6	0	-999.9	0	0	0
28	0	0	0	0	45	2.5	10.2	1	-999.9	0	0	0
29	0	0	0	0	19.8	0	8.1	50.3	-999.9	0	0	0
30	0	0	0	0	11.2	0	20.3	39.9	-999.9	0	0	0
31	0	0	0	0	0	0	10.9	8.6	0	0	0	0
Total	0	0	9.1	71	170.2	380.2	1314.8	446.4 *		32.2	40.4	1.1
Max	0	0	9.1	53.8	50.5	101.1	152.9	82 *		10.4	23.6	0.8

Annual *
-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1963

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0.3	0	0	0	0	17.8	0	27.4	0	0	0
2	0	0	0	0	0	32.5	0	3	10.9	2.3	0.5	0
3	0	0	0	0	0	33.5	0	5.8	0.5	0.3	0	0
4	0	0	0	0	0	69.1	3.6	0	48.3	0	0	0
5	0	0	0	0	0	30.2	70.9	3.6	65.3	0	0	0
6	0	0	0	0	0	122.2	68.8	11.4	52.6	2	0	0
7	0	0	0	0	0	61.2	59.2	4.8	127	0	0	0
8	0	0	0	0	0	18	6.1	4.1	161.8	2	0	0
9	0	0	0	0	0	8.1	68.8	0.3	175.3	0	0	0
10	0	0	0	0	0	0	61	19	7.9	0	0	1
11	0	0	0	0	10.4	0	12.7	0.8	21.8	2.3	0	9.4
12	0	0	0	0	0	0.3	1.8	8.4	8.1	1.5	0	30
13	0	0	0	0	0	77.5	10.7	247.4	15.7	0	0	7.6
14	0	0	0	0	0	12.7	2.5	182.1	4.8	4.6	0	0.8
15	0	0	0	0	0	29	61.2	42.9	32.3	0	0	2
16	0	0	0	0	0	55.9	198.6	3	2.8	0	0	0
17	0	0	0	0	0	65.5	52.8	0	0.5	1	0	0
18	0	0.8	0	0	0	62.2	12.2	6.1	0.8	0	0	0
19	0	0	0	1.5	0	29.2	34.5	1.3	0.3	0	0	0
20	0	0	0	0	0	69.3	110.2	1	13.2	0	19.8	0
21	0	0	0	0	0	102.1	7.6	0	1	0	0	0
22	0	0	0	0	0	36.3	0	0	16.3	3	0	0
23	0	0	0	0	0	36.3	1.5	11.9	18.3	0	0	0
24	0	0	0	0	0	0	0	11.9	11.9	0	0	0
25	0	0	0	0	0	2.3	7.4	12.7	0	0	0	0
26	0	0	0	0	14.2	7.1	1	5.8	0.3	9.1	0	0
27	0	0	0	0	30	20.6	2.5	76.7	50	0	0	0
28	0	0	0	0	10.4	155.7	0	8.4	5.8	0	0	0
29	0	0	0	0	0	2.5	6.1	0.8	4.3	0	0	0
30	0	0	0	0	1.5	26.7	0.8	0	5.8	0	0	0
31	0	0	0	0	2.8	0	0	0	2.5	0	0	0
Total	0	1.1	0	1.5	69.3	1166	880.3	673.2	891	30.6	20.3	50.8
Max	0	0.8	0	1.5	30	155.7	198.6	247.4	175.3	9.1	19.8	30
Annual	3784.1											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1964

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	1.5	2	40.8	30.7	0	10	0	0
2	0	0	0	0	4.8	2.8	0	7.9	0	0	0	0
3	0	0	0	0	0	40.8	0	0	33.5	0	0	0
4	0	0	0	0	0	18.5	0	1.5	13.7	13.2	0	0
5	0	0	0	0	0	12.4	0	0	0	54.8	0.8	0
6	0	0	0	0	0	95	8.6	117.8	2	0.5	1.2	0
7	0	0	0	0	0	22.1	54.3	148.7	0.3	11.7	0	0
8	0	0	0	0	5.3	0	0	40.3	11.5	28.5	0	0
9	0	0	0	0	0	0	0	0	52.8	129.5	0	0
10	0.5	0	0	0	0	0	1.5	7.7	12.7	96.3	15	0
11	0	0	0	0	0	12.2	7.6	9.4	0	15	2.1	2
12	0	0	0	0	0	0	6.1	29.5	5.1	0	11.9	0.8
13	0	0	0	0	0	0	31	74.6	0	0	0.8	0
14	0	0	1.8	0	11.9	0	0	51.3	0	0	0.6	51.6
15	0	0.8	0	0	2.1	2.8	0.8	21.1	0	41.7	0	133.3
16	0	0	0	0	46.2	0	0	1.5	2	0	6.4	15.2
17	0	0	0	0.8	0	0	4.8	32.7	4.1	0.5	0	0
18	0	0	0	0	0	0	65	92.5	31.3	0	0	0
19	0	0	0	0	0	0	0	10.4	39.6	0	0	0
20	0	0	0	11.4	0	3.6	0	8.4	33.6	0	28.7	0
21	0	0	0	0	0	0.5	0	96.6	61	28	19.3	0
22	0	0	0	6.9	0	3.8	0.6	193	0	0.8	5.4	0
23	0	0	0	0	11.2	11.4	5.1	60.4	0	2.3	9.9	0
24	0	0	1.8	0	35.8	7.1	41.2	3.1	0.3	0	0	4.1
25	0	0	0	0	81.3	5.1	0	18.8	0	0	1.5	0
26	0	1.3	0	0	88.4	0	0	6.6	3.3	0	2.3	0
27	0	0	0	0	16	0	0	8.4	4.4	0	0	0
28	0	0	0.5	7.8	0	5.6	0	2.6	29.2	0.3	1.1	0
29	0	0	0	0.7	0	62.3	0	0.8	30.8	8.4	0	0
30	0	0	0	1.7	0	220.8	2.3	0	23.9	0	0	0
31	0	0	0	0	1.3	0	15.2	3	0	0	0	0
Total	0.5	2.1	4.1	29.3	305.8	528.8	284.9	1079.3	395.1	441.5	107	207
Max	0.5	1.3	1.8	11.4	88.4	220.8	65	193	61	129.5	28.7	133.3
Annual	3385.4											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1965

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	2.3	0	0	0	1	6.9	68.5	0.5	0	0	0
2	0	0	0	3.8	0	0	9.9	69.1	10.2	5.1	0	0
3	0	0	0	1.8	0	0.8	7.9	40.6	128.8	15.8	0.5	0
4	0	0	0	0	5.3	6.1	0.5	65.2	54.6	0	0	0
5	0	0	0	0	0	57.4	28	32.3	2.8	0	0.3	0
6	0	0	0	0	0	26.7	30.7	3.1	0	0	10.4	0
7	0	0	0	0	0.3	1.5	6.4	0	47.5	0	0.8	0
8	0	0	0	0	18.5	19.1	19.8	0	1.6	0	7.3	0
9	0	0	0	0	0	5.3	0	0.5	0	0.5	0	0
10	0	0	0	0	0	0.3	0	0	31	5.8	14.5	0
11	0	0	0	0	0	0	3.1	14.7	2.3	1.3	5.8	0
12	0	0	0	0	0	0	76.8	12	2	25.9	4.6	0
13	0	0	0	0	14	0	123	0	29.7	6	15.5	0
14	0	0	0	7.4	0	0	50.8	57.6	12.8	6.6	0	0
15	0	0	0	10.7	0	0	0	0	2.6	27.2	0	0
16	0	0	0	0	1.2	0	0	0	0	10.4	0	5.1
17	0	0	0	0	0.3	77.1	4.4	0	0	16.3	0	0
18	0	0	9.4	0	12.2	14.8	29.2	0	17.3	5.3	0	0
19	0	0	0	0	0	31.5	49.6	0	3.3	0	0	0
20	0	0	1	0	0	30.5	18.6	0	1	0	0	0
21	0	0	0	0	0	11	56.7	0	17.6	0	0	0
22	0	0	0	0	0.5	19.2	37.4	0	131.1	0	0	0
23	0	0	0	0	3.1	222.5	30.2	21.3	13.3	0	0	0
24	0	12.4	0	0	0	140	8.7	0.2	23.6	0	0	0
25	0	0	0	0	91.7	93.5	21.8	7.4	0	0	0	0
26	0	0	7.6	24.6	50.3	42.5	82.1	26.7	0	0	4.8	0
27	0	0	7.6	0	63	28.8	100.6	27.7	1.1	0	0	0
28	1.5	0	0	6.4	7.2	10.2	16.3	43.1	4.3	0	0	2.3
29	0	0	0	1.5	87.9	0	52.6	23.7	0	0	0	0
30	0	0	0	41.2	113.6	9.7	9.7	25.7	0.5	0	0	7.1
31	0	0	0	0	103.9	0	5	6.8	0	0	0	0

Total 1.5 14.7 25.6 97.4 573 849.5 886.7 546.2 539.5 126.2 64.5 14.5

Max 1.5 12.4 9.4 41.2 113.6 222.5 123 69.1 131.1 27.2 15.5 7.1

Annual 3739.3

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1966

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	3.6	0	0	0	0	4.6	0	13	0
2	0	0	0	0	0	0	0	2.3	8.9	24.1	0	0
3	0	0	0	0	3.1	0	0	7.6	8.9	0	0	0.5
4	0	0	18.3	0	67.5	0	0.5	7.6	98.6	0	0	0.5
5	0	0	0	0	2.8	0	0.3	1.8	116.6	8.1	0	0
6	0	0	0	0	0.3	7.4	1	1.8	82	0	0	0
7	0	0	0	0	7.1	0	0	30.7	146	2.5	0	0
8	0	0	0	0	6.1	0	28.2	23.6	51.1	1.8	2.8	0
9	0	0	0	0	0	0	0	20.1	137.4	0.8	19.1	0
10	0	0	0	0	4.4	6.1	0	19.1	84.6	0	0.8	0
11	0	0	0	0	25.4	3.8	36.6	45.8	73.1	0	0	0
12	0	0	0	0	0	0.5	148.1	103.7	42.7	0	0	0
13	0	0	0	0	0	0.8	0.5	127.3	63.2	0	3.3	42.2
14	0	0	0	0	0	9.7	1.8	38.5	46.7	0	0	0
15	0	0	0	0	0	10.9	1.3	30.4	28.8	19.1	0	0
16	0	0	0	0	0.8	0	0.3	6.4	14.3	0.5	0	0
17	0	0	0	2	0.5	0.5	3	0	19.1	0	0	0
18	0	0	0	0	108.8	16.8	0.5	0	0	0	0	0
19	0	0	0	0	281.2	0	9.4	15.5	0	0	0	1.8
20	0	0	0	0	277.9	0	1	6.4	0	4.6	27.7	0
21	0	0	0	0	6.6	4.6	1.8	7.3	0	0	104.5	0
22	0	0	0	0	0	13.5	0.8	0	0	3.3	19.6	0
23	0	0	0	0	11.3	0	25.4	35.5	5.1	0	0	0
24	0	0	0	0	3.6	0	23.9	0	0	0	0	0
25	0	0	0	0	20.6	15	0	1	0	0	0	0
26	0	5.6	0	0	163.3	62.8	0	0	0	0	0	0
27	0	0	0	0	80.2	53.6	45.7	0.8	0.8	0	8.4	16
28	0	0	0	1.3	2.1	26	0.8	0	3.1	0	11.7	1.8
29	0	0	0	0	0	120.4	1.5	1	0	0	10.4	0
30	0	0	0	0	0	3.8	9.1	12.1	0	0	0	0
31	0	0	0	0	0	0	0	0	0	13.7	0	0

Total 0 5.6 18.3 6.9 1073.6 356.2 341.5 546.3 1035.6 78.5 221.3 62.8

Max 0 5.6 18.3 3.6 281.2 120.4 148.1 127.3 146 24.1 104.5 42.2

Annual 3746.6

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1967

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	95.5	0	91.9	88.4	0	0	0
2	0	0	0	0	0	37.9	0	95.3	3.8	0	0	0
3	0	0	0	0	0	208.5	0	120.2	20.8	16.8	0	0
4	0	0	0	0	0	34.5	2.8	30.5	23.3	8.4	198.1	0
5	0	0	0	0	0	24.9	109	66	14.2	7.9	47.8	0.5
6	0	0	0	0	0	27.9	127.3	92.2	66.6	13.4	0	0
7	0	0	0	0	0	143.9	0	8.4	0	15	0.8	0
8	0	0	0	6.1	0	170.1	13.7	34.8	5.6	0.3	3.6	0
9	0	0	0	9.4	0	163.9	21	23.6	4.6	32.3	0	0
10	0	0	0	0	7.6	95	44.5	23.9	32.2	3.3	0	0
11	0	0	0	0	0	0	178.2	22	64.3	4.9	0	0
12	0	0	0	0	0	0	56.9	9.6	104.1	5.1	0	0
13	0	0	0	0	0	0	0	38.9	34.5	0.8	0	0
14	1.8	0	0	0	0	0	0	303.6	54.6	6.1	0	0
15	0.8	0	0	0	0	0	5.6	39.9	36.2	0	0	0
16	0	0	0	0	0	0	2.3	0	13.2	18.5	0	0
17	0	0	0	2.3	0	0	51.3	18.8	31.4	58.2	0	0
18	0	0	0	3.9	1.3	15.5	0	33.3	3.3	11.7	0	0
19	0	0	0	0	0	0	0	85.8	0	14	0	0
20	0	0	0	0	0	0	3	42.1	0	0	0	0
21	0	0	0	1.8	0	0	23.8	0	7.4	0	0	0
22	0	0	0	0	0	0	6.6	0	0	0	0	0
23	0	0	0	0	25.2	1.5	32	17.3	0	0	0	0
24	0	0	2.8	0	9.2	7.9	43.4	0	0	0	0	0
25	0	0	0	0	20	0	57.5	24.4	0.8	0	0	0
26	0	0	0	2.8	0	14.5	3.5	60.5	8.4	-999.9	0	0
27	0	0	0	0	0.3	3.6	4.8	78.7	42.2	-999.9	0	0
28	0	0	0	0	43.7	13.8	18.1	113.4	3.1	-999.9	0	0
29	0	0	0	3.1	6.9	65.6	70.7	37.6	0	0	0	0
30	0	0	0	0	50.3	33.3	57.7	13.3	0	0	0	0
31	0	0	0	0	48.5	55.8	20.1	0	0	0	0	0
Total	2.6	0	2.8	29.4	213	1157.8	989.5	1546.1	663 *	250.3	0.5	
Max	1.8	0	2.8	9.4	50.3	208.5	178.2	303.6	104.1 *	198.1	0.5	

Annual *

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1968

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	29.2	6.9	28.9	7.6	0	0
2	0	0	0	0	0	0	7.6	7.9	0.5	0	0	0
3	0	0	0	0	0	0	2.6	1	31.1	0	0	0
4	0	0	0	0	0	2.5	0	0	20.3	0	0	0
5	0	0	0	0	0	0	0	0	27.2	0	0	0
6	0	0	0	0	1	0	3.1	1	7.2	0	0	0
7	0	0	0	0	1	0	0	4.8	20.4	0	0	0
8	0	0	0	0	1	0	1.8	54.9	35.2	0	0	0
9	0	0	0	0	1	1.3	6.7	3.8	49.9	0.5	0	0
10	0	0	0	0	1.2	4.3	4.3	0	17.8	0	0	0
11	-999.9	0	0	0	0	0	1.8	11.6	0.3	0	0	0
12	-999.9	0	0	17.8	0	0	0	8.7	0	3.3	0	0
13	-999.9	0	0	3.3	0	0	1.3	38.9	0.3	0	0	0
14	-999.9	0	0	0	0	0	1.3	10.1	3.1	0	0	0
15	0	0	0	0	0	0	0.8	1.3	2.5	3.8	0	0
16	0	0	0	0	0	19.6	15	0.8	0	0	0	0
17	0	0	0	0	0	0	14.3	0	0	0	0	0
18	0	0	0	0	0	0	0	20.3	0	0	0	0
19	0	0	0	0	0	0	2	123.7	0	0	0	0
20	0	0	0	1.3	0	0	14	66.3	0	0	0	0
21	0	0	0	0	0	0.3	40.5	41.9	0	0	0	0
22	0	0	0	0	51.1	2	47.1	28.3	0	0	0	0
23	-999.9	0	0	0	0	0	31.7	25.3	24.9	0	0	0
24	-999.9	0	0	0	0	0	44.8	56.6	47.2	0	0	0
25	-999.9	0	0	4.1	0	7.4	111.2	34.8	0	0	0	0
26	-999.9	0	0	0	3.6	1	25.4	16.3	13	0	0	0
27	-999.9	0	0	0	5.9	12.2	4.1	35.3	26.2	0	0	0
28	-999.9	0	0	0	0	0.8	4.1	69.6	139.4	0	0	0
29	-999.9	0	0	0	0	31.3	9.6	26	12.5	0	4.6	0
30	-999.9	0	0	0	0	20.3	1	27.5	8.7	0	0	0
31	-999.9	0	0	0	1.3	0	0	90.3	0	0	0	0
Total *	0	0	0	26.5	67.1	103	425.3	813.9	516.6	15.2	4.6	0
Max *	0	0	0	17.8	51.1	31.3	111.2	123.7	139.4	7.6	4.6	0

Annual *

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1969

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	27.7	139.5	0.3	26.2	0	2.3
2	0	0	0	0	0	4.3	21.3	102.4	0	37.1	0	0
3	0	0	0	0	0	0	20.6	110.2	0.3	0	0	0
4	0	0	0	0	0	0	38.7	45.2	0	8.6	0	0
5	0	0	0	0	0	13.5	21.4	216.1	2.5	1.3	0	0
6	0	0	0	0	13.1	0	2.8	89.2	33.8	9.4	0	0
7	0	0	0	0	0	20.8	7.4	10.4	37.8	5.8	0.8	0
8	0	0	0	0	0	5.4	8.4	180.2	79.5	11	0	0
9	0	0	0	0	0	26.2	0	1.8	41.2	0	0	0
10	0	0	0	0	0	39.3	0	0	50.4	0	0	0
11	0	0	0	0	0	35.5	1.3	0	100.1	0	0	6.6
12	0	0	0	0	0	49.5	1.3	1	35	0.5	0	2
13	0	0	1.3	0	28.2	157.6	0.5	0	14.7	0	0	0
14	0	0	0	0	32	11.5	3.3	0	6.1	0	0	0
15	0	0	0	0	26.9	27.2	47.3	44.2	2.8	21.2	0	0
16	0	0	0	0	0	48.2	5.6	0	0.5	0	0	0
17	0	0	0	0	0	3.6	62.3	0	53.3	0	0	0
18	0	0	0	0	7.9	3	22.4	0	0.5	0	0	0
19	0	0	0	0	0	0	8.9	0.5	0	0	0	0
20	0	0	0	0	0	0	24.4	0.8	0	0	0.5	0
21	0	0	0	0	0.3	0	0	0	3.3	2.3	0.8	0
22	0	0	0	0	0	0	32.3	0	21.4	35.8	0	0
23	0	0	0	0	0.2	0	64.5	0	4.3	0	0.5	0
24	0	0	0	0	48.8	0.8	7.4	1	49.5	0	46	0
25	0	0	0	1.3	11.5	16.3	37.4	0	5.8	0	5.3	0
26	0	0	0	0	16.3	0	80.3	3.6	3.9	0	0	0
27	0	0	0	0.3	5.6	3.3	137.9	0	47.8	15	0	0
28	0	0	0	0	9.9	27.7	17.6	0	39.8	3.3	0	0
29	0	0	0	0	10.4	4.6	37.2	43.5	19.5	6.8	0	0
30	0	0	0	0	0	3.8	160	1.3	44.8	0	0	0.5
31	0	0	0	0	0	0	29	0	0	0	0	0
Total	0	0	1.3	1.6	211.1	502.1	929.2	990.9	698.9	184.3	53.9	11.4
Max	0	0	1.3	1.3	48.8	157.6	160	216.1	100.1	37.1	46	6.6
Annual	3584.7		Source: PAGASA									
	-999.9 - no record		*: No calculation									

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1970

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	7.7	85.4	250.7	1	10.2	0
2	0	0	0	0	0	0	33.8	98.4	17.7	7.1	0.3	0
3	3.3	0	0	0	0	0	115.6	0	120.2	0	0	0
4	0	0	0	0.5	0	23.9	68.4	1	91.3	0	0	0
5	0	0	0	0.4	1.3	1.3	49.6	2.8	19.4	0	0	0
6	0	0	0	0	0	0.8	54.6	1	0	0	2	0
7	0	0	0	0	0.5	0	100.9	43.7	0	0.8	0	0
8	0	0	0	0	0	4.6	9.9	9.5	0	9.2	0	0
9	0	0	0	0	0	3.6	0.5	0	0	0	0.5	0
10	0.3	0	0	0	0	43.7	1	5.6	18.5	2.8	100	0
11	0.5	0	0	0	0	108.2	0.8	2.6	99.6	0	0	0
12	0	0	0	0	2.5	178.1	12.7	55.3	0	0	0	0
13	0	0	0	1.5	0	130.8	61.3	25.5	0	14.5	0	0
14	0	0	0	0	0	84.2	64.3	1.5	0	30.8	3.8	0.6
15	0	0	0	0	1	110.3	87.1	21.1	63.3	21.6	0	0
16	0	0	0	0	0	0.5	0	145	0	3.6	0	12
17	0	0	0	0	2.8	3.1	0	15	0	0	0	6.6
18	0	0	0	0	1	0	0	15.6	0	0	0	0
19	0	0	0	0	1.3	4.6	0	14.5	0	0	17.8	0
20	0	0	0	0	0	0.8	0	0.3	1.8	1.3	0	0
21	0	0	0	0	14.7	0	0	91.5	0	39.2	0	0
22	0	0	0	0	0	27.4	0	20.6	37.9	9.9	0	0
23	0	0	0	0	0	0	2	7.1	0	2.6	0	0
24	0	0	0	6.6	1.8	0	4.3	2.5	22.6	6	0	0
25	0	0	0	0	0	17.5	1	5.3	65.6	1.3	0	0
26	0	0	0	0	0	0.3	1.5	12.2	36.5	3.3	0	0
27	0	0	0	0	0	0	3.6	34.1	0	2.8	0.8	0
28	0	0	0	5.9	0	0	0	33.1	7.9	0	2.3	0
29	0	0	0	0.5	0	0	9.1	94	12.2	14.2	0	0
30	0	0	0.8	1	0	34.8	13	98.6	5.4	79.1	0	0
31	0	0	0	0	0	0	83.3	437.7	0	0	0	0
Total	4.1	0	0.8	16.4	26.9	778.5	786	1380.5	870.6	251.1	137.7	19.2
Max	3.3	0	0.8	6.6	14.7	178.1	115.6	437.7	250.7	79.1	100	12
Annual	4271.8		Source: PAGASA									
	-999.9 - no record		*: No calculation									

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1971

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	4.4	30.7	0	19	2.3	0	0	0
2	0	0	0	0	3.1	2	3	5.6	0	0	4.1	0
3	0	0	0	0	0	11.9	5.6	12.9	0	1.8	0	0
4	0	0	0	0	0	8.4	0	12.4	3	64.3	0	0
5	0	0	0	0	0	8.4	28.6	79.3	7.6	130.4	0	0
6	0	0	0	0	0	0	10	0	32.3	99.3	0	0
7	0	0	0	0	25.7	0	6	34.4	2.5	26.1	0	0
8	0	0	0	0	0	3	5.6	97.8	1	0	0	0
9	0	0	0	0	0	0	4.6	91.2	6.6	107.2	1.3	6.6
10	0	0	0	1.5	0	0	3.6	49.5	6.8	87	2.8	1.8
11	0	0	0	32.3	1.3	42.7	0	31.5	1.3	32	0	0
12	0	0	0	32.3	0	8.4	3.1	0	3.5	66.9	5.3	0
13	0	0	0	0	0	1	1	2	0	0	0	0
14	0	0	0	0	0	3.3	1	15.8	4.1	0	0	0
15	0	0	0	0	0	87.4	22.9	0	35.8	0	13.2	0
16	0	0	0	0	0	64.5	10.9	0	27.2	0	0	0
17	0	0	0	0	0	2.5	3.5	0	7.1	0	27.2	0
18	0	0	0	0	0	0.8	42.7	21.1	1.8	0	0	0
19	0	18.8	0	11.7	0	0	120.3	6.9	34.9	0	0	0
20	0	0	0	0.8	5.1	4	16.8	0	0.5	1.5	0	0
21	0	0	0	0	1	0.8	17.6	3.8	0	0	0	0
22	0	0	0	0	17.7	0	58.8	0	31	0	0	0
23	0	0	0	3.1	0	43.7	86.6	0	0	1	0	0
24	0	0	0	0.1	1.3	3.1	7	1	14.8	3.6	8.9	0
25	0	0	0	5.8	0	20.8	34.5	10.7	4.8	0	1.8	0
26	0	0	0	1	13	24.6	37.6	0	5.1	0.2	0	0
27	0	0	0	0	0	0	0	4.9	2.5	0	10	0
28	0	0	0	0	0	4	0	3.6	7.6	0	37.9	0
29	0	0	0	1.5	0	0	26.7	19.3	1	0	48.8	19
30	0	0	0	6.5	0	2	19.6	1.3	0	0	0	15.2
31	0	0	0	0	0.5	0	8.9	0	0	0	0	0
Total	0	18.8	0	96.6	73.1	378	586.5	524	245.1	621.3	161.3	42.6
Max	0	18.8	0	32.3	25.7	87.4	120.3	97.8	35.8	130.4	48.8	19
Annual	2747.3											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1972

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	3.8	4.8	225.2	3.6	8.4	0	0
2	0	0	0	0	0.5	30.3	1.2	315.1	0	0	0	0
3	0	0	0	0	0	0	18.5	290.5	2.9	0	0	0
4	0	0	0	0	0	0	30.8	84.6	2.3	0	0	1
5	0	0	0	0	0	5.1	0	4.2	3.2	0	0.5	0
6	0	0	0	0	0	113.7	42.1	89.4	2.8	18.5	0	1
7	0	0	0	0	0	197.9	158	3.3	0	0	0	0
8	0	0	0	0	0	116.9	133	0	0	0	0	0
9	0	0	0	0	0	91.4	114.6	0	12	0	0	0
10	0	0	0	0	0	22.9	120	18.2	50	0.5	0	0
11	0	0	0	0	0	14.6	44.1	21.1	1	0	0	0
12	0	0	0	0	0	0	14.6	16.3	1.7	0	0	1
13	0	0	0	1	0	0	27.6	1	0	0	0	0
14	0	0	0	2	0	0	49.9	10.5	8.2	0	0	3.4
15	0	0	0	0	0	0	11.5	96.5	0	0	0	0
16	0	0	0	0	0	0	7.1	230.1	0	0	0	0
17	0	0	0	0	0	0	144	68	0	0	0	0
18	0	0	0	0	3.3	0	51.8	30.9	6.7	0	0	0
19	0	0	4.8	0	0	0	107.9	0	0	0	0	0
20	0	0	0	0	0	0	103.8	10	100	0	0	0
21	0	0	0	0	0	19	6.8	32.6	59.2	1.8	0	0
22	0	0	0	0	12.4	0	25.7	10.7	1.6	0	0	0
23	0	0	0	0	3.6	0	25.7	7.9	0	0	0	0
24	0	0	0	0	26.2	16.7	27.4	27.6	0.8	0	0	0
25	0	0	0	0	27.9	73.8	49.7	62.3	0	0	32	0
26	0	0	0	0	0	19.4	52.7	28.6	4.6	0	0	0
27	0	0	0	0	0	38.3	56.3	0	2.5	0	0	0
28	0	0	0	0	0	3.2	116.1	1	0	0	0	0
29	0	0	0	0	0	6.1	67.9	9.5	0	0	0	0
30	0.8	0	0	0	6.1	11.4	114.6	3.9	0	0	0	0
31	0	0	0	0	1.3	0	25.2	1	0	0	0	0
Total	0.8	0	4.8	3	81.3	784.5	1753.4	1700	263.1	29.2	32.5	6.4
Max	0.8	0	4.8	2	27.9	197.9	158	315.1	100	18.5	32	3.4
Annual	4659											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1973

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	6.4	13.4	4.2	0	14.2	0	0
2	0	0	0	0	0	2.6	0	0	0	0	0	0
3	0	0	0	0	0	6.9	0	4	0	0	1.8	0
4	0	0	0	0	0	2	7.4	4.6	0	0	0.3	0
5	0	0	0	0	10.2	0	16.7	24.7	0	2.8	0	0
6	0	0	0	0	0	13	1.5	49.8	0.8	3.1	0	0
7	0	0	0	0	0	0	0	1.3	1.3	101.9	0	0
8	0	0	0	0	9.4	0	2	20.3	0.5	149.1	0	0
9	0	0	0	0	3.3	0	18.9	37.6	0.5	10.9	0	0
10	0	0	0	0	0	0	29.5	52	1.5	14.2	0	0
11	0	0	0	0	0	23.1	0	12	18.3	128.3	0	0
12	0	0	0	1.8	0	4	82.6	43.7	0	53.5	0.2	0
13	0	0.5	0	0	0	46.5	53.4	9.4	6.4	0	0.8	0
14	0	4	0	0	41.1	48.5	160.7	0	29.8	1.5	0	0
15	0	0	0	0	0	77.8	81.9	25.2	0	121.4	0	0.5
16	0	0	0	0	0.5	52.3	28	156.6	29.5	82.8	0	0
17	0	0	0	0	0	43.7	13.7	39.1	0.5	0	0	0
18	0	0	0	0	0	32.8	3.8	0	3.5	0	0	0
19	0	0	0	0	0	70.3	15	34.8	0	0	0	0
20	0	0	0	0	0	2	8.4	95.3	3.8	0	1.8	0
21	0	0	0	0	0	9.5	0	100.6	3.3	0	32.3	0
22	0	0	0	0	0	0	2	151.1	26.7	0	4.8	0
23	0	0	0	0	0	0	42.4	179.4	5.6	0	0	0
24	0	0	0	0	0	0	33	7.7	0	0	0	0
25	0	0	0	0	0	0	1	31.9	3.1	0	0	0
26	0	0	0	0	0	0	0	39.7	12.2	0	0	0
27	0	0	0	0	0	5.3	2.8	34.4	1.8	0	11.9	0
28	0	0	0	2.8	0	2.3	1	17.3	11.2	0	0	0
29	0	0	0	0	0.8	19.7	0	0	5.1	0	0	0
30	0	0	0.5	0	2.3	26.3	0	6.9	0	0	0	0
31	0	0	0	0	0	0	1.3	9.7	0	34.5	0	0
Total	0	4.5	0.5	4.6	67.6	495	620.4	1193.3	165.4	718.2	53.9	0.5
Max	0	4	0.5	2.8	41.1	77.8	160.7	179.4	29.8	149.1	32.3	0.5
Annual	3323.9											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1974

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	40.1	3.3	15.7	2.8	0	5.6	0
2	0	0	0	0	0	46.5	26.8	0	0.8	0	1	0
3	0	0	0	0	0	17.3	0.3	9.6	0	0	0	0
4	0	0	1.3	0	0	23.1	6.4	4.6	11.2	0	3.3	0
5	0	0	0	0	0	38.8	144.1	0	0	2.5	0	0
6	0	0	0	0	0	30	0	1.5	0	0	41.9	0
7	0	0	0	0	0	19.3	23.9	3.4	2.3	0	45.4	0
8	0	0	0	0	0	0	21.1	21.1	2	4.6	0	0
9	0	0	0	2.5	0	8.1	130.2	21.8	0.8	0.5	0	0
10	0	0	0	0	0	64.1	38.1	92.7	34.8	57.4	0.5	0.4
11	0	0	0	0	10.7	68.9	25.1	26.7	30.5	39.2	0	0
12	0	0	0	0	15.2	10.9	0	59.7	2.8	8.9	0	0
13	0	0	0	0	0	1.3	33.1	143.9	0	2	10.9	0
14	0	0	15.2	0	7.6	0	5.1	110.2	2	0	0	0
15	0	0	0	0	1.3	0	24.9	192.2	0	6.9	0	15.7
16	0	0	0	1.5	13.7	0	0	344.5	0	76.5	0	4.1
17	0	0	0	0	0	0	50	149.6	0	92.7	0	0
18	0	0	0	0	0	0.5	0.3	18.4	0	22.7	0	0
19	0	0	0.3	0	3.1	1.8	3.4	15.7	0	4.8	0	0
20	0	0	0	0	0	1.5	313.4	50.3	1.3	1.1	0	12.9
21	0	0	0	0	0	0	26.2	18.8	0	0	0	6.6
22	0	0	0	0	0	0	1.3	5.3	0	10.5	0	0
23	0	0	0	0	0	0	0	65.6	12.4	4	2.3	0
24	0	0	0	1	0.8	2.1	0	44	11.5	3.8	0	0
25	0	0	0	0	2.8	1.3	0	21.3	14	0.8	0	0
26	0	1	0	0	5.6	0	1.3	16	0	0	0	0
27	2.3	0.5	0	0	0	0	12.2	12.9	5.1	10.9	5.9	0
28	0	0	0	0	44.2	9.7	28.5	84.7	0	43.9	104.4	0
29	0	0	0	0	83.2	0.3	0	99.5	0	9.6	11.2	0
30	0	0	0	0	57.5	20.6	12.9	10.1	0	0	0	0
31	0	0	0	0	24.7	0	3.3	0	0	17.3	0	0
Total	2.3	1.5	16.8	5	270.4	406.2	935.2	1659.8	134.3	420.6	232.4	39.7
Max	2.3	1	15.2	2.5	83.2	68.9	313.4	344.5	34.8	92.7	104.4	15.7
Annual	4124.2											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1975

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	2.6	14.3	7.4	75.3	9.4	0	0.2	0
2	0	0	0	0	0	4.6	6.9	11.2	3.8	26.9	1.5	0
3	0	0	0	0	0	16.5	50	5.6	1.5	8.6	6.4	0
4	0	0	0	0	0	19.3	46.2	1	26.4	29.7	14.7	0
5	0	0	0	0.5	0	2.6	3.3	56.6	3.8	0	0	0
6	0	0	0	0	0	0.3	15	35.8	5.8	0	0	4.1
7	0	0	0	0	0	2.5	2.8	56.9	0	3	0	0
8	0	0	0	0	0	0.5	6.6	64.8	0	6.8	0	0
9	0	0	0	0	0	2.5	20.4	72.6	0	3	0	0
10	0	0	0	0	0	7.4	12.7	16.3	0	0	0	0
11	0	0	0	0	0	0	0	7.4	0	0	0	1
12	0	0	0	0	0	4.6	37.3	9.9	26.9	0	0	0
13	0	0	0	0	0	0	2.5	38.4	0	0	0.2	0
14	0	0	0	0	0	104.9	0.5	110.8	1.8	17	0	0
15	0	0	0	0	0	14	0.5	30.6	0	0	0	0
16	0	0	0	0	0	10.6	1.7	5.3	0	0.2	0	0
17	0	0	0	0	0	0	0	10.2	46.4	3.8	0	0
18	0	0	0	0	0	17.6	4.3	0.2	123.4	5.1	0	2.5
19	0	0	0	0	0	0.3	0	7.4	0	242.7	0	2.3
20	0	0	0	0	0.5	30.5	0	5.8	0	131.4	0	0.8
21	0	0	0	0	0	1.8	0.8	35.1	0	76.2	0	23.4
22	0	0	0	0	0	19	0	50.6	0	27.9	0	0
23	0	0	0	0	0	0	3.1	40.5	2	0	0	0
24	0	0	0	4.8	0.5	0.5	1.8	84.1	2.6	8.9	0	0
25	0	0	0	0	1.3	76.2	0	37.9	13.5	1.5	0	8.7
26	0	0	0	0	0	19.8	0	25.9	0	10.2	0	0
27	0	0	0	0	3	0.8	0	1.5	0.5	0	0	1.8
28	0	0	0	0	0	0	1	0.5	7.6	0	0	0
29	0	0	0	0	0	0.3	0	0	11.9	0	0	0
30	0	0	0	0.8	0.3	0	7.9	1.5	37.8	0	2.3	0
31	0	0	0	0	3.5	0	0.5	0	0	7.9	0	0
Total	0	0	0	6.1	11.7	371.4	233.2	899.7	325.1	610.8	25.3	44.6
Max	0	0	0	4.8	3.5	104.9	50	110.8	123.4	242.7	14.7	23.4
Annual	2527.9											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1976

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0.3	25.4	25.1	2.5	2	0
2	0	0	0	0	0	0	5.8	12.4	0	0	0	0
3	0	0	0	0	0	2.8	0	20	2.8	0	0	5.3
4	0	0	0	0	0	0	0	29.5	15.2	0	0	9.1
5	0	0	0	0	0	0	0	4.9	0.8	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	38.9
7	0	0	0	0	0	0	0	17.5	0	0	0	0
8	0	0	0.2	0	0	0	0	160.5	0	0	0	0
9	0	0	1.5	0	0	0	0	66.9	1	13.5	0	0
10	0	0	0	0	0.5	0	0	85.4	6.4	18.8	0	0
11	0	0	0	0	4.3	0	0	32.5	271.7	0	0	0
12	0	0	10.9	0	19.1	0	6.1	0	44.2	0	0	0
13	0	0	0.5	0	0.2	0	0	10.2	57.2	0	0	0
14	0	0	0	0	3.8	26.7	0	0	78.6	0.5	0	0
15	0	0	0	0	18	6.3	2.8	0	17	0	0	0
16	0	0	0	0	0	0	3.8	1	31.3	0	0	0
17	0	0	0	0	0	21.1	0	47	50.8	0	0	10.7
18	0	0	0	0	1.7	7.4	5.8	1.6	49	3	0	0.5
19	0	0	0	0.5	234.1	0	0.8	5.3	9.2	0	0	0
20	0	0	0	0	83.3	9.9	5.1	0	13	0	0	0
21	0	0	0	0	13.7	0	2.6	7.8	3.8	3.3	6.6	0
22	0	0	0	0	140.1	0.5	4.1	76.6	14.4	0	1	0
23	0	0	0	0	543.4	2.8	138	0.2	50.3	0	0	0
24	0	0	0	0	444.2	42.2	55.9	0	10.9	0	0	0
25	0	0	0	0	166.5	95	71.8	0	0	0	0	0
26	0	0	0	0	40.2	82.7	0	4.3	0	0	3.8	0
27	0	0	0	0	155.7	7.1	11.9	1.3	0	0	0	0
28	0	0	0	0	84.5	20.8	33.5	7.6	0	0	0	0
29	0	0	0	0	15.2	29.7	0	24.1	80.3	0	0	0
30	0	0	0	8.1	0	10.4	4.1	0.8	0	0	0	0.2
31	0	0	0	0	0	0	62.5	8.4	0	0	0	0
Total	0	0	13.1	8.6	1968.5	365.4	414.9	651.2	833	41.6	13.4	64.7
Max	0	0	10.9	8.1	543.4	95	138	160.5	271.7	18.8	6.6	38.9
Annual	4374.4											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1977

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	126.9	5.8	0	4.1	0
2	0	0	0	0	19	0	38.4	30.8	73.9	0	1.8	0
3	0.5	0	0	0	0	0	8.1	51.6	151.9	0	0	0.6
4	14.2	0	0	0	0	0	27.2	51.8	18.5	0	0	0
5	0	0	0	0	0	0	3.3	0	27.2	0	0	0
6	0	0	0	0	0	0	0	0	0	4.6	0.2	0
7	0	0	0	0	0	0.8	0.2	49	0	0	0	0
8	0	0	0	0	0	0	26.6	0.2	13	0	0	0
9	0	0	0	0	0	4.3	17.5	11.6	0	0	0	0
10	0	0	0	0	0	0	0	7.9	60.8	0	0.8	0
11	0	0	0	0	0	10.9	0	8.1	169.3	0.8	0	0
12	0	0	0	0	0	21.8	4.6	0.7	69.6	0	0	0
13	0	0	0	0	0	13.7	11.9	0	9.2	2.5	0	0
14	0	0	0	0	0	0.4	5.8	0.8	1	1.3	291.4	0
15	0	0	0	0	0.5	2.8	7.9	88.7	53.6	6.9	82.6	0
16	0	0	0	0	0	0	8.1	160.5	69	0	9.2	0
17	0	0	0	0	7.1	41.1	7.6	12.4	45.4	1.8	0	0
18	0	0	0	0	24.5	3	212.8	57.7	26.6	0	0	0
19	0	0	0	0.2	11.4	0	83.5	82.8	17.3	0	0	0
20	0.2	0	0.5	0	32	0	2.3	147.3	13	0.2	0	0
21	0	0	0	0	0	0	1.5	49.9	0.2	0	0.2	0
22	1	0	0	0	0	0	105.1	2	0	0	0	0
23	13.8	0	0.2	0	0	0.5	60.7	7.6	135.6	0	0	0
24	0	0	0	0	0.5	0	65.7	0	21.1	0	0	0
25	0	0	0	0	26.5	0.8	42.5	0	0.5	0	0	0
26	0	0	0	0	80.5	8.9	13.2	0	12.9	0	0	0
27	0	0	0	11.7	2.5	1.8	2	0	0.7	0	0	0
28	0	0	0	0	19.6	97.8	16.8	0.4	0.5	0	0	0
29	0	0	0.2	0	19.3	33.8	147.3	0	0.5	0	0	0
30	0	0	0	0	34.5	0	5.8	7.6	0.8	0	0	0
31	0	0	0	0	3.3	0	18.7	26.4	0	0	0	0
Total	29.7	0	0.9	11.9	281.2	242.4	945.1	982.7	997.9	18.1	390.3	0.6
Max	14.2	0	0.5	11.7	80.5	97.8	212.8	160.5	169.3	6.9	291.4	0.6
Annual	3900.8											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1978

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	1	0	0	19.9	8.6	64.8	7.6	67.8	0.8	0.1
2	0	0	0	0	0	76.7	0	1.1	20.8	29.1	0	0
3	0	0	0	0	0	50.2	6.4	85.1	47	0.8	0	0
4	0	0	0	0	0	0	2.8	21.1	161.5	0.7	0	0
5	0	0	0	0	0	0	0	73	2.5	46.7	0	0
6	0	0	0	0	0	0	0	92.6	0.7	0	0	0
7	0	0	0	0	0	0	1.8	6.8	9.9	11	0	0
8	0	0	0	0	0	0	0	25.2	19.3	14.7	0	0
9	0	0	0	0	0	0	0.5	58.6	29.5	96.3	0	0
10	0	0	0	0	2.3	3	0	192.6	114	38.6	0	0
11	0	0	0	0	0	40.7	0.3	120.7	6.6	88.2	2.3	0.3
12	0	0	0	0	0	136.9	0.5	189	20.6	18.6	0.3	0
13	0	0	0	0	0	0	0	188.2	2.8	29.4	0.7	0
14	0	0	0	0	0.7	61.5	0	138.9	7.9	10	0	0
15	0	0	0	0	8.9	0	7.1	151.4	5.8	0	0	0
16	0	0	0	0	4.6	4.1	21.6	7.9	32.2	0.8	0	0
17	0	0	0	0	0	2.8	40.2	10.2	53.1	5.1	0	0
18	0	0.2	0	0	0	0	85.6	27.7	21.8	0	0	0
19	0	0	0	0	0	3.6	20	16.7	0	0.8	0	0
20	0	0	0	0	0	9.6	9.3	4.1	0	20.9	0	11.9
21	0	0	0	0	0	19	34.3	75.7	0	0	0	3.8
22	0	0	0	1	0	63.3	1.4	97	4.3	0	0	1
23	0	0	0	0	25.2	28.1	11.9	196.4	9.4	0	0	0
24	0	0	0	0	20.5	51.7	25.9	74.2	0	0	0	0
25	0	0	0	1.3	0	4.8	31.8	60.7	31.2	0	0	0
26	0	0.5	0	0	0	0	120.6	51.8	18.6	18.8	0	0
27	0	0	0	0	2.8	0	68.1	27.4	32.5	75.2	0	0
28	0	0	0	0	105.9	1.1	21.8	24.2	28	0	0	2.6
29	0	0	0	0	41.7	0	13.1	179.3	52.4	12	0	0.3
30	0	0	0	0	70.9	0	70.1	22.4	21.4	0	0	0
31	0	0	0	0	84.6	0	5.8	11.9	0.3	0	0	0
Total	0	0.7	1	2.3	368.1	577	609.5	2296.7	761.4	585.8	4.1	20
Max	0	0.5	1	1.3	105.9	136.9	120.6	196.4	161.5	96.3	2.3	11.9
Annual	5226.6											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1979

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	84	0	20.4	0	0
2	0	0	0	0	0	23.6	3.6	24.9	0	28.7	4.6	0
3	0	0	0	0	0	0	161.9	31.3	0	32.5	0	0
4	0	0	0	0	0	0	72.8	43.9	0	1.3	0	0
5	0	0	0	0	0	0	7.3	32	0	0.3	0	0
6	0	0	0	0	0.3	8.4	12	102.5	0	0	4.9	0
7	0	0	0	0	0	17	82.8	237.7	0	0	6	0.8
8	0	0	0	0.8	23.9	0	92.2	17.1	0	0	0	0
9	0	0	0	0	0	12.5	97.6	17.3	0	0	0	0
10	0	2.5	0	0	0	1.5	2.8	26.2	0	0	0	0
11	0	0	0	0	0	0.3	0	121.1	4.1	45.7	1.1	0
12	0	0	0	0	5.1	0	0	68.1	5.8	0	0	0
13	0	0.3	0	0	0.8	1.3	7.1	30	1.3	0	6.4	0
14	0	0	0	0	48.5	0	19	398.4	0.3	2.5	0.2	0
15	0	0	0	0	0.8	0	0	57.1	0	10.7	3.8	0
16	0	0	0	4.8	55.1	0.3	2.3	33.8	11.7	0.6	1.3	0
17	0	0	0	4.8	117.6	0	24.1	28.2	1.3	0.1	0	0
18	0	0	0	0	102.6	0	0	14.9	6.4	0	0	0
19	0	0	0	0	6.1	0	0	0	61.4	1.3	0	0
20	0	0	0	0	24.6	0	5.3	0	11.6	0	0	0
21	0.3	0	0	4.1	0.3	0	5.3	0.5	0.6	19	0	0
22	0	0	0	0.3	80.3	1.8	0	14	0	0	0.3	0
23	0	0	0	5.3	19.1	4.8	3.3	2.6	0.5	0	0	6
24	0	0	0	0	9.9	0.5	8.4	0	8.6	0	0	0
25	0	0	0	0	49.8	0	1.5	0	0	0	0	0
26	0	0	0	0	0.3	1.8	2.5	0	0	0	0	0
27	0	0	0	0	33.8	0	49.4	0	7.4	0	0	0
28	0	0	0	10.6	21.4	25.8	47.5	5.6	4.6	0	4.3	0
29	0	0	0	0	12.7	0.5	134.9	14	3.6	0	0	0
30	0	0	0	0	13.6	0	87.9	0	32.8	0	0	0
31	0	0	0	0	34	0	55.4	0	0	0	0	0
Total	0.3	2.8	0	30.7	660.6	100.1	986.9	1405.2	162	163.1	32.9	6.8
Max	0.3	2.5	0	10.6	117.6	25.8	161.9	398.4	61.4	45.7	6.4	6
Annual	3551.4											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1980

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	22.8	0.4	79.6	0	1.2	0.2	39	0
2	0	0	0	0	0	0	11.9	0	11.2	1	11.3	0
3	0	0	0	0	0	1.8	38.9	0	0.2	0	0	0
4	0	0	0	0	0	66.4	62.4	0.6	0	19.3	14.3	0
5	0	0	0	0	0	40.6	1	14.3	4.8	0	207	0
6	0	0	0	0	0	29.6	6.4	0	0	8.1	0	0
7	0	0	0	0	0	2	0.3	0	23.8	0.6	0	0
8	0	0	0	0	0	0	9.9	0	0.3	0	0	0
9	0	0	0	0	0	0	141.7	0	9.8	4.2	4.7	0
10	0	0	0.1	0	8.9	6.6	78.5	0	88.7	0	0	0
11	0	0	0	0	11.2	0	3.8	4.6	74.4	0	0	0
12	0	0	0	0	0	0	0.3	13.2	128.9	0	1.4	0
13	0	0.8	0	0	5.9	0	0	44	175.1	0	0	0
14	0	0	0	0	62.3	0	7.9	34.6	126.1	1.2	0	0
15	0	0	0	0	54.9	0	22.9	5.6	88.3	0	0	0
16	0	0	0	0	1	0	62.5	78.2	133.8	0	0	0
17	0	0	0	9.2	15	0	13	70.3	89.2	13.7	0	0
18	0	0	0	7.2	0.8	3.8	19.2	0	105.2	0	0	0
19	0	0	0	0	35.6	0	3.7	1.2	1.3	1.3	0	0
20	0	0	0	0	10.9	14.7	164.4	6.4	1.8	0	0	0
21	0	0	0	0	13.5	0	69	1.5	0.4	16	0	0
22	0	0	0	0	0	0	0.6	1	0	0.6	0	0
23	0	0	0	0	0	0	9.4	15	0.6	43.4	0	0
24	0	0	0	28.5	0	1	185.1	1.8	0	1.8	0	0
25	0	0	12.2	0	84.1	22	187.2	8.4	20.8	0.8	6.6	0
26	0	0	3.6	0	0	0	35.1	11.6	0	0	0	0
27	0	0	1.3	0	0	6.2	0	44.4	10.8	5.6	0	0
28	0	0	0	0	0	0	0	280.6	0	15.3	0	0
29	0	0	1	0	0	0	0	24.2	0	45.6	0	0
30	0	0	0	0	0	9.1	0	0.2	0	8.9	0	0
31	0	0	0	0	1.8	0	0	0.4	0	0	0	0
Total	0	0.8	18.2	44.9	328.7	204.2	1214.7	662.1	1096.7	187.6	284.3	0
Max	0	0.8	12.2	28.5	84.1	66.4	187.2	280.6	175.1	45.6	207	0
Annual	4042.2											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1981

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.8	0	0	0	0	0	1.8	6.8	0	38.4	0	0
2	0	0	0	0	0	0	2.2	35.8	0	140.4	0	0
3	0	0	0	0	0	7.8	4.6	17.2	0.1	3.4	0	0
4	0	0	0	0	0	27.3	165.2	21	5.2	17.6	0	0
5	0.6	2	0	0	0	65.2	89.5	70.8	0	0	0	0
6	0	0	0	0	0	93	2.8	66.4	0.1	24.6	0	0
7	0	0	0	0	0	51.4	0	124.4	0	0	0.2	0
8	0	0	0	0	0	35.2	6	49.1	0	0	0	0
9	0	0	0	0	0	75.1	9.2	55.4	0	0	0	0
10	0	0	0	0	0	98.5	11.4	17.8	0	0	0	0
11	0	0	0	0	0	25.2	0	10.2	0	1.7	0.1	0
12	0	0	0	0	0.6	39.1	20.7	23.4	0	0.4	0	0
13	0	0	0	0	47.4	117.6	1.4	59.6	0	0	0	0
14	0	0	0	0	0	41.3	22.6	19.2	0.1	0	0	0
15	0	0	0	0	0.8	43.1	14	51	2	0	0	0
16	0	0	0	0	35.3	10.4	183.2	56.8	6.8	0	0	0
17	0	0	0	0.4	8.9	4.2	89.8	64.6	0	0	0	0
18	0	0	0	0	8.4	13.8	161.5	91.2	0	0	0	0
19	0	0	0	0	0	19.9	34.1	55.2	13.2	0	0	0
20	0	0	0	0	0	54.3	11.2	5.8	69	0	3.4	0
21	0	0	0	0	0	152.6	25.8	36.6	47.6	1.2	1.6	0
22	0	0	0	0	0	0	0	2.6	8	0.9	12.8	0
23	0	0	0	0	0	0.4	0	0	0.3	0	0	0
24	0	0	0	0	0	4.6	0.2	21.1	0	6.8	65.6	0
25	0	0	0	0.6	0.2	7.2	13.4	20.2	13.5	0	7	0
26	0	0	0	0	0	10.6	1.9	13.2	0	10	0	3.2
27	0	0	0	0	0	0	0.2	6	0	2.4	0	0
28	0	0	0	0	0	0	6.4	0.4	0.4	0	0	0
29	0	0	0	0	0	0	4.8	14.2	2.6	0	0	0
30	0	0	0	0	0.6	6	0	6.9	93.4	17.4	0	0
31	0	0	0	0	5.6	0	0	0	0	0	0	0
Total	1.4	2	0	1	107.8	1003.8	883.9	1022.9	262.3	265.2	90.7	3.2
Max	0.8	2	0	0.6	47.4	152.6	183.2	124.4	93.4	140.4	65.6	3.2
Annual	3644.2											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1982

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	28.8	3	16.6	0	0	0
2	0	0	0	8.2	0	0	61.2	0.4	55.2	0	0	14.2
3	0	0	0	0	0	13.8	202.4	4.8	45.6	2.2	0	0
4	0	0	0	0	0	0	208.8	29.6	46.8	0.8	0	0
5	0	0	0	3	0	0	18	82.4	79.8	0	0	0
6	0	0	0	0	0	0	0	38.8	12.6	0	0	0
7	0	0	0	0	0	0	6.4	76	3	0	0	0
8	0	0	0	0	0.4	4.2	2	3.8	0	0	0	0
9	0	0	0	0.8	0	0	26.8	42.8	28.6	0	0	1.4
10	0	0	0	0	0	19.4	9.4	51.2	32.6	2.4	5.2	0
11	0	0.6	0	0	34.2	0.4	32	51.1	3	0	0	0
12	0	7.2	0	0	0	0	10.4	28.2	8	3	44.2	0
13	0	0	0	7.4	12.8	0	36.2	10.5	0	0	3.8	1.6
14	0	0	0	0	16.4	5	14	97	0	7.2	1.6	0
15	0	0	0	0	4	20.2	320.6	4.2	0	27.6	0	0
16	0.2	0	0	0	0	0	72.4	0.2	5.4	0	0	0
17	0	0	0	0	0	1	0	0	54.6	0	0	0
18	0	0	0	0	0	0	5	0	0	0	0	10.2
19	0	0	0	0	0.4	24.6	10	0	0	0	0	0
20	0	2.6	0	0	0	1.5	9.4	6.2	4.2	0.6	12.8	0
21	0	0	0	0	0	0	0.4	0	2.6	8.4	0	0
22	0	0	0	0	0	76	233.2	0	11.6	4	0	0
23	0	0	0	0	0	84.4	40	0.2	42.6	0.4	0	0
24	0	0	0	0	0	81.8	64	120	108.2	0.6	0	0.6
25	0	0	32.5	0	12.8	47.6	20.2	16.8	82.6	0	0	0
26	0	0	0	0	0	75	23.8	2.8	0	0	0	6.6
27	0	0	0	0	0	31	65.6	5	24.5	0	0	0.2
28	0	0	0	0	0	43.8	3.4	2.6	0	0	0	0
29	0	0	0.8	0	0	69	11.6	36.2	0.2	0	0	0
30	0	0	0	0	2.6	81.8	19.4	17.6	5	0	0	0
31	0	0	10.4	0	0	0	67	62.3	0	0	0	0
Total	0.2	10.4	43.7	19.4	83.6	680.5	1622.4	793.7	673.3	57.2	67.6	34.8
Max	0.2	7.2	32.5	8.2	34.2	84.4	320.6	120	108.2	27.6	44.2	14.2
Annual	4086.8											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1983

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	7	0.4	6.8	1.6	0.8	0
2	2.2	0	0	0	0	4	0	2.2	2	26.4	37	0
3	0	0	0	0	0	4	12	24.6	0	0.2	0	0
4	0.4	0	0	0	0	16	7.8	5.8	19.2	0	0	0
5	0	0	0	0	0	69	1.4	1.4	3.2	0	0	0
6	0	0	0	0	0	17	0.4	8.4	2	2	0	0
7	0	0	0	0	0.4	15	32.8	2.2	22.8	7.4	0	0
8	0	0	0	0	0	0	6.2	0	0	26.2	0	0
9	0	0	0	0	0	0	3.4	0	0	0	0	0
10	0	0	0	0	0	0	12.2	45.4	0	1.6	0	0
11	0	0	0	0	0	0	11.8	59.4	0	37.2	0	0
12	0	0	0	0	0	0	0	33	1.2	29.6	0	0
13	0	0	0	0	0	0	0.4	75	0	0.4	0	0
14	0	0	0	0	0	0	5.6	121	1	0.4	0	0
15	6.6	0	0	0	0	0	131.2	189.8	0	0	0	0
16	0	0	0	0	0	0	14	173.2	0	0	27.2	0
17	0	5.8	0	0	0	0	0	42	0	0	0	0
18	0	0	0	0	0	0	0	4	0	0	0	0
19	0.4	0	0	0	0	0	0	21.8	0	0	0	0
20	0	0	0	0	0	0	13.6	0	0	0.6	0	0
21	0	0	0	0	0	0	0	0	0.4	7.2	0	0
22	0	0	0	0	4.8	0	1.4	0.5	60.2	0	0	0
23	0	0	0	0	0	0	1.4	27	0.4	0	0	0
24	0	0	0	0	0	0	3.2	4.4	6.6	16.2	0	0
25	0	0	0	0	0	0	22.4	27.6	53.2	0.2	0	0
26	0	0	0	0	0	1	0	35	114.2	0	0	0
27	0	0	0	0	0	72.4	3	3.4	72.6	6.8	0	0
28	0	0	0	0	0	0	55	8.2	31.6	0.2	0	0
29	0	0	0	0	0	0	2.6	0	0	0	0	0
30	0	0	0	0	0	0	0	0	2.4	0	0	0
31	0	0	0	0	0	0	6.6	0.4	0.6	0	0	0
Total	9.6	5.8	0	0	5.2	198.4	355.4	916.1	399.8	164.8	65	0
Max	6.6	5.8	0	0	4.8	72.4	131.2	189.8	114.2	37.2	37	0
Annual	2120.1											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1984

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0.5	0	24.2	0	262.6	27.5	0	0	0	0
2	0	0	0	0	15.5	0	140.3	53.7	0.2	0	0	0
3	0	0	0	0	0	0	15.4	41.3	0.4	4	0	0
4	0	0	0	0	16.6	4.2	0	41.3	0	1.7	0	19.8
5	0	0	0	0	16.7	5.9	2.5	15.6	1.2	52	0	0
6	0	0	0	0	14.9	0	95.7	155.3	3.4	17.8	0	0
7	0	0	0	0	3	0	6.6	104.4	0	35.2	0	0
8	0	0	0	0	0	0	0	18.6	0	60.8	0.2	0
9	0	0	0	0	0	0	0	34.1	0	11.2	0	0
10	0	0	0	0	0	3	0.4	109.7	22	8.3	0.8	0
11	0	0	0	0	0	23	1.4	45.2	0	0	4	0
12	0	0	6.5	0	0	0.5	0	61.8	45.4	17.2	0	0
13	0	0	0	0	21.5	0	0	90.4	0	9.6	0	0
14	0	0	0	0	0.2	15.6	0	47.4	0.2	2.2	0	0
15	0	0	0	0	2.1	134.9	0	56.4	4.7	5.6	0	0
16	0	0	9.5	0	0	95.2	0	64	0.3	0.4	0	0
17	0	0	0.2	20	0.4	9	0	30.8	7	0	0	0
18	0	0	0	0	0	29.5	2.4	70.6	1	0	2.8	0
19	0	0	0	0	0	30.6	0	1	2.4	1.3	0	0
20	0	0	0	0	7	44.6	0	7.4	0	0	0	0
21	0	0	0	7.6	15.4	27	0	37.4	0.6	4.3	0	0
22	0	0	0	0	0.2	72	0	14.4	11	2.8	0	0
23	0	0	0	5.6	14.6	84.6	0	32.5	0	2.8	0	0.6
24	0	0	0	0.5	18.1	52.3	0.2	17.4	0.2	1	0	0
25	0	0	0	0.5	2.5	39.1	0	17.2	13.4	11.7	0	0
26	0	0	0	0	0	61.8	3.3	43	10.8	18.2	1.6	0
27	0	0	0	0	0	39.6	30.3	252	3	5	0	0
28	0	0	0	1.4	0	10.6	22.2	168.2	5	38.4	0	0
29	0	0	0	6.6	22	11.4	11.3	36.6	0.8	15	0	0
30	0	0	0	33.5	0	7.4	42.7	85.6	2	0	0.6	0
31	0	0	0	0	0.2	0	101.1	6.8	0	0	0	0
Total	0	0	16.7	75.7	195.1	801.8	738.4	1787.6	135	326.5	10	20.4
Max	0	0	9.5	33.5	24.2	134.9	262.6	252	45.4	60.8	4	19.8
Annual	4107.2											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1985

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.6	0	0	5.6	7.8	3.4	25	42.8	0	2.2	45	0
2	0	0	0	0	0	0	7.8	4.4	22	0	0	0
3	0	0.4	0	0	0	0	0	4.8	154.4	0	0	0
4	0	0	0	0.5	0	23.8	0.4	24.8	104.2	0.3	0	0
5	0	0	0	0	3.6	11.6	57.8	21.6	23.8	2.6	0	1.2
6	0	0	0	0	0.4	4.6	22	48.6	0	9.6	0	7.4
7	0	0	0	0	0	30.6	50	14.8	4	12.4	0	0
8	0	0	0	0	0	69.2	31	89.6	40	15.8	0	0
9	0	0	0	0	0	64.8	5.6	73.2	0	0.3	0	0
10	0	0	0	0	2.4	15.6	5	57.2	0	0	0	0
11	0	0	0	0	0	42.6	0.4	105.4	1	0	0	0
12	0	0	0	0	0	11.4	0	133.8	0.6	1	0	10.2
13	0	0	0	0	0	37.4	0	72.2	4.6	0	0	0
14	0	0	0.4	0	19.1	93.4	0	35	1.8	0	0	0
15	0	0	13.6	0	0	44.2	8	22.8	3.6	2.8	6.4	0
16	0	0	0	0	0	87.8	2	1.4	0	0	0	0
17	0	0	0	0	0	60.8	0	51.6	0	0	0	0
18	0	0	4.8	0	0	40.6	0.3	67.2	3.8	43.6	0	0
19	0	0	0	11	0	26.8	8.8	55.2	0	92.4	0	0
20	0	0	32.2	0	0	61.1	0	12.8	0	2.4	0	0
21	0	0	0	0	0.5	271.4	0	7.6	3.8	0	0	0
22	0	0	0	0	28.6	128	0	19.6	0.4	0	0	0
23	0	0	0.5	7.9	0	81.6	1.8	6.6	0	0	0.4	0
24	0	0	0	2.2	0	11.5	0	2.5	0	28	0	0
25	0	0	14.4	0.2	0	47.2	0	3.6	23.8	13.9	0	0
26	0	0.8	28.4	0.4	0	172.4	2.5	16	12.8	34.8	0	0
27	0	0	0	14.4	6.8	285	3	5.4	3	4.6	3.9	0
28	0	0	0	5.2	19.4	62.6	23	12.8	1.8	0	0	0
29	0	0	0	2.2	4	10.2	0.2	7	5.8	0	0	0
30	0	0	0	0	5.4	7.6	1	0.2	0	0	0	0
31	0	0	0	0	15.8	0	15.2	0	0	0.4	0	0
Total	4.6	1.2	94.3	49.6	113.8	1807.2	270.8	1020.5	415.2	267.1	55.7	18.8
Max	4.6	0.8	32.2	14.4	28.6	285	57.8	133.8	154.4	92.4	45	10.2
Annual	4118.8											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1986

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	1	0	0	0	3.8	151.2	128.6	55.4	0	0	1.4
2	0	0	0	0	0	5.1	115	166.2	90.8	0	0	0
3	0	0	0	0	0.6	4.2	194.4	79.4	61.5	0	0	0.2
4	0	0	0	0	0	0	33.2	0	29.2	0.2	0	0
5	0	0	0	0	1	0.1	0.4	1.1	9	14.4	0	0
6	0	0	0	0	0	0	0	2.6	1.3	25.3	0.4	0
7	0	0	0	0	0	0	6.7	67.4	0	2	8.6	0
8	0	0	0	0	0	0	135.2	48.1	1	1.2	9.2	0
9	0	0	0	0	0	0	217.8	22.2	0	0	1	0
10	0	0	0	0	0	0	102.2	0	1	0.2	0	0
11	0	0	0	0	0	0	5.8	0.2	7	0.4	0	0
12	0	0	0	0	0	5.4	0	3.8	0	22.2	9	0
13	0	0	0	0	28.8	13.4	30.6	0.4	0	41.8	6.2	0
14	0	0	0	0	25.6	0	20	59	2.4	0.6	2.4	0.4
15	0	0	0	0	36.6	21.4	14.9	0	11.8	0	0	0
16	0	0	0	0	12.4	74.4	22.5	9.2	4	0	5	0
17	0	0	0	0	10.1	27	1	4.6	35.6	26.2	0	0
18	0	0	0	0	0.6	4	33	15	2.8	0	0	0
19	0	0	0	0	0	10.8	0	16.4	22.2	2.6	0	0
20	0	0	0	0	0	0	20.8	15.6	28	0.4	0	0
21	0	0	0	0	3	1	25	34.4	21.4	0	0	0
22	0	0	0	38	39.2	15.6	1	14.6	0	16.8	9.8	3.8
23	0	0	0	0	66.7	107.6	0.2	162.6	0	0	0	0
24	0	0	0	0	71.2	16.3	0.6	83.2	0.2	0	0	0
25	0	0	0	0	69.4	0	22.4	86.4	13.6	0	0	0
26	0	0.4	0	0	25	0	9.3	39.8	0	0	0	15.4
27	0	3	0	0	53.2	0	0.4	15.4	0	0	0	0
28	0	0.4	0	0	23.4	0	0	14.6	0	0	0	0
29	0	0	0	0	3.6	0	1.5	183.6	0	0	0	0
30	0	0	0	0	0.4	0.8	6	95.8	0	0	0	0
31	0	0	0	0	0	0	11.5	21.4	0	0	0	0
Total	0	4.8	0	38	470.8	310.9	1182.6	1391.8	391.4	160.9	52	21.2
Max	0	3	0	38	71.2	107.6	217.8	183.6	90.8	41.8	9.8	15.4
Annual	4024.4											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1987

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0.4	26.8	3	158.5	0	0	2.2
2	0	0	0	0	0	8	0.2	0	14.6	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	25	0.2	0	0	0	0
5	2.4	0	0	0	8.2	14.4	4.2	0	39.9	8.6	0	2.5
6	0	0	0	0	0	0	0	0	33.2	0	0	0
7	0	0	0	0	0	0	0	0	31.6	0	0	0
8	0	0	0	0	0	24.2	3.1	0	93.6	0.6	0	0
9	0	0	0	0	0	90.2	5.4	0	14	0	0	0
10	0	0	0	1	0	36.4	72.2	0	0	0	0	0
11	0	0	0	0	0	21.8	0	1.2	0	2	0	0
12	0	0	0	0	0	4.7	9.4	12.4	8	0.4	0	0
13	0	0	0	0	37.8	80.4	19.4	0.3	0.5	0.5	0	0
14	0	0	0	0	0	41	21.8	6.6	0	0	0	0
15	0	0	0	0	0	45.7	63.2	15.9	17	0	3.6	0
16	0	0	0	0	0	90.8	2.2	62.4	0.8	0	0	0
17	0	0	0	0	0	20	0	172.4	11.4	0	0	0.6
18	0	0	0	0	0	51	0.6	132	0	0	0.8	0
19	0	0	0	0	3.6	27.6	137.4	4	0	0	16.8	0
20	0	0	0	0	0	0	110.2	0.8	0	0	0	0
21	0	0	0	0	0.4	0	4.8	32.8	0	0	1.8	0
22	0	0	0	0	0	0	3.6	0	0.4	0	0	0
23	0	0	0	0	0	2	5.4	4.4	0	3.2	0	0
24	0	0	0	0	2	1	0	0	0	7.9	0	0
25	0	0	0	0	4.8	65.4	66.8	0	0	18.3	0	0
26	0	0	0	0	12.5	0	66	1.4	0	0	3.6	0
27	0	0	0	0	0	0	13	23	0.5	0	0	0
28	0	0	0	0	0	40.4	0	15	8.2	0	0	0
29	0	0	0	0	0	1.2	0	12.6	0	2.2	0	0
30	0	0	0	0	0	16.2	0	131.2	0	2.4	0	0
31	0	0	0	0	0	0	0	3.2	0	0	0	0
Total	2.4	0	0	1	69.3	682.8	660.7	634.8	432.2	46.1	26.6	5.3
Max	2.4	0	0	1	37.8	90.8	137.4	172.4	158.5	18.3	16.8	2.5
Annual	2561.2											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1988

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.2	0	0	0	0	27.6	44.6	110.8	2	0.4	0	0
2	0	0	0	0	17	48.4	6.2	0	18	0	0	0
3	0	0	0	0	0	63.8	0	0	0.2	1.4	1.6	0
4	0	0	0	7.2	1.2	0	10.4	0	148.6	0	7.8	0
5	0	0	0	0	0	57.6	0	110.6	0	24.6	0	0
6	0	0	0	0	0	1	0	34	5.8	0.2	0	0
7	0	0.6	0	0	0	2.6	0	69.6	6	2.6	1	0
8	0	0	32.8	0.3	1.6	0	0	41.6	7.4	12.4	1.2	0
9	0	0	0	44.8	0	8.4	2.4	13.2	1.8	36.2	6.8	0
10	0	0	0	0	0	53.2	23	0	1.2	28	0	0
11	0	0	0	0	13.6	0	5.8	0	0	25.8	0	0
12	0	3.6	0	0	0.6	0.6	67	0	1.6	2.2	12.4	0
13	0	0.6	0	0	0	54.4	2.2	11.6	56.4	25.8	0	0
14	0	2.2	0	0	0	16	18.2	1	1.2	0	0	0
15	0	1.6	0	0	0	40	29	25.4	21	5	0	0
16	0	0.6	0	0	0	5.5	0.6	190.6	3.2	0	0	0
17	0.4	0	0	0	0	0	97.4	0	4.6	0	0	0
18	0	1.4	0	0	5.2	0	85	0	0	10.8	0	0
19	0	0	0	0	0	0	31	0	27.2	0	0	0
20	0	0	0	0	0	13.4	1.8	0	181	114.6	0	0
21	0	0	0	0	0	11	2.8	14.2	26.4	13	0	0
22	0	0	0.6	0	0.8	22.4	0	21.6	28.2	0.4	0	0
23	0	0	0	0	0	47.2	0	6	5	1	0	0
24	0	0	0	0	5.8	42.6	0	16	0	36	0	0
25	0	0	0	1	17	30.8	10.4	0.4	0	102	0	0
26	0	12	0	0	31.6	0	19.8	47.2	8.6	16.8	0	0
27	0	0	0	0	50	7.4	66.2	0	3.8	10.8	0	0
28	0	0	0	0	38.6	7.4	105.2	0	2.2	0.8	0	0
29	0	0	0	0	147.6	0	102.4	0	0.8	0.2	0	0.7
30	0	0	0	0	148.8	0.6	40.6	0	14.4	0	0	0
31	0	0	0	0	97.2	0	53.2	0	0	0	0	0
Total	6.6	22.6	33.4	53.3	576.6	563.1	814.8	724.2	428	619.6	30.8	0.7
Max	6.2	12	32.8	44.8	148.8	63.8	105.2	190.6	181	148.6	12.4	0.7
Annual	3873.7											

-999.9 - no record

Source: PAGASA

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1989

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-999.9	0	6.8	0	0	13.8	0.8	59.6	36.6	0	0	0
2	-999.9	0	0	0	0	0	0	32.8	111.8	0.1	0	0
3	-999.9	0.4	0	0	26	0.4	0	69.4	41	34.2	0	0
4	-999.9	0	0	0	0	14.6	0	35	25.6	2.8	0	0
5	-999.9	0	0	0	0.2	0	2.4	37	16.6	0	0	0
6	-999.9	0	0	0	0	18.4	1	87.6	1.8	43.4	0	0
7	-999.9	0	0	0	0	16.7	1.2	121.4	0.8	5	0	0
8	-999.9	0	0	0	0	14.5	25.3	127.6	36.6	0.6	0	0
9	-999.9	0	0	0	0	11.1	14	28.2	41.2	2.8	0	0
10	-999.9	0	0	0	0	5.2	0	184	55.6	7.8	0	0
11	-999.9	0	0	0	0	0	28.2	0.2	36	42	0	0
12	-999.9	0	0	0	0.4	44.5	0	0	21	0	0	0
13	-999.9	0	0	0	0	0	1.2	11.2	75.2	0	0	0
14	-999.9	0	2.2	0	0	0	1.2	50.6	19	0	0	0
15	-999.9	0	37.8	0	4.5	0	65.6	31.8	29.5	0	0	0
16	-999.9	0	0	0	1.1	0	73.8	0	54	0	0	0.2
17	-999.9	0	0	0	48.4	0.8	62.2	14.2	45.2	0	0	0.2
18	-999.9	0	0	0	75.2	10.3	107.4	59.8	0	0	0	0
19	-999.9	0	0	0	4.2	0	0.8	111.4	0	10.8	0	0
20	-999.9	0	0	0	0	7.4	5.8	54.2	0	6.5	0	0
21	-999.9	0	2	0	0	1.8	21.3	60.4	4.4	0	5	0
22	-999.9	0	0	0	0	123.6	0	143.4	0	3.2	35	0
23	-999.9	0	0	0	0	30.4	0	12	0.6	1	0	0
24	-999.9	0	0	0	0	13.2	0	0	0	0	0	0
25	-999.9	0	0	0	5.2	0	1.1	0.8	6.4	0	0	0
26	-999.9	0	0	0	6.4	0	67.8	0	16.6	0	0	0
27	-999.9	1.2	0	0	37	8.8	132.8	0	1.8	0	0	0
28	-999.9	17.4	0	0	2.8	13.1	7	0	51.1	0	0	0
29	-999.9	0	0	0	0	7.4	50.8	22.4	4.4	0	0	0
30	-999.9	0	0.8	0	25.7	2	35.3	1.2	21.2	0	0	0
31	-999.9	0	0	0	6	0	47	0.6	0	0	0	0
Total	*	19	49.6	0	243.1	358	754	1356.8	754	160.2	40	0.4
Max	*	17.4	37.8	0	75.2	123.6	132.8	184	111.8	43.4	35	0.2

Annual * Source: PAGASA
 -999.9 - no record * : No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1990

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	61.4	0	31	20	1.6	0	0
2	0	0	0	0	0	37	0	31	24	1	0	0
3	0	0	0	0	0	9.8	23.4	16.2	35.8	0	0	0
4	0	0	0	0	8.6	0	0	1	31.2	3.8	0	0
5	0	0	0	0	0	0	26.8	0	13.6	4	0	0
6	0	0.2	0	0	0	5.6	5	0	39.8	0	0.6	0
7	0	0	0	0	0	0	7	5.8	173.2	0	2	0
8	0	0	0	0	0	0	57.4	0	67.8	0	2.5	0
9	0	0	0	0	0	0	35.8	0	32	0	12.7	0
10	0	0	0	0	0	8	15	1.6	1.6	0	0	0
11	1.8	0	0	0	19.6	0	30.6	1.8	0	1.6	2.6	0
12	0	0	0	0	0	0	10.4	1	31.2	0	0	0
13	0	0	0	0	0	0	0	0.2	0	29.8	4.8	0
14	0	0	0	0	1.4	88.4	4	0	4	3.2	0.6	0
15	0	0	0	0	0	98.4	12.8	0	21.8	4	0	0
16	0	0	0	0	0	12.8	1.2	11.6	1	37.4	0	0
17	0	0	0	0	9.4	3.8	1.2	71.2	1.8	9.6	0	0
18	0	0	0	0	0	1.4	8.8	7.8	4.4	10	6.8	0
19	0	0	0	0	0.4	6.8	15.6	15.6	2.4	0	0	0
20	0	0	0	0	1	16.8	2.2	5.2	4.6	0	0	0
21	0	0	0	0	19.4	67.2	1	10.2	0	0	0	0
22	0	0	0	0	1	91	4.6	19	0	1.8	0	0
23	0	0	0	0	8	60.4	2.2	99.2	33.4	0	0	0.4
24	0	0	0	0	0.8	70.4	42.6	87.2	0	0	0	0
25	0	0	0	0	0.8	65.8	76.8	14.4	0.2	0	0	0
26	0	0	0	0	8.4	104.8	175	85	0	0	0	0
27	0	0	0	0	35.6	132.2	165.4	51.4	0	0	0	0
28	0	0	0	0	37.4	74	86	55.4	0	0	0	0
29	0	0	0	0	11.4	0.4	32.4	9.4	0.2	8.2	0	0
30	0	0	0	0	27.6	2.6	8	9.6	12	0	0	0
31	0	0	0	0	38.8	0	34	26.6	0	0	0	0
Total	1.8	0.2	0	0	229.6	1019	885.2	668.4	556	116	32.6	0.4
Max	1.8	0.2	0	0	38.8	132.2	175	99.2	173.2	37.4	12.7	0.4

Annual 3509.2 Source: PAGASA
 -999.9 - no record * : No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1991

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0.8	0	0.8	0	0	0	43.5	96	29	0	0
2	0	0	0	0	8.2	0	0	17.4	141.2	0	0	0
3	0	0	0	0	21.4	10	0	4.4	92.4	5.4	0	0
4	0	0	0	2.6	0.2	0	0.4	2.2	67.2	71	0	0
5	0	0	0	0	17.4	0	0	50.2	8.4	0	0	0
6	0	0	0	0	0	0	0	10	12.8	0	0	0
7	0	0	0	0	0	0	0	3.2	57	0	2.4	0
8	0	0	0	0	0	0	0	0.5	14	0	5.4	0
9	0	0	0	0	0	0	6.5	0	52.8	0	0	0
10	0	0	0	0	0	7.2	8.6	5.4	0	0	0	0
11	0	0	0	0	0.4	23	3.2	87.1	0.6	0	0	0
12	0	0	0	0	0	36.4	42.4	20	24.4	0	0	0
13	0	0	3	0	0	0	0	38.8	0.3	0	0	0
14	0	0	0.2	0	0	4.6	0	67.9	34.2	0	0	0
15	0	0	0	0	0	55.8	1	85.2	0.1	5.6	0	0
16	0	0	0	0	0	71	7.2	93.7	73.5	0.8	0	0
17	0	0	22.4	0	0	23.6	1.6	40	15.1	1.4	34	0
18	0	2.2	0	0	0	10.8	45	51.4	8.4	0	5.6	0
19	0	0	0	0.6	0	83.3	57.4	89.3	53	0	0	0
20	0	0.2	0	6.2	0	27.8	0	144.3	59.2	0	0	0
21	0	0	0	0.2	0	106	55	29.7	40.6	0	0	0
22	0	0	0	0	0	16.4	183.4	4.2	49	0	0	0
23	0	0	0	0	9.4	3.4	64.2	27.4	9	0	0	0
24	0	0	0	0	0	6.1	115.2	25.6	29.6	0	0	0
25	0	0	0	0	0	0	89.6	101.5	0	0	0	0
26	0	0	0	2	0	5	96.2	5.6	0.4	1.4	0	0
27	0	0	0	0	0	0	51.9	3.4	35.2	30	0	2
28	0	0	0	0	0	0	5.8	8.6	95	61.8	0	0
29	3.2	0	0	0	0	0	21	64	34.6	4.6	0	0
30	0	0	0	0	0	25.4	0	15.6	34.8	0	0	0
31	0	0	0	0	0	0	2	7	0	0	0	0
Total	3.2	3.2	25.6	12.4	57	515.8	857.6	1147.1	1138.8	211	47.4	2
Max	3.2	2.2	22.4	6.2	21.4	106	183.4	144.3	141.2	71	34	2
Annual	4021.1											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1992

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	29.8	42.3	0	19.2	0	15.6	0
2	0	0	0	0	0	0	48.1	0	25.8	0	0	0
3	0	0	0	0	0	0	47.3	0	20	0	0	0
4	0	0	0	0	0	0	0	2	54	1.3	0	0
5	0	0	0	0.3	0	0	0	0	23.6	0	0	0
6	0	0	0	4.2	0	0	0	15.2	74.1	14.6	0	0
7	0	0	0	0	0	0	0	1	18.6	0	0	2.5
8	0	0	0	0	0	0	0	2.2	0.4	6.2	0	0
9	0	0	0	0	0	5.2	0	16.4	17.8	0	0	0
10	0.3	0	0	0	0	0.2	7.4	31.2	16	0	0	0
11	0	0	0	0	0	1.4	122.2	65	0	0	3.4	0
12	0	0	0	0	0	1.6	0.4	5.6	0	0	3.1	0
13	0	0	0	2	0	0	8	17.3	0	0	0	0
14	0	0	0	21.8	6.5	0	18	55.6	15.6	0	0	0
15	0	0	0	1.2	1.2	0	111	125.6	3.4	0	0	0
16	0	0	0	0	0	0	1.3	41.5	0	5.3	0	0
17	0	0	0	0	40	0.2	38.2	86.6	0	6.6	0	0
18	0	0	0	0	0	1.6	5	166.2	2.6	0	1.6	0
19	0	0	0	0	0	0	178.9	47.4	0	6.8	0	0
20	0	0	0	0	0	1.2	325.4	148.6	120.6	34.4	0	0
21	0	0	0	0	11.8	12.6	101.5	78.9	157.9	4.2	0	0
22	0	0	0	0	1.2	0.4	0	23	40.2	0	0	0
23	0	0	0	39.6	21	116.4	8	22.5	7.3	1.4	0	0
24	0	0	0	0	0	1	8.6	41.5	0	0	0	0
25	0	0	0	0	0	1.4	7.8	61.4	0	24.8	0	0
26	0	0	0	0	1.2	43.4	22.6	86.5	0	3.4	0	0
27	0	0	0	0	22.3	42.6	2	15.6	0.4	0	0	0
28	0	0	0	0	15	61.8	9	137.6	0	0	0	0
29	0	0	0	0	27.2	23.2	10	15.4	0.8	0	0	0
30	0	0	0	0	7.8	11.9	3	11.3	0.6	0	0.5	0
31	0	0	0	0	35.6	0	1.2	19.5	0	0.4	0	0
Total	0.3	0	0	69.1	190.8	355.9	1127.2	1340.6	618.9	109.4	24.2	2.5
Max	0.3	0	0	39.6	40	116.4	325.4	166.2	157.9	34.4	15.6	2.5
Annual	3838.9											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1993

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	4	0	0	0	1	33.6	0
2	0	0	0	0	0	0	6	0	10	5.5	49.6	0.5
3	0	0	0	0	0	0	0	18.1	44	8.8	0	0.2
4	0	0	0	0	0	3	6	9.8	19.7	218.6	0	0
5	0	0	0	0	0	0	3	3.5	13.5	215.3	1.2	0
6	0	0	0	0	0	0	10.4	4	18.5	44.4	0	0.8
7	0	0	0	0	0	0	46.8	90.3	127.6	13.8	0	0
8	0	0	0	2.6	0	0	3	148.6	51.6	0	0	0
9	0	0	0	0	0	0	8	69.9	41.4	0	0	0
10	0	0	0	0	0	26.2	1	1.2	8.2	0	0	0
11	0	0	0	4	0	0.1	14	35.2	36.6	0	0	0
12	0	0	0	0	0.4	0	0	75.6	10.1	0	0.4	0
13	0	0	0	0	13	0	0	50.4	1.4	0.2	2.2	0
14	0	0	0	0	23.2	0	1	15.4	0	0.1	0	0
15	0	0	0	0	0	12.5	19.2	0	68.4	8	1.4	2.8
16	0	0	0	0	0	6.7	20	51.4	44	0	0	0
17	0	0	0	0	0	0	3	113.1	0	0	0	0
18	0	0	1	0	0	0.6	0	111.2	1.5	0	0	0
19	0	0	0	0	0	9	8.4	101.8	0.8	7	0	0.3
20	0	0	0	0	5.8	3	0	0	0	0	0	0
21	0	0	0	0	0	2	0.3	0	0	10	2.6	0
22	0	0	0	0	0	4.6	46.4	0	0	0	0	0
23	0	0	0	0	1.5	9.8	23.7	37.4	0	0.3	0	0
24	0	0	0	0	0	10.6	41.8	0	2.2	0	0	0
25	0	0	0	0	0	13.4	35.9	0	0	0	0	0
26	0	0	0	0	0	164.5	69.6	7.2	0	0	0.6	0
27	0	0	0	0	0	11	92.8	0	0.4	0	0	12.8
28	0.1	0	0	0	0	0	91.2	7.2	20.2	0	0	0
29	0	0	0	36.8	0	0	89.6	73	0	0	0	0
30	0	0	0	0	0	0	241.6	0	0	0	0	0
31	0	0	0	0	0	0	53.7	0	0	0	0	0
Total	0.1	0	1	43.4	43.9	281	936.4	1024.3	520.1	533	91.6	17.4
Max	0.1	0	1	36.8	23.2	164.5	241.6	148.6	127.6	218.6	49.6	12.8
Annual	3492.2											

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1994

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0.6	14	3.2	107.8	0.2	0	0	0
2	0	0	0	0	0	55.6	25.6	117.3	1.8	22	0	0
3	0	0	0	0	0	19	29.2	39.2	15.9	0	0	0
4	0	0	0	0	24.8	60.8	37.2	27.1	55.7	0	0	0
5	0	0	0	0	0	10.3	25.8	2.9	4.8	0	0	0
6	19	0	0	0	0	0	53.8	47.8	0	0.6	0	0
7	0	0	0	0	0	0	111	18.4	0	18	0	0
8	0	0	0	10.4	0	0	45.3	5.8	6.2	0	0	0
9	0	0	0	3.4	0.8	0	16.5	0	0	8.8	0	0
10	0	0	0	0	0.4	78.7	58.1	0	37.4	38	0	0
11	0	0	0	0	0	0	47.6	0	20.2	15.4	0	0
12	0	0	0	0	0	0	6.2	0	5.4	0	0	0
13	0	0	0	0	0	9.2	0.8	2	16.2	0	0	0
14	0	0	-999.9	0	0.6	1.6	18.6	0	6.6	0	0	0
15	0	0	0	0	0	0.6	31.7	0	12.6	1.8	0	0
16	0	0	0	0	1.4	3.8	11.8	0	0	0	0	0
17	0	0	0	0.4	0	14.2	36.2	0	2.2	0	0	0
18	0	0	0	0	1	16.5	100	14.2	7.5	0	0	0
19	0	0	0	0	52.2	0.3	23.2	1.6	6	0	0	0
20	0	0	0	22.4	2.2	1.6	25.2	2.4	9.2	0	0	0
21	0	0	0	0.4	0.5	0	24.2	0.4	5.6	3	0	0
22	0	0	0	0	7.4	12.2	34.4	0	6.8	0	0	0.7
23	0	0	0	0	0	148.4	31.6	3.6	14.8	0	0	0
24	0	0	0	0	3.6	15.2	10.9	50.3	0	0	0	0
25	0	0.4	0	0	29	1	74.6	32.8	0.4	0	0	0
26	0	11	0	0	28.2	13.6	167.6	16.4	0	0.6	0	0
27	0	0	0	0	5.8	0	45.8	0	0	0	0	0
28	0	0	0	0	0	0	69.6	0.6	35	0	0	0
29	0	0	0	8	0	7.6	52.4	1	0	0	0	0
30	0	0	0	1	0	3	146.8	0	2.8	0	0	0
31	0	0	0	0	0	0	97	3.7	0	0	0	0
Total	19	11.4 *		46	158.5	487.2	1461.9	495.3	273.3	108.2	0	0.7
Max	19	11 *		22.4	52.2	148.4	167.6	117.3	55.7	38	0	0.7
Annual	*											

Source: PAGASA

-999.9 - no record

*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1995

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0.8	3.8	0	0.1	116.6	4	0
2	0	0	0	0	0	11.5	0.2	3.2	0	0	0	0
3	0	0	0	0	0	6.9	12	12	161.4	0.2	6.6	0
4	0	0	0	0	0	64.2	0.2	0	85	0	1	0
5	0	0	0	0	0	17.8	0	0	18.6	0	3.5	0
6	0	0	0	0	0	73.4	4.7	0	26.8	0	0	0
7	0	0	0	0	0	22.4	41.8	0	1	0.5	0	0
8	0	0	0	0	0	1.6	0	18.2	17.8	0.8	0	0
9	0.2	0	0	0	0	0	6.6	36.2	0	0	0	0
10	0	0	0	0	0	0	5	41.6	68	38.2	43.8	0
11	0	0	0	0	0	0	9	0	11.8	0	0	0.2
12	0	0	0	0	7.4	0	0.6	0	12.4	0	0	5.8
13	0	0	0	0	36	0	10.8	1.7	8.8	0	0	0
14	0	0	0	0	55	0	0	0	60.4	0	0	0
15	0	0	0	0	18.8	1	28.8	2.6	10.2	0	0	0
16	0	0	0	0	40.5	0	35.6	0.8	50.6	0	0	0
17	0	0	0	0	8.3	0	0	0.2	98.2	0	0	0
18	0	0	0	0	0	0	16.8	0	8.8	0	0	0
19	0	0	0	0	0	0.4	2.9	4	60.4	0	0	0
20	0	0	0	0	0	0	2.4	16.6	80.2	0	0	0
21	0	0	0	0	0.3	0	9.7	4.8	35.9	1.4	0	0
22	0	0	0	0	1.8	0	18.4	51.2	5.2	34	0.8	3
23	0	0	0	0	0	0	25.9	32.4	0	6.8	7.6	4.3
24	0	0	0	0	1.8	0	0	79	0	6.4	0	15.2
25	0	0	0	0	1	0	0	176.2	7.6	0	0	0.2
26	0	0	0	0	3.3	5	0	12.2	0	1.5	0	0
27	0	0	0	0	0	0	80.5	9.2	0	0	0	0
28	0	0	0	0	6.8	24.4	105.3	113.2	3.6	0.2	0	0
29	0	0	0	0	24.8	41.6	86.8	157.4	1.2	0.3	0	0
30	0	0	0	0	13.4	47.6	47.6	37.6	26.7	0	1.4	0
31	-999.9	0	0	0	26.7	0	0	0.8	0	0	0	0
Total *		0	0	0	245.9	318.6	555.4	811.1	860.7	206.9	68.7	28.7
Max *		0	0	0	55	73.4	105.3	176.2	161.4	116.6	43.8	15.2

Annual * Source: PAGASA
 -999.9 - no record *: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1996

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	2.6	1.8	0.4	27	0	1	1.4	0
2	0	0	0	0	20.7	0	0	7.8	0.8	0	0.7	0
3	0	0	0	12	0	0	0	30.9	0.2	1	4	0
4	0	0	0	1.8	0	3.6	0	66.7	1.8	0	1.2	0
5	0	0	0	0	0	0.4	0	0	8.8	0	0	0
6	0	0	0	0	0	6.4	0	30	0	0.4	2	0
7	0	0	0	0	0	0	0	8.9	0	0.6	1.1	0
8	0	0	0	0	0	0	0.2	14.8	8.6	0	41.5	0
9	0	0	0	0	0.2	0	0	38.6	72.4	0	79.8	0
10	0	0	0	0	0	16.4	6.4	9.6	2.4	0	32.2	0
11	0	0	0	0.5	0	0	0	32.4	20.2	0	0	0
12	0	0	0	0	0	13.4	4	42.8	29.1	0.2	35.4	0
13	0	0	0	0	4	1.4	30.4	12.8	80.4	0	12.4	0
14	0	0	0	0	0	6.6	0	0	27.1	0	0	0
15	0	0	0.2	0	0	0	16.2	0.2	36	0	0	0
16	0	0	0	0	0	0	68.2	0	36.9	13.6	0	0
17	0	0	0	0	106.4	0	42.2	0	25.2	1	0	0
18	0	0	0	0	38.9	0	0	0	27.8	0	0	0
19	0	0.2	0	0	56.9	1	9.5	28.6	22.9	2.2	0	0
20	0	0	0	0	61.6	5.8	28.4	84.8	127.8	0.4	0	0
21	0.3	0	0	0	26.6	33.4	24.4	0	0	6.6	0	0
22	0	0	0	0	16.8	0	5.8	0	4.2	6.8	0	0
23	0	0	0	0	0	4.4	89.8	0	0.6	4.7	0	0
24	0	0	0	0	0	83.8	75.6	0.4	20.2	0	0	0
25	0	0	0	0	0	8.2	11.6	0	1.4	0	0	0
26	0	0	0	0	0	0	72.2	0	44.6	0	0	0
27	0	0	0	0	0	0.8	3.8	0	0.4	0	0	0
28	2	0	0	0	0.6	42.3	66.1	0	0.4	0	0	0
29	0	0	0	0	0	11.8	85.2	0	0	0	0	0
30	0	0	0	0	26.8	3	151	1	9.8	0.8	0	0
31	0	0	0	0	0	0	1.4	0	0	0	0	0
Total	2.3	0.2	0.2	14.3	362.1	244.5	792.8	437.3	610	39.3	211.7	0
Max	2	0.2	0.2	12	106.4	83.8	151	84.8	127.8	13.6	79.8	0

Annual 2714.7 Source: PAGASA
 -999.9 - no record *: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1997

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	66.8	0.8	31.8	17.8	6.2	0	0
2	0	0	0.6	0	0	2.8	34	0	21.8	0	0	0
3	0	0	7.6	0	6	0	6.8	59.2	0.2	15.6	2	0
4	0	0	0	0	12.6	0	0	171	0.7	0	21.8	0
5	0	0	0	0	0	0	0	210.6	0	0	0	0
6	0	0	0	0	0	0	53.6	8.4	0	0	0	0
7	0	0	0	0	1.3	0	0.2	25.8	0	0	0	0
8	0	0	0	0	2.6	0	0	8.8	0	0	0	0.8
9	0	0	0	0	7	0	0	4	0	5	0	0
10	0	0	0	0	0	0	3.8	15.8	2.4	0	0	0
11	0	0	0	0	0	0	13.4	10.6	0	0	0	0
12	0	0	0	0	0	0	1.1	12.4	2.1	0	0	0
13	0	0	0	0	0	0	20.8	10	0	0	0	0
14	0	0	0	0	0	0	20.8	30.2	1.6	0	0	0
15	0	0	0	0	0	0	0	17.4	1	0	0	0
16	0	0	0	0	0	0	0	0.7	0	0	0	0
17	0	0	0	0	0	0	0.6	41.4	0	0	8.4	0
18	0	0	0	0	0	0	4	146.6	0	0	0.2	0
19	0	0	0	0	0	0	29.2	173.4	26.8	20	0	0
20	0	0	0	0	0	7.2	20.8	103	9	5.2	0	0
21	0	0	0	0	0	5	0	54.8	35.2	0	0	0
22	0	0	0	0	0.2	17.6	1.2	23.9	0.2	0	0	0
23	0	0	0	0.2	24	4	0	22	0.8	0	0	0
24	0	0	0	0	137.9	1.6	23.3	35.5	0.6	0	0	0
25	0	0	0	0	120.4	15.4	15.6	3.8	12	0	0	0
26	0	0	0	0	21.2	70.2	0	55.4	2.2	0	0	0
27	0.6	0	0	0	0	44.4	66	105.8	3.2	0	0	0
28	0	0	0	0	0.2	90.8	12.8	43.2	5.4	0	0	0
29	0	0	0	0	49.8	2.8	15.6	12.4	16	0.6	0	0
30	0	0	0	0	61.8	0	67	2.8	1.2	1.6	0	0
31	0	0	0	0	36.8	0	143.4	0	0	0	0	0
Total	0.6	0	8.2	0.2	481.8	328.6	554.8	1440.7	160.2	54.2	32.4	0.8
Max	0.6	0	7.6	0.2	137.9	90.8	143.4	210.6	35.2	20	21.8	0.8
Annual	3062.5											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1998

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	-999.9	0	0	0	10.4	0	4.4	2.4	0
2	0	0	0	-999.9	0	0	12.6	1.6	0	1.8	0	0
3	0	0	0	-999.9	0	0	0	18	1	0.4	0	0
4	0	0	0	-999.9	0	0	0	13.8	0.8	0.4	2.2	0
5	0	0	0	-999.9	0	0	5.6	25.3	61.2	0	1.4	0
6	0	0	0	-999.9	0	0	8	34.8	4	0.2	55	0
7	0	0	0	-999.9	0	0	20.8	13.3	0	0	0	0
8	0	0	0	-999.9	0	0	4.8	42.3	3.4	0.6	0	2.2
9	0	0	0	-999.9	2	0	0	1.8	11.8	0	5	0
10	0	0	0	-999.9	15.6	0	21.6	10.8	27.2	12.5	0	0.2
11	0	0	0	-999.9	0	0	0	17.2	12.1	0.6	0	0.8
12	0	0	0	-999.9	0	0	1	0	24	0	0	4.2
13	0	0	0	-999.9	0	0	0	0	15	3.2	0	0.6
14	0	0	0	-999.9	3.4	0	45.4	0	136.4	64.8	0	0
15	0	0	0	-999.9	0	16.6	0	0	95	3.6	0	0
16	0	0	0	-999.9	0	0	0	1.4	126	0	0	0.4
17	0	0	0	-999.9	0	0	0	2.6	71.6	0	0	0.6
18	0	0	0	-999.9	0	0	0	0	192.7	0.4	0	13.8
19	0	0	0	-999.9	0	0	0	6.6	105	0	0	0
20	0	0	0	-999.9	0	0	0	0.8	14	1	0.2	0
21	0	0	0	-999.9	36.8	0	0	3.6	13.8	0.2	0	0
22	0	0	0	-999.9	45.2	50.4	0	0.4	0	7.6	0.6	1.4
23	0	0	0	-999.9	0.4	0.6	0	9	0	110.6	0	0
24	0	0	0	-999.9	13	0	0	0.2	10	27.4	0	0
25	0	0	0	-999.9	53.8	0	0	0	2.6	30.2	0	0
26	0	0	0	-999.9	91	0	3	4.4	1.5	0	0	0
27	2.2	0	0	-999.9	8.6	0	0	0	14.4	0	0	0
28	3.8	0	0	-999.9	105.4	0	0	0	43.2	0	0	0.2
29	0	0	0	-999.9	5	0	0	55.4	38.6	42.4	16.2	0
30	0	0	0	-999.9	40	2.2	10.9	12.6	14.9	0	0	0
31	0	0	0	0	10.3	0	0	0	0	0	0	0
Total	6	0	0 *		430.5	69.8	133.7	286.3	1040.2	312.3	83	24.4
Max	3.8	0	0 *		105.4	50.4	45.4	55.4	192.7	110.6	55	13.8
Annual	*											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 1999

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	3.6	9	5.6	45.4	84.4	16.8	3	5.4	0
2	0	0	0	26	0	0	26.8	210.8	61.6	7.8	2	0
3	0	0	0	0	0	1.2	0	89.2	53.8	0.5	0.6	0
4	0	0	0	13.5	0	28.8	0	47.5	0.8	0	0	0
5	0	0	0	1	0	85	0.4	45.4	11.7	77.1	0.4	0
6	0	0	79.6	4.4	0	76.8	5	11.9	0.6	62.7	1.1	0
7	0	0	8.8	0	0	21	51.8	10	10.8	5	0	4
8	0	0	0	0.2	0	0	19.2	4.3	0	0	0	1
9	0	0	0	0	0	0	0	1.4	3.6	0	0	0
10	0	0	0	0	0	8.4	24.2	10.7	14	0	0.6	0
11	0	0	0	0	0	0	37.2	0	145.4	3.6	0	5.8
12	0	0	0	0	0	39.4	58	0	124.2	0.8	0	0.4
13	0	0	0	0	11.4	32	71.8	74.1	68	5.6	0	0
14	0	0	0	0	0.4	1.4	11.2	0	74.8	0	0	0
15	0	0	0	0	0	36.4	13.2	0	7.5	0	0	0
16	0	0	0	0	0	0.7	0	1.8	0	25.4	0	0
17	0	0	0	0	0	47	36.8	4.8	0.2	323.4	0	0
18	0	0	0	0	0	6.2	0	19.2	39.4	7.6	0	0
19	0	0	0	0	0	22.4	11.8	31	35	0	2	14
20	0	0	0	0	0	0	31.6	74.4	23.4	0	0	0
21	0	0	0	0	3	0	109.2	12.3	64	0	0	0
22	0	0	0	0	0	7	47.8	0	45.6	0	0	0
23	0	0	0	0	0	2.8	80.4	1.6	0	0	0	0
24	0	0	0	0	10	0.2	25	11.6	0	6	0	0
25	0	0	0	0	8.6	1.2	47.8	0	4.6	0	0	0
26	0	0	0	18.2	0	0	7.4	0	4.1	0	0	0
27	0	0	0	25	0	6.6	44	7	0	0	0.2	0.6
28	0	0	0	27	0	0	82.6	0	0	0	0	2.2
29	0	0	0	0	0.2	0	24.6	0	18	0	0	0
30	0	0	25	72	1	0	57	1.4	6	0	0	0
31	0	0	3	4.2	4.2	57.2	4.2	4.2	0.5	0	0	0
Total	0	0	116.4	190.9	47.8	430.1	1030.4	759	833.9	529	12.3	28
Max	0	0	79.6	72	11.4	85	109.2	210.8	145.4	323.4	5.4	14
Annual	3977.8											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Iba

Sta. No. 324

EL. 4.7

Year: 2000

Unit: mm

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	4	0	30.2	0.6	0	10.2
2	0	0	0	0	0	0	53.2	1.2	123	0	2	2.2
3	0	0	0	11.8	0	20	139.6	11.8	48.4	2.6	47	0
4	0	0.5	0	0	0	0	129.6	13	53.8	0	13.8	0
5	0	3.8	13.4	0	0	0	115	5.6	235	0	0.8	0
6	0	14.6	0	6.6	3.8	0	97.6	5.6	46	0.6	3	0
7	0	27	0	4.6	0	0.6	74.2	8.4	9.4	3.2	0	0
8	0	0	0	0	0	0	117.6	0	3.8	26.5	0.2	0
9	0	0	0	0	0	2.8	21.4	0	41.6	17	0	0
10	0	0	0	0	0.2	0	26.1	0	30.8	66	0	0
11	0	0	0	0	0	0	0	8.1	26	5.8	0	0
12	0	0	0	0.4	16.8	16.4	4	0	11.6	1	0	0
13	0	0	0	0	89.4	81.2	24	5	3.8	0.4	0	0
14	0	0	0	0	81.6	6.6	4.6	17	0	0.4	0.6	0
15	0	0	0	0	108.6	65.2	98.8	1.7	5.7	0.6	0	0
16	0	0	0	0	35.4	3.4	10.4	1.7	21.7	0.6	0	0
17	0	0	0	17.6	182.2	10.1	12	15.6	0	5.8	0	0
18	0	0	0	0	38	0	1	0	12.4	3.8	0	0
19	0	0	2.2	2	16.4	2.6	1.6	0	11.4	0.8	0	0
20	0	0	0	0	35.6	0	10.6	9	2.6	7	0	0
21	0.8	0	0	0	21.8	35.4	3.6	52.8	0	0	0	0
22	0.4	0	6.6	0	3.4	0	51.2	88.8	0	10.4	0	0
23	0	0	1.4	0	0.4	7	32	75	0	0	0	0
24	0	0	0	0	0	0	62.8	7	33	0	0	0
25	0	0	0	0	0	0	50	0	2.8	0	0	0
26	0	0	0	0	0.6	0	15.2	0	0	0	0	0
27	0	0	0	0	0	0.2	57.4	30.8	0.4	0.8	1.8	0
28	0	0	0	8.4	3.6	0	43	28	0.4	29.4	0	0
29	0	0	11.8	0	11	10.8	0.9	40.6	0	190	0	1
30	0	0	0	0	0	32.8	0	47.2	0	111.6	0	0
31	0	0	0	0	0	0	0	70.8	12.4	0	0	0
Total	1.2	45.9	35.4	51.4	648.8	295.1	1261.4	544.7	753.8	497.3	69.2	13.4
Max	0.8	27	13.4	17.6	182.2	81.2	139.6	88.8	235	190	47	10.2
Annual	4217.6											

-999.9 - no record

Source: PAGASA
*: No calculation

Daily Rainfall at Sta. Rita

Year 1976

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	7.4	0	0	0	0	4.5	2.5	16.8	0	0	0
2	0	0	0	0	0	0	3.6	33	0	0	0	2.3
3	0	0	0	0	0	0	1.5	15.7	13.7	0	0	0.8
4	0.2	0	0	0	0	0	0	59.4	3.6	0	0	0
5	0	0	0	0	0	0	0	10.4	1	0	0	0
6	0	0	0	0	0	0	0	6	0	0	0	47.5
7	0	0	0	0	15	1	0	18	0	0	0	0
8	0	0	0	0	0	0	0	176.3	0	0	0	0
9	0	0	6.4	0	0	0	0	52.3	4.8	2.5	0	0
10	0	0	0	1.5	0	1.3	0	98.5	47.5	3	0	0
11	0	0	0	0	0	0.2	3	24.4	129.8	0	0	0
12	0	0	0	0	0	1	0	0	45.4	0	0	0
13	0	0	6.6	0	0	0	0	9.4	235.2	0	0	0
14	0	0	0	0	0	4.1	0.2	0.2	63.5	0	0	0
15	0	0	0	0	0	33	1	9.6	15	0	0	0
16	0	0	0	0	4.3	0.2	1.3	0.5	63	0	0	0
17	0	0	0	0	0	129.3	0	68.3	68.1	54.6	1.3	0
18	0	0	0	0	21.8	7.6	3	0.5	50.6	4.1	0	0
19	0	0	0	0	304.1	3.6	12.7	0.8	4.6	0	0	0
20	0	0	0	0	90.7	19.8	5.5	0	10.4	0.5	0	0
21	0	0	0.5	0	19	0	6.6	2.1	2.8	2.5	0	0
22	0	0	1.3	0	147.3	0.5	19.6	129.2	8.6	0.8	0	0
23	0	0	0	0	609.6	0.7	111.7	0.2	56.6	6.3	0	0
24	0	0	0	0	265.9	67.3	91.9	0	14.7	29.2	0	0
25	0	0	0	0	158.8	250.2	54.1	0	0	0.2	0	0
26	0	0	0	0	77.5	88.1	0.8	20.3	0	0	0	0
27	0	0	0	0	137.4	0.2	2.3	0.2	0	0.5	0	0
28	0	0	0	0	91.5	6.6	14.5	5.6	0	0	0	0
29	0	0	0	0	25.6	39.1	0	0	71.4	0	0	0
30	0	0	0	0	0	27.2	0.5	33.5	0	0	0	0
31	0	0	0	0	0	0	15.9	0	0	0	0	0
Total	0.2	7.4	14.8	1.5	1968.5	681	354.2	776.9	927.1	104.2	1.3	50.6

Annual 4887.7 mm/year

Daily Rainfall at Sta. Rita

Year 1977

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	3.3	104.1	8.4	0	11.9	0
2	0	0	0	0	2.8	0	83.3	59	67.5	14.7	0	0
3	15.5	0	0.2	0	0	0	6.6	26.7	214.4	0.2	0	0
4	2.5	0	0	0	0	0	29.5	23.1	16.2	0	0	0.2
5	3.8	0	0	0	0	0	1.7	0	43.9	1	0	0
6	0	0	0	0	2.5	0	0	0.2	0	22.1	1	0
7	0	0	0	0	0	0.2	0	0	0	0	0	0
8	0	0	0	0	0	0	16.3	13.2	25.9	9.4	0	0
9	0	0	0	0	6.9	4.1	14	16.8	26.9	0	0	0
10	0	0	0	0	0	0	0	9.1	57.9	0	0	0
11	0	0	0	0	0	3.8	5.8	3.6	187.7	0.8	0	0
12	0	0	0	0	0	3.3	1.3	0	31.2	0.2	0	0
13	0	0	0	0	0	4.3	0	0	6.1	7.4	0.8	0
14	0	0	0	0	0	0	23.1	0.8	6.4	5.8	325.9	0
15	0	0	0	0	0	30.7	25.2	184.9	71.4	1	18.8	0
16	0	0	0	0	2.3	8.6	10.4	229.1	78.2	0	36.1	0
17	0	0	0	0	21.6	7.4	12.7	23.1	71.1	54.9	0	0
18	0	0	0	0	15.8	0.5	162.1	46.2	45.7	0	0.5	0
19	0	0	0	0	24.1	0	43.7	96.8	32.2	0	0	0
20	1.8	0	0	0	0	0	3.6	156.2	10.7	3	0	0
21	0	1	0	0	0	0	14.7	55.6	3.6	0	0	0
22	0	0	0	0	0	0	78.2	7.4	0	0	0	0
23	5.1	0	0.8	0	0	0	216.4	14	81	0	0	0
24	0	0	0	0	0	0	30.2	0.5	33.2	0	0	0
25	0	0	0	0	62.7	12.4	68.9	0	0.5	0	0	0
26	0	0	0	0	4.1	20.1	10.9	0	13.4	0	0	0
27	0	0	0	0	0	7.9	2	0	4.1	0	0	0
28	0	0	0	0	10.9	54.9	10.9	0.5	5.1	0	0	0
29	0	0	0	11.9	33	9.1	29.5	0	1.8	0	0	0
30	0	0	0	0	13.4	0	3.8	12.7	6.6	0	0	0
31	0	0	0	0	8.8	0	26.9	8.2	0	0	0	0
Total	28.7	1	1	11.9	208.9	167.3	935	1091.8	1151.1	120.5	395	0.2

Annual 4112.4 mm/year

Daily Rainfall at Sta. Rita

Year 1978

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	-	20.6	44.7	49	2.8	86.6	0	0
2	0	0	0	0	-	80.8	1.3	30.7	17	6.3	0	0
3	0	0	0	0	-	2.5	5.8	42.2	56.7	0	0	0
4	0	0	0	0	-	0	2.5	69.6	78.4	0	0	0
5	0	0	0	0	-	0	6.6	33.1	3.3	31.5	0	0
6	0	0	0	0	-	0	0	100.1	0	8.6	0	0
7	0	0	0	0	-	0	14	35.3	5.1	15.3	0	0
8	0	0	0	0	-	8.4	0	21.8	20.3	10.4	0	0
9	0	0	0	0	-	3.3	0	46.3	69.1	65.2	0	0
10	0	0	0	0	-	5.3	0	124	185.4	35.6	0	0
11	0	0	0	0	-	45	2.3	80.5	19.1	71.3	1.5	0
12	0	0	0	0	-	78.5	4.3	193.3	8.7	42.5	0.8	0
13	0	0	0	0	-	0	0	227.6	5.1	22.6	0	0
14	0	0	0	0	-	24.4	0.2	161.5	1.8	7.4	0	0
15	0	0	0	0	-	0	27.2	217.9	4.3	0	0	0
16	0	0	0	0	-	0.3	19.3	2.8	59.7	0	1	0
17	0	0	0	0	-	2.5	28.1	9.1	11.7	6.1	0	0
18	0	0.5	0	0	-	0	104	4.6	32.5	0	0	1.3
19	0	0	0	0	-	0.5	24.4	30.2	0	1.3	0	0.5
20	0	0	0	0	-	27.9	41.2	109.5	0	39.4	1.8	0
21	0	0	0	0	-	10.1	11.7	193.5	0	0	0	0
22	0	0	0	1	-	50.3	6.1	86.4	3	0	0	0
23	0	0	0	0	-	59.2	27.7	340.6	19.6	0	0	0
24	0	0	0	0	-	100	43.7	179.3	0	0	0	0
25	0	0.8	0	1.5	-	2	51.3	45.4	66.3	0.5	0	0
26	0	0	0	0	-	0	71.3	104.1	24.1	20.6	0	0
27	0	0	0	0	-	0	77.4	37.1	50.6	53.1	0	0
28	0	0	0	0	-	0.8	41.9	11.4	43.7	0	0	12.7
29	0	0	0	0	-	0	19.8	70.6	24.9	7.4	0	0
30	0	0	0	0	-	0	59.4	38.3	24.1	0	0	0
31	0	0	0	0	-	0	20.8	16.3	0	0	0	0
Total	0	1.3	0	2.5	0	522.4	757	2712.1	837.3	531.7	5.1	14.5

Annual 5383.9 mm/year

Daily Rainfall at Sta. Rita

Year 1979

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	39.9	0	82	0	15.5	0	0
2	0	0	0	0	0	12.2	1.8	32.5	0	71.1	0	0
3	0	0	0	3	0	9.6	98.3	37.6	0	43.7	0	0
4	0	0	0	0	0	0	86.1	52.1	1	0.2	0	0
5	0	0	0	0	0	1.5	11.4	76.5	0	5.6	0	0
6	0	0	0	0	5.6	13.8	23.7	85.3	0	9.4	6.3	0
7	0	0	0	0	0	13	58.7	223.5	0	2.3	0	0.2
8	0	0	0	0	0	0	37.1	82.3	0	0	0	0
9	0	0	0	0	0	1.8	53.1	7	9.9	0	0	0
10	0	0	0	0	0	7.1	1.3	11.2	2	0	0	0
11	0	0	0	0	0	0	0.2	221.6	4.8	34	1.8	0
12	0	0	0	0	6.9	1	0	38.6	28.4	0	0	0
13	0	0	0	0	6.1	16	5.1	107.9	21.8	0	0.5	0
14	0	0	0	0	95	6.9	9.4	470.9	5.3	0	0	0
15	0	0	0	0	1	3.3	0	104.4	0	2.3	4.6	0
16	0	0	0	0.5	22.4	0	0	109	54.9	2.8	0.5	0
17	0	0	0	11.9	103.1	2.3	3.8	32.2	0.5	0	0	0
18	0	0	0	0	51.6	0	0	11.4	29.7	0	0	0
19	0	0	0	0	7.1	14.4	0	1.5	90.4	1.8	0	0
20	0	0	0	0	12.4	0	1.3	0	11.9	0	0	0
21	0	0	0	0	0	0	17.7	4.1	2.1	48.1	0	0
22	0	0	0	2.8	37.3	0	3.6	1.3	0	0	0	14.7
23	0	0	0	6.6	2.8	8.9	0.2	11.4	7.9	0	0	10.9
24	0	0	0	0	158.7	0.5	55.2	0.2	29.2	0	0	0.8
25	0	0	0	0	52.3	0	4.3	0	0	0	0	0
26	0	0	0	0	0.8	0	0	0	0	0	0	0
27	0	0	0	0	20.8	0	41.9	0	1.3	0	0	0
28	0	0	0	2.5	37.1	3.3	78.2	0	6.1	0	0	0
29	0	0	0	0	6.6	0.5	74.6	23.6	6.3	0	0	0
30	0	0	0	0	9.4	8.4	164.1	0	26.9	0	0	0
31	0	0	0	0	47	0	41.2	0	0	0	0	0
Total	0	0	0	27.3	684	164.4	872.3	1828.1	340.4	236.8	13.7	26.6

Annual 4193.6 mm/year

Daily Rainfall at Sta. Rita

Year 1980

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	15.2	1.8	85.8	0	1	34.8	34.3	0
2	0	0	0	0	0	1	21.8	0	9.6	0	12.2	0
3	0	0	0	0	0	0.8	48.5	2.8	2.8	0	0	0
4	0	0	0	0	0	16.3	47.5	0.8	0	4.3	25.4	0
5	0	0	0	0	0	16.5	0	1.5	1.8	0	52.1	0
6	0	0	0	0	0	14.7	1	4.1	0.8	0	0	0
7	0	0	0	0	0	21.6	0.5	0	54.8	0	0	0
8	0	0	0	0	0	16.8	14.7	0	0	0	1.3	0
9	0	0	0	0	0	6.4	249.4	0	18.3	0	0.2	0
10	0	0	1.3	0	4.2	23.1	52.3	0	48.7	0	0	0
11	0	0	0	0	20.3	0	26.7	7.9	31.9	0	0	0
12	0	0	0	0	0	0	0.5	0.5	154.7	0	4.1	0
13	0	0	0	0	3.6	0.5	0	17.3	198.6	0	0.5	0
14	0	0	0	0	105.4	2.8	3.3	49.8	52.6	7.9	0	0
15	0	0	0	0	47.5	0	1.5	4.3	65.3	0	0	0
16	0	0	0	0	0	7.1	39.6	116.6	51.1	0	0	0
17	0.2	0	0	1.5	8.9	0	4.3	50.8	89.9	0	0	0
18	0	0	0	0.2	3.3	2.8	17.3	0	83.6	1.5	0	0
19	0	0	0	0	31.5	2.8	67.9	1.5	0	0	0	0
20	0	0	0	0	10.4	49.3	206.4	3.1	1.3	0	0	0
21	0	0	0	0	7.4	15.8	138.5	2.5	15.2	0	0	0
22	0	0	0	0	0	0	0	12.9	0	0	7.9	0
23	0	0	0	0	0	1.8	12.2	0.8	13.7	54.1	0	0
24	0	0	0.8	0	0	3.6	229.3	3.8	0	0.8	3.6	0
25	0	0	6.6	0	68.5	1	159	3	65	0	0	0
26	0	0	49.8	0	0	3.6	27.2	42.2	0	0	0	0
27	0	0	24.9	0	0	0	0	55.1	8.9	2.3	0	0
28	0	0	0	0	0	0.5	0	122.7	1.5	22.1	0	0
29	0	0	13.2	0	0	1.3	0	22.6	0	50.8	0	0
30	0	0	0	0	0	5.1	0	7.4	0	19	0	0
31	0	0	0	0	3.8	0	0	0.5	0	0	0	0
Total	0.2	0	96.6	1.7	330	217	1455.2	534.5	971.1	197.6	141.6	0

Annual 3945.5 mm/year

Daily Rainfall at Sta. Rita

Year 1981

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	-	0	0	0	0	4	0.8	0	26.2	0	0
2	0	-	0	0	0	6.4	7.9	18.3	0	117.1	0	0
3	0	-	0	0	0.5	38.9	1.3	17	1.5	1.3	0	0
4	0	-	0	0	0	42.7	106.7	30.2	1.8	45	0	0
5	0.8	-	0	0	0	49.8	131.1	110.8	0	1.8	0	0
6	0	-	0	0	0	150.4	2.3	65.5	0	0.2	0	0
7	0	-	0	0	0	140.9	0	116.9	0	1.8	0	0
8	0	-	0	0	0.8	67.1	4.1	75.2	2	0	0	0
9	0	-	0	0	0	161.5	22.9	42.7	0	3.3	0	0
10	0	-	0	0	0	113.8	4.6	24.7	0	0	0	0
11	0	-	0	0	0.2	24.1	0	4.1	0	1.3	0	0
12	0	-	0	0	0.5	61.7	1	24.4	0	3.6	0	0
13	0	-	0	0	16.3	157	24.1	57.5	4.1	0	0	0
14	0	-	0	0	0	13.5	12.4	5.3	1.5	0	0	0
15	0	-	0	0	0	96.8	13	83.8	0.5	0	0	0
16	0	-	0	0	16.2	34.1	117.1	114	1	0	0	0
17	0	-	0	2.3	1.3	13.2	131.5	69.6	0	0	0	0
18	0	-	0	0	11.7	27.5	148.3	102.1	0	0	0	0
19	0	-	0	0	0	11.6	43.2	86.4	13.2	0	0	0
20	0	-	0	0	0	76.2	6.6	33.2	54.4	0	3.3	0
21	0	-	0	0	0	93.7	13.5	5.1	48	26.2	0.5	0
22	0	-	0	0.5	0	0	0	13.5	34.3	0	2	0
23	0	-	0	9.6	0	0	0	6.6	6.1	0	0	0
24	0	-	0	0	0	31.2	0	2.3	1.3	0	49.8	0
25	0	-	0	0	0	24.9	21.5	11.4	14.2	0	4.1	0
26	0	-	0	15.2	5.4	21.3	3.6	34.5	0	0	0	6.9
27	0	-	0	0	0	0	0.2	7.3	0	5.3	0	0
28	0	-	0	2	0	0	0	5.4	1.5	0	0	0
29	0	0	0	0	0	0	0	3.5	100.6	0	0	0
30	0	0	0	0	0	3.8	0	14.7	88.2	0	0	0
31	0	0	0	0	4.3	0	2.3	0	0	0.5	0	0
Total	0.8	0	0	29.6	57.2	1462.1	823.2	1186.8	374.2	233.6	59.7	6.9

Annual 4234.1 mm/year

Daily Rainfall at Sta. Rita

Year 1982

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	-	5.4	0	0	38.4	-	14.5	0	0	0.7
2	0	0	-	22.6	0	0	90.2	-	44.4	0	0	0
3	0	0	-	0.2	0	0	126.5	-	228.3	0	0	0
4	0	0	-	37.6	0	0	102.1	-	87.9	0	0	0
5	0	0	-	0	0	15.8	9.6	-	100.9	0	0	3.3
6	0	0	-	0	0	0	8.1	-	14.3	0	0	0
7	0	0	-	0	0	0	11.7	-	5.6	0	0	0
8	0	0	-	0	15.5	28.2	0.8	-	1	0	0	0
9	0	0	-	1.8	0	0	8.6	-	99	0	1.5	0
10	0	0	-	0	0	1.8	15.3	-	10.7	1.3	8.9	0
11	0	1	-	0	8.1	21.8	79.5	-	0	0	0	0
12	0	8.4	-	0	0	1.5	3.8	-	1.8	0	9.6	0
13	0	0	-	14.4	0.5	0	29.2	-	0	0	1.5	0
14	0	0	-	0	6.1	19.8	9.4	-	0	13.2	16.3	0
15	0	0	-	0	0	3.8	258.1	-	0	37.1	0	0
16	0	0	-	0	0	0	9.9	-	36.6	2.8	0	0
17	0	0	-	0	1.3	0	1.8	-	0	0	0	0
18	0	0	-	20.8	0	0	3.3	-	0	0	0	1.3
19	0	0	-	0	0	18.5	83.6	-	8.1	0	0	0
20	0	0	-	0	0	0	9.9	-	0	0	0	1.5
21	0	0	-	0	0	0	7.9	-	1.3	0	0	0
22	0	0	-	0	0	39.9	127.7	-	22.6	8.6	0	0
23	0	0	-	0	0	74.9	87.6	-	48	3.8	0.5	0
24	0	0	-	0	0	84.9	82.3	-	27.7	0	0	0
25	0	0	-	0	1.5	35	31.7	-	102.1	0	0	0
26	0	0	-	0	0	78.7	28.2	-	0	0	0	7.9
27	0	0	-	0	0	55.6	53.4	-	12.7	0	0	2.8
28	0	0	-	0	0	88.1	18.8	-	0	0	0	0
29	0	0	-	0	0	82.3	28.4	-	1.8	0	0	0
30	0	0	-	0	0.5	74.9	30.5	-	2	0	0	0
31	0	0	-	0	0	0	24.4	-	0	0	0	0
Total	0	9.4	0	102.8	33.5	725.5	1420.7	0	871.3	66.8	38.3	17.5

Annual 3285.8 mm/year

Daily Rainfall at Sta. Rita

Year 1983

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	51.8	2.3	4.1	5.8	0	0
2	7.4	0	0.8	0	6.4	0	0	28.5	1.5	24.2	7.4	0
3	0	0	0	0	0	14.5	10.4	21.6	0	0	0	0
4	13.7	0	0	0	0	38.6	2.3	4.1	16.8	0	0	0
5	0	0	0	0	0	114.8	0.5	0.5	47.8	0	0.2	0
6	0	0	0	0	0	59.5	0.2	32.5	1	0	0	0
7	0	0	0	0	0	26.1	27.7	26.2	38.9	22.4	0	0
8	0	0	0	0	0	0	0	1.3	0	15.8	0	0
9	0	0	0	0	0	0	34.3	1.8	0	0	0	0
10	0	0	0	0	0	0	14.2	52.8	0	3.3	0	0
11	0	0	0	0	0	0	13	56.7	0	19.1	0	0
12	0	0	0	0	0	3.6	0	72.4	5.8	16.5	0	0
13	0	0	0	0	0	0	0	68	7.4	0	0	0
14	0	0	0	0	0	0	30.1	129.1	0	1.8	0	0
15	0.8	0	0	0	0	0	126	119.6	0	0	0	0
16	1.3	0	0	0	0	0	28.5	156.5	0	0	3	0
17	0	9.7	0	0	0	0	0	23.4	2.8	0.5	0	0
18	0	0	0	0	0	0	52.3	7.4	0	0	2.8	0
19	3.3	0	0	0	0	0.8	2.3	6.9	0	0	0	0
20	0	0	0	0	0	0	8.6	0	0	2.3	0	0
21	0	0	0	0	0	10.9	0	3.6	3.6	31.5	0	0
22	0	0	0	0	0	0	0	10.1	0	0	0	0
23	0	0	0	0	0	0	1.3	80.3	0.5	0	0	0
24	0	0	0	0	0	0	12.4	6.6	1.5	1.3	0	0
25	0	0	0	0	0	0	17.8	53.6	52.6	0.8	0	0
26	0	0	0	0	0	0	0	6.9	74.5	0	0	0
27	0	0	0	0	0	56.4	3.6	4.6	90.7	4.1	0	0
28	0	0	0	0	0	0	33.8	31.5	17.6	0	0	0
29	0	0	0	0	0	0	42.9	3	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	28.5	3.6	0	10.7	0	0
Total	26.5	9.7	0.8	0	6.4	325.2	542.5	1015.4	367.1	160.1	13.4	0

Annual 2467.1 mm/year

Daily Rainfall at Sta. Rita

Year 1984

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	7.1	0	87.9	57.4	0	0	0	0
2	0	0	0	0	1.8	0	123.2	122.7	0	0	0	0
3	0	0	0	0	8.9	0	16.8	43.4	0	2.8	0	0
4	0	0	0	0	25.9	1	0	38.9	0	0	0	8.6
5	0	0	0	0	38.6	88.9	47.5	36.4	0	1.3	0	0
6	0	0	0	0	25.4	0	109.5	136.9	0.2	0.8	0	0
7	0	0	0	0	0	56.7	3	125.7	0	54.6	0	0
8	0	0	0	0	0	4.3	0	17.1	0	52.6	0	0
9	0	0	0	0	0	0	1.3	23.4	0.8	8.6	0	0
10	0	0	0	0	0.8	14	0	57.7	0	64.3	0	0
11	0	0	0	0	5.1	38.6	2.3	80.5	0	0	0	0
12	0	0	0.8	0	0	1	0	60.7	0	0	0	0
13	0	0	0	0	25.2	0	0	61.2	0	0	0	0
14	0	0	0	0	0	26.1	0	56.7	0.2	0	0	0
15	0	0	0	0	0.8	48.5	0	25.9	10.2	3.3	0	0
16	0	0	0	33	0	103.9	0	56.4	0	0.8	0	0
17	0	0	0	0.8	0.5	17	0	94.5	1.8	1	0	0
18	0	0	0	0	0	42.9	0	62.7	2.5	0	0	0
19	0	0	0	0	0.8	45.2	0	0	18.1	2.3	0	0
20	0	0	0	0	1.3	21.3	0	14.2	4.1	3.6	0	0
21	0	0	0	0	17.5	64.3	0	43	0	4.3	0	0
22	0	0	0	0	0	40.9	0	40.9	0	3	0	0
23	0	0	0	0	5.1	93.8	0	66.5	0	1.3	0	0
24	0	0	0	22.6	24.1	78.4	0.8	60.2	0	0	0	0
25	0	0	0	0.5	1.8	70.1	5.3	19.5	58.4	3.8	0	0
26	0	0	0	0	8.4	44.7	24.4	98.3	56.1	4.8	0	0
27	0	0	0	0	0	51.8	21.9	39.3	21.8	11.4	0	0
28	0	0	0	0	0	22.8	40.3	96.8	41.4	91.5	0	0
29	0	0	0	9.1	2.3	3.8	45	28.7	2.8	23.9	0	0
30	0	0	0	20.5	0	5.3	52.9	61.2	1	0	0	0
31	0	0	0	0	1.3	0	107.1	17.3	0	0	0	0
Total	0	0	0.8	86.5	202.7	985.3	689.2	1744.1	219.4	340	0	8.6

Annual 4276.6 mm/year

Daily Rainfall at Sta. Rita

Year 1985

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	11.7	1.3	54.6	25.6	5.6	4.3	13.5	0
2	0	0	0	0.2	9.1	0	3.3	4.1	34.7	0	0	0
3	0	0	0	0	0	0	0	13.7	291.3	0	0	0
4	0	0.2	0	0	0	57.6	2.1	42.7	56.4	0	0	0
5	0	0	0	0	3.8	6.4	94.7	57.4	21.1	0.8	0	0.2
6	0	0	0	0	68.2	9.6	35.3	38.7	0.2	26.9	0	0
7	0	0	0	0	0	53.6	47.3	3.3	6.4	10.9	0	0
8	0	0	0	0	0	63	9.4	44.7	10.2	32.5	0	0
9	0	0	0	0	0	56.2	36.3	99.6	0	0	0	0
10	0	0	0	0	49	30.5	0	110	4.1	0	0	0
11	0	0	0	0	0	22.1	0	127.3	13.7	0	0	0
12	0	0	0	0	0	49.3	0	119.9	0	0.5	0	0
13	0	0	0	0	0.8	43.9	0	59.1	0	0	0	0
14	0	0	0	0	2	122.9	2.3	48	0	0	0	0
15	0	0	0	0	0	77	18.8	35.3	20.1	3.8	0	0
16	0	0	0	0	0	93.4	16.3	30.7	0	0	0	0
17	0	0	0	0	0	75	0	32.5	0.8	0	0	0
18	0	0	0	6.4	6.9	95	0	19.3	11.5	74.2	0	0
19	0	0	0	0.8	0	52.3	16.3	9.9	1.5	101.6	0	0
20	0	0	12.2	4.3	0	41.9	33.5	16.5	0	62.7	0	0
21	0	0	0	0	0	313.7	0	20.3	38.9	0	0	0
22	0	0	0	0	0	156.7	0	12.7	7.1	0	0	0
23	0	0	0	10.7	0	140.5	0	16.8	0	0	4.1	1.5
24	0	0	0	8.6	0	47.3	0	1.3	15.5	17.5	0	0
25	0	0	13.5	0	0	74.1	0	2.6	1.8	12.4	0.8	0
26	0	0.8	0	0	0	282.7	0.8	14.4	45.5	38.6	0	0
27	0	0	0	0	0	313.7	0	10.6	1.8	5.9	0.5	0
28	0	0	0	7.4	51.3	48.5	0.2	14.5	4.3	0	0	0
29	0	0	0	0	6.4	20.3	4.6	2	0.2	0	0	0
30	0	0	0	16	2.3	14.7	24.6	6.1	0	0	0	0
31	0	0	0.8	0	21.3	0	19.5	0	0	10.9	0	0
Total	0	1	26.5	54.4	232.8	2363.2	419.9	1039.6	592.7	403.5	18.9	1.7

Annual 5154.2 mm/year

Daily Rainfall at Sta. Rita

Year 1986

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0.2	0	0	0	0	73.7	216.4	88.1	36.6	0	0
2	0	0	0	0	0	13.2	183.6	116.8	111	0	0	0
3	0	0	0	0	0	0.8	276.5	64.3	72.4	0	0	0
4	0	0	0	0	0	0	51.6	3.6	49.7	2.3	0	0
5	0	0	0	0	0	0	1.3	3.1	10.2	8.6	0	0
6	0	0	0	0	0	0	8.6	3.8	0	37.3	6	0
7	0	0	0	0.8	0	0	16.5	33.5	0	1.5	8.6	0
8	0	0	0	0	0	0	128.8	50.3	1.3	7.4	4.1	0
9	0	0	0	0	0	0	334	18.7	0	5.8	16.5	0
10	0	0	0	0	0	0	186.6	0	0.2	5.6	0	0
11	0	0	0	0	0	0	14.5	0.7	5.6	10.2	0	0
12	0	0	0	0	0	3.3	0	0	0	34.8	11.4	0
13	0	0	0	0	19.3	33.3	24.4	0	0.8	20.6	17.8	0
14	0	0	0	0	50.8	0	22.4	95.5	14.5	7.9	12.9	0
15	0	0	0	0	40.4	36.6	3.6	2.6	9.1	0	7.1	0
16	0	0	0	0	30.2	30.5	12.4	22.8	33.8	0	7.6	0
17	0	0	0	0	17.7	27.4	0	10.6	44.7	7.7	0.2	0
18	0	0	0	0	16	5.3	17.3	15.3	12.7	0	0	0
19	0	0	0	0	0	0	0	22.1	52.3	5.1	11.4	0
20	0	0	0	0	0	0	13.7	24.1	24.4	0	0	0
21	0	0	0	0	11.9	1.3	13.9	32.8	23.9	0.5	0	0
22	0	0	0	0	49	50.2	31.5	24.4	1.5	0	3.8	0
23	0	0	0	0	56.1	145.5	52.3	175.6	0	0	0	0
24	0	0	0	0	25.2	28.4	3.6	54.1	6.1	0	0	0
25	0	0	0	0	80.5	0	0	141.7	21.3	0	0	0
26	0	0	0	0	83.9	0	0	56.1	0	0	0	0
27	0	0	0	0	27.7	0	0	34.3	0	0	0	0
28	0	0	0	0	26.6	0	0	8.9	0	4.8	0	0
29	0	0	0	0	16.3	0	3.3	155.2	0	0	0	0
30	0	0	0	0	34.6	20.9	19.3	63.4	0	0	0	0
31	0	0	0	0	0	0	16.8	97.5	0	0	0	0
Total	0	0.2	0	0.8	586.2	396.7	1510.2	1548.2	583.6	196.7	107.4	0

Annual 4930 mm/year

Daily Rainfall at Sta. Rita

Station: Santa Rita

Year 1987

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	3.3	26.1	0	28.2	0	0	0
2	0	0	0	0	0	14.7	0	0.8	60.7	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	4.1	30	0.5	7.9	24.9	0	0
5	0	0	0	0	0	0	25.1	0	66.8	0.5	0	0
6	0	0	0	0	0	0	0	0	16	0	0	0
7	0	0	0	0	0	0	0	0	84.6	0	0	0
8	0	0	0	0	0	21.6	3.6	0	72.4	0	0	0
9	0	0	0	0	0	61.5	0	0	13.7	0	0	0
10	0	0	0	0	0	73.7	0	0	0	0	0	0
11	0	0	0	0	0	112.8	0	0	0	0	0	0
12	0	0	0	0	0	9.4	8.9	19.6	40.6	0.8	0	0
13	0	0	0	0	0	74.4	27.2	1.8	4.6	0	0	0
14	0	0	0	0	0	42.4	14.2	2.8	0	0	0	0
15	0	0	0	0	0	53.7	140	39.1	34.6	0	6.1	0
16	0	0	0	0	0	143.3	17	18.3	52.3	0	0.8	0
17	0	0	0	0	0	35.3	1	137.7	2.3	0	18.8	1.8
18	0	0	0	0	0	37.6	0	210.6	0	0	8.4	0
19	0	0	0	0	0	6.4	185.6	6.4	0	0	0	0
20	0	0	0	0	0	0	87.2	0	0	3.3	0	0
21	0	0	0	0	0.5	0	6.1	21.3	25.6	0	0	0
22	0	0	0	0	0	0	0	0.8	37.1	0	0.8	0
23	0	0	0	0	0	25.4	2.3	0	0	3.6	8.2	0
24	0	0	0	0	0	0.8	0	9.2	0	7.9	0	0
25	0	0	0	0	4.3	19.3	38.6	0	0	0	0.2	0
26	0	0	0	0	3.8	0	23.6	3.3	0	0	9.4	0
27	0	0	0	0	0	0	15.5	20	0	0	0	0
28	0	0	0	0	0	39.4	0	36.8	9.1	0	0	0
29	0	0	0	0	0	0.8	0	46.2	0	5.8	0	0
30	0	0	0	0	0	96	4.3	67.5	0	1	0	0
31	0	0	0	0	1.5	0	0	5.1	0	0	0	0
Total	0	0	0	0	10.1	875.9	656.3	647.8	556.5	47.8	52.7	1.8

Annual 2848.9 mm/year

Daily Rainfall at Sta. Rita

Year 1988

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	49.2	19.6	50.6	0	0	0	0
2	0	0	0	0	44.2	83.8	19.3	2.8	28.2	0	0	0
3	0	0	0	0	0	71.6	13.2	0	0	0	0	0
4	0	0	0	21.6	0	0	5.8	0	0	42.4	11.4	0
5	0	0	0	7.1	0	48.8	0	93.6	0	85.3	0	0
6	0	0	0	0	0	0	0	85.6	7.1	7.7	0	0
7	0	0	0	0	5.6	8.9	0	57.1	1.8	4.6	2.8	0
8	0	0	0	0	0	0	0	52.3	0	13.7	3.6	0
9	0	0	0	29.2	0	23.1	0	8.2	0	21.3	7.9	0
10	0	0	0	0	0	0	14.7	0	0	12.7	0	0
11	0	0	0	0	4.3	0	0	0	0	14.7	0	0
12	0	2.3	0	0	23.6	0	52	0	0	3.6	34	0
13	0	0.8	0	3.3	14	17.3	2.3	0	8.4	33.6	0	0
14	0	0	0	0	0	19.8	0.2	12.4	3.3	0	0	0
15	0	1.5	0	0	0	51.6	0	47.8	0	0	0	0
16	0	1.8	0	0	0	9.4	2.1	55.7	0	0	0	0
17	0	0.5	0	0	5.8	0	46.5	0	5.6	0	0	0
18	0	0	0	0	12.2	0	67.6	0	2.3	2.3	0	0
19	0	0	0	0	2	0	42.2	0	21	0	0	0
20	0	0	0	0	0	18.5	8.4	0	124.5	182.1	0	0
21	0	0	0	0	0	0	6.8	0	77	29.2	0	0
22	0	0	1.3	0	0	35.3	0	8.9	18.3	0	0	0
23	1.3	0	0	0	0	39.4	4.3	26.9	18	3.8	0	0
24	0	0	0	0	5.8	63.5	4.1	32.2	0	44.7	0	0
25	0	0	0	0.2	77.2	38.6	12.2	38.3	0	80.2	0	0
26	0	0	0	0	54.6	9.6	80.8	0	3.3	52.1	0	0
27	0	0	0	0	61.7	30.2	56.1	0	15.3	9.7	0	0
28	0	0	0	0	66.2	10.4	133.1	5.3	4.1	4.2	0	0
29	0	0	0	0	111.5	0	196.6	0	4	0	0	0
30	0	0	0	0	145.5	0.8	87.1	0	18.3	0	0	0
31	0	0	0	0	143.6	0	25.4	0	0	0	0	0
Total	1.3	6.9	1.3	61.4	777.8	629.8	900.4	577.7	360.5	647.9	59.7	0

Annual 4024.7 mm/year

Daily Rainfall at Sta. Rita

Year 1989

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	17.3	0	0	16.3	8.1	97.8	12.2	0	0	0
2	0	0	0	0	0	0	0	20.9	117.1	7.4	0	0
3	0	0	0	0	21.6	0	0	50.8	24.4	15.2	0	0
4	0	0	0	0	0	0	0	100.3	52.3	0	0	0
5	0	0	0	0	0.8	0	23.4	56.4	18.5	0	0	0
6	0	0	0	0	0	5.3	0	91.7	5.3	54.4	0	0
7	0	0	0	0	0	24.5	26.4	154.7	5.1	8.4	0	0
8	0	0	0	8.3	0	10.7	60.2	194.4	67.3	3.6	0	0
9	0	0	0	0	0	20.3	15.8	29.5	45.5	3.8	0	0
10	0	0	0	0	12.4	0.2	0	71.7	85.4	7.1	0	0
11	0	0	0	0	0	6.1	0.5	8.6	44.8	81.5	0	0
12	0	0	0	0	1.3	0	0	0	31.2	0	0	0
13	0	0	0	0	0	0.5	11.2	35.3	98.6	0	0	0
14	0	0	4.6	0	0	0	0	9.6	13.7	0	0	0
15	0	0	30.5	0	0.5	0	90.6	22.3	33.3	1.3	0	0
16	0	6.1	0	0	11.2	3.3	82.8	5.3	66.4	0	0	0
17	0	0	0	0	92.7	6.4	115.3	43.9	59.9	0	0	0
18	2.3	0	0	0	57.1	0	37.9	38.1	0	0	0	0
19	0	0	0	0	4.8	0	0	151.3	0	0	0	0
20	0	0	0	0	0	5.8	4.8	109	0	15	0	0
21	0	0	22.4	0	1.5	9.4	8.9	91.7	6.1	0	4.1	0
22	0	0	0	0	0	128	0	0	6.4	9.4	10.7	0
23	3.3	0	0	0	0	7.1	0	0	1.3	0	0	0
24	0	0	0	0	0	25.2	0	0	0	0	0	0
25	0	0	0	0	7.1	0	0	2.5	0.8	0	0	0
26	0	1.3	0	0	71.4	0	119.4	0	16.3	0	0	0
27	0	0	0	56.1	34.8	45.8	9.7	0	2.8	0	0	0
28	0	5.1	0	0	5.3	2.5	0.8	0	51.6	0	0	0
29	0	0	0	0	0.5	61.2	61.2	8.1	1	0	0	0
30	0	0	5.3	0	20.3	0	46.7	4.3	0	0	0	0
31	0	0	0	0	1	0	34.3	2.3	0	0	0	0
Total	5.6	12.5	80.1	64.4	344.3	378.6	758	1400.5	867.3	207.1	14.8	0

Annual 4133.2 mm/year

Daily Rainfall at Sta. Rita

Year 1990

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	121.5	0	52.4	93.2	4.3	0	3.3
2	0	0	0	0	0	56.4	2	41.4	169.7	0	0	0
3	0	0	0	0	0.8	2.1	48.8	3.3	22.3	0	0	0
4	0	0	0	0	3.8	0	0	2.3	34.3	5.1	0	0
5	0	0	0	0	0	0	3.8	0	23.4	0	0	0
6	0	0	0	0	0	0	11.4	3.2	39.6	0	1	1.3
7	0	0	0	0	0	0	1.5	1.8	105.1	0	2.3	0
8	0	0	0	4.1	0	0	59.2	0	143.7	0	3.8	0
9	0	0	0	0	0	0	76.4	0	47.2	0	0	0
10	0	0	0	0	0	14.2	14.5	2.1	0	0	0	0
11	0	0	0	0	0	1.3	2.3	3.6	0	0	5.3	0
12	0	0	0	0	0	3.5	0	4.3	16.5	0	1.3	0
13	0	0	0	0	1.3	0	0	0	0	58.1	22.1	0
14	0	0	0	0	10.2	131.3	5.6	0	3.3	1.2	1	0
15	0	0	0	0	0	72.4	0	4	61.3	0.5	0	0
16	0	0	0.2	0	1	15.2	0	72	6.1	13.7	0	0
17	0	0	0	0	13.5	6.4	6.4	63.8	0	14	0	0
18	0	0	0	0	0	0	45.2	14.2	0	0	0.8	0
19	0	0	0	0	2.3	0	5.3	3.3	0	0	0	0
20	0	0	0	0	1.5	28.4	15.7	33.2	3.3	0	0	0
21	0	0	0	0	26.4	80.4	0	13.4	0	0	0	0
22	0	0	0	0	0.8	90.4	15.2	57.9	0	0	0	0
23	0	0	0	0	12.5	121.2	9.7	160.8	14.2	0	0	0
24	0	0	0	0	2	50.8	29.5	187.7	0	0	0	0
25	0	0	0	0	1.5	36.5	98	37.3	0	0	0	0
26	0	0	0	0	21.1	155.7	207.2	75.5	0	0	0	0
27	0	0	0.8	0	47.5	173.5	188.5	92.2	0	0	0	0
28	0	0	0	0	70.4	103.4	170.4	67.3	0	0	0	0
29	0	0	0	0	30.4	6.4	48.5	12.8	4.1	0	0	0
30	0	0	0	0	64	0	16.2	4.4	9.6	0	0	0
31	0	0	0	0	24.9	0	40.6	159	0	0	0	0
Total	0	0	1	4.1	335.9	1271	1121.9	1173.2	796.9	96.9	37.6	4.6

Annual 4843.1 mm/year

Daily Rainfall at Sta. Rita

Year 1991

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.1	4.8	0	5.3	0	0	7.4	66.3	52.6	43.7	0	0
2	10.1	0	0	0	11.2	0	0	20.1	110.7	0	0	0
3	0	0	0	0	4	1.3	0	8.9	52.5	3.3	0	0
4	0	0	0	0	0	0	0	18	66.5	7.4	0	0
5	0	0	0	0	0	0	0	21.3	4.3	2.3	0	0
6	0	0	0	0	0	2.1	0	27.2	14.8	0	0	0
7	0	0	0	0	0	0	0	4.1	84.6	0	0	0
8	0	0	0	0	42.2	0	0	1.8	15	0	0	0
9	0	0.5	0	0	2	0	58.9	4.8	9.6	0	0	0
10	0	0	0	0	0	0	8.7	12	1.5	0	0	0
11	0	0	0	0	7.3	3.3	3.3	29.5	0	0	0	0
12	0	0	1	0	0	36.2	39.1	21.9	1.3	0	0	0
13	0	0	3.4	0	0	0	1.5	86.1	0	0	0	0
14	0	0	0	0	0	3.1	0	71.3	53.3	0	0	0
15	0	0	0	0	0	9.6	0	58.9	15.8	3.8	0	0
16	0	0	0	0	0	281.4	0	71.7	38	0	5.1	0
17	0	0	0	0	25.1	39.3	8.6	68.6	22.6	0	37.6	0
18	0	2.3	0	0	11.2	0	29.2	57.1	18.8	0	0	0
19	0	0	0	24.6	4.1	160.5	88.4	111.7	54.7	0	0	0
20	0	0	0	0	20.3	0	0	138.9	57.9	0	0	0
21	0	2	0	0	0	69.3	76.7	17.3	52	0	0	0
22	0	0	0	0	0	8.2	90.4	29	18.1	0	0	0
23	0	0	0	0	26.7	19.5	67.8	48.2	13.2	0	0	0
24	0	0	0	0	0	0	141	49.4	2.5	0	0	0
25	0	0	0	0	0	0	68.8	91.5	4.3	0	0	0
26	0	0	0	3.7	0	0	66.8	12.4	2.8	2.3	0	0
27	0	0	0	0	0	0	100.4	0.8	57.9	32.5	0	0
28	0	0	0	0	0	0	18	19.3	67.9	80.3	0	0
29	0	0	0	0	0	4.3	0	92.2	32.2	12.7	0	0
30	0	0	0	0	0	58.9	0	66.8	68.1	0	0	0
31	0	0	0	0	0	0	0.8	10.4	0	0	0	0
Total	15.2	9.6	4.4	33.6	154.1	697	875.8	1337.5	993.5	188.3	42.7	0

Annual 4351.7 mm/year

Daily Rainfall at Sta. Rita

Year 1992

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	14.3	48.5	0	36.3	0	0	0
2	0	0	0	0	0	0	14.9	0	30.9	0	0	0
3	0	0	0	0	0	0	1.3	0	36.8	0	0	0
4	0	0	0	0	0	0	0	3.3	36.3	2.2	0	2.3
5	1.3	0	0	0	0	0	0	0	38.7	0	0	0
6	0	0	0	0	0	0	0	0.2	34.3	2.3	1.8	0
7	0.8	0	0	0	0	7.4	0	0	7.9	0	0	0.8
8	0	0	0	0	0	3	0	4.1	1.3	0	0	0
9	0	0	0	0	0	25.4	0	3.8	4.3	0	0	0
10	0	0	0	0	0	2.3	2.3	18.1	2.3	0	0	0
11	0	0	0	0	7.1	2.5	23.2	30.5	1.3	0	2.8	0
12	0	0	0	0	4.1	2	33.3	2	0	32.8	3.6	0
13	0	0	0	0	0	0	55	10.4	0	0	0	0
14	0	0	0	1.3	28.2	0	63.4	50.8	44.2	3.3	0	0
15	0	0	0	14	11.4	9.4	5.2	108.5	2.1	0	0	0
16	0	0	0	0	10.4	0	10.6	53.4	3.6	2	0	0
17	0	0	0	0	14.2	0	31	83.6	5.2	31	0	0
18	0	0	0	0	3.3	2.3	3.6	74.4	1.8	8.1	0	0
19	0	0	1.3	0	0	0	60.7	51.1	0	9.4	0	0
20	0	0	0	0	0	0	108.3	98.8	76.8	0	0	0
21	0	0	0	0	0	1.6	63.5	70.1	52.9	12.4	0	0
22	0	0	0	0	0	4	0	7	34	0	0	0
23	0	0	0	2.8	8.4	21.3	2.3	19.5	10.7	0	0	0
24	0	0	0	0	0	1.3	2.3	20.8	10.4	0	0	0
25	0	0	0	0	1.5	2.8	21.6	48.5	0.5	32.5	0	0
26	0	0	0	0	12.7	53.6	23.9	86.4	0	5.3	0	0
27	0	0	0	0	44.4	75.5	0	57.2	0	0	0	0
28	0	0	0	0	17.3	27.7	4.4	89.7	0	0	0	0
29	0	0	2.5	0	25.7	31.7	2.8	52.8	3.3	0	0	0
30	0	0	0	0	19.4	7.9	3.3	41.9	2.8	0	4.3	0
31	0	0	0	0	15.2	0	0.8	26.2	0	0	0	0
Total	2.1	0	3.8	18.1	223.3	296	586.2	1113.1	478.7	141.3	12.5	3.1

Annual 2878.2 mm/year

Daily Rainfall at Sta. Rita

Year 1993

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	3.6	0	0	13.7	0.8	87.9	0
2	0	0	0	0	4.2	0	95.3	0	38.8	16.8	59.6	1.3
3	0	0	0	0	0	1.8	40.2	1.3	56.1	14.5	0	0
4	0	0	0	0	0	0	5.3	0	61.2	128.3	0	0
5	0	0	0	0	0	0	0	0	7.4	249.7	0	0
6	0	0	0	0	0	0	6.3	6.4	26.4	52.6	0	0
7	0	0	0	0	0	0	0	76.2	103.1	43.9	0	0
8	0	0	0	0	0	0	33	44.7	86.1	0	0	0
9	0	0	0	0	0	0	0	42.9	42.2	0	0	0
10	0	0	0	4.3	0	20.3	16.8	7.9	35	0	0	0
11	0	0	0	0	0	0	10.2	25.4	57.4	0	0	0
12	0	0	0	17.4	4.6	0	0	107.7	7.4	0	12.5	0
13	0	0	0	0	0	0	0	34.8	1.3	5.3	0	0
14	0	0	0	0	19.3	0	4.1	42.9	0	0	0	0
15	0	0	0	0	0	14.5	55.1	28.2	45.7	20.3	0	1.3
16	0	0	0	0	0	12.2	27.7	53.6	16.5	0	3	0
17	0	0	0	0	0	1.3	19.8	70.2	0	0	0	0.8
18	0	0	0	0	0	6.9	8.4	176	3.8	0	0	0
19	0	0	0	0	0	16.3	5.8	116.8	0	0	0	0
20	0	0	1.8	0	11.5	2.5	1.5	0	0	0	0	0
21	0	0	2.5	0	0	0	41.7	0	0	1.3	5.6	0
22	0	0	0	0	0	14.2	80.5	0	0	0	0	0
23	0	0	0	0	0	0	56.4	8.2	0	0	0	0
24	0	0	0	0	0	0	11.4	0	0	0	0	0
25	0	0	0	0	0	26.4	34.8	0.2	0	0	0	0
26	0	0	0	0	0	147.8	80.7	7.1	0	0	4.1	0
27	0	0	0	0	0	4.1	84.9	1.3	2.3	0	0	7.3
28	0	0	0	20.6	0	0	124.9	0	53.8	0	0	1
29	0	0	0	0	0	0	158	6.1	6.6	0	0	0
30	0	0	0	0	0	20.6	209.6	1.3	1.5	0	0	0
31	0	0	0	0	0	0	108.8	7.8	0	0	0	0
Total	0	0	4.3	42.3	39.6	292.5	1321.2	867	666.3	533.5	172.7	11.7

Annual 3951.1 mm/year

Daily Rainfall at Sta. Rita

Year 1994

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	4.1	26.5	29.7	104.9	1.3	50.6	0	0
2	0	0	0	0	0	36.6	36.4	125.7	16.3	1.8	0	0
3	0	0	0	0	0	9.4	22.1	113.3	43.4	0	0	0
4	0	0	0	0	48.5	63.2	2.8	24.4	25.1	0	0	0
5	1.8	0	0	0	0	45.2	7.3	0	10.1	0	0	0
6	12.4	0	0	0	0	0	39.9	74	2.3	0	0	0
7	0	0	0	0	0	0	111.5	22.5	0	0	0	0
8	0	0	0	6.9	0	0	77.2	0	0	0	0	0
9	0	0	0	33.5	0	4.1	38.3	0	0	14.2	0	0
10	0	0	0	0	3.8	35.8	77	0	10.4	17.2	0	0
11	0	0	0	0	0	0	52.3	0	31.5	28.4	0	0
12	2.5	0	0	0	0	0	15.2	0	16.2	0	0	0
13	0	0	0	0	0	4.3	0	0	3.3	0	0	0
14	0	0	0	0	5.1	0	0	0	1.8	1.8	0	0
15	0	0	0	0	0	2.8	19.4	0	15.2	0	0	0
16	0	0	0	0	0	3.6	22.1	0	5.6	3.3	0	0
17	0	0	0	0	0	12.9	64	11.4	0	0	0	0
18	0	0	0	0	0	26.4	112.8	0	3.8	0	0	0
19	0	0	0	0	37.3	8.9	44.5	0	2.3	0	0	0
20	0	0	19.3	3.8	0	34.6	25.6	0	11.9	0	0	0
21	0	0	0	0	0	8.2	53.3	1.3	16.3	23.1	0	0
22	0	0	0	0	12.2	55.2	37	0	0	0	0	0
23	0	0	0	0	2	206.8	44.2	26.2	34.4	0	0	0
24	0	0	4.1	0	28.7	35.3	56.7	35.6	5.3	0	0	0
25	0	0	0	0	29	0	45.2	11.7	10.2	0	0	0
26	0	0	0	0	32.8	1.8	109.5	11.9	25.6	0	0	0
27	0	0	0	0	24.5	0	191.8	0	0	0	0	0
28	0	0	0	0	0	0	212.1	0	0	0	0	0
29	0	0	0	0.8	0	0	141.1	0	0	0	0	0
30	0	0	0	0	0	2.3	204	0	35.6	0	0	0
31	0	0	0	0	0	0	40.9	9.1	0	0	0	0
Total	16.7	0	23.4	45	228	623.9	1933.9	572	327.9	140.4	0	0

Annual 3911.2 mm/year

Daily Rainfall at Sta. Rita

Year 1995

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	8.2	2.5	0	0	148.2	17.3	-
2	0	0	0	0	0	9.6	0	9.9	53.2	1.5	0	-
3	0	0	0	0	0	26.7	0	0	44.3	0	8.6	-
4	0	0	0	0	0	63.3	6.1	0	29	0	0	-
5	0	0	0	0	0	11.2	0	0	12.2	4.3	0	-
6	0	0	0	0	0	60.4	0	0	1.4	0	15	-
7	0	0	0	0	0	16.9	3.6	4.6	24.6	0	0	-
8	0	0	0	0	0	3	0	23.4	12.1	1.8	0	-
9	0	0	0	0	0	2	1.8	68.4	7	0	0	-
10	0	0	0	0	0	0	20.3	0	7.6	53.6	0	-
11	0	0	0	0	0	0	26.2	1.4	5.2	1.8	0	-
12	0	0	0	0	25.6	0	2.8	0	26.8	0	0	-
13	0	0	0	0	13.2	0	1.2	1.6	54.4	0	0	-
14	0	0	0	0	38.4	0	4.6	0.5	46.2	0	0	-
15	0	0	0	0	30.9	2.3	0.5	10.4	5.1	0	3.8	-
16	0	0	0	0	56.7	0	1.3	2.6	11.4	0	31.5	-
17	0	0	0	0	3.8	0	0	0.8	44.7	0	9.6	-
18	0	0	0	0	0	0	8.4	10.4	54.9	2.5	0	-
19	0	0	0	0	0	6.4	1.3	8.6	68	0	0	-
20	0	0	0	0	2.4	0	1	30.5	54.3	0	0	-
21	0	0	0	0	1.8	0	46.7	1.3	8.4	3.6	0	-
22	0	0	0	0	0	0	32	29.7	0	8.4	0	-
23	0	0	0	0	0	0	15.4	50.8	1.4	29	0	-
24	0	0	0	0	3.3	0	0	98.1	3.8	3.6	0	-
25	0	0	1.3	0	3.8	8.2	0	91	0	0	0	-
26	0	0	0	0	38.5	0	0	12.4	0	0	0	-
27	0	0	0	0	1.8	0	51.3	6.1	32.8	0	0	-
28	0	0	0	0	42.2	44.2	140.2	55.6	1.8	0.2	0	-
29	0	0	0	0	1.5	52.6	72.9	163	53.8	0	0	-
30	0	0	0	0	0	41.4	48.8	54.7	0	4.8	0	-
31	0	0	0	0	7.6	0	0	0	0	0	0	-
Total	0	0	1.3	0	271.5	356.4	488.9	735.8	664.4	263.3	85.8	0

Annual 2867.4 mm/year

Daily Rainfall at San Marcelino

Year 1976

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	10	1.3	29.2	0	0	0
2	0	0	0	0	0	0	2.5	26.7	5.1	0	0	8.8
3	1.2	0	0	0	0	0	0	10.1	0	0	0	15.2
4	0	0	0	0	0	0	0	34.3	0	0	0	0
5	0	0	0	0	0	0	0	19.5	0	0	0	0
6	0	0	0	0	0	0	0	12.7	0	0	0	50.8
7	0	0	0	0	2.5	0	0	27.8	0	0	0	0
8	0	0	0	0	0	0	0	9.4	0	0	0	0
9	0	0	0	36.7	25.4	0	0	9.4	0	33	0	0
10	0	0	0	15.3	5.1	0	0	151.2	0	0	0	0
11	0	0	0	0	0	0	0	48.2	0	0	0	0
12	0	0	0	0	15.2	30.5	2.5	0	30.5	0	0	0
13	0	0	0	0	12.7	0	0	8.9	127	0	0	0
14	0	0	0	0	0	0	0	7.6	82.6	0	0	0
15	0	0	0	0	12.7	2.5	0	0	39.4	0	0	0
16	0	0	0	0	0	2.5	78.7	8.9	33	0	0	0
17	0	0	0	0	0	11.3	0	24.2	50.8	0	0	0
18	0	0	0	0	5.1	0	10.1	0	45.7	0	0	0
19	0	0	0	0	122	0	113.5	10.1	0	35.6	0	0
20	0	0	0	0	22.8	10.1	5	0	2.5	0	0	0
21	0	0	0	0	45.7	0	25.4	2.5	15.2	0	0	0
22	0	0	0	0	127	12.7	27.9	165.1	17.8	0	0	0
23	0	0	0	0	363.2	6.3	116.8	43.2	43.2	0	0	0
24	0	0	0	0	218.4	10.2	66	0	0	0	0	0
25	0	0	0	0	114.3	173.9	48.3	0	0	38.1	0	0
26	0	0	0	0	104.1	167.6	15.2	0	0	0	0	0
27	0	0	0	0	198.1	0	0	0	0	0	0	0
28	0	0	0	0	33	27.9	0	0	0	0	0	0
29	0	0	0	0	0	22.7	0	33	73.7	0	0	0
30	0	0	0	0	0	40.7	0	3.8	0	0	0	0
31	0	0	0	0	0	0	27.9	0	0	0	0	0
Total	1.2	0	0	52	1427.3	518.9	549.8	827.1	595.7	106.7	0	74.8

Annual 4153.5 mm/year

Daily Rainfall at San Marcelino

Station: San Marcelino

Year 1977

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	77.4	29.2	0	7.6	0
2	0	0	0	0	0	10.1	20.3	86.4	99.1	0	2.5	0
3	0	0	95.2	0	0	0	12.7	92.7	14.4	0	0	0
4	0	0	0	0	0	5.1	28	53.3	19	0	0	0
5	7.6	0	0	0	0	0	5.1	0	92.6	37.5	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	2.5	37.5	0	0	0	0
8	0	0	0	0	0	0	40.7	10.1	36.8	0	0	0
9	0	0	0	0	0	0	5.1	0	2.5	0	0	0
10	0	0	0	0	0	0	0	2.5	38.1	0	0	0
11	0	0	0	0	0	0	0	0	14.7	0	0	0
12	0	0	0	0	0	12.7	2.5	0	107.8	2.5	0	0
13	0	0	0	0	0	12.7	0	0	7.6	12.7	6.3	0
14	0	0	0	0	0	0	2.5	0	17.8	25.3	439.4	0
15	0	0	0	0	0	0	19.3	111.8	100.2	48.3	67.2	0
16	0	0	0	0	0	0	0	101.6	69.8	0	16.4	0
17	0	0	0	0	0	0	20.3	37.5	43.2	0	0	0
18	0	0	0	0	35.5	0	231.2	85	56.9	0	0	0
19	0	0	0	0	53.3	15.2	10.1	154.9	43.1	0	0	0
20	10.1	0	2	0	0	2.5	37.5	104.2	13.8	0	0	0
21	0	0	0	0	50.8	0	12.5	55.9	0	0	0	0
22	0	0	0	0	22.9	0	6.6	21.5	12.7	0	0	0
23	0	0	0	0	0	0	86.4	0	83.8	0	0	0
24	0	0	0	0	0	0	63.5	0	50.8	0	0	0
25	0	0	0	0	0	5.1	32.1	0	0	0	0	0
26	0	0	0	0	0	3.7	12.5	0	12.7	0	0	0
27	0	0	0	0	12.7	7.6	0	0	12.7	0	0	0
28	0	0	0	0	0	10.1	37.5	0	0	0	0	0
29	0	0	0	0	66	5.1	190.5	0	0	0	0	0
30	0	0	0	0	10.2	0	139.5	69.8	0	0	0	0
31	0	0	0	0	7.6	0	20.2	0	0	0	0	0
Total	17.7	0	97.2	0	259	89.9	1039.1	1102.1	979.3	126.3	539.4	0

Annual 4250 mm/year

Daily Rainfall at San Marcelino

Year 1978

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	48.3	7.6	10.8	1.2	10.2	1	0
2	0	0	0	0	0	33	0	6.8	19.2	2.2	0	0
3	0	0	0	0	0	2.5	0.2	31	6.2	0.8	0	0
4	0	0	0	0	0	0	3.8	111.2	64.8	0	0	0
5	0	0	0	0	0	0	20.4	87.8	7.4	0	0	0
6	0	0	0	0	20.3	0	0	60.8	0	10	0	0
7	0	0	0	0	0	0	11.6	22.6	0.8	31.4	0	0
8	0	0	0	0	0	0	2.6	33.8	10.1	0.9	0	0
9	0	0	0	0	2.5	0	12.2	22.8	29.2	85.6	0	0
10	0	0	0	0	10.1	10.1	0	143.2	2	59.4	0	0
11	0	0	0	0	0	2.5	38.8	126.4	20.2	107.2	0	0
12	0	0	0	0	0	15.2	2.3	170.8	19.4	102.2	7	0
13	0	0	0	0	0	2.5	0	207.8	7.2	43	1.9	0.4
14	0	0	0	0	0	12.7	0	221.6	0.4	4	0	0
15	0	0	0	0	0	10.1	0	62.1	49.8	0.2	0	0
16	0	0	0	0	0	2.3	18.4	2.2	2.2	1.4	0	0
17	0	0	0	0	0	2.3	41.2	4	3.1	29.4	0	0
18	0	0	0	0	0	0	67.8	5.6	1.7	8.3	0	0
19	0	0	0	0	0	0	55.8	26.6	0	0	0	0.4
20	0	0	0	0	0	0.5	42.2	71	9.6	10	27.4	0
21	0	0	0	0	0	9.4	0	16.6	0	2.6	0	0
22	0	0	0	0	7.6	69	3.6	102.4	2.4	0	2.8	0
23	0	0	0	0	0	44.8	17.9	165	25.8	0	7.8	0
24	0	0	0	0	33	46.8	35.2	168.8	0	0	0	0.2
25	0	0	0	0	2.5	0.5	31.4	138.4	3.4	0	0	0
26	0	0	0	0	0	0	88.2	44.1	1.3	49.7	0	0
27	0	0	0	2.5	7.6	10.4	51.8	52.3	89.4	81	0	0
28	0	0	0	0	104.1	0.3	32.9	5.8	76.2	0	0	38.2
29	0	0	0	0	81.3	0	17.8	138	1.2	1.6	0	201.6
30	0	0	0	2.5	58.4	0	51	44.2	33.4	0	0	0
31	0	0	0	0	40.7	0	7	19.6	0	1.9	0	0
Total	0	0	0	5	368.1	323.2	661.7	2324.1	487.6	643	47.9	240.8

Annual 5101.4 mm/year

Daily Rainfall at San Marcelino

Year 1979

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	22.4	0	5	25.4	6	0	0
2	0	0	0	0	0	26	1	20.5	0	110.3	1.8	0
3	0	0	0	2.5	0	2.8	2.3	23	0	74	0	0
4	0	0	0	0	0	0	20	16.8	0.1	0	0	0
5	0	0	0	0	0	0	32.8	65.2	0	0	0	0
6	0	0	0	0	0	0	16	124.2	0.1	0.4	9.7	0
7	0.2	0	0	0	0	32.6	24.6	153.2	0	0.1	4.8	0
8	0	0	0	0.4	0	0	29.4	82.2	0	0	0	0
9	0	0	0	0.6	0	11	5.1	2.2	0	0	0	0
10	0	0	0	0	0	0.8	0	1.2	39.4	1.7	0	0
11	0	0	0	0	0	0	0	67	0.6	3.6	0.4	0
12	0	0	0	0	1.6	11.4	0	65.6	6.4	0	5.7	0
13	0	1.3	0	0	1	38	3.6	131.9	3.9	0	0	0
14	0	0	0	0	40.2	4.7	0	471.8	1.2	0	0	0
15	0	0	0	0	4.1	2.1	0	192.6	1.2	0	1.9	0
16	0	0	0	0	32.3	3	1	142.6	10.7	1	0.6	0
17	0	0	0	0	4.6	3.6	0	25.2	2	0	0	0
18	0	0	0	0	60.2	0.2	0	10.6	19.6	0	0	0
19	0	0	0	0	0	10.6	0	0	116	0	0	0
20	0	0	0	0	8.2	0	0	0	8.1	0	0	0
21	0	0	0	0	0	10.2	0	0	0	5.1	0	0
22	0	0	0	0	2.2	1	0	2.4	0	0	0	33.5
23	0	0	0	0	1.4	25	14.2	0.2	0	0	0	2.9
24	0	0	0	0	61.4	31.4	3.6	0.2	0	0	0	0
25	0	0	0	0	21.4	0	0	0	0	0	0	0
26	0	0	0	0	0.6	0	15.6	0	1	0	0	0
27	0	0	0	2	7.2	13	36	0.8	0	1.9	0	0
28	0	0	0	0	41.4	3	114	1.2	5.5	0	0	0
29	0	0	0	0	3.6	9.2	23.6	11.6	9.5	1.4	0	0
30	0	0	0	0	6.6	4.2	38	46.6	56	0	0	0
31	0	0	0	0	28.6	0	74.4	0.6	0	-	0	0
Total	0.2	1.3	0	5.5	326.6	266.2	455.2	1664.4	306.7	205.5	24.9	36.4

Annual 3292.9 mm/year

Daily Rainfall at San Marcelino

Year 1980

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.8	0	0	0	4.4	40.8	24.2	0	2.8	2.9	1	0
2	0	0	0	0	0	0	2.7	0	23.6	2.5	48.8	0
3	0	0	0	0	0	0	6.6	0	1.6	4	1	0
4	0	0	0	0	0	0	54.4	4.5	0	0	31.6	0
5	0	0	0	0	0	0	0	2.2	1.6	0	78.4	0
6	0	0	0	0	0	8	0	1.8	1	0	10.2	0
7	0	0	0	0.6	0	9.4	0	0	1	0.4	0	0
8	0	0	0	0	0	0	2.8	0	0	0	0	0
9	0	0	0	0	0	0	110.4	0	2.7	0	4	0
10	0	0	15.2	0	0	0	36.4	0	51.1	1.1	0	0
11	0	0	0	0	0	0	0.4	0	46.6	0	0	0
12	0	0	0	0	0	1	0	1.6	113.4	0	4	12.2
13	0	0	0	0	6.8	0	1.2	16.4	71.2	0	0	0
14	0	0	0	0	44.4	0	2.4	0.8	5.8	5	0	0
15	0	0	0	0	1.6	0	1.3	3.4	6.9	0	0	0
16	0	0	0	0	0	0.8	27.6	126.8	38.2	0	0	0
17	0	0	0	1.4	12	0	9.2	21.8	33.2	0	0	0
18	0	0	0	0	0.7	0	0.8	0	44.7	1.8	0	0
19	0	0	0	0	66.2	3	16.8	3.4	0	0	0	0
20	0	0	0	0	2.2	10	113.4	0.6	0	1.8	0	0
21	0	0	0	0	2.2	2.4	65.2	1.4	4.4	4	0	0
22	0	0	0	0	0	2.8	8.5	8.8	0	0	4.8	0
23	0	0	0	0	0	0.2	22.6	0	16.8	2.3	0	0
24	0	0	5.2	0	0	15.2	109	12	2.2	1.6	3.3	0
25	0	0	5.6	0	128.6	0	130.6	16.1	4.8	3	0	0
26	0	0	2.9	0	0	0	39.4	5.4	0	0	0	0
27	0	0	10.1	0	0	0.6	0	65	46.4	0	0	0
28	0	0	0	0	0	11	0	84.8	7.4	40.4	0	0
29	0	0	0	0	18.6	4.4	3.2	39.2	0.4	81.4	0	0
30	0	0	0	4.4	0	2	17.4	0	0.2	5.9	0	0
31	0	0	0	0	0	0	0	10.5	0	0	0	0
Total	0.8	0	39	6.4	287.7	111.6	806.5	426.5	528	158.1	187.1	12.2

Annual 2563.9 mm/year

Daily Rainfall at San Marcelino

Year 1981

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	-	0	0	15	1.6	23.7	0	18.7	0	0
2	0	0	-	0	0	0	9.4	13.8	0	84.4	0	0
3	0	0	-	0	4.6	3.7	18.4	24.8	0	0.4	0.2	0
4	0	0	-	0	0	55	163.2	31.4	30.8	87	5.5	0
5	1.6	0	-	0	0	34	47.4	40.8	0	7	0	0
6	0	0	-	0	0	101.8	0	104.8	12.6	0	0	0
7	0	0	-	0	15.8	98.2	0	162	3.1	0	3.8	0
8	0	0	-	0	0	44.6	5.2	81.4	0	0	0	3.5
9	0	0	-	0	0	62.2	7.9	16	0	0.6	0	0
10	0	0	-	0	0	141.2	4.6	12.3	0	0	0	0
11	0	0	-	0	0	11.2	0	4.2	0	15.2	0	0
12	0	0	-	0	0	141.4	2	27.2	0	11.8	0	0
13	0	0	-	0	0.2	113	14.4	50.1	0	0	0	0
14	0	0	-	0	0	44.7	27.8	24	0	0	0	0
15	0	0	-	0	0	7.6	8.4	49.6	2.4	0	0	0
16	0	0	-	1.3	5.6	23.4	71	45.6	5.2	0	0	0
17	0	0	-	14.6	0	61.2	93.8	119	2.6	0	0	0
18	0	0	-	0	0	42.4	130	80	5.2	0	0	0
19	0	0	-	0	0	23	24	79.5	4.2	0	3.6	0
20	0	0	-	0	29.2	66	18	27.1	5.1	0	0.8	0
21	0	0	-	0	11.6	100.4	7.5	9.6	77.1	3.6	0	0
22	0	0	-	0	0	0	0	11.2	3.9	0	6.2	0
23	0	0	-	12.6	49.2	0	0	1.4	0.3	0	0	0
24	0	0	-	0	0	0	18.4	6.8	0	0	113.2	0
25	0	0	-	28.4	3.4	23.4	0.6	41.1	36	0	8.1	0
26	0	0	-	0	1	0.1	0	14.9	0	0.9	0	10.4
27	0	0	-	0	0	0	11	15.1	0	14.7	0	0
28	0	0	-	0	0	0	2.9	0	0	0.4	0	0
29	0	0	-	0	19.4	0	2.5	11	10.4	0.9	0	0
30	0	0	-	0	3.6	9	0	0.4	161.6	0	1.3	0
31	0	0	-	0	2	0	0	0	0	0.1	0	0
Total	1.6	0	0	56.9	145.6	1222.5	690	1128.8	360.5	245.7	142.7	13.9

Annual 4008.2 mm/year

Daily Rainfall at San Marcelino

Year 1982

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	23.8	0	5.7	0	0	0
2	0	0	0	25.2	0	0	132	0	18.1	0	0.2	0
3	0	0	0	0	0	0.5	80.6	6.1	30.4	0	0	0
4	0	0	0	0	0	0	112.8	48.5	91	2.2	0	0
5	1.9	0	0	0	0	25.7	3.6	65.2	79.6	0	0	0
6	0	0	0	0	0	0	4.6	51.7	30.1	0	0	0
7	0	0	0	0	0	12	7.6	36.2	5.1	0	0	0
8	0	0	0	0	0.4	8	5.2	18.8	0.4	1	0	0
9	0	0	0	0	0	0	0	60.5	95.3	0	14	0
10	0	0	0	0	0	77.6	24	19	23.8	44	0	0
11	0	1.8	0	0	8.8	23.4	51	36.4	5.2	0	0	0
12	0	0	0	0	2.2	0.4	4.4	11.2	0	0	11.6	0
13	0	0	0	4.2	0	0	5.2	0.2	0	0.6	6.6	0
14	0	0	0	0	24	18.3	3.6	145.2	0	0.3	0	0.4
15	0	0	0	0	0	0	153	0.2	0	88.9	0	0
16	0	0	0	0	0	5.5	13.6	0.8	10.8	0	0	0
17	0	0	0	0	6.2	0	0	0	2.7	1.3	0	3
18	0	0	0	0	2.8	0	9.6	0	1.8	3.9	0	3.7
19	0	0	0	0	0	2.4	3.6	31.9	9	0	0	0
20	0	0	0	0	0	0	2.1	4.3	0.7	1.3	0	0
21	0	0	0	0	0	0	0	1.5	4.8	0	0	0
22	0	0	0	0	0	6.2	20.7	0.2	32	0	0	0.6
23	0	0	0	0	3.6	64.1	17.7	64.7	46.7	0	0	0
24	0	0	0	0	21.6	187.5	13.6	154.6	49.6	0	0	0
25	0	0	0	0	0	15.4	38.2	71.8	39.4	0	0	0
26	0	0	0	0	0	60.6	3	2.1	0.1	0	0	4.4
27	0	0	0	0	8.8	72.2	84.5	19.1	0	0	0	3.6
28	0	0	0	0	0	24.2	16.3	2.4	0	0	0	0
29	0	0	0	0	0	55.8	31	11	14.8	0	0	0
30	0	0	0	0	0	48.3	38.8	29	3.6	0	0	0
31	0	0	0	0	17	0	15.8	4.4	0	0	0	0
Total	1.9	1.8	0	29.4	95.4	708.1	919.9	897	600.7	143.5	32.4	15.7

Annual 3445.8 mm/year

Daily Rainfall at San Marcelino

Year 1983

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	28.2	0.6	2.8	10	0	0
2	0.6	0	0	0	0	0	0	0.2	1.2	51.6	2.5	0
3	0	0	0	0	0	1.6	8.7	6.2	0	0.4	0	0
4	0	0	0	0	0	79.8	0	17.6	11.2	4	0.2	0
5	0	0	0	0	0	72	0	8.4	3.8	5.6	0	0
6	0	0	0	0	0	35.2	0	0	1.6	10.4	0	0
7	0	0	0	0	0	9.2	0	45	6.5	0	0	0
8	0	0	0	0	0	0	0	16	0	41.8	0	0
9	0	0	0	0	0	0	0	6.7	8.3	0.3	0	0
10	0	0	0	0	0	0	7.5	81.4	0	0.7	0	0
11	0	0	0	0	0	0	14.8	45	0	67.2	0	0
12	0	0	0	0	0	0.4	0	26.8	16.6	53.3	0	0
13	0	0	0	0	0	0	0.6	108.4	3	0	0	0
14	9.7	0	0	0	0	0	10.4	75	0	1.7	0	0
15	0	0	0	0	0	0	198	113.4	0	0	0	0
16	0.6	0	0	0	0	0	47.4	190.3	0	0.4	0	0
17	0	6	0	0	0	0	0	6.1	21.6	0	0	0
18	0	0	0	0	0	0	0	18.7	0	0	0	0
19	0.4	0	0	0	0	0	4.8	3	0	0	0	0
20	0	0	0	0	0	0	0	3.5	11.8	4.8	0	0
21	0	0	0	0	0	0	1.3	0	4.8	58.4	0	0
22	1.8	0	0	0	0	0	0.6	1.8	0	0.3	0	0
23	0	0	0	0	0	0	2	3.5	0.4	0	0	0
24	0	0	0	0	0	14.1	42	6.4	10.6	0	0	0
25	0	0	0	0	0	0	22.6	35.4	43.8	0.9	0	0
26	0	0	0	0	0	0	0	4	214.2	0	0	0
27	0.3	0	0	0	0	14	5	0	86.4	2.8	0	0
28	2	0	0	0	0	0.8	0	8.2	13.5	0.5	0	0
29	0	0	0	0	0	0	0	0	0	1.2	0	0
30	0	0	0	0	0	0	0	2	0	0	0	0
31	0	0	0	0	0	0	1.4	0.5	0	1.3	0	0
Total	15.4	6	0	0	0	227.1	395.3	834.1	462.1	317.6	2.7	0

Annual 2260.3 mm/year

Daily Rainfall at San Marcelino

Year 1984

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	1.6	0	10.1	78.7	0	0	0	0
2	0	0	0	0	1	15.2	11.2	65.4	0	0	0	0
3	0	0	0	0	11.2	4.6	5.8	4.1	0	33.4	0	0
4	0	0	0	0	0.4	3	0	58.4	1.4	0.3	0	4.8
5	0	0	0	0	1.1	15.6	0.2	42.4	5.6	0.5	0	0
6	0	0	0	0	6.4	0	155.8	141.6	0	5.1	0	0
7	0	0	0	0	28.6	15	0	152.6	0	3.1	15.9	0
8	0	0	0	0	0	0.6	0	26.9	0	14.6	0	0
9	0	0	0	0	0	0	0	5.1	0.1	49.8	1.7	0
10	0	0	0	0	0	0	61.2	7.5	0.4	30.2	0.2	0
11	0	0	0	0	9	1.4	0	5	1	0	0	0
12	0	0	1.2	0	4.8	11.4	0	6.6	30.8	0	0	0
13	0	0	0	0	1.6	0	0	7.2	5.9	0	0	0
14	0	0	0	0	3.4	9.2	0	8.1	0	8.8	0	0
15	0	0	0	4	0	32.7	0	56.5	0.4	0.6	0	0
16	0	0	0	25	17.2	55	0	4	0.4	0	0	0
17	0	0	0	0	48.4	59.6	0	88.4	6.8	0	0	0
18	0	0	0	0	0	39	0	0.8	0.1	0	0	0
19	0	0	0	0	2.4	15	0	0.2	29.2	2.4	0	0
20	0	0	0	8.1	0	26.2	0	0.8	0.3	15	0	0
21	0	0	0	0	10.4	51.2	0	5.7	2.2	2.2	0	0
22	0	0	0	0	0.9	106.4	0	3.2	48.4	0.4	0	0
23	1.4	0	0	0	27.4	58	0	11.5	0	6.1	0	0
24	0	0	0	22.1	16.4	66.2	30.6	5.5	0	1.2	0	0
25	0	0	0	0	0.6	73	2.8	9.7	1.3	0.1	0	0
26	0	0	0	3.8	0	64	20.2	10.8	14.5	21.6	1.9	0
27	0	0	0	0	3.4	32.4	22.4	23.2	22.5	6.3	0	0
28	0	0	0	0	0	25	1	94.8	1	10.2	0	0
29	0	0	0	23.1	0	45.4	2.2	4.8	0	131.2	0	0
30	0	0	0	12.8	3.8	60	29.8	3.7	0	0	0	0
31	0	0	0	0	0	0	10.2	0.8	0	0.6	0	0
Total	1.4	0	1.2	98.9	200	885.1	363.5	934	172.3	343.7	19.7	4.8

Annual 3024.6 mm/year

Daily Rainfall at San Marcelino

Year 1985

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	1	37	35.6	0	2.3	1	0
2	0	0	0	0	0	2	0.2	12.2	41.6	0	1	0
3	0	0	0	0	0	0.4	0	10	32.3	0	0	0
4	0	0	0	4.4	0	81.2	1.7	17	66	4.3	0	0
5	0	0	0	0	1	0.2	56.4	15.2	21.8	0	0	0
6	0	0	0	0	1.4	0.4	153	31.9	3.6	6	0	0
7	0	0	0	0	0	6.6	6.6	2.4	16.4	6.6	0	0
8	0	0	0	0	0	8.2	7	26.2	27	0	0	0
9	0	0	0	0	0	57.3	6.1	78.6	0.1	0	0	0
10	0	0	0	0	0.2	36.3	0	105	0	0	0	0
11	0	0	0	0	0	1.3	0	100	13.2	1.3	0	0
12	0	0	0	0	0	1.1	0	14.7	1.6	11	0	0
13	0	0	0	0	0.1	16.3	0	120.3	0.5	0	1	0
14	0	0	0	0	0.2	40.3	16	29.5	0	0	0	0
15	0	0	2.4	0	1.6	84	51.6	1.2	0	0	0	0
16	0	0	0	0	0	25.8	0.5	7	10.6	0	0	0
17	0	0	0	11.6	0	116.8	0	40	11.6	0	29.4	0
18	0	0	0	0	0	64.5	0	11	16.1	55.7	34.4	0
19	0	0	0	0	0	8.5	13.5	10.6	17.2	119.5	0	0
20	0	0	25	5.3	0	22.3	2.6	13.1	0	0	0	0
21	0	0	2.6	0	0	19.8	10	13.6	63.1	0	0	0
22	0	0	0	0	0	21	0	40.1	0	0	0	0
23	0	0	0	7.5	0	14	1.8	5.8	0	1.8	4.2	0
24	0	0	0	0	0	76.6	0	10	31.8	67.4	0	0
25	0	0	0	0	0	61.2	0	11	0	22.8	2	0
26	0	0	0	0.3	0	264.2	0	27	54.8	7	0	0
27	0	0	0	0.7	8.6	280.6	51	14	0	11.2	9	0
28	0	0	0	0	15.8	7.5	18.7	8.4	0	0	0	0
29	0	0	0	0	25.6	0.8	0	0.6	11.8	0	0	0
30	0	0	0	0	0.1	1.5	7.4	0	0	0	0	0
31	0	0	7.8	0	0.2	0	8.4	0	0	15	0	0
Total	0	0	37.8	29.8	54.8	1321.7	449.5	812	441.1	331.9	82	0

Annual 3560.6 mm/year

Daily Rainfall at San Marcelino

Year 1986

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	51.6	52.6	68.6	66	6.4	0	0
2	0	0	0	0	0	0	27.2	103	115	0	0	0
3	0	0	0	0	0	0	29.6	59	61.6	0	0	0
4	0	0	0	0	0	0	15	2.9	26.8	8	0	0
5	0	2.6	0	0	0	0	15	1.6	10	19	0	0
6	0	0	0	0	0	0	10	4	11.2	46	4	0
7	0	0	0	0	0	0	37.4	11.2	0	6	1	0
8	0	0	0	0	0	0	217.2	26.6	0	7	37	0
9	0	0	0	0	0	0	149.4	36.8	0	0	0	0
10	0	0	0	0	0	0	153	0	0	15	0	0
11	0	0	0	0	0	0	33.2	0	0	28.6	5.2	0
12	0	0	0	0	3.6	5.3	0	1.7	0	23	15.8	0
13	0	0	0	0	8.8	0	14	4.8	9	27	39.6	0
14	0	0	0	0	30	4	43	60.6	70	3.2	15	0
15	0	0	0	0	22.3	42.3	11.2	0	27.1	0	0	0
16	0	0	0	0	20	4.5	24.2	25	22.6	0	15	0
17	0	0	0	0	6.8	19.2	20	11.4	31.2	0	0	0
18	0	0	0	0	47	2.8	24	37.8	11.8	0	0	0
19	0	0	0	0	0	2	15	2.4	40.2	21.7	2.2	0
20	0	0	0	0	0	0	10.6	22	40.6	2	0	0
21	0	0	0	0	51	37	9.1	30.4	27.6	0	0	0
22	0	0	0	0	17.6	73.4	17.1	12.6	23.4	0	0.8	1.1
23	0	0	0	0	5.1	71	0	106	0	0	0	0
24	0	0.1	0	0	57.4	0	0	149	20.1	0	0	0
25	0	0	0	0	2	0	0	210.4	1.5	0	0	0
26	0	0	0	0	0	0	0	28.2	0	0	0	0
27	0	0	0	0	0	0	9.8	70.6	0	0	1.6	0
28	0	0	0	0	5.1	0	0	50.8	0	0	0	0
29	0	0	0	0	0	9	2.7	113.4	0	0	0	0
30	0	0	0	0	1.6	7.3	90	85	0	0	0	0
31	0	0	0	0	0	0	11	28.4	0	0	0	0
Total	0	2.7	0	0	278.3	329.4	1041.3	1364.2	615.7	212.9	137.2	1.1

Annual 3982.8 mm/year

Daily Rainfall at San Marcelino

Year 1987

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	20	-	0	143.1	0	0	0
2	0	0	0	0	0	0	-	3	14.8	0	9	0
3	0	0	0	0	0	0	-	7.8	0	0	0	0
4	0	0	0	0	0	1.8	-	0	0	1.2	0	0
5	0	0	0	0	0	5.8	-	0.4	20	0	0	0
6	0	0	0	0	0	4	-	0	37	0	0	0
7	0	0	0	0	0	6	-	0	64.4	0	0	0
8	0	0	0	0	0	7.3	-	0	49	0	0	0
9	0	0	0	0	4.6	51.6	-	2.7	19.6	0	0	0
10	0	0	0	0	0	34.8	-	0.5	0	0.2	0	0
11	0	0	0	1	0	117.2	-	10	2.4	4	0	0
12	0	0	0	0	0	70	-	12.3	7	0.9	0	0
13	0	0	0	0	0	38	-	0	0	41.2	0	0
14	0	0	0	0	0	20	-	0	47.8	0	0	0
15	0	0	0	0	0	25.8	-	15.8	31.4	0	6.9	0
16	0	0	0	0	0	41.4	-	6	0	0	1	0
17	0	0	0	0	0	34.4	-	132.2	4	0	0	3.7
18	0	0	0	0	0	48.4	-	123	0	9.8	0	0.2
19	0	0	0	0	0	0	-	4.2	0	56.6	0	0
20	0	0	0	0	0	0	-	0	2	0	0	0
21	0	0	0	0	19.2	0	-	0	0.6	25.2	8	0
22	0	0	0	0	0	0	-	0	6.8	0	3.2	0
23	0	0	0	0	0.8	16.2	-	32	0	5.2	0	0
24	0	0	0	0	4	4	-	10.8	0	10	2.2	0
25	0	0	0	0	10.1	72	-	0	0.2	0	9.2	0
26	0	0	0	0	0	3.2	-	0.2	10	0	11.7	0
27	0	0	0	0	3.4	2	-	10.6	11.2	0	0	0
28	0	0	0	0	0	3	-	3.2	9.2	0	0	0
29	0	0	0	0	5	0	-	38	4	0	0	0
30	0	0	0	0	10.8	13.6	-	51.2	8.2	0	0	0
31	0	0	0	0	0	0	-	1.8	0	0	0	0
Total	0	0	0	1	57.9	640.5	0	465.7	492.7	154.3	51.2	3.9

Annual 1867.2 mm/year

Daily Rainfall at San Marcelino

Year 1988

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	100	10.2	66	0	2	0	0
2	0	0	0	0	0	70	15	0	0	0	0	0
3	0	0	0	0	0	24	15.2	0	1.8	5	0	0
4	0	0	0	25.8	0	12	0	0.7	0	1.8	25	0
5	0	0	0	0	0	20	0.8	62.2	0	99	0	0
6	0	0	0	0	0	20	0	58	0	9.2	0	0
7	0	0	0	0	35.8	0	0	60	0	0	6.6	0
8	0	0	0	0	0	0	0	60	1.8	26	1.2	0
9	0	0	0	3.2	0	26	3.4	1.3	2.3	30	13.3	0
10	0	0	0	0	0	24	20	8.7	0.9	19	0	0
11	0	0	0	0	0	3	0	0	9	17.4	0	0
12	0	0	0	0	0	0	5.7	8.3	0	0.6	0.7	0
13	0	0	0	17	0	0.8	0.6	0	9	40	0	0
14	0	0	0	0	0	7.5	0.8	3.6	2.4	0	0	0
15	0	0.8	0	0	0	29.6	6	1.8	7	0	0	0
16	11.8	0	0	0	0	1	5	0.8	10	0	0	0
17	0	3.3	0	0	50	0	50	0	6.2	0	0	0
18	0	0	0	0	6.4	0	68.8	0	0	12.4	0	0
19	0	0.4	0	0	0.4	0	30.4	0	9.8	14.7	0	0
20	0	6.2	0	0	0	45.4	0	5	100.6	54.2	0	0
21	0	0	0	0	0	0.6	6.6	9.2	11.4	21	0	0
22	0	0	0.1	0	4	50	1.2	0	9.2	0	0	0
23	0	0.3	0	0	3	10.6	7	0	9.9	12	0	0
24	0	0	0	0	8	32	0	31.8	0	50	0	0
25	0	0	0	0	101	50	6.1	2.1	0	88	0	0
26	0	0	0	0	59	0	5.9	0	0.3	10.8	0	0
27	0	0	0	0	35	4.8	28.2	8	9.5	26.2	0	0
28	1	0	0	0	40	22.8	134.7	10	13.4	15	0	0
29	0	0	0	0	60	0	64.2	0	20.8	0	0	0
30	0	0	0	0	65	0	100	0	3	0	0	0
31	0	0	0	0	50	0	20	0	0	0	0	0
Total	12.8	11	0.1	46	517.6	554.1	605.8	397.5	238.3	554.3	46.8	0

Annual 2984.3 mm/year

Daily Rainfall at San Marcelino

Year 1989

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	1.2	0	2	25	0	57.6	20	43	0	0
2	0	0	0	25.3	2	30	0	37.4	14	0	0	0
3	0	0	0	0	1	0	0.6	78.4	50	1.6	0	0
4	0	0	0	0	3.4	0	0	59.4	32.2	0	0	0
5	0	0	3	0	0.6	0	23	100	21.4	0	0	0
6	0	0	10.3	0	0	18.3	4	66.6	1.8	0.8	0	0
7	0	0	0	0	0	10	2	45.6	8.6	11	0	0
8	0	0	0	0	0	0	30	40.2	36.8	8	0	0
9	0	0	0	0	25	40	24.2	9.2	100	0	0	0
10	0	0	0	0	0	0	0	18.8	100	22.2	0	0
11	0	0	0	0	0	0	0.3	11	64.5	91	0	0
12	0	0	0	0	0	0	0	0	86.2	0	0	0
13	0	0	0	0	0	0	0	18	26.2	0	0	0
14	0	0	0.6	0	20	42.8	0	23	6.6	0	0	0
15	0	0	4.8	0	12	0	135	27.6	40	0	0	0
16	0	0	0	0	10	0	104	13.8	40	0	0	0
17	0	0	0	0	50	0	120.2	24	33	0	0	0
18	0	0	0	0	100	0	5.9	51.2	0	0	0	0
19	0	0	0	0	0	0	0	100	0	43	0	0
20	1.3	0	20.4	0	11	3.4	0	100	0	2.2	0	0
21	0	0	25.2	0	0	22.7	63.6	45.4	0	0	2.3	0
22	0	0	0	0	0	54.9	0	34.2	0	4	52.2	0
23	0.2	0	0	0	4.4	3.6	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	3	0	25.4	0	0	0	0	0
26	0	0	0	12.6	2	0	63	0	29.2	0	0	0
27	0	0	0	7	3	3.9	16.8	0	14.5	0	0	0
28	0	0	0	7.7	0	1.3	31.6	0	13.1	0	0	0
29	0	0	0	0	0	2.1	45	0	0	0	0	0
30	0	0	9	0	0	0	33	4	0	0	0	0
31	0	0	0	0	0.2	0	62.4	5.4	0	0	0	0
Total	1.5	0	74.5	52.6	249.6	258	790	970.8	738.1	226.8	54.5	0

Annual 3416.4 mm/year

Daily Rainfall at San Marcelino

Year 1990

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	138	5	35.6	55	3.2	0	0
2	0	0	0	0	0	20	14.4	2.6	50	0	0	0
3	0	0	0	0	0	15	3.9	0	34.6	0	3	0
4	0	0	0	0	0.3	0	0	3.4	7.8	0	3.8	0
5	0	0	0	0	0	0	1.3	0	16	0	0	0
6	0	0	0	0	0	0	0	0	44.1	0	2.8	0
7	0	0	0	0	0	13.8	17	0	35.6	0	1.4	0
8	0	0	0	0	0	0	16	0	59.9	0	0	0
9	0	0	0.3	0	0	0	67.8	0	20	0	0	0
10	0	0	0	0	0	2.7	21.6	1.6	0	0	0	0
11	0	0	0	0	0	0	1.8	0	0	0	6.6	0
12	0	0	0	0	0	0	1.8	0.2	3.8	0	0	0
13	0	0	0	0	0	0	2.3	0.7	0	3	25	0
14	0	0	0	0	17	64	0	0	0	2.5	0	0
15	0	0	0	0	0	40.6	5.4	4.3	45	0	0	0
16	0	0	0	0	0	30	0.4	56.6	10.8	38	0	0
17	0	0	0	0	24	20	2.5	41.6	16.7	24.8	0	0
18	0	0	0	0	0	8	0	30	0	0	2.6	0
19	0	0	0	0	0	10.4	3.1	12.4	0	0	0	0
20	0	0	0	0	5.3	28.8	9.2	15.8	0.3	10.6	0	0
21	0	0	0	0	0.6	126	0	11.8	0	0	0	0
22	0	0	0	0	12	99.8	0	27.8	0	0	0	0
23	0	0	0	0	0.6	87	41.5	200	43.3	0	0	0
24	0	0	0	0	0.1	60	68.8	139.8	0	0	0	0
25	0	0	0	0	0	70.6	17.2	30	43.3	0.4	0	0
26	0	0	0	0	0.2	138	50.6	70	16.7	0	1	0
27	0	0	0	0	70	96.2	40	52.3	36.6	0	0	0
28	0	0	0	0	45	55.2	105	64.6	19.6	0	0	0
29	0	0	0	0	30.7	13.7	130.7	19.8	24.8	2.6	0	0
30	0	0	0	0	29	20	19.6	9.2	0	0	0	0
31	0	0	0	0	25	0	25.6	52.6	0	0	0	0
Total	0	0	0.3	0	259.8	1157.8	672.5	882.7	583.9	85.1	46.2	0

Annual 3688.3 mm/year

Daily Rainfall at San Marcelino

Year 1991

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	5	0	1	25.4	200	3.8	0	0
2	0	0	0	0	5	0	0.3	4.2	133.4	0	0	0
3	0	0	0	0	5.1	0	2.6	0	57	2.5	0.1	0
4	0	0	0	0	5	0	0	2.1	71.6	0.2	0	0
5	0	0	0	0	0	0	0	66.2	0	0	0	0
6	0	0	0	0	0	0	0	8.8	20.2	0.6	0	0
7	0	0	0	0	0	0	0	0	97.2	0	2	0
8	0	0	0	0	0	0	0	1.6	60	0	0	0
9	0	0	0	0	0	0	18.3	3	79.7	0	0	0
10	0	0	0	0	0	0	6.9	35	1.8	0	0	0
11	0	0	0	0	20.2	0	5.8	25	0	0	0	0
12	0	0	0	0	0	0	6.3	7.4	0	0	0	0
13	0	0	0	0	0	5	0	100.1	40.7	0	0	0
14	0	0	0	0	0	0	0	45.6	0	1.8	0	0
15	0	0	0	0	0	50	0	88.6	37.8	0	0	0
16	0	0	0	0	0	0	0	65.8	68.4	1.4	0	0
17	0	0	0	0	2	45	1.2	109	24.4	0	33	0
18	0	7.7	0	0	0	5	65	102	19.7	0	12.2	0
19	0	0	0	10	0.6	50	61.8	162.9	46.2	0	0	0
20	0	0	0	5	0	0	10	114.3	42.6	2	0	0
21	0	0	0	2.8	0	22	20.4	43.3	0.4	0	0	0
22	0	0	0	0	0	53	115	15.3	18	0	0	0
23	0	0	0	0	11.6	220	24.8	63.4	25.4	0	0	0
24	0	0	0	0	0	0	48.8	101	8.1	0	0	0
25	0	0	0	0	0	0	130.1	32	6.5	0	0	0
26	0	0	0	0	0	0	47	15.8	1.2	0	0	0
27	0	0	0	0	0	0	45	16.2	17	26.6	0	0
28	0	0	0	0	0	0	8	72.4	53	41.6	0	0
29	0	0	0	0	0	0.4	0	29.6	80	0.7	0	0
30	0	0	0	6.8	0	0.9	0	7.8	32.2	1	0	0
31	0	0	0	0	0	0	6.4	29.2	0	0	0	0
Total	0	7.7	0	24.6	54.5	451.3	624.7	1393	1242.5	82.2	47.3	0

Annual 3927.8 mm/year

Daily Rainfall at San Marcelino

Year 1992

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	16	16	0	21.5	0	0.3	0
2	0	0	0	0	0	0	0.8	0	30.1	2.6	0	0
3	0	0	0	0	0	0	13	0	35.1	0.6	0	0
4	0	0	0	0	0	0	0	4.5	47.6	22	0	0
5	0	0	0	0	0	0	0	0	60	40.4	0	0
6	0	0	0	0	0	0	0	1.2	32	0	0	0
7	0	0	0	0	0	1	0	0.4	5.8	0	0	0
8	0	0	0	0	0	0	0	10	13.6	0	0	0
9	0	0	0	0	0	10	0	13	8.5	0	0	0
10	0	0	0	0	0.6	0	3	8	24.9	0	0	0
11	0	0	0	0	0	0	35	0.8	0.2	15.6	9.8	0
12	0	0	0	0	2	0.4	5.2	0	0	0	7.3	0
13	0	0	0	0	0	0	10	12.2	0	0	0	0
14	0	0	0	1.3	3	5	40	49.8	0.1	16.4	0	0
15	0	0	0	0	1.8	0	11	65	29.6	3	0	0
16	0	0	0	0	0	6.2	5	83.3	1.6	11.2	0	0
17	0	0	0	0	11.6	0	22	61.8	1.2	10	0	0
18	0	0	0	0	0	20	40	74.8	0	0.8	0	0
19	0	0	0	0	0	15	84	106.7	10	0	0	0
20	0	0	0	0	0	0	110	90	190	0.2	0	0
21	0	0	0	0	0	7.4	31.2	60	67.8	6	0	0
22	0	0	0	0	0	0	0	20	43.6	0	0	0
23	0	0	0	31.7	0.6	2.4	7.2	20.1	0	0	0	0
24	0	0	0	0	0	1	0	17	0	0	0	0
25	0	0	0	0	4	20	3	95.6	0.2	30	0	0
26	0	0	0	0	0	70	43	61.8	0	2.8	0	0
27	0	0	0	0	10	14	2	49.2	0	0	0	0
28	0	0	0	0	5	50.8	51	69	0	0	0	0
29	0	0	0	0	39	30.6	3	65	22.7	0	0	0
30	0	0	0	0	20	10	2.6	54.4	0	0	0	0
31	0	0	0	0	3.4	0	3	23	0	0	0	0
Total	0	0	0	33	101	279.8	541	1116.6	646.1	161.6	17.4	0

Annual 2896.5 mm/year

Daily Rainfall at San Marcelino

Year 1993

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	16.6	1	7	0
2	0	0	0	0	0	0	30	0	89	11	2	4.6
3	0	0	0	0	0	11.4	29.4	2	35	13	0	0
4	0	0	0	0	0	0	0	5.5	16	111.2	0	0
5	0	0	0	0	0	0	0	16	5.2	281.4	0	0
6	0	0	0	0	0	0	50	0.8	34.4	150	0	0
7	0	0	0	0	0	0	0	45.6	81.6	53	0	0
8	0	0	0	0	0	0	5.2	60	16.7	0	0	0
9	0	0	0	0	0.4	0.4	13.4	52.8	51.5	0	0	0
10	0	0	0	0	0	0	0	1.2	10	0	0	0
11	0	0	0	0	0	0	1.4	28.4	35	0	0	4.6
12	0	0	0	0	0	0	0	52.2	17	4.1	0	0
13	0	0	0	1	0	0	0	74	0.4	0.4	4.6	0
14	0	0	0	0	0	0	0	0	0.2	0	0	0
15	0	0	0	0	0	14	31	0	63.9	0.4	8	1.7
16	0	0	0	0	0	18.8	6	8.4	22.8	0	0	0
17	0	0	0	1	0	0	12	108.7	0	0	0	0
18	0	0	0	0.8	0	0.2	0	181.3	33.2	0	0	0
19	0	0	0	0	0	4	0	86.2	0	36	0	0
20	0	0	1	0	0	3	0	0	0.4	0	0	0
21	0	0	0.4	0	0	0	27.2	0	0	0	5	0
22	0	0	0	0	0	0	6	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0.3	0	0	0
24	0	0	0	0	0	4.2	23	0	5	0	0	0
25	0	0	0	0	0	100.2	20.5	0	0	0	0	0
26	0	0	0	0	0	129	76.4	0	0	0	7	0.8
27	0	0	0	0	0	0	115.2	0	0	0	0	0
28	0	0	0	0	0	0	103.6	0	33.8	0	0	0
29	0	0	0	0	0	0	96.3	0	3.4	0	0	0
30	0	0	0	0	0	0	155.4	0	2.2	9.4	0	0
31	0	0	0	0	0	0	32.6	0	0	0	0	0
Total	0	0	1.4	2.8	0.4	285.2	834.6	723.1	573.6	670.9	33.6	11.7

Annual 3137.3 mm/year

Daily Rainfall at San Marcelino

Year 1994

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	4.4	2.6	0	16.5	3.5	15	0	0
2	0	0	0	0	0	3	25	28	7.5	6	0	0
3	0	0	0	0	0	0	25	6	16	0	0	0
4	0	0	0	0	2.3	15	32.7	0.5	24	0	0	0
5	0	0	0	0	0	36	6.8	0	6.2	0	0	0
6	20.4	0	0	0	0	0	33.7	25	0	0	3.4	0
7	0	5.6	0	0	0	14.8	43	25	5	2	0.4	0
8	0	0	0	0	16	0	17.3	0	13	0	0	0
9	0	3	0.2	0	0	0	26.3	0	2	1	0	0
10	4.2	0	0	0	3	10	24	0	6	13.4	0	0
11	0	0	0	0	16.6	0	41	0	10	0	0	0
12	0	0	0	0	0	0	11	0	9.4	0	0	0
13	0	0	0	0	0	12.8	3	0.8	13	0	0	0
14	0	0	0	0	2.8	1.7	16.3	0	0	6.2	0	0
15	0	0	0	0	0	0.2	10.6	0	8	0	0	0
16	0	0	0	0	0	5.6	10.2	2	20.6	0	0	0
17	0	0	0	0	0	22.9	25	0	0	0	0	0
18	0	0	0	0	51	10	112.4	0	0	0	0	0
19	0	0	0	0	3.6	10	51	40	2	0	0	0
20	0	0	0	0	10	44.5	21.1	4	25	0	0	0
21	0	0	0	0	0	0.2	51	5	15	17.2	0	0
22	0	0	0	0	17.8	60.8	32.5	0	6	1	0	0.4
23	0	0	0	0	0	76.6	20	10	0	0	0	0
24	0	0	0	0	11	10.4	24	32	0	0	0	0
25	0	0	0	0	17.2	0	9.6	52	3	0	0	0
26	0	0	0	0	16	0	14	18	10.2	0	0	0
27	0	0	0	0	1.6	4	8	0	15	0	0	0
28	0	0	0	0	0	2.4	23	8	0	0	0	0
29	0	0	0	40	0	3.1	40.2	8.2	0	0	0	0
30	0	0	0	0	0	3.7	18	0	0	0	0	0.4
31	0	0	0	0	0	0	4.2	10	0	0	0	0
Total	24.6	8.6	0.2	40	173.3	350.3	779.9	291	220.4	61.8	3.8	0.8

Annual 1954.7 mm/year

Daily Rainfall at San Marcelino

Year 1995

Source: PAGASA

(Unit: mm)

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	5.8	0	0	0	96.4	0	27
2	0	0	0	0	0	25	8	7.6	2	0	0	0
3	0	0	0	0	0	10	12	0	55.7	0	61	0
4	0.4	0	0	0	0	13.6	9	0	30	0	6.4	0
5	0	0.6	0	0	0	8	0	0	17	2	2.6	0
6	0	0	0	0	0	21	5	0	66.2	0	0	0
7	0	0	0	0	0	11	13	5	1	10	0.4	0
8	0	0	0	0	0	0	0	10.2	2	31.8	0	0
9	0	0	0	0	0	0	14	15	0	15	0	0
10	0	0	0	0	0	0	12	5	7	11	0.6	0
11	0	0	0	0	0	0	0	0	30	9	6	4.7
12	0	0	0	0	4	0	2	0	58	0	0	4
13	0	0	0	0	10	0	10	0	76	0	0	0
14	0	0	0	0	38	20.2	15	6	78	0	32.4	0
15	0	0	0	0	25	11	2	7	95	0	0	0
16	0	0	0	0	17	0	0	0	35	8	7	0
17	0	0	0	0	7	0	0	2.8	59.8	12	0	0
18	0	0	0	0	2	0	0	7	65	0	0	0
19	0	0	0	0	0	2.8	12	10	10	0	0	0
20	0	0	0	0	0	0	0	19	8.8	0	0	0
21	0	0	0	0	6.6	0	12.4	15	50	22.8	0	0
22	0	0	0	0	10	0	7	8.6	0	0	0	0.2
23	0	0	0	0	6	0	10	12	0	31.6	21	4
24	0	0	0	0	1	0	0	19.2	0	8	0	2
25	0	0	0	0	5	6	0	7	4.4	0	0	0
26	0	0	0	0	11.8	0	14	2.8	0	0	0	0
27	0	0	0	0	0	0	10	31	0	0	0	0
28	0	0	0	0	20.8	15	20.6	70	20	0	0	0
29	0	0	0	0	5	20	35	100	5.2	2	0	0
30	0	0	0	0	0	5	6	64.7	90.8	0	0	0
31	0	0	0	0	0	0	0	6	0	0	0	0
Total	0.4	0.6	0	0	169.2	174.4	229	430.9	866.9	259.6	137.4	41.9

Annual 2310.3 mm/year

A2 Hourly Rainfall

Hourly Rainfall Record at San Fernando

Station ID: 01
 Station Name: Region III, DPWH, San Fernando, Pampanga
 Year: 2002
 Month: June
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total	
1																										0.00
2																										0.00
3																										0.00
4																										0.00
5																										0.00
6																										0.00
7																										0.00
8																										0.00
9																										0.00
10																										0.00
11																										0.00
12																										0.00
13																										0.00
14																										0.00
15																										0.00
16																										0.00
17																										0.00
18																										0.00
19																										0.00
20																										0.00
21																										0.00
22																										0.00
23																										0.00
24																										0.00
25																										0.00
26																										0.00
27																										0.00
28																										0.00
29								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	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
31																										0.00

Hourly Rainfall Record at San Fernando

Station ID: 01
 Station Name: Region III, DPWH, San Fernando, Pampanga
 Year: 2002
 Month: July
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total	
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	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	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	21.08	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.35
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.25	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.78	0.25	0.00	0.25	12.19
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.51	3.30	2.03	1.52	0.00	13.97	2.03	24.38	
6	6.35	1.52	0.00	1.02	0.76	7.11	1.78	3.81	8.89	6.10	3.30	2.54	1.27	1.27	5.33	4.83	1.27	0.25	8.64	6.86	2.29	1.27	1.27	2.54	80.27	
7	10.41	10.67	6.10	10.16	10.16	28.96	10.16	13.97	10.92	17.78	16.26	10.67	11.18	12.95	20.32	5.84	10.16	4.32	7.87	9.14	3.30	12.45	1.78	1.78	257.31	
8	6.60	3.05	9.14	2.03	0.25	0.25	5.84	8.64	9.91	2.29	11.94	4.06	3.81	10.16	4.57	1.27	5.59	3.81	1.27	1.27	0.00	3.30	0.51	5.08	104.64	
9	3.30	0.25	2.03	4.83	2.03	1.78	0.00	0.51	2.03	1.78	0.00	0.25	6.86	9.14	6.10	2.29	5.59	4.32	0.76	4.57	2.79	2.79	6.10	1.27	71.37	
10	3.56	4.32	5.08	0.51	1.78	0.00	0.51	0.00	0.00	3.30	10.92	6.60	7.37	0.25	4.06	2.03	1.02	1.27	2.03	1.27	0.25	2.29	0.25	2.79	61.46	
11	0.00	1.52	0.76	0.00	0.00	2.54	17.78	10.92	1.52	0.00	2.29	7.87	2.79	18.80	8.13	2.03	9.40	1.52	0.00	0.00	0.51	0.00	1.27	1.78	91.43	
12	0.00	0.25	2.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.25	2.54	0.25	2.79	4.06	6.35	0.00	0.51	1.02	1.78	4.83	4.83	2.29	6.10	34.29	
13	18.80	7.37	6.60	8.89	7.62	17.27	11.94	10.41	14.73	10.41	1.02	1.27	1.52	2.03	3.56	2.54	2.29	0.51	2.03	3.81	3.30	0.00	0.25	4.32	142.49	
14	5.33	5.84	3.56	2.54	1.52	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	4.06	3.30	1.02	1.02	0.51	0.51	0.51	0.25	0.76	31.23	
15	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	4.29	
16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	2.54	2.29	0.25	0.00	1.27	1.27	1.52	0.51	0.25	1.52	39.12	24.13	45.72	12.45	4.32	1.78	139.45	
21	0.51	0.76	4.06	2.79	4.57	0.51	0.76	2.54	1.52	18.03	15.24	7.37	7.62	12.70	4.83	3.56	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.13	
22	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	
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	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
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	0.00	0.00	0.00	0.25	0.00	0.00	1.02	0.25	1.02	1.02	0.76	0.00	4.32	
25	0.00	0.00	0.00	0.00	1.02	2.54	3.30	0.00	0.25	0.25	0.00	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.51	8.87	
26	2.29	3.05	2.03	0.76	0.00	0.25	1.27	1.27	4.57	0.25	0.76	0.76	1.52	2.03	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.57	
27	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	
28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.43	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	12.43	
31	16.26	12.45	1.52	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56	1.78	0.25	0.00	0.00	0.00	6.86	0.00	0.25	0.51	0.		

Hourly Rainfall Record at San Fernando

Station ID: 01
 Station Name: Region III, DPWH, San Fernando, Pampanga
 Year: 2002
 Month: August
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	1.27	0.25	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
3	0.00	0.00	0.00	1.78	1.02	1.02	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	0.00	0.00	0.00	0.00	0.00	3.82
4	0.00	0.00	0.00	0.25	1.78	0.25	0.25	1.02	2.29	1.02	0.25	0.25	0.00	0.25	4.32	5.08	2.79	1.78	1.27	0.76	0.25	0.00	0.25	0.25	24.36
5	0.51	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.51	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27
6	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	1.78	1.02	2.80
10	0.76	0.25	0.25	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	2.76
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	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
12	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.51	0.25	0.00	0.51	0.51	0.76	1.27	1.27	1.02	1.02	1.02	8.89
14	1.02	0.76	0.51	0.51	0.51	0.51	0.25	0.25	0.25	0.51	0.25	0.25	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.25	7.08
15	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.25	1.25
16	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.75
17	0.25	0.00	0.25	0.00	0.00	0.25	0.00	0.25	0.00	0.25	0.25	0.25	0.76	0.25	0.51	0.51	0.25	0.51	0.51	0.51	0.25	0.51	0.25	0.25	6.82
18	0.51	0.25	0.25	0.51	0.25	0.51	0.25	0.51	0.51	0.25	0.51	0.25	0.51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.51	0.25	0.25	8.08
19	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.25	0.76	0.51	0.51	2.54	3.81	3.30	2.79	2.29	1.78	1.78	1.27	1.52	1.02	25.88
20	1.02	1.02	0.76	0.76	0.51	0.51	0.51	0.51	0.51	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.07	0.51	0.00	0.00	0.00	27.44
21	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.32	0.00	0.51	0.25	5.58
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	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
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	0.00	0.00	0.00	0.00	0.00	0.00	14.22	4.57	2.54	2.29	0.00	0.00	23.62
24	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.62	0.00	1.02	0.00	0.00	0.00	8.89
25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.34	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.59
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

Hourly Rainfall Record at San Fernando

Station ID: 01
 Station Name: Region III, DPWH, San Fernando, Pampanga
 Year: 2002
 Month: September
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.76
3	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	6.09
4	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	0.00	0.00	0.00	0.76	0.00	0.25	0.00	0.00	0.00	0.00	0.00	1.01
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.37	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.88
6	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.27	0.00	0.00	1.52
8	0.00	0.00	0.25	0.76	0.00	0.00	0.00	0.00	0.00	0.51	1.27	0.00	1.02	2.54	8.64	2.54	0.76	0.25	0.76	0.25	0.00	0.00	0.00	0.00	19.55
9	2.79	0.00	1.02	0.00	0.00	0.51	0.76	0.00	4.57	0.76	1.27	0.76	0.00	0.00	0.00	1.02	3.81	0.76	0.25	1.52	0.76	0.25	2.79	0.00	23.60
10	0.00	4.57	1.27	0.00	0.00	0.51	0.00	0.51	0.76	0.25	1.02	0.00	0.00	0.00	0.51	0.25	0.51	0.00	0.00	1.52	1.27	4.57	0.00	0.25	17.77
11	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.00	10.16	19.05	36.83	0.76	0.25	0.00	0.25	1.27	0.76	0.76	0.51	0.00	0.00	0.76	71.86
12	0.25	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	2.27
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.50
14	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	2.54	3.05	1.27	0.51	0.00	0.00	0.00	7.87
15	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	0.00	0.00	0.51	0.00	0.00	0.00	0.25	0.51	0.00	0.00	0.00	1.27
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75
17	0.00	0.00	7.62	1.27	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.52	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.16
18	0.00	0.00																							

Hourly Rainfall Record at San Fernando

Station ID: 01
 Station Name: Region III, DPWH, San Fernando, Pampanga
 Year: 2003
 Month: January
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.89	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	59.89
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
6	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	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	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	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
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	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
12	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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	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
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	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
22	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
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00

Hourly Rainfall Record at Mapanuepe Observatory

Station ID: 02
 Station Name: Mapanuepe Observatory
 Year: 2002
 Month: June
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total		
1																										0.00	
2																										0.00	
3																										0.00	
4																										0.00	
5																										0.00	
6																										0.00	
7																										0.00	
8																										0.00	
9																										0.00	
10																										0.00	
11																										0.00	
12																										0.00	
13																										0.00	
14																										0.00	
15																										0.00	
16																										0.00	
17																										0.00	
18																										0.00	
19																										0.00	
20																										0.00	
21																										0.00	
22													0.00	6.10	0.00	0.00	0.00	0.00	0.00	108.20	0.00	0.00	0.00	0.00	0.00	0.00	114.30
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	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	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	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	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.76	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.25	0.00	4.06	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.83	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	1.27	1.27	0.00	0.00	0.00	0.00	0.00	3.56	
28	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	0.00	0.00	15.49	13.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.21	
29	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.97	2.29	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	16.76	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	6.60	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.63	
31																										0.00	

Hourly Rainfall Record at Mapanuepe Observatory

Station ID: 02
 Station Name: Mapanuepe Observatory
 Year: 2002
 Month: July
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total	
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	0.00	3.81	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1
2	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	0.00	0.00	1.27	21.08	4.32	3.05	0.00	0.00	0.00	0.00	0.00	0.00	29.7
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.25	0.00	0.00	0.00	0.00	0.00	0.51	1.52	0.51	2.03	2.54	0.00	0.00	0.00	8.4
4	0.00	0.00	0.25	2.29	0.00	0.25	0.00	0.00	9.91	2.54	1.02	3.81	2.54	0.00	0.25	9.14	17.78	1.52	15.49	18.80	10.92	3.30	1.27	3.05	1.27	104.1
5	1.52	1.02	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	18.80	24.13	4.57	6.35	4.06	4.83	33.53	13.21	12.19	0.51	20.32	5.59	18.54	178.1	
6	5.84	1.52	3.05	4.83	20.07	10.67	13.72	10.92	10.16	6.60	5.08	4.32	1.78	25.15	10.67	5.84	4.32	7.62	16.26	10.16	3.30	1.52	4.32	18.03	205.8	
7	39.37	20.57	9.14	5.59	1.78	2.79	23.62	8.38	9.91	28.19	31.75	33.27	15.75	33.02	18.03	18.54	24.64	10.16	3.05	14.73	7.87	20.83	3.30	1.02	385.3	
8	2.54	0.76	0.00	9.40	3.30	1.78	0.00	10.41	3.30	11.68	7.87	1.27	3.30	0.51	9.65	0.76	1.27	0.00	2.03	1.27	6.10	0.00	2.03	10.92	90.2	
9	6.35	0.00	8.64	2.79	2.03	2.29	4.06	1.78	1.52	0.00	0.00	0.00	2.54	5.33	5.08	0.25	5.84	0.76	3.05	4.06	1.52	3.81	1.52	1.52	64.7	
10	2.54	0.51	0.25	0.51	6.10	5.84	0.76	3.05	2.03	19.05	5.84	2.79	5.33	2.54	1.02	1.02	0.00	1.52	0.25	4.57	2.03	0.25	13.72	0.00	81.5	
11	0.25	0.76	0.25	1.27	1.02	8.13	14.99	2.54	2.03	2.03	5.84	0.00	12.45	12.19	0.51	22.61	6.10	1.78	0.00	1.78	0.00	5.84	0.25	0.00	102.6	
12	0.00	1.78	4.06	0.25	0.00	0.25	0.00	0.76	1.27	0.00	0.00	6.10	3.05	1.27	7.87	0.76	0.00	5.08	1.27	4.83	19.30	21.59	5.33	28.70	113.5	
13	8.89	21.84	6.86	6.35	5.33	2.79	12.70	2.29	0.76	6.60	1.02	5.84	0.51	0.51	0.25	0.00	0.51	1.02	1.27	8.38	9.14	7.11	11.18	24.89	146.0	
14	10.67	6.10	3.81	2.29	0.25	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.25	0.00	13.97	4.57	8.38	1.52	0.00	0.76	0.76	1.02	1.02	0.51	56.6	
15	0.00	0.00	0.00	0.25	0.00	0.00	0.00	12.70	4.83	10.92	1.27	0.00	2.03	11.43	4.57	0.00	0.25	6.60	0.25	0.00	8.64	6.10	0.51	0.00	70.4	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3
17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.34	2.54	10.92	0.00	0.00	0.00	0.25	35.1	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.27	0.76	0.00	0.25	0.51	0.51	1.27	0.00	8.38	1.78	2.54	7.62	4.32	7.11	10.16	46.7	
21	3.81	8.64	9.91	3.81	5.08	10.41	11.94	10.67	8.64	14.73	19.56	10.92	5.33	3.30	5.33	2.03	1.27	2.29	0.25	0.51	0.25	0.25	0.25	0.25	1.27	140.5
22	0.00	1.27	0.25	0.00	0.00	0.00	1.52	4.57	5.33	0.76	0.25	0.25	0.25	0.25	0.51	1.02	1.27	1.02	3.30	0.51	1.78	0.51	1.02	0.25	25.9	
23	1.52	0.76	1.02	1.78	1.27	2.54	0.76	2.79	0.25	0.25	0.00	0.00	3.05	0.00	0.00	2.03	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.3	
24	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.08	0.51	2.03	0.76	0.00	14.48	3.30	3.81	3.81	6.35	0.25	0.00	40.6	
25	0.00	0.00	0.00	0.25	2.03	13.21	15.75	11.94	9.14	11.94	9.91	10.92	5.84	1.02	3.56	1.02	2.54	0.51	4.06	5.59	2.03	1.02	0.76	2.79	115.8	
26	5.08	5.33	4.83	4.32	3.05	4.32	4.83	5.84	7.87	7.87	7.62	7.37	6.86	6.10	5.59	4.57	3.30	2.29	0.51	0.00	0.00	0.00	0.00	0.25	97.8	
27	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.25	1.27	1.02	0.51	0.25	0.00	0.25	0.76	4.8	
28	0.51	0.25	0.25	0.76																						

Hourly Rainfall Record at Mapanuepe Observatory

Station ID: 02
 Station Name: Mapanuepe Observatory
 Year: 2002
 Month: August
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
1	0.76	0.25	0.51	0.25	0.25	0.00	0.25	0.00	0.51	0.00	0.51	0.76	1.02	0.76	1.27	1.52	1.02	0.76	0.76	0.76	0.76	0.51	0.51		13.70
2	0.51	0.25	0.51	0.25	0.25	0.51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.25	5.78
3	0.00	0.51	0.76	1.02	1.27	1.27	1.78	1.52	1.52	1.02	1.52	1.02	1.02	1.02	0.76	0.76	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.25	20.59
4	0.25	0.51	0.25	0.51	0.51	2.29	2.03	2.54	12.70	12.19	9.65	8.13	7.11	6.10	5.33	4.57	3.81	3.56	3.05	2.79	2.29	2.29	1.78	1.52	95.76
5	1.52	1.52	1.27	1.02	0.76	0.76	0.76	0.51	0.51	0.76	0.51	0.76	0.51	0.51	0.51	0.51	0.76	0.51	0.51	0.51	0.25	0.51	0.51	0.51	16.77
6	0.25	0.51	0.25	0.51	0.25	0.25	0.51	0.25	0.51	0.25	0.51	0.25	0.25	0.51	0.25	0.51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00	7.57
7	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.00	4.25
8	0.25	0.00	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.00	0.25	4.00
9	0.25	0.00	0.00	0.25	0.25	0.00	0.00	0.25	0.25	0.00	0.25	0.25	0.00	0.51	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.00	0.25	0.25	4.26
10	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	3.25
11	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.00	0.25	0.25	0.00	0.25	0.00	0.25	0.25	0.25	0.00	0.51	0.00	0.25	0.25	0.25	0.25	0.25	4.01
12	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00	4.50
13	0.25	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.00	0.25	0.00	0.25	0.00	0.25	0.25	0.25	0.00	0.25	0.25	0.00	3.50
14	0.25	0.51	0.51	0.51	0.25	0.51	0.25	0.51	0.51	0.51	0.51	0.25	0.51	0.25	0.25	0.25	0.00	0.25	0.00	0.25	0.00	0.00	0.25	0.00	7.34
15	0.00	0.25	0.00	0.25	0.00	0.00	0.25	0.00	0.25	0.25	0.25	0.25	0.25	0.00	0.00	2.29	0.00	0.51	3.05	0.00	0.00	0.00	0.00	1.02	8.87
16	0.76	0.00	0.76	0.00	1.27	6.10	6.60	1.78	1.78	4.32	4.83	0.00	1.02	1.02	0.00	1.02	0.00	0.00	1.27	1.02	1.27	14.99	0.76	0.00	50.57
17	0.00	4.57	2.03	1.78	4.32	2.54	0.00	2.54	1.02	2.29	1.52	0.25	0.00	5.84	5.84	2.03	1.78	0.25	0.76	1.27	6.60	0.76	0.00	0.00	47.99
18	0.25	1.02	1.78	3.81	1.02	1.02	3.81	2.29	2.79	2.03	1.78	2.79	0.51	0.51	0.25	0.25	3.05	0.00	0.00	1.27	10.16	0.00	2.79	6.60	49.78
19	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	3.56	5.08	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	0.00	9.39
20	0.00	0.00	1.02	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	0.00	0.00	0.00	0.00	0.00	3.56	1.78	0.00	6.36
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	0.00	0.00	0.00	0.00	0.00	16.26	0.51	0.00	0.00	0.00	0.00	0.00	16.77
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	0.00	0.00	1.52	2.03	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	3.80
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	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
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	1.02	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	3.05
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.91	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.18
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	4.32	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.70
28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	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	0.00	12.95	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.20
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.51	5.33	7.37	1.27	1.02	4.06	0.25	0.00	0.00	0.00	0.25	0.00	20.31
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

Hourly Rainfall Record at Mapanuepe Observatory

Station ID: 02
 Station Name: Mapanuepe Observatory
 Year: 2002
 Month: September
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
4	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	3.30	0.00	7.62	0.76	0.25	0.00	0.25	0.25	0.51	0.00	0.00	0.00	13.70
6	0.00	0.00	0.00	0.25	0.00	0.00	0.00	2.54	0.00	0.51	15.49	0.51	0.25	5.59	3.30	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	28.94
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.78	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	4.06
8	2.29	1.27	3.05	12.95	7.87	2.03	2.54	0.25	9.40	3.56	0.00	0.00	0.00	9.40	6.60	0.51	0.76	0.51	0.00	0.00	0.00	0.00	0.00	5.33	68.32
9	9.91	6.86	0.25	5.08	6.86	13.97	4.57	13.97	0.00	8.89	0.00	0.25	24.89	8.13	1.78	7.87	0.76	3.05	0.76	0.00	2.79	2.79	0.25	0.25	123.93
10	1.27	0.00	0.00	0.25	1.27	9.65	1.52	0.00	1.27	1.02	0.25	0.00	0.00	4.06	2.79	0.51	4.57	8.38	22.10	13.46	16.00	5.59	11.94	0.51	106.41
11	10.41	11.94	0.25	1.27	3.81	4.32	1.78	22.86	1.52	9.14	14.73	1.52	1.78	2.29	0.76	3.81	4.06	3.05	1.02	2.03	3.05	2.54	0.51	0.25	108.70
12	0.25	0.25	0.25	0.76	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51
13	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	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.25	2.29	0.00	0.00	2.79
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29	38.10	2.03	1.52	0.51	0.00	0.25	0.00	0.00	0.00	0.00	0.00	44.70
15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	4.06	2.54	0.25	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.52	0.00	0.00	0.00	10.14
17	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	2.79	8.89	12.45	1.52	0.00	0.51	0.25	0.51	0.00	0.00	0.00	26.92
18	0																								

Hourly Rainfall Record at Paete Elementary School

Station ID: 03
 Station Name: Paete Elementary School
 Year: 2002
 Month: August
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
1	0.25	0.00	2.54	1.02	0.00	0.25	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	17.02	0.25	0.00	0.00	0.00	0.00	0.25	1.27	0.00	26.15
2	0.00	0.00	0.76	5.59	3.05	0.00	0.00	0.00	0.00	0.00	3.30	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.97
3	8.38	10.92	21.59	1.52	1.27	0.00	0.00	0.00	0.25	0.00	0.25	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	52.56
4	1.02	4.32	0.00	0.25	0.00	0.00	1.52	0.25	0.51	0.00	4.83	1.52	0.00	0.00	4.83	1.02	1.27	0.00	0.00	0.00	15.49	30.48	1.52	1.78	70.61
5	0.51	0.00	0.00	0.00	0.00	0.00	9.14	3.56	0.25	0.00	1.02	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	14.48
6	0.00	0.00	0.00	0.25	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52
7	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13	4.06	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	12.69
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	6.35	16.76	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.95	1.27	9.40	15.24	3.30	65.77
10	1.02	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	0.00	0.76	0.51	1.27	4.06	2.79	0.00	0.25	0.00	10.66	
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	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00	3.81	0.00	0.00	10.41
12	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	1.27	4.32	5.08	2.29	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.00	13.71
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.27	0.00	0.51	0.25	0.00	0.51	0.00	1.27	6.35
16	0.00	0.00	0.25	0.76	3.05	3.81	5.33	1.78	0.25	0.51	0.00	0.00	1.27	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.51	2.54	4.32	0.00	24.63
17	0.00	0.51	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.51	5.33	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	6.85
18	0.00	0.00	0.51	9.14	0.25	0.25	0.76	0.00	1.52	0.00	0.00	0.00	0.00	0.00	1.02	0.00	3.81	0.25	0.00	2.79	0.76	0.00	0.00	0.51	21.57
19	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.51	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	0.00	0.00	0.76
20	0.00	0.00	0.00	0.51	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	0.00	0.00	0.00	0.00	2.29	0.51	0.00	3.31
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	3.05	0.25	0.00	0.25	0.25	0.51	0.00	0.00	0.00	0.00	0.00	4.56
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
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	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
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	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
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
28	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	0.00	8.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.64
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.50
30	0.00	1.02	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.00	20.32	0.00	0.00	0.00	0.25	0.00	23.11
31	0.25	0.00	0.00	0.00	0.00	0.00	1.02	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52

Hourly Rainfall Record at Paete Elementary School

Station ID: 03
 Station Name: Paete Elementary School
 Year: 2002
 Month: September
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
4	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00	1.52	0.76	2.29	0.76	10.41	8.13	0.51	0.00	0.00	0.00	0.51	0.76	0.25	29.20
6	0.00	0.00	0.00	0.00	0.00	0.25	1.02	0.25	1.02	25.15	2.79	5.59	1.52	1.78	7.37	2.54	19.56	11.18	0.00	0.00	0.00	0.00	0.00	0.00	80.02
7	0.00	0.00	0.00	0.00	0.76	0.25	3.05	2.29	0.25	1.27	0.25	3.56	4.06	0.25	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.25	16.74
8	0.51	0.00	26.67	20.83	9.65	6.86	2.79	2.79	9.14	6.86	1.52	1.02	0.00	2.79	17.53	2.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.51	112.01
9	1.27	3.30	0.00	2.29	4.57	0.25	5.59	6.60	0.25	0.25	0.00	1.52	0.76	7.87	0.00	1.52	0.25	0.25	0.25	4.32	3.56	0.00	1.02	0.51	46.20
10	0.00	0.00	0.00	2.03	14.48	0.51	1.02	0.25	1.02	0.00	0.25	0.00	0.00	3.81	3.05	1.78	0.25	13.46	0.51	3.81	2.03	0.25	4.57	1.02	54.10
11	0.51	1.02	0.00	2.03	0.76	22.35	6.10	9.14	1.02	2.29	5.59	0.51	0.00	2.54	1.02	10.92	18.03	7.11	0.51	5.59	8.38	1.78	1.52	3.30	112.02
12	2.79	2.54	0.51	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84
13	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.51
14	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.78	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
16	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.76	0.00	0.25	0.00	5.58
17	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.81	5.59	5.84	0.51	0.25	0.00	0.00	0.00	0.00	0.25	0.00	16.75
18	0.00	0																							

Hourly Rainfall Record at Paete Elementary School

Station ID: 03
 Station Name: Paete Elementary School
 Year: 2002
 Month: October
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
4	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	0.00	1.27	7.62	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.67
5	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.75
7	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	0.00	21.59	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	21.84
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.38	2.29	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	26.92
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	0.00	0.00	0.00	0.51	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27
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	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
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	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
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.75
13	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56	1.02	0.76	0.25	1.27	0.00	0.00	0.00	0.00	6.86
15	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	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	0.00	0.00	0.00	0.00	1.52	0.76	0.00	0.00	0.00	0.00	0.00	2.28
18	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	0.25	4.32	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.41
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.76
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	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
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	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
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	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
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	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
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	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
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

Hourly Rainfall Record at Paete Elementary School

Station ID: 03
 Station Name: Paete Elementary School
 Year: 2002
 Month: November
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	0.00	0.00	1.78	0.51	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80
2	0.00	0.00	0.00	0.00	0.00	0.00																			0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
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27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00

Hourly Rainfall Record at Baquilan Resettlement Center

Station ID: 04
 Station Name: Baquilan Resettlement Center
 Year: 2003
 Month: April
 Source: JICA Study Team

(Unit: mm)

Day	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Total
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	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
2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
4	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.51	0.25	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	3.55
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
6	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	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	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	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
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	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
12	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.25
14	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05	1.02	0.25	0.25	4.57
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	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
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	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
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	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
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	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
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	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
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.73	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.24
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30																									0.00
31																									0.00

A3 Daily Discharge

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1957 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.70	15.82	13.54	12.40	11.02	12.40	56.30	41.75	115.00	99.60	44.76	27.53
2	23.00	15.82	13.54	12.40	10.56	12.40	231.50	38.90	107.80	87.00	42.70	27.53
3	22.30	15.82	13.54	11.94	10.56	11.94	180.80	48.88	113.20	79.50	41.75	26.72
4	22.30	15.82	13.54	11.94	10.56	11.48	126.10	45.79	111.40	74.80	40.80	26.72
5	22.30	15.82	13.54	11.94	10.56	13.54	87.00	40.80	98.00	73.60	39.85	25.91
6	20.90	15.82	13.54	11.94	10.56	12.40	72.40	38.90	194.80	81.00	38.90	25.91
7	20.90	15.25	13.54	11.94	10.56	14.68	61.80	38.90	176.20	81.00	38.90	25.91
8	20.20	15.25	13.54	11.94	10.56	124.00	56.30	37.00	116.80	107.80	37.95	25.10
9	20.20	15.25	12.97	11.94	10.56	30.77	50.94	39.85	104.40	190.00	37.00	25.10
10	20.20	15.25	12.97	11.48	10.10	74.80	46.82	37.00	94.80	149.40	36.05	25.10
11	19.50	15.25	12.97	11.48	9.64	239.00	45.79	33.20	84.00	120.40	36.05	24.40
12	19.50	15.25	12.97	12.40	10.10	268.70	41.75	36.05	78.00	107.80	36.05	24.40
13	19.50	14.68	12.97	12.40	10.10	226.50	37.00	33.20	75.00	102.80	35.10	24.40
14	18.10	14.68	12.97	12.40	9.64	194.80	39.85	38.90	76.50	224.00	34.15	24.40
15	18.10	14.68	12.97	11.94	9.64	153.80	566.40	167.00	75.00	151.60	33.20	24.40
16	18.10	14.68	12.97	11.94	9.18	118.60	437.00	395.40	73.60	111.40	33.20	24.40
17	18.10	14.68	12.97	12.40	11.02	81.00	231.50	526.80	74.80	94.80	32.39	23.70
18	18.10	14.68	12.97	13.54	11.02	64.00	145.00	563.00	75.00	85.50	31.58	23.70
19	17.53	14.68	12.40	12.40	10.10	60.70	104.40	416.00	74.80	76.50	31.58	23.70
20	17.53	14.68	12.40	12.40	10.10	53.00	82.50	318.20	90.00	72.40	30.77	23.70
21	17.53	14.11	12.40	11.94	9.64	44.76	75.00	332.20	298.60	67.60	30.77	23.70
22	16.96	14.11	12.97	11.94	8.72	40.80	68.80	340.60	162.60	64.00	29.96	23.70
23	16.96	14.11	12.40	11.94	10.56	37.00	64.00	321.00	138.70	61.80	29.96	23.70
24	16.96	14.11	12.40	11.94	10.56	44.76	60.70	340.60	206.80	57.40	29.15	23.00
25	16.96	14.11	12.40	11.48	10.10	49.91	55.20	404.10	199.20	56.30	29.15	23.00
26	16.96	14.11	12.40	11.48	9.18	93.20	50.94	244.40	349.00	53.00	29.15	22.30
27	16.96	14.11	12.40	11.02	7.80	66.40	51.97	185.40	221.50	50.94	29.15	22.30
28	16.96	14.11	12.40	11.02	9.64	53.00	46.82	176.20	158.20	48.88	28.34	22.30
29	16.39		12.40	11.02	12.40	48.88	43.73	156.00	132.40	48.88	28.34	21.60
30	16.39		12.40	11.02	11.48	59.60	41.75	132.40	109.60	47.85	27.53	21.60
31	16.39		12.40		12.97		37.95	126.10		45.79		21.60

Mean	18.89	14.88	12.90	11.93	10.30	77.23	106.39	183.69	132.86	89.46	34.14	24.24
Max	23.70	15.82	13.54	13.54	12.97	268.70	566.40	563.00	349.00	224.00	44.76	27.53
Min	16.39	14.11	12.40	11.02	7.80	11.48	37.00	33.20	73.60	45.79	27.53	21.60

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1958 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.90	16.39	14.11	12.40	9.64	204.40	22.00	98.00	229.00	118.10	*	*
2	20.90	16.96	14.68	12.40	9.64	510.80	23.00	92.00	224.00	114.00	*	*
3	20.90	16.96	18.10	12.40	9.64	106.00	21.00	106.00	389.60	106.00	*	*
4	20.20	16.96	15.25	12.40	9.64	64.00	21.00	104.00	727.80	96.00	*	*
5	20.20	15.82	15.25	12.40	9.64	87.00	18.00	90.00	467.00	88.00	*	*
6	20.20	15.82	15.25	12.40	9.64	71.20	18.00	88.00	231.50	82.00	42.40	*
7	20.20	14.68	15.25	11.48	9.64	61.80	22.00	80.20	180.40	78.40	41.00	*
8	19.50	14.68	15.25	11.48	9.64	185.40	22.00	73.00	202.00	78.40	39.60	*
9	19.50	15.25	15.25	11.48	9.64	413.00	23.00	65.80	455.00	86.00	39.60	23.00
10	19.50	15.25	14.68	11.48	9.64	724.00	22.00	60.80	498.00	80.20	41.00	23.00
11	19.50	15.25	14.68	11.48	9.64	260.60	20.00	56.00	266.00	76.60	39.60	23.00
12	19.50	15.25	14.68	11.48	9.64	159.40	148.40	52.80	185.20	73.00	36.80	23.00
13	18.80	14.68	14.68	11.48	9.64	114.00	340.60	49.60	219.00	69.40	35.40	22.00
14	18.80	14.68	14.68	11.48	9.64	78.40	586.80	48.00	199.60	65.80	35.40	22.00
15	18.80	14.68	14.68	11.48	9.64	65.80	539.90	49.60	173.20	65.80	34.00	22.00
16	18.80	14.68	14.68	11.48	9.64	65.80	494.90	45.20	161.60	64.00	32.80	22.00
17	18.80	14.11	14.68	11.48	9.64	98.00	372.20	42.40	229.00	60.80	31.60	21.00
18	18.80	14.11	14.68	11.48	9.64	116.00	255.20	39.60	321.00	57.60	31.60	21.00
19	18.10	14.11	14.68	11.48	9.64	112.00	274.10	38.20	255.20	56.00	30.40	21.00
20	18.10	14.11	14.68	10.10	9.64	76.60	293.00	36.80	216.50	54.40	30.40	21.00
21	18.10	14.11	14.68	10.10	9.64	62.40	309.80	35.40	194.80	54.40	30.40	21.00
22	18.10	14.11	13.54	10.10	9.64	52.80	244.40	36.80	185.20	67.60	30.40	21.00
23	18.10	14.11	13.54	10.10	9.18	46.60	260.60	69.40	159.40	67.60	29.20	21.00
24	17.53	14.11	13.54	10.10	9.18	48.00	343.40	90.00	155.00	65.80	29.20	21.00
25	17.53	14.11	13.54	10.10	9.18	38.20	467.00	118.00	209.20	60.80	28.00	20.00
26	17.53	14.11	13.54	9.64	9.18	35.40	326.60	139.60	214.00	64.00	27.00	20.00
27	17.53	13.54	13.54	9.64	11.02	30.40	221.50	84.00	199.60	60.80	27.00	20.00
28	17.53	14.11	13.54	9.64	10.56	26.00	173.20	110.00	163.80	57.60	28.00	20.00
29	16.96		12.40	9.64	14.11	25.00	139.60	378.00	144.00	56.00	27.00	20.00
30	16.96		12.40	9.64	12.40	25.00	118.00	244.40	141.80	54.40	27.00	20.00
31	16.96		12.40		14.11		104.00	287.60		51.20		20.00

Mean	18.80	14.88	14.40	11.08	10.03	132.13	201.46	93.85	253.25	71.96	32.99	21.22
Max	20.90	16.96	18.10	12.40	14.11	724.00	586.80	378.00	727.80	118.10	42.40	23.00
Min	16.96	13.54	12.40	9.64	9.18	25.00	18.00	35.40	141.80	51.20	27.00	20.00

note: * means no data available or unreadable

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1959 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20.00	14.00	11.60	10.00	8.50	10.50	11.60	23.00	293.00	31.60	21.00	17.20
2	19.00	14.00	11.60	10.00	8.50	10.50	12.20	26.00	335.00	31.60	21.00	17.20
3	19.00	14.00	11.60	10.00	8.50	11.00	19.00	29.20	443.00	31.60	20.00	17.20
4	19.00	14.00	11.00	9.50	9.00	11.60	12.80	108.00	290.30	36.80	19.00	17.20
5	19.00	14.00	11.00	9.50	9.50	12.20	15.60	202.00	219.00	35.40	19.00	16.40
6	18.00	13.40	11.00	9.50	10.50	12.80	15.60	312.60	194.80	49.60	19.00	16.40
7	18.00	13.40	10.50	9.50	13.40	11.60	14.00	182.80	146.20	65.80	19.00	16.40
8	18.00	13.40	10.50	9.50	12.80	11.60	13.40	124.20	144.00	51.20	19.00	16.40
9	18.00	13.40	10.50	9.50	10.00	11.60	12.80	106.00	130.80	45.20	18.00	15.60
10	17.20	13.40	10.50	9.50	9.50	11.00	12.80	94.00	116.00	39.60	17.20	15.60
11	17.20	13.40	10.50	9.50	9.00	10.50	12.20	73.00	96.00	36.80	17.20	15.60
12	17.20	13.40	11.60	9.50	8.50	10.00	11.60	60.80	84.00	34.00	18.00	14.80
13	17.20	13.40	11.60	9.50	8.50	10.00	12.80	60.80	76.60	31.60	17.20	14.80
14	16.40	12.80	10.50	9.50	8.50	10.00	12.80	82.00	67.60	29.20	17.20	14.80
15	16.40	12.80	10.50	9.00	8.50	10.00	13.40	62.40	64.00	29.20	18.00	14.80
16	16.40	12.80	11.00	9.00	14.00	10.50	38.20	52.80	59.20	27.00	17.20	14.00
17	16.40	12.80	11.00	9.00	11.00	10.00	34.00	48.00	56.00	27.00	21.00	14.00
18	16.40	12.80	11.00	9.00	10.00	10.50	27.00	62.40	62.40	31.60	25.00	14.00
19	15.60	12.80	11.00	9.00	8.50	11.00	22.00	54.40	54.40	34.00	25.00	14.00
20	15.60	12.80	11.00	9.00	9.50	10.50	20.00	49.60	48.00	29.20	25.00	14.00
21	15.60	12.20	10.50	9.00	10.00	10.50	19.00	48.00	43.80	27.00	24.00	14.80
22	15.60	12.20	10.50	9.00	10.00	11.00	21.00	274.10	39.60	26.00	23.00	14.00
23	15.60	12.20	10.50	8.50	11.00	12.20	19.00	155.00	42.40	25.00	22.00	14.00
24	15.60	12.20	10.50	8.50	10.50	11.00	17.20	106.00	38.20	25.00	21.00	13.40
25	15.60	12.20	10.50	8.50	10.50	11.60	21.00	84.00	36.80	25.00	21.00	13.40
26	14.80	12.20	10.50	8.50	10.50	11.00	25.00	84.00	42.40	24.00	20.00	12.80
27	14.80	11.60	10.50	8.50	10.00	11.60	25.00	76.60	42.40	24.00	19.00	12.80
28	14.80	11.60	10.50	8.50	10.50	11.00	29.20	74.80	43.80	23.00	19.00	12.80
29	14.80		10.00	8.50	10.50	11.00	25.00	98.00	36.80	23.00	18.00	12.80
30	14.80		10.00	8.50	10.00	11.00	24.00	590.20	34.00	22.00	17.20	12.80
31	14.80		10.00		11.00		25.00	407.00		21.00		12.80

Mean	16.67	12.97	10.76	9.15	10.02	10.98	19.17	122.96	112.68	32.03	19.91	14.74
Max	20.00	14.00	11.60	10.00	14.00	12.80	38.20	590.20	443.00	65.80	25.00	17.20
Min	14.80	11.60	10.00	8.50	8.50	10.00	11.60	23.00	34.00	21.00	17.20	12.80

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1960 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.60	10.00	10.50	8.50					104.00			
2	11.60	10.00	10.50	8.50				141.00	100.00			
3	11.60	10.00	10.50	8.50		15.60		1160.00	97.80		41.00	
4	11.60	10.00	10.00	8.50		18.00		211.60	91.00		40.64	
5	11.60	9.50	10.00	8.50		21.00		370.00	85.30		40.00	
6	12.20	9.00	10.00	8.50		25.00		350.00	75.00		39.00	
7	12.20	9.50	9.50	8.50		31.00		334.00	65.65		38.40	
8	12.20	9.50	9.50	8.10		43.80		380.00	60.00		37.00	
9	12.20	9.50	9.50	8.10		36.00		440.00	71.00		36.32	
10	12.20	9.50	9.50	8.50		34.00		540.00	75.10		36.00	
11	12.20	9.50	9.50	8.10		35.00		727.80	73.00		36.32	
12	12.20	9.50	9.50	7.30		36.00		620.00	71.70		36.00	
13	11.60	9.50	9.50	7.70		36.80		560.00			36.00	
14	11.60	9.50	9.00	7.70		35.00		546.50	67.10		35.24	
15	11.60	9.50	9.00	7.70		34.00		560.00			34.00	
16	11.60	9.50	9.00	7.70				607.50				
17	11.60	9.50	9.00	7.70		27.00		440.00				
18	11.60	9.50	9.00	7.70		25.00		340.60				
19	11.60	9.50	9.00	7.70		24.00		400.00				
20	11.60	9.50	9.00	7.70		23.00		480.00				
21	11.60	9.00	9.00	8.50		22.00		597.00				
22	11.60	19.50	9.00	8.50				350.00				
23	11.60	9.50	9.00	8.50		23.00		293.00				
24	11.60	9.50	9.00	10.50		19.00		250.00				
25	11.60	9.50	8.50	10.50				244.40				
26	11.00	12.20	8.50	9.00		120.00		180.00				
27	11.00	12.20	8.50			247.10		155.00				
28	11.00	12.20	8.50					145.00				
29	10.50	12.20	8.50					120.00				
30	10.00		8.50					110.30				
31	10.00		8.50									

Mean	11.54	10.18	9.24	8.33		42.33		401.85	79.74		37.38	
Max	12.20	19.50	10.50	10.50		247.10		1160.00	104.00		41.00	
Min	10.00	9.00	8.50	7.30		15.60		110.30	60.00		34.00	

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year:	1961												(unit: m3/s)
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	20.20									120.20	44.07	28.00	
2	19.50									110.70	44.07	27.85	
3	19.50									97.60	42.00	27.00	
4	18.80										42.00	27.00	
5	18.80										42.00		
6	18.80												
7	18.80												
8	18.80												
9	18.80									103.20			
10	18.10									114.50			
11	18.10									110.70			
12	18.10										37.40		
13	18.10										37.40		
14	18.10									73.50	34.20		
15	17.40									73.40	34.20		
16	17.40									70.00	34.10		
17	17.40									65.85	34.10		
18	16.70									62.00	3.00		
19	16.70									55.50	33.00		
20	16.15									56.95	32.00		
21	16.15									54.25	32.00	23.00	
22	16.15									51.59	32.00	23.00	
23	16.15									52.96	32.00	23.00	
24	16.15									54.23	31.17	23.50	
25	16.15									51.50	31.17	22.50	
26	16.15									50.41	30.34	22.50	
27	16.15									50.42	30.34	22.30	
28	16.15									47.80	29.51	21.60	
29	16.15									47.80	29.51	21.60	
30	16.15									45.34	28.68	21.60	
31	16.15									445.34		21.60	
Mean	17.48									86.07	33.34	23.74	
Max	20.20									445.34	44.07	28.00	
Min	16.15									45.34	3.00	21.60	

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year:	1962												(unit: m3/s)
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	20.90	17.40	16.15	14.50	13.95	12.85	18.10	152.80	190.00	88.00	27.00	23.00	
2	20.90	17.40	16.15	13.95	13.95	12.85	18.10	360.60	170.80	74.80	27.00	23.00	
3	20.90	17.40	15.60	15.05	12.85	12.85	16.70	366.40	152.80	90.00	26.00	22.00	
4	20.90	17.40	15.60	15.60	12.85	13.95	18.10	82.00	133.00	80.20	26.00	22.00	
5	20.90	17.40	15.60	14.50	12.85	13.95	18.10	98.00	122.00	86.00	25.00	19.00	
6	20.20	16.70	15.60	14.50	11.75	13.95	17.40	114.00	148.40	65.80	25.00	19.00	
7	20.20	16.70	15.60	13.95	11.75	13.40	18.10	71.20	290.30	78.40	27.00	19.00	
8	20.20	16.70	15.05	13.95	11.75	13.40	20.20	54.40	144.00	69.40	38.20	19.00	
9	20.20	16.70	15.05	13.95	11.75	13.95	28.68	39.60	161.60	80.20	29.20	22.00	
10	20.20	16.70	15.05	13.95	11.75	13.95	55.50	40.00	166.00	74.80	30.40	22.00	
11	19.50	16.70	15.05	13.95	11.75	13.40	37.40	50.00	141.80	59.20	30.40	22.00	
12	19.50	16.70	15.05	13.95	10.76	12.85	38.48	55.00	128.60	52.80	30.40	22.00	
13	19.50	16.15	15.05	13.95	10.76	13.95	35.24	65.00	137.40	49.60	30.40	22.00	
14	19.50	16.15	15.05	13.95	10.76	13.95	33.08	78.00	437.00	52.80	30.40	22.00	
15	19.50	16.15	15.05	13.95	10.76	13.95	31.17	80.00	301.40	46.60	27.00	19.00	
16	18.80	16.15	15.05	14.50	10.76	16.70	28.68	85.00	133.00	45.20	26.00	19.00	
17	18.80	16.15	15.05	15.05	10.76	15.60	29.51	95.00	98.00	43.80	26.00	19.00	
18	18.80	16.15	15.05	15.05	10.76	15.05	34.16	110.00	43.80	42.40	26.00	19.00	
19	18.80	16.15	15.05	15.05	10.76	14.50	549.55	114.00	52.80	41.00	25.00	19.00	
20	18.80	16.15	15.05	15.05	10.76	15.05	917.90	122.00	43.80	36.80	25.00	19.00	
21	18.80	16.70	15.05	14.50	10.76	15.60	1119.90	166.00	43.80	35.40	26.00	19.00	
22	18.80	16.70	15.05	15.05	12.30	16.70	1348.80	126.40	43.80	34.00	26.00	19.00	
23	18.10	16.70	15.05	17.40	11.75	20.20	1101.80	144.00	51.20	32.80	26.00	19.00	
24	18.10	16.70	14.50	17.40	11.75	18.80	2220.44	130.80	82.00	32.80	25.00	22.00	
25	18.10	16.15	14.50	15.05	11.75	16.70	407.00	263.30	110.00	30.40	24.00	19.00	
26	18.10	16.15	14.50	14.50	11.75	16.70	260.00	268.70	74.30	30.40	24.00	19.00	
27	18.10	16.15	14.50	15.05	12.30	16.70	108.00	274.10	57.60	27.00	24.00	19.00	
28	17.40	16.15	14.50	14.50	13.95	18.10	90.00	255.20	65.80	27.00	24.00	15.60	
29	17.40		14.50	13.40	13.95	19.50	72.00	395.40	76.60	27.00	25.00	14.80	
30	17.40		14.50	13.40	13.95	18.10	54.40	255.20	86.00	26.00	24.00	14.80	
31	17.40		14.50		12.85		100.00	219.00		26.00		15.60	
Mean	19.18	16.59	15.07	14.62	11.96	15.24	285.37	152.62	129.59	51.18	26.85	19.64	
Max	20.90	17.40	16.15	17.40	13.95	20.20	2220.44	395.40	437.00	90.00	38.20	23.00	
Min	17.40	16.15	14.50	13.40	10.76	12.85	16.70	39.60	43.80	26.00	24.00	14.80	

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1963 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.60	14.00	12.80	12.80	10.50	14.80	80.23	56.00	67.00	86.00	86.00	41.00
2	15.60	13.40	12.80	12.80	10.00	14.80	56.00	54.40	57.60	71.20	82.00	29.20
3	15.60	13.40	12.80	12.80	10.50	30.40	51.20	54.40	54.40	71.20	98.00	28.00
4	15.60	14.00	10.50	11.00	10.50	120.00	54.40	56.00	54.40	118.00	110.00	28.00
5	15.60	14.00	11.00	11.00	10.50	122.00	57.60	49.60	122.00	116.00	144.00	26.00
6	15.60	14.00	12.80	12.80	10.50	447.12	84.00	46.60	389.00	108.00	126.40	23.00
7	15.60	14.00	12.80	12.80	10.50	363.50	106.00	46.60	263.30	98.00	120.00	23.00
8	15.60	13.40	12.80	12.80	10.50	202.00	96.00	43.80	372.20	82.00	157.00	23.00
9	15.60	13.40	12.80	11.00	10.50	148.40	108.00	43.80	315.40	71.20	148.40	23.00
10	15.60	14.00	12.80	11.00	10.50	108.00	96.00	42.40	378.00	86.00	144.00	20.00
11	15.60	14.00	12.80	11.00	11.00	74.80	88.00	49.00	363.50	71.20	126.40	20.00
12	15.60	14.00	11.00	10.50	12.80	59.20	82.00	45.20	375.10	67.60	120.00	20.00
13	15.60	14.00	11.00	10.50	12.80	74.80	84.00	46.60	553.10	71.20	126.40	20.00
14	15.60	14.00	11.00	10.50	11.00	86.00	80.00	782.00	413.00	82.00	120.00	29.20
15	15.60	13.40	11.00	10.50	11.00	54.40	73.00	500.00	148.40	82.00	110.00	29.20
16	15.60	12.80	11.00	10.50	11.00	120.00	221.50	351.90	120.00	62.40	106.00	28.00
17	15.60	12.80	11.00	10.50	10.50	274.10	326.60	262.00	108.00	59.20	118.00	28.00
18	15.60	13.40	12.80	11.00	10.50	357.70	180.40	172.00	92.00	49.00	104.00	28.00
19	14.80	13.40	12.80	12.80	12.80	192.40	144.00	82.00	80.20	71.20	86.00	23.00
20	14.80	13.40	12.80	12.80	14.00	161.60	221.50	70.00	120.00	67.60	82.00	23.00
21	14.80	13.40	12.80	11.00	12.80	260.00	284.90	59.20	82.00	71.20	71.20	23.00
22	14.80	12.80	12.80	11.00	13.40	307.00	190.00	57.50	84.00	67.60	67.60	20.00
23	14.80	12.80	13.40	11.00	14.00	197.20	133.00	58.00	69.40	49.60	59.20	20.00
24	14.00	12.60	13.40	11.00	14.00	137.40	128.60	54.00	116.00	82.00	49.60	20.00
25	14.00	12.60	14.80	11.00	14.00	118.00	124.20	52.50	98.00	67.60	43.80	14.80
26	14.00	12.80	14.80	10.50	14.00	118.00	116.00	51.20	82.00	82.00	42.40	14.80
27	14.80	12.80	13.40	10.50	15.60	112.00	100.00	90.00	59.20	82.00	41.00	14.80
28	14.80	12.80	11.00	10.50	23.00	455.00	88.00	130.00	157.20	67.60	41.00	23.00
29	14.80		11.00	10.50	32.00	199.60	82.00	95.00	126.40	86.00	34.00	23.00
30	14.80		12.80	10.50	24.00	100.00	78.40	57.60	100.00	82.00	34.00	23.00
31	14.80		12.80		19.00		56.00	62.00		67.00		23.00

Mean	15.19	13.41	12.39	11.30	13.47	167.67	118.44	116.82	180.69	77.28	93.28	23.61
Max	15.60	14.00	14.80	12.80	32.00	455.00	326.60	782.00	553.10	118.00	157.00	41.00
Min	14.00	12.60	10.50	10.50	10.00	14.80	51.20	42.40	54.40	49.00	34.00	14.80

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1964 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22.00	18.20	11.00	6.70	6.90	18.00	106.00	26.00	30.40	13.40	43.80	35.40
2	22.00	18.10	10.90	6.62	7.10	16.40	98.00	39.60	25.00	8.50	43.80	35.40
3	22.00	18.00	10.80	6.60	7.70	17.20	94.00	54.40	20.00	6.50	43.80	35.40
4	22.00	18.00	10.70	6.60	8.50	24.00	74.80	69.40	24.00	8.10	31.60	35.40
5	22.00	17.20	10.40	6.50	9.00	28.00	71.20	86.00	26.00	12.20	31.60	29.20
6	21.00	16.90	10.20	6.50	8.10	39.60	51.20	141.80	20.00	17.20	31.60	29.20
7	21.00	16.60	9.90	6.50	8.20	74.80	45.20	190.00	15.60	18.00	28.00	29.20
8	21.00	16.30	9.80	6.50	7.70	52.80	39.60	321.00	12.20	26.00	28.00	29.20
9	21.00	16.20	9.80	6.50	7.60	39.60	34.00	122.00	10.00	34.00	28.00	26.00
10	21.00	16.10	9.60	6.50	8.00	38.20	30.40	52.80	12.80	45.20	25.00	26.00
11	20.00	15.90	9.50	6.50	8.50	25.00	28.00	45.20	10.00	67.60	25.00	25.00
12	20.00	15.20	9.30	6.50	9.90	35.40	30.40	34.00	9.00	80.20	25.00	25.00
13	20.00	15.00	9.20	6.50	11.80	32.80	32.80	35.40	10.50	106.00	30.40	30.40
14	20.00	14.80	9.20	6.60	11.00	30.40	28.00	62.40	7.70	98.00	30.40	38.20
15	20.00	14.50	9.18	6.59	8.70	29.20	28.00	118.00	7.30	90.00	34.00	51.20
16	21.00	14.40	9.00	6.50	8.40	28.00	28.00	124.20	7.30	84.00	34.00	62.40
17	21.00	14.20	8.80	6.50	8.70	27.00	30.40	114.00	10.00	74.80	34.00	96.00
18	21.00	13.90	8.50	6.50	9.30	24.00	28.00	168.40	12.80	71.20	29.20	96.00
19	20.00	13.80	8.30	6.50	10.00	23.00	46.60	334.00	18.00	71.20	29.20	86.00
20	20.00	13.60	8.18	6.50	9.60	26.00	39.60	266.00	24.00	64.00	29.20	74.80
21	20.00	13.50	7.90	6.50	9.90	27.00	35.40	329.40	27.00	62.40	36.80	60.80
22	20.00	13.10	7.70	6.50	12.00	28.00	32.80	440.00	23.00	62.40	31.60	51.20
23	21.00	12.80	7.62	6.50	13.50	31.60	30.40	279.50	18.00	57.60	31.60	43.80
24	21.00	12.60	7.60	6.50	15.60	34.00	31.60	122.00	14.00	57.60	31.60	35.40
25	21.00	12.50	7.50	6.50	18.00	29.20	35.40	190.00	11.00	57.60	31.60	34.00
26	21.00	12.20	7.40	6.50	25.00	28.00	30.40	88.00	10.00	52.80	27.00	34.00
27	20.00	12.10	7.30	6.50	25.00	27.00	28.00	96.00	9.00	52.80	27.00	34.00
28	19.50	11.80	7.20	6.50	20.00	26.00	24.00	76.60	11.00	52.80	27.00	31.60
29	19.20	11.20	7.10	6.50	18.00	25.00	20.00	59.20	13.40	45.20	27.00	31.60
30	19.00		7.00	6.60	17.20	27.00	20.00	41.00	12.20	45.20	27.00	31.60
31	18.80		6.80		17.20		24.00	38.20		45.20		31.60

Mean	20.60	14.78	8.82	6.53	11.81	30.41	41.17	134.34	15.37	51.22	31.13	42.42
Max	22.00	18.20	11.00	6.70	25.00	74.80	106.00	440.00	30.40	106.00	43.80	96.00
Min	18.80	11.20	6.80	6.50	6.90	16.40	20.00	26.00	7.30	6.50	25.00	25.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1965 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	38.60	27.20	17.00	16.00	14.20	46.40	36.00	79.30	29.40	25.00	14.50	
2	38.60	27.20	17.00	16.00	14.20	55.00	31.60	128.20	25.00	24.10	14.50	
3	38.60	27.20	17.00	16.00	14.20	46.40	25.00	171.90	36.00	27.20	14.20	
4	25.00	21.40	17.00	16.00	14.20	42.50	21.40	171.90	155.80	33.80	14.20	
5	25.00	21.40	16.00	15.50	13.60	37.30	19.10	233.90	117.10	32.70	13.90	
6	25.00	21.40	16.00	15.50	13.60	37.30	19.10	165.00	75.90	29.40	13.90	
7	36.00	21.40	16.00	15.50	13.60	42.50	24.10	101.90	55.00	26.10	15.00	
8	36.00	17.00	16.00	15.50	13.60	46.40	28.30	74.20	46.40	22.30	14.20	
9	27.20	17.00	15.00	15.50	13.30	41.20	25.00	61.00	38.60	24.10	13.90	
10	27.20	17.00	15.00	14.50	13.30	38.60	23.20	50.50	42.50	22.30	13.60	
11	27.20	17.00	15.00	14.50	13.30	36.00	21.40	33.80	42.50	24.10	13.30	
12	23.20	16.00	15.00	14.50	15.00	31.60	21.40	34.90	39.90	22.30	13.30	
13	23.20	16.00	16.50	14.50	15.00	27.20	56.50	31.60	45.10	20.50	13.90	
14	23.20	16.00	16.50	14.50	15.00	25.00	225.80	38.60	52.00	24.10	13.60	
15	20.50	16.00	16.50	14.20	14.20	19.80	130.50	55.00	56.00	23.20	13.90	
16	20.50	15.00	16.50	14.20	14.20	20.50	75.90	32.70	45.10	21.40	13.60	
17	20.50	15.00	17.70	14.20	13.60	19.10	53.50	32.70	41.20	19.10	13.30	
18	16.00	15.00	17.70	14.20	13.60	17.70	34.90	27.20	50.50	19.10	13.30	
19	16.00	15.00	17.70	15.00	13.60	19.10	26.10	24.10	62.50	18.40	13.30	
20	16.00	16.00	17.70	14.50	13.60	24.10	27.20	22.30	75.90	18.40	13.00	
21	16.00	16.00	16.50	14.20	14.20	27.20	46.40	21.40	67.40	17.70	13.00	
22	15.00	16.00	16.50	13.90	14.20	41.20	55.00	20.50	59.50	17.70	13.00	
23	15.00	16.00	16.50	14.50	14.50	146.60	109.50	20.50	53.50	17.00	13.00	
24	15.00	15.00	16.50	15.00	16.50	215.00	77.60	19.80	47.70	17.00	13.00	
25	16.00	15.00	16.50	15.50	19.10	217.70	59.50	19.80	41.20	16.50	13.00	
26	23.20	15.00	17.70	14.20	21.40	128.20	69.10	20.50	33.80	16.50	13.00	
27	23.20	15.00	17.70	13.90	23.20	98.10	160.40	19.10	30.50	16.00	13.00	
28	23.20	15.00	20.50	13.60	27.20	84.80	169.60	22.30	36.00	16.00	13.00	
29	20.50		18.40	14.50	28.30	56.50	117.10	28.30	31.60	15.50	13.00	
30	20.50		16.00	14.50	31.60	42.50	94.30	39.90	28.30	15.50	13.00	
31	20.50		16.00		37.30		75.90	34.90		15.00		

Mean 23.60 17.79 16.70 14.80 16.98 57.72 63.24 59.28 52.06 21.23 13.55
 Max 38.60 27.20 20.50 16.00 37.30 217.70 225.80 233.90 155.80 33.80 15.00
 Min 15.00 15.00 15.00 13.60 13.30 17.70 19.10 19.10 25.00 15.00 13.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1966 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.70	12.40	11.95	12.10		26.10	74.20	94.30	162.70	121.30	31.60	34.90
2	12.70	12.40	11.95	12.10		25.00	62.50	86.70	158.10	115.20	31.60	33.80
3	12.70	12.40	11.95	12.10		25.00	56.50	89.30	153.50	111.40	29.40	29.40
4	12.70	12.40	11.95	11.95		24.10	53.50	96.20	169.60	109.50	29.40	29.40
5	12.55	12.40	11.80	11.95		24.10	52.00	105.70	193.40	107.60	27.20	29.40
6	12.55	12.40	11.80	11.95		24.10	50.50	101.90	220.40	105.70	27.20	29.40
7	12.55	12.40	11.80	11.80		23.20	56.50	100.00	247.40	103.80	27.20	29.40
8	12.55	12.40	11.80	11.80		23.20	55.00	98.10	342.50	101.90	26.10	28.30
9	12.55	12.40	11.80	11.80		23.20	49.00	94.30	379.70	100.00	26.10	28.30
10	12.55	12.40	11.80	11.65		22.20	46.40	101.90	406.50	98.10	26.10	28.30
11	12.55	12.25	11.80	11.65		27.20	81.00	105.70	427.50	96.20	26.10	28.30
12	12.55	12.25	11.80	11.65		27.20	101.90	155.80	434.50	75.90	25.00	28.30
13	12.40	12.25	11.80	11.50		26.10	107.60	183.40	487.00	74.20	25.00	27.20
14	12.40	12.25	12.10	12.25		26.10	96.20	209.60	420.50	72.50	24.10	28.30
15	12.40	12.25	12.10	12.25		26.10	115.20	209.60	413.50	70.80	24.10	27.20
16	12.40	12.25	12.10	12.25		58.00	88.60	198.80	406.50	69.10	24.10	27.20
17	12.40	12.25	12.10	12.10		32.70	81.00	193.40	403.00	67.40	23.20	26.10
18	12.40	12.25	12.10	12.10		31.60	75.90	188.00	385.90	64.00	23.20	26.10
19	12.40	12.25	12.10	12.10		30.50	82.90	190.70	358.00	62.50	22.30	26.10
20	12.40	12.10	12.10	12.10		29.40	88.60	185.70	339.40	61.00	22.30	25.00
21	12.40	12.10	11.95	11.95		28.30	82.90	181.10	320.80	46.40	88.60	25.00
22	12.25	12.10	11.95	11.95		36.00	72.50	176.50	305.30	45.10	100.00	25.00
23	12.25	12.10	11.95	11.95		38.60	81.00	183.40	266.30	45.10	27.20	25.00
24	12.25	11.95	11.95	11.95		37.30	103.80	205.00	228.50	43.80	43.80	24.10
25	12.25	11.95	11.95	11.95		36.00	125.90	204.20	217.70	43.80	37.30	24.10
26	12.25	11.95	11.95	11.80		38.60	101.90	193.40	181.10	42.50	36.00	24.10
27	12.25	11.95	11.95	11.80		42.50	105.70	190.70	171.90	42.50	36.00	24.10
28	12.25	11.95	11.95	11.80		46.40	125.90	183.40	165.00	41.20	36.00	23.20
29	12.25		11.95	11.80		64.00	96.20	174.20	160.40	41.20	36.00	23.20
30	12.25		11.80	11.80		81.00	94.30	165.00	151.20	39.90	36.00	23.20
31	12.25		11.80				92.40	158.10		39.90		23.20

Mean 12.43 12.23 11.93 11.93 33.46 82.50 154.97 289.26 72.89 33.27 26.92
 Max 12.70 12.40 12.10 12.25 81.00 125.90 209.60 487.00 121.30 100.00 34.90
 Min 12.25 11.95 11.80 11.50 22.20 46.40 86.70 151.20 39.90 22.30 23.20

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1967 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.70	43.60	17.00	19.10	26.10	121.30	107.60	155.80	178.80	105.70	69.10	42.50
2	32.70	41.20	17.00	19.10	26.10	139.70	92.40	185.70	174.20	98.10	67.40	42.50
3	32.70	39.90	17.00	19.10	26.10	162.70	113.30	160.40	165.00	98.10	70.80	41.20
4	32.70	37.30	17.00	19.10	26.10	228.50	158.10	158.10	155.80	105.70	98.10	41.20
5	31.60	36.00	17.00	19.10	26.10	269.00	178.80	196.60	146.60	101.90	171.90	39.90
6	32.70	33.80	17.00	19.10	25.00	336.30	198.80	123.60	135.10	98.10	188.00	39.90
7	31.60	32.70	17.00	19.10	25.00	373.50	185.70	109.50	121.30	96.20	139.70	38.60
8	31.60	30.50	16.50	18.40	25.00	522.00	125.90	94.30	109.50	101.90	123.60	38.60
9	30.50	29.40	16.50	18.40	25.00	434.50	98.10	82.90	113.30	101.90	111.40	37.30
10	31.60	27.20	16.50	22.30	25.00	370.40	135.10	86.70	132.80	100.00	98.10	37.30
11	30.50	26.10	16.50	22.30	25.00	271.70	151.20	109.50	132.80	100.00	90.50	36.00
12	30.50	25.00	16.50	22.30	25.00	328.50	130.50	111.40	130.50	98.10	86.70	36.00
13	29.40	22.30	16.50	22.30	26.10	139.70	113.30	58.00	130.50	98.10	82.90	34.90
14	30.50	21.40	16.50	22.30	26.10	121.30	81.00	69.10	130.50	96.20	79.30	34.90
15	31.60	18.40	16.00	21.40	26.10	36.00	64.00	37.30	130.50	96.20	75.90	33.80
16	31.60	17.70	16.00	21.40	31.60	34.90	55.00	178.80	135.10	94.30	75.90	33.80
17	31.60	17.00	16.00	21.40	34.90	121.30	47.70	151.20	135.10	103.80	72.50	33.80
18	31.60	17.00	16.00	21.40	34.90	139.70	29.40	119.00	135.10	320.80	70.80	33.80
19	30.50	17.00	16.00	21.40	34.90	228.50	24.10	117.10	132.80	162.70	69.10	33.80
20	30.50	17.00	16.00	21.40	34.90	236.60	20.50	113.30	132.80	135.10	67.40	32.70
21	31.60	17.00	19.10	21.40	34.90	258.20	17.70	103.80	132.80	121.30	65.70	32.70
22	31.60	16.50	19.10	24.10	33.80	258.20	19.80	135.10	128.20	121.30	64.00	32.70
23	30.50	16.50	18.40	24.10	33.80	231.20	20.50	117.10	128.20	119.00	62.50	31.60
24	30.50	16.50	18.40	23.20	33.80	231.20	26.10	109.50	125.90	119.00	61.00	31.60
25	31.60	16.50	18.40	23.20	33.80	228.50	32.70	105.70	121.30	94.30	59.50	31.60
26	31.60	16.50	18.40	22.30	33.80	228.50	47.70	119.00	119.00	90.50	47.70	30.50
27	30.50	16.50	18.40	22.30	32.70	228.50	39.90	105.70	111.40	82.90	46.40	30.50
28	30.50	16.50	18.40	21.40	32.70	231.20	33.80	132.80	111.40	79.30	45.10	30.50
29	31.60		18.40	21.40	33.80	231.20	142.00	153.50	109.50	77.60	43.80	29.40
30	31.60		18.40	21.40	34.90	196.10	277.10	171.90	109.50	75.90	42.50	29.40
31	31.60		18.40		36.00		215.00	196.10		74.20		29.40

Mean	31.35	24.39	17.24	21.17	29.97	231.30	96.22	124.79	131.84	108.65	81.58	34.92
Max	32.70	43.60	19.10	24.10	36.00	522.00	277.10	196.60	178.80	320.80	188.00	42.50
Min	29.40	16.50	16.00	18.40	25.00	34.90	17.70	37.30	109.50	74.20	42.50	29.40

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1968 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28.30	21.40	17.70	14.20	15.00	16.00	13.00	70.85	317.70	146.60	17.00	18.40
2	28.30	21.40	18.40	14.20	15.00	16.00	13.00	65.70	266.30	135.10	17.00	18.40
3	28.30	20.50	18.40	14.20	15.00	15.50	13.90	62.50	239.30	121.30	16.50	18.40
4	28.30	20.50	18.40	14.20	15.00	15.00	13.90	59.50	223.10	109.50	16.50	18.40
5	28.30	20.50	18.40	14.20	15.00	14.50	14.50	47.70	212.30	98.10	16.00	18.40
6	27.20	20.50	18.40	14.20	15.00	14.50	15.50	46.40	196.10	119.00	16.00	17.70
7	27.20	19.10	17.70	14.50	15.00	14.50	16.00	45.10	183.40	100.00	24.10	17.70
8	27.20	19.10	17.70	14.50	15.00	14.20	17.00	43.80	174.20	90.50	23.20	17.70
9	27.20	19.10	17.70	14.50	15.00	14.20	18.40	42.50	165.00	81.00	22.30	17.70
10	27.20	19.10	17.70	14.50	15.00	13.90	17.00	41.20	155.80	90.50	21.40	17.70
11	26.10	18.40	17.70	15.00	16.50	13.90	16.50	39.90	146.60	79.30	20.50	17.00
12	26.10	18.40	17.70	15.00	16.50	13.60	16.00	38.60	137.40	72.50	19.80	17.00
13	26.10	17.70	17.70	14.50	17.00	13.60	16.50	37.30	137.40	64.00	19.10	17.00
14	26.10	17.70	17.70	14.50	17.00	13.60	16.00	36.00	121.30	59.50	22.30	17.00
15	26.10	17.70	17.00	14.50	18.40	13.60	16.00	38.60	109.50	46.40	21.40	17.00
16	25.00	17.70	16.50	15.00	18.40	13.30	16.00	39.90	101.90	43.80	21.40	17.00
17	25.00	17.70	16.50	15.00	19.10	13.00	17.70	271.70	94.30	41.20	21.40	16.50
18	25.00	17.70	16.50	15.00	19.10	13.00	25.00	285.20	84.80	41.20	21.40	16.50
19	25.00	17.70	16.50	15.00	18.40	13.00	28.20	480.00	79.30	38.60	21.40	16.50
20	25.00	17.70	16.50	15.00	18.40	12.85	21.40	638.20	75.90	36.00	20.50	16.50
21	24.10	17.70	16.50	15.50	18.40	12.85	15.50	696.70	74.20	36.00	20.50	16.50
22	24.10	17.70	16.00	15.50	17.70	13.60	11.10	731.80	72.50	33.80	20.50	16.50
23	24.10	18.40	15.50	15.50	17.00	13.60	11.00	536.80	70.80	31.60	19.80	16.50
24	24.10	18.40	15.50	15.50	17.00	13.00	20.50	333.20	69.10	29.40	19.80	16.00
25	24.10	17.70	15.50	15.50	17.00	12.85	46.40	302.20	67.40	27.20	19.80	16.00
26	23.20	17.70	15.50	15.50	17.00	12.85	103.80	287.90	65.70	25.00	19.80	16.00
27	23.20	18.40	15.00	15.50	16.00	13.00	198.80	274.40	64.00	23.20	19.10	16.00
28	23.20	18.40	15.00	15.50	16.00	13.00	204.20	285.20	62.50	21.40	19.10	16.00
29	23.20	16.40	15.00	15.50	16.00	13.00	153.50	376.60	181.10	19.80	19.10	16.00
30	22.30		15.00	15.50	16.00	13.00	121.30	476.50	174.20	18.40	18.40	16.00
31	22.30		14.50		15.50		98.10	487.00		17.00		16.00

Mean	25.51	18.71	16.77	14.89	16.53	13.75	42.76	232.87	137.44	61.19	19.84	16.97
Max	28.30	21.40	18.40	15.50	19.10	16.00	204.20	731.80	317.70	146.60	24.10	18.40
Min	22.30	16.40	14.50	14.20	15.00	12.85	11.00	36.00	62.50	17.00	16.00	16.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1969 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.50	13.60	12.85	12.40	12.25	15.50	17.00	206.90	13.00	55.00	12.55	10.70
2	15.50	13.60	12.85	12.40	12.25	15.50	17.00	206.90	12.85	58.00	12.40	10.70
3	15.50	13.60	12.85	12.40	12.40	15.50	19.10	473.00	12.70	50.50	12.25	10.60
4	15.50	13.60	12.85	12.40	12.40	15.50	19.10	444.50	12.55	43.80	12.10	10.60
5	15.50	13.60	12.85	12.40	12.40	15.50	18.40	364.20	12.40	33.80	11.95	10.50
6	15.00	13.60	12.85	12.40	12.40	18.40	18.40	575.80	12.85	29.40	11.80	10.50
7	15.00	13.60	12.85	12.40	12.55	23.20	17.70	685.00	19.10	28.30	11.65	10.45
8	15.00	13.60	12.85	12.40	12.55	31.60	17.70	438.00	24.10	27.20	11.50	10.45
9	15.00	13.30	12.85	12.40	12.55	38.60	17.00	223.10	21.40	26.10	11.40	10.45
10	15.00	13.30	12.85	12.40	12.55	47.70	16.50	139.70	10.80	25.00	11.30	10.40
11	14.50	13.30	12.70	12.40	12.70	58.00	16.00	105.70	10.70	23.20	11.20	10.40
12	14.50	13.30	12.70	12.40	12.70	70.80	16.00	72.50	19.80	19.80	11.10	10.40
13	14.50	13.30	12.70	12.40	12.70	79.30	16.00	61.00	16.00	18.40	11.00	10.35
14	14.50	13.30	12.70	12.40	12.70	84.80	17.00	43.80	13.00	17.00	11.00	10.35
15	14.50	13.30	12.70	12.40	12.70	84.80	17.00	33.80	11.10	17.00	10.90	10.35
16	14.50	13.30	12.70	12.40	12.70	62.50	17.00	24.10	10.05	16.50	10.90	10.35
17	14.20	13.00	12.70	12.25	12.85	50.50	16.50	21.40	47.70	16.50	10.80	10.30
18	14.20	13.00	12.70	12.25	20.50	45.10	16.50	17.00	41.20	16.00	10.80	10.30
19	14.20	13.00	12.70	12.25	25.00	39.90	18.40	20.50	33.80	15.50	10.80	10.30
20	14.20	13.00	12.70	12.25	24.10	33.80	23.20	19.80	31.60	15.00	10.80	10.30
21	14.20	13.00	12.55	12.25	23.20	28.30	32.70	19.10	27.20	15.00	10.80	10.25
22	14.20	13.00	12.55	12.25	21.40	27.20	33.80	18.40	25.00	14.50	10.80	10.25
23	14.20	13.00	12.55	12.25	18.40	24.10	34.90	17.00	25.00	14.50	10.80	10.25
24	13.90	13.00	12.55	12.25	17.00	22.30	39.90	16.00	29.40	14.20	10.70	10.25
25	13.90	13.00	12.55	12.25	16.00	21.40	69.10	15.00	23.20	14.20	10.70	10.25
26	13.90	13.00	12.55	12.25	15.50	20.50	109.50	14.50	21.40	13.60	10.70	10.20
27	13.90	13.00	12.55	12.25	16.00	19.80	153.50	14.20	20.50	13.60	10.70	10.20
28	13.90	13.00	12.55	12.25	16.00	19.10	90.50	13.90	21.40	13.00	10.70	10.20
29	13.90		12.55	12.40	15.50	18.40	67.40	13.60	27.20	13.00	10.70	10.20
30	13.90		12.55	12.40	15.50	18.40	255.50	13.30	27.20	12.70	10.70	10.20
31	13.90		12.55		15.50		201.50	13.00		12.70		10.20
Mean	14.52	13.26	12.70	12.34	15.26	35.53	46.45	140.15	21.14	22.68	11.18	10.36
Max	15.50	13.60	12.85	12.40	25.00	84.80	255.50	685.00	47.70	58.00	12.55	10.70
Min	13.90	13.00	12.55	12.25	12.25	15.50	16.00	13.00	10.05	12.70	10.70	10.20

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1970 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.15	9.90	9.75	9.65	9.50	9.55	11.65	37.30	630.40	84.80	47.70	34.90
2	10.15	9.90	9.75	9.65	9.50	9.55	11.95	128.20	441.50	96.20	46.40	34.90
3	10.15	9.90	9.75	9.65	9.50	9.55	19.20	105.70	260.90	94.30	45.10	33.80
4	10.15	9.90	9.75	9.65	9.50	9.55	53.50	56.50	239.30	92.40	43.80	33.80
5	10.15	9.90	9.75	9.60	9.50	9.60	67.40	37.30	220.40	88.60	42.50	33.80
6	10.10	9.90	9.70	9.60	9.55	9.70	61.00	31.60	160.40	86.70	41.20	32.70
7	10.10	9.90	9.70	9.60	9.55	9.85	45.10	25.00	105.70	81.00	41.20	32.70
8	10.10	9.90	9.70	9.60	9.55	9.80	34.90	56.50	58.00	81.00	41.20	32.70
9	10.10	9.85	9.70	9.60	9.50	9.75	29.40	53.50	45.10	77.60	39.90	31.60
10	10.10	9.85	9.70	9.60	9.50	9.85	26.10	43.80	38.60	77.60	39.90	31.60
11	10.10	9.85	9.70	9.55	9.50	9.95	34.90	28.30	169.60	75.90	39.90	31.60
12	10.05	9.85	9.70	9.55	9.50	11.52	46.40	33.80	802.00	75.90	38.60	31.60
13	10.05	9.85	9.70	9.55	9.50	96.20	55.00	42.50	665.50	74.20	38.60	31.60
14	10.05	9.85	9.70	9.55	9.50	86.70	61.10	41.20	358.00	74.20	38.60	31.60
15	10.05	9.85	9.70	9.55	9.50	67.40	72.50	75.90	304.80	74.20	37.30	30.50
16	10.05	9.85	9.70	9.55	9.50	70.80	72.50	113.30	302.20	72.50	37.30	30.50
17	10.05	9.80	9.65	9.55	9.50	59.50	43.80	105.70	290.60	72.50	37.30	30.50
18	10.00	9.80	9.65	9.55	9.50	20.50	34.90	81.00	285.20	69.10	36.00	30.50
19	10.00	9.80	9.65	9.55	9.65	19.10	30.50	56.50	277.10	69.10	36.00	30.50
20	10.00	9.80	9.65	9.55	9.65	16.50	17.00	46.40	250.10	69.10	39.90	30.50
21	10.00	9.80	9.65	9.55	9.60	16.50	16.00	41.20	228.50	69.10	42.50	30.50
22	10.00	9.80	9.65	9.55	9.60	14.50	15.00	47.70	209.60	65.70	39.90	29.40
23	10.00	9.75	9.65	9.50	9.60	13.60	14.20	39.90	188.00	65.70	37.30	29.40
24	10.00	9.75	9.60	9.50	9.55	13.00	13.60	30.50	174.20	64.00	36.00	29.40
25	9.95	9.75	9.60	9.50	9.55	12.55	13.30	26.10	162.70	64.00	36.00	29.40
26	9.95	9.75	9.60	9.50	9.55	12.10	13.00	24.10	139.70	52.00	34.90	29.40
27	9.95	9.75	9.60	9.50	9.55	11.95	12.85	43.80	123.60	52.00	34.90	29.40
28	9.95	9.75	9.60	9.50	9.55	11.96	12.70	132.80	77.60	58.00	33.80	28.30
29	9.95		9.60	9.50	9.55	11.80	12.55	148.90	111.40	53.50	33.80	28.30
30	9.95		9.60	9.50	9.55	11.80	12.40	158.10	101.90	52.00	32.70	28.30
31	9.95		9.60		9.55		12.25	171.90		50.50		28.30
Mean	10.04	9.83	9.67	9.56	9.54	22.82	31.50	66.61	247.42	72.05	39.01	31.03
Max	10.15	9.90	9.75	9.65	9.65	96.20	72.50	171.90	802.00	96.20	47.70	34.90
Min	9.95	9.75	9.60	9.50	9.50	9.55	11.65	24.10	38.60	50.50	32.70	28.30

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1971 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1							25.00	24.00	27.00	29.20	24.00	25.00
2							25.00	24.00	27.00	29.20	24.00	25.00
3							25.00	24.00	27.00	29.20	24.00	26.00
4							25.00	24.00	27.00	29.20	23.00	26.00
5							25.00	23.00		112.00	24.00	29.20
6							27.00	23.00		112.00	24.00	34.00
7							27.00	24.00		112.00	24.00	94.00
8							26.00	24.00		155.00	23.00	175.60
9							25.00	24.00		144.00	23.00	24.90
10							25.00	23.00		175.00	24.00	27.30
11							24.00	23.00		178.00	24.00	37.30
12							25.00	23.00		178.00	25.00	37.30
13							25.00	23.00		178.00	25.00	36.00
14							26.00	23.00		178.00	24.00	36.00
15							26.00	23.00		112.00	23.00	36.00
16							25.00	23.00		112.00	23.00	36.00
17							24.00	23.00		112.00	24.00	36.00
18							24.00	23.00		112.00	24.00	36.00
19							24.00	23.00		112.00	24.00	36.00
20							24.00	23.00		112.00	24.00	34.90
21							25.00	23.00		112.00	24.00	34.90
22							26.00	23.00		42.40	24.00	34.90
23							27.00	24.00		28.00	25.00	34.90
24							27.00	24.00		28.00	25.00	34.90
25							27.00	24.00		28.00	25.00	32.70
26							25.00	25.00		28.00	25.00	32.70
27							25.00	25.00		28.00	25.00	32.70
28							25.00	25.00		28.00	25.00	32.70
29							25.00	26.00		28.00	25.00	32.70
30							24.00	27.00		24.00	25.00	32.70
31							24.00	27.00		24.00		31.60
Mean							25.23	23.87	27.00	87.39	24.17	39.22
Max							27.00	27.00	27.00	178.00	25.00	175.60
Min							24.00	23.00	27.00	24.00	23.00	24.90

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1973 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	46.60	47.00	64.36	69.64		67.24	77.56	75.85	83.83	75.85	80.41	72.52
2	46.60	47.00	64.36	69.64		67.24	76.99	75.85	83.26	75.85	80.41	72.52
3	46.60	47.00	64.84	69.64		67.24	76.99	88.39	83.26	76.99	79.84	72.52
4	46.60	47.00	64.84	69.64		67.24	76.42	88.39	90.10	76.99	79.84	72.52
5	46.60	47.00	65.32	70.12		66.76	76.42	87.82	90.10	76.99	79.27	72.04
6	46.60	64.36	65.32	70.12		66.76	76.42	87.82	89.53	76.99	79.27	72.04
7	46.60	64.36	65.80	70.12		66.76	76.42	87.82	89.53	84.40	78.70	72.04
8	47.40	64.36	65.80	70.12		66.76	75.85	88.39	88.96	84.40	78.70	72.04
9	47.40	64.36	66.28	70.12		67.72	75.85	88.39	88.96	90.10	78.13	71.56
10	47.40	64.36	66.28	70.12		67.72	75.85	88.96	88.39	90.10	78.13	71.56
11	47.40	64.36	66.76	70.12		67.72	75.85	88.96	88.39	89.53	77.56	71.56
12	47.40	63.88	66.76	70.12		68.20	75.28	88.39	88.39	89.53	77.56	71.56
13	47.40	63.88	67.24	70.12		68.20	75.28	88.39	87.82	88.96	76.99	71.56
14	47.40	63.88	67.24	70.12		68.20	75.28	87.82	87.82	88.39	76.99	71.56
15	47.40	63.88	67.72	70.12		67.72	75.28	87.82	87.82	87.82	76.42	71.08
16	47.40	63.88	67.72	70.12		67.72	75.28	87.82	87.82	87.25	76.42	71.08
17	47.40	63.40	68.20	69.64		68.20	75.85	87.25	87.25	85.54	75.85	71.08
18	47.00	63.40	68.20	69.64		68.20	75.85	86.68	87.25	84.40	75.85	71.08
19	47.00	63.40	68.20	69.64		68.20	75.85	86.68	87.25	83.26	75.28	71.08
20	47.00	63.40	68.68	69.64		67.72	75.85	86.11	87.25	82.12	75.28	70.60
21	47.00	63.40	68.68	69.64		67.72	75.28	86.11	87.25	80.98	74.71	70.60
22	47.00	63.40	69.16	69.64		68.20	75.28	85.54	86.68	78.94	74.71	70.60
23	47.00	63.40	69.16	69.64		68.20	75.28	85.54	86.68	78.70	74.14	70.60
24	47.00	62.92	69.16	69.64		68.20	75.28	85.54	86.68	77.56	74.14	70.60
25	47.00	62.92	69.64	69.64		67.72	74.71	85.54	86.68	76.42	73.57	70.60
26	47.00	62.92	69.64	69.64		67.72	74.71	84.97	86.68	75.28	73.57	70.12
27	47.00	62.92	69.64	70.60		67.72	74.71	84.97	86.68	74.14	73.57	70.12
28	47.00	62.92	69.64	70.60		72.52	74.71	84.97	86.11	74.14	73.00	70.12
29	47.00		70.12	70.60		78.13	75.28	84.40	86.11	73.00	73.00	70.12
30	47.00		70.12	70.60		77.56	75.28	84.40	86.11	73.00	73.00	70.12
31	47.00		70.12				75.28	83.83		73.00		70.12
Mean	47.04	60.68	67.58	69.96		68.51	75.68	86.11	87.29	80.99	76.48	71.20
Max	47.40	64.36	70.12	70.60		78.13	77.56	88.96	90.10	90.10	80.41	72.52
Min	46.60	47.00	64.36	69.64		66.76	74.71	75.85	83.26	73.00	73.00	70.12

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1975 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	67.24	66.76	65.32	62.44	66.28	68.68	72.52	69.16	69.16	68.20	68.68	64.84
2	66.76	66.76	65.32	62.44	67.24	68.20	72.04	69.16	69.16	67.72	68.68	64.84
3	66.76	66.76	65.32	62.44	67.72	67.24	71.56	69.64	69.64	67.72	68.20	64.36
4	66.76	66.76	65.32	62.92	67.72	67.72	71.56	69.64	69.64	67.24	68.20	64.36
5	66.76	66.76	65.32	62.92	67.72	65.80	72.04	71.56	68.68	66.76	68.20	63.88
6	66.76	66.76	64.84	62.92	68.20	64.84	72.52	72.04	68.20	66.76	67.72	63.88
7	66.76	66.76	64.84	62.92	67.24	63.40	72.04	73.00	67.24	66.28	67.72	63.40
8	66.76	66.28	64.84	63.40	64.84	62.44	72.52	72.52	67.24	65.80	67.72	63.40
9	66.76	66.28	64.84	63.40	63.40	62.44	72.52	73.00	66.76	65.80	67.24	62.92
10	66.76	66.28	64.84	63.40	62.92	61.96	72.04	78.13	65.80	65.32	67.24	62.92
11	66.76	66.28	64.84	63.88	62.92	61.96	71.56	77.56	64.84	64.84	67.24	62.44
12	66.28	66.28	64.84	63.88	62.44	61.48	71.08	71.56	63.40	64.36	66.76	62.44
13	66.28	66.28	64.84	63.88	62.44	61.00	70.60	72.04	63.40	64.36	66.76	61.96
14	66.28	66.28	64.36	64.36	62.44	60.04	70.12	71.56	63.40	63.88	66.76	61.96
15	66.28	65.80	64.36	64.36	61.96	60.04	70.12	71.08	63.40	63.40	66.28	61.48
16	66.28	65.80	64.36	64.36	62.44	60.04	69.16	70.60	62.92	62.92	66.28	61.48
17	66.28	65.80	64.36	63.88	62.44	58.60	68.20	70.60	62.44	62.92	66.28	61.00
18	66.28	65.80	64.36	64.36	62.44	59.56	67.24	70.12	62.44	62.44	65.80	61.00
19	66.28	65.80	64.36	64.36	61.48	60.04	66.28	69.64	61.96	62.92	65.80	60.52
20	66.28	65.80	64.36	64.36	61.48	61.48	66.28	70.12	62.44	73.00	65.80	60.52
21	66.28	65.80	63.88	64.84	62.44	62.92	65.32	70.60	62.44	72.52	65.32	60.04
22	66.28	65.32	63.88	64.84	62.92	62.92	65.32	71.08	61.96	73.00	65.32	60.04
23	66.28	65.32	63.88	64.84	62.92	64.36	64.36	70.60	61.48	70.60	65.32	59.56
24	66.28	65.32	63.88	64.84	63.40	65.32	64.36	72.04	61.00	70.60	64.84	59.56
25	65.80	65.32	63.88	65.32	64.36	66.76	64.36	71.56	61.48	70.12	64.84	59.08
26	65.80	65.32	63.88	65.32	64.84	67.24	62.44	71.56	61.48	70.12	64.84	59.08
27	65.80	65.32	63.88	64.84	65.32	67.72	62.44	71.08	60.52	69.64	64.36	58.60
28	65.80	65.32	63.40	65.32	66.28	68.20	67.72	70.60	62.92	69.64	64.36	58.60
29	65.80		63.40	65.80	67.24	68.20	65.80	70.12	59.56	69.16	64.36	58.12
30	65.80		63.40	65.80	68.20	68.20	69.16	70.12	61.96	69.16	63.88	58.12
31	65.80		63.40		88.68		68.68	69.64		68.68		58.12
Mean	66.36	66.04	64.41	64.09	65.24	63.96	68.77	71.35	64.23	67.29	66.36	61.37
Max	67.24	66.76	65.32	65.80	88.68	68.68	72.52	78.13	69.64	73.00	68.68	64.84
Min	65.80	65.32	63.40	62.44	61.48	58.60	62.44	69.16	59.56	62.44	63.88	58.12

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1976 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	57.64	54.76	49.00	45.40	43.80	60.04	72.04	72.52	72.04	72.52	59.08	49.80
2	57.64	54.76	48.60	45.40	43.80	60.04	72.04	72.52	72.04	72.52	59.08	49.40
3	57.64	54.28	48.60	45.00	43.80	60.52	72.04	73.00	71.56	72.04	58.60	49.00
4	57.16	54.28	48.20	45.00	43.80	61.48	72.52	73.00	71.56	71.56	58.60	48.60
5	57.16	83.80	48.20	45.00	43.80	61.96	72.52	74.14	71.08	71.08	58.12	48.20
6	57.16	53.80	47.80	45.00	43.40	61.96	72.04	75.85	71.08	70.60	58.12	47.80
7	56.68	53.40	47.80	45.00	43.40	62.92	72.04	75.85	70.60	70.12	57.64	47.40
8	56.68	53.40	47.40	44.60	43.80	62.92	71.56	76.99	70.60	69.64	57.64	47.00
9	56.68	53.00	47.40	44.60	43.80	63.40	71.56	77.56	70.12	69.14	57.16	46.60
10	56.20	53.00	47.00	44.60	44.20	64.36	72.04	78.13	71.02	68.68	57.16	46.20
11	56.20	52.60	47.00	44.60	44.20	64.36	72.04	77.56	70.60	68.20	56.68	15.00
12	56.20	52.60	47.00	44.60	44.20	64.84	71.56	75.28	71.08	67.72	56.68	45.40
13	55.72	52.20	46.60	44.60	44.60	65.32	72.04	74.14	71.56	67.24	56.20	45.00
14	55.72	52.20	46.60	44.60	44.60	66.28	71.56	74.14	71.56	66.76	56.20	44.60
15	55.72	51.80	46.60	44.60	44.60	67.40	72.04	73.57	72.04	66.28	55.72	44.20
16	55.24	51.80	46.60	44.20	44.20	67.24	71.56	73.57	72.52	66.28	55.72	43.80
17	55.24	51.40	46.20	44.20	44.60	67.72	71.56	74.14	73.00	65.80	55.24	43.40
18	55.24	51.40	46.20	44.20	44.60	67.72	72.04	73.57	73.00	65.32	54.76	43.00
19	54.76	51.00	46.20	44.20	90.67	67.24	72.04	73.00	73.57	64.84	54.76	42.60
20	54.76	51.00	46.20	44.20	91.24	67.24	72.52	74.14	73.00	64.36	54.28	42.20
21	54.76	50.60	46.20	44.20	91.24	68.20	72.52	74.14	72.52	63.88	53.80	41.80
22	54.28	50.60	15.00	44.20	93.52	67.72	72.04	73.57	72.04	63.40	53.40	41.80
23	54.28	50.20	15.00	44.20	93.52	68.20	72.04	73.57	71.56	62.92	53.00	41.40
24	54.28	50.20	15.00	44.20	94.09	68.68	71.56	73.00	71.08	62.44	52.60	41.40
25	53.80	49.80	15.00	44.20	94.09	68.20	71.56	73.00	70.60	61.96	52.20	41.00
26	53.80	49.80	15.00	43.80	94.09	69.64	71.08	72.52	70.12	61.48	51.80	41.00
27	53.80	49.40	15.00	43.80	93.52	70.60	71.08	72.04	70.12	61.00	51.40	40.60
28	53.40	49.40	45.40	43.80	93.52	72.04	71.56	72.04	69.64	60.52	51.00	40.60
29	53.40	49.00	45.40	43.80	94.09	72.04	72.04	72.04	69.64	60.04	50.60	40.20
30	53.40		45.40	43.80	94.09	72.52	72.52	71.56	69.16	59.56	50.20	40.20
31	53.00		45.40		94.09		72.52	71.56		59.56		39.80
Mean	55.41	53.09	40.74	44.45	64.68	66.09	71.93	73.93	71.34	66.05	55.25	43.19
Max	57.64	83.80	49.00	45.40	94.09	72.52	72.52	78.13	73.57	72.52	59.08	49.80
Min	53.00	49.00	15.00	43.80	43.40	60.04	71.08	71.56	69.16	59.56	50.20	15.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1977 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	39.80	37.48	36.84	35.88	34.28	32.68	41.80	45.80	92.38	87.25	80.98	68.68
2	39.80	37.48	36.84	35.88	34.28	32.68	43.00	94.66	92.95	87.25	80.98	68.20
3	39.40	37.48	36.84	35.88	34.28	32.68	43.40	94.66	93.52	86.68	80.41	67.72
4	39.40	37.48	36.84	35.88	34.28	32.68	43.40	95.23	93.52	86.68	80.41	67.24
5	39.40	37.48	36.84	35.88	34.28	32.36	44.20	45.80	92.95	86.11	79.84	66.76
6	39.00	37.48	36.84	35.24	33.64	32.36	44.20	45.80	92.38	86.11	79.84	66.28
7	39.00	37.48	36.84	35.24	33.64	32.36	43.80	45.80	92.38	85.54	79.27	65.80
8	39.00	37.16	36.84	35.24	33.64	32.36	43.40	95.23	92.95	85.54	79.27	65.32
9	38.60	37.16	36.52	35.24	33.64	32.36	43.00	95.23	92.95	85.54	78.70	64.84
10	38.60	37.16	36.52	35.24	33.32	32.36	43.80	94.66	92.38	84.97	78.70	64.36
11	38.60	37.16	36.52	35.24	33.32	32.36	43.80	94.66	91.81	84.97	78.13	63.88
12	38.60	37.16	36.52	35.24	33.32	32.36	44.60	95.23	91.81	84.97	77.56	23.50
13	38.60	37.16	36.52	34.92	33.32	32.36	44.60	94.66	91.24	84.40	76.42	23.50
14	38.60	37.16	36.52	34.92	33.32	32.36	45.00	94.66	91.24	84.40	75.85	23.50
15	38.60	36.84	36.52	34.92	33.32	32.36	45.00	94.66	91.81	84.40	75.28	23.50
16	38.60	36.84	36.52	34.92	33.32	32.36	44.60	94.09	91.24	83.83	74.71	23.50
17	38.60	36.84	36.52	34.92	33.32	31.72	44.60	94.09	91.24	83.83	74.71	23.50
18	38.20	36.84	36.52	34.92	33.00	31.72	44.20	94.66	91.81	83.83	74.14	23.50
19	38.20	36.84	36.20	34.92	33.32	31.72	44.20	94.66	91.81	83.26	74.14	23.25
20	38.20	36.84	36.20	34.92	33.32	31.40	43.80	94.09	91.24	83.26	74.14	23.25
21	38.20	36.84	36.20	34.92	33.00	31.40	43.80	94.09	91.24	83.26	73.57	23.25
22	38.20	36.84	36.20	34.60	33.00	31.40	44.20	93.52	90.67	82.12	73.00	23.25
23	38.20	36.84	36.20	34.60	33.00		44.60	93.52	90.67	82.12	72.52	23.25
24	38.20	36.52	36.20	34.60	33.00		45.00	92.95	90.10	82.12	72.04	23.25
25	38.20	36.52	36.20	34.60	32.68		45.00	93.52	89.53	81.55	71.56	23.25
26	37.80	36.52	36.20	34.60	32.68		45.40	92.95	88.96	81.55	71.08	23.25
27	37.80	36.52	36.20	34.60	32.68		45.40	93.52	88.96	81.55	70.60	23.00
28	37.80	36.52	36.20	34.60	32.68		45.00	93.52	88.39	80.98	70.12	23.00
29	37.80		36.20	34.60	32.68		45.80	92.95	88.39	80.98	69.64	23.00
30	37.80		35.88	34.60	32.68		45.40	92.38	87.82	80.98	69.16	23.00
31	37.80		35.88		32.68		45.40	92.38		80.98		23.00

Mean	38.54	37.02	36.45	35.06	33.32	32.20	44.30	87.86	91.28	83.90	75.56	38.53
Max	39.80	37.48	36.84	35.88	34.28	32.68	45.80	95.23	93.52	87.25	80.98	68.68
Min	37.80	36.52	35.88	34.60	32.68	31.40	41.80	45.80	87.82	80.98	69.16	23.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1978 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.00	22.50	22.25	21.75	21.50	25.00	30.44	36.52	44.20	43.00	41.40	39.80
2	23.00	22.50	22.25	21.75	21.50	26.60	30.44	36.84	44.20	42.60	41.40	39.80
3	23.00	22.50	22.25	21.75	21.50	26.60	30.44	37.48	43.80	42.60	41.40	39.80
4	23.00	22.50	22.25	21.75	21.50	26.28	30.76	38.60	43.80	42.60	41.40	39.80
5	23.00	22.50	22.00	21.75	21.50	25.90	30.76	39.80	43.40	42.60	41.40	39.80
6	23.00	22.50	22.00	21.75	21.50	25.96	30.44	39.80	43.40	42.20	40.60	39.80
7	23.00	22.50	22.00	21.75	21.50	26.28	30.44	41.00	43.40	42.20	40.60	39.80
8	23.00	22.50	22.00	21.75	21.50	25.96	30.76	40.60	43.40	42.20	40.60	39.80
9	23.00	22.50	22.00	21.75	21.50	25.96	31.08	40.20	43.00	42.20	40.60	39.80
10	22.75	22.50	22.00	21.75	21.25	25.64	31.08	40.20	43.00	42.20	40.60	39.80
11	22.75	22.50	22.00	21.75	21.25	26.60	31.08	41.40	43.00	41.80	40.60	39.80
12	22.75	22.50	21.25	21.75	21.25	26.60	30.76	41.40	43.40	41.80	40.60	39.80
13	22.75	22.50	21.25	21.75	21.25	26.28	31.08	41.00	43.40	41.80	40.60	39.80
14	22.75	22.50	22.00	21.75	21.25	26.28	31.40	41.80	43.00	41.80	40.20	39.80
15	22.75	22.50	22.00	21.50	21.25	26.28	31.40	41.80	43.00	41.80	40.20	39.80
16	22.75	22.50	22.00	21.50	21.25	25.96	31.72	41.40	43.40	41.80	40.20	39.80
17	22.75	22.50	22.00	21.50	21.25	27.56	32.36	41.80	43.40	41.40	40.20	39.40
18	22.75	22.50	22.00	21.50	21.25	27.88	32.36	42.20	43.00	41.40	40.20	39.40
19	22.75	22.50	22.00	21.50	21.25	28.52	32.04	44.60	43.00	41.40	40.20	39.40
20	22.75	22.50	21.25	21.50	21.25	28.52	32.68	45.00	43.00	39.00	40.20	39.40
21	22.75	22.50	21.25	21.50	21.25	30.12	34.28	45.00	43.40	39.40	40.20	39.40
22	22.75	22.50	21.75	21.50	21.25	30.12	34.28	45.80	43.40	39.40	40.20	39.40
23	22.50	22.50	21.75	21.50	21.25	30.44	35.24	45.80	43.00	39.00	40.20	39.40
24	22.50	22.50	21.75	21.50	21.25	31.08	35.56	45.40	42.60	39.00	40.20	39.40
25	22.50	22.50	21.75	21.50	21.25	31.08	36.20	45.00	42.60	42.60	40.20	39.40
26	22.50	22.50	21.75	21.50	21.25	31.40	36.20	45.00	43.00	42.20	40.20	39.40
27	22.50	22.50	21.75	21.50	21.75	31.08	37.16	45.40	42.60	42.60	39.80	39.40
28	22.50	22.50	21.75	21.50	22.25	31.08	37.48	45.40	42.60	42.20	39.80	39.40
29	22.50		21.75	21.50	24.00	30.76	37.16	45.00	43.00	41.80	39.80	39.40
30	22.50		21.75	21.50	24.00	30.76	34.60	45.00	43.80	41.80	39.80	39.40
31	22.50		21.75		24.50		35.56	40.60		41.80		39.40

Mean	22.75	22.50	21.85	21.62	21.65	27.95	32.81	42.16	43.24	41.62	40.45	39.61
Max	23.00	22.50	22.25	21.75	24.50	31.40	37.48	45.80	44.20	43.00	41.40	39.80
Min	22.50	22.50	21.25	21.50	21.25	25.00	30.44	36.52	42.60	39.00	39.80	39.40

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1983 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.90	10.90	10.50	14.50	16.50	28.50	10.10	9.50
2					10.30	10.70	10.70	13.90	17.50	24.50	10.10	9.50
3					10.70	10.70	11.10	13.30	17.00	22.50	10.10	9.50
4					10.70	11.10	10.70	14.50	16.50	19.50	10.10	9.70
5					10.70	11.50	11.30	13.90	15.50	20.50	10.10	9.70
6					10.70	13.90	13.30	14.20	14.50	18.50	10.10	9.70
7					10.70	13.00	13.30	14.50	16.00	18.50	10.10	9.70
8					10.90	12.70	13.90	15.50	15.00	17.50	10.10	9.50
9					10.70	11.50	14.20	16.00	14.50	17.50	10.10	9.70
10					10.70	11.50	15.00	23.50	15.00	16.50	10.10	9.70
11					10.90	11.30	14.50	220.00	13.90	28.50	10.10	9.50
12					10.90	11.50	13.60	499.20	13.30	23.50	10.10	9.50
13					10.90	11.30	13.00	423.20	12.40	21.50	9.90	9.50
14					10.90	11.30	11.50	698.10	11.80	19.50	9.90	9.50
15					10.90	11.30	11.50	983.00	12.40	19.00	10.10	9.70
16					10.90	11.10	11.30	1137.00	11.80	18.50	10.10	9.70
17				10.70	10.70	10.90	10.70	220.00	11.50	17.50	10.10	9.50
18				10.70	10.90	10.70	10.90	220.00	12.10	16.50	10.10	9.50
19				10.70	10.70	10.70	11.30	36.40	11.50	16.00	10.10	9.50
20				10.90	10.90	11.10	11.80	27.50	11.50	21.50	10.10	9.50
21				11.30	10.50	10.90	12.10	26.50	11.10	18.50	10.10	9.30
22				11.50	10.30	10.70	10.70	25.50	11.10	17.50	10.10	9.30
23				11.30	10.70	10.90	10.70	20.50	11.10	16.50	10.10	9.50
24				11.10	10.30	10.90	11.10	20.50	11.10	14.50	10.10	9.50
25				10.90	10.50	10.70	10.70	20.50	10.90	14.50	9.90	9.50
26				10.70	10.70	11.10	10.30	26.50	13.30	13.90	9.90	9.50
27				10.70	10.90	11.10	10.50	27.50	423.20	13.30	10.10	9.30
28				10.50	11.30	11.30	10.50	29.50	522.00	12.70	10.10	9.50
29				10.70	11.10	10.70	10.30	29.50	295.00	12.10	9.90	9.50
30				10.70	11.10	10.50	11.50	20.50	52.50	11.50	10.10	9.30
31					11.10		11.50	18.00		12.10		9.50

Mean 10.89 10.78 11.25 11.74 157.52 54.72 18.16 10.07 9.53
 Max 11.50 11.30 13.90 15.00 1137.00 522.00 28.50 10.10 9.70
 Min 10.50 10.30 10.50 10.30 13.30 10.90 11.50 9.90 9.30

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1984 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.50	9.10	9.10	8.50	10.70	11.10	52.50	205.90	119.50	50.20	89.50	24.50
2	9.50	9.10	9.10	8.50	10.30	11.10	287.50	220.00	107.50	41.00	85.80	22.50
3	9.50	9.10	9.10	8.50	10.70	11.30	598.00	736.60	56.20	43.30	101.50	21.50
4	9.50	9.10	9.10	8.50	11.10	11.30	370.00	212.95	59.90	36.40	101.50	20.50
5	9.50	9.10	9.10	8.50	11.10	11.30	220.00	177.70	74.70	41.00	63.60	19.50
6	9.50	9.10	9.10	8.50	11.10	11.10	89.50	220.00	82.10	47.90	63.60	19.50
7	9.50	9.10	9.10	8.50	11.10	11.10	220.00	522.00	101.50	47.90	56.20	22.50
8	9.50	9.10	9.10	8.50	11.10	11.10	163.60	446.00	101.50	47.90	50.20	19.50
9	9.50	9.10	9.10	8.50	11.10	11.10	149.50	408.00	50.20	47.90	47.90	20.50
10	9.50	9.10	9.10	8.50	11.10	11.10	113.50	522.00	89.50	47.90	50.20	29.50
11	9.30	9.10	9.10	8.50	10.90	11.10	89.50	675.00	95.50	50.20	56.20	34.10
12	9.30	9.10	9.10	8.50	10.90	11.10	41.00	598.00	101.50	50.20	50.20	29.50
13	9.30	9.10	9.10	8.50	11.10	11.10	29.50	636.50	107.50	50.20	52.50	29.50
14	9.30	9.10	9.10	9.10	11.10	11.10	24.50	713.50	71.00	47.90	47.90	31.80
15	9.30	9.10	9.10	8.90	11.10	11.10	24.50	744.30	71.00	47.90	45.60	29.50
16	9.30	9.10	9.10	8.90	11.10	11.10	22.50	752.00	50.20	56.20	43.30	29.50
17	9.30	9.10	9.10	8.90	11.10	12.70	29.50	859.80	47.90	63.60	45.60	31.80
18	9.30	9.10	9.10	9.50	10.90	52.50	28.50	875.20	50.20	52.50	47.90	34.10
19	9.30	9.10	9.10	9.90	10.90	47.90	23.50	220.00	47.90	56.20	47.90	29.50
20	9.30	9.10	9.10	9.90	10.90	38.70	25.50	52.20	43.30	52.50	41.00	27.50
21	9.30	9.10	9.10	9.50	10.90	52.50	20.50	50.20	47.90	52.50	38.70	28.50
22	9.30	9.10	9.10	9.50	11.10	149.50	19.50	113.50	45.60	56.20	36.40	36.40
23	9.30	9.10	9.10	9.50	11.10	265.00	19.00	119.50	50.20	50.20	41.00	34.10
24	9.30	9.10	9.10	9.50	11.10	476.40	19.50	107.50	45.60	50.20	43.30	31.80
25	9.10	9.10	9.10	9.10	11.10	400.40	19.50	137.50	52.50	45.60	43.30	31.80
26	9.10	9.10	9.10	9.10	11.10	370.00	19.50	125.50	52.50	50.20	45.60	31.80
27	9.10	9.10	9.10	9.10	11.10	220.00	21.50	107.50	50.20	50.20	45.60	31.80
28	9.10	9.10	9.10	9.10	11.10	149.50	19.50	143.50	45.60	47.90	43.30	29.50
29	9.10	9.10	9.10	9.50	11.10	113.50	20.50	177.70	50.20	101.50	43.30	28.50
30	9.10		9.10	9.50	11.10	59.90	21.50	177.70	45.60	107.50	45.60	29.50
31	9.10		9.10		11.10		24.50	392.80		332.50		31.80

Mean 9.32 9.10 9.10 8.97 11.01 86.22 91.21 369.37 67.15 62.04 53.81 28.14
 Max 9.50 9.10 9.10 9.90 11.10 476.40 598.00 875.20 119.50 332.50 101.50 36.40
 Min 9.10 9.10 9.10 8.50 10.30 11.10 19.00 50.20 43.30 36.40 36.40 19.50

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1985 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		21.5	15.5	24.5		29.50				38.00	26.00	15.00
2		21.5	15.5	23.5		28.50				33.10	38.00	18.00
3		22.5	15.5	19.5		25.50				54.80	33.10	12.30
4		23.5	15.5	19.5		29.50				38.00	50.00	11.30
5		22.5	15.5	20.5		29.50				31.00	50.00	11.10
6		21.5	15.5	21.5		34.50				15.90	13.50	11.00
7		21.5	15	21.5		36.40				23.30	31.00	10.90
8		22.5	15	21.5		38.70				22.85	26.00	10.90
9		22.5	15	20.5		45.60				17.10	38.00	11.00
10		22.5	15	20.5		45.60				21.50	50.00	11.20
11		21.5	21.5	19.5		125.50				15.00	27.50	10.90
12		21.5	19.5	19.5		143.50				14.85	29.50	10.60
13		21.5	15.5	20.5		163.60				68.20	26.00	10.70
14		21.5	16.5	21.5		163.60				53.20	18.35	10.50
15		21.5	16.5	21.5		198.80				53.20	18.35	10.60
16		21.5	16	21.5		242.50				51.60	79.20	10.70
17		21.5	19	21.50		302.50				39.20	70.40	11.70
18		20.5	18.5	21.50		882.90				40.40	64.40	11.70
19		20.5	18.5	21.50		377.60				39.20	64.40	11.80
20		19.5	17.5	21.50		438.40				36.60	66.00	11.60
21		20.5	18	21.50		721.20				37.30	70.40	11.40
22		19.5	17	20.50						35.90	68.20	11.50
23		19.5	17	20.50						41.60	61.20	11.10
24		20.5	17	21.50						39.20	59.60	11.30
25		21.5	17	22.50						36.60	70.40	11.20
26		20.5	24.5	21.50						37.30	77.00	11.00
27		21.5	20.5	24.50						33.80	72.60	11.00
28		19.5	19.5	23.50						32.40	74.80	11.10
29			19.5	21.50						31.00	104.80	10.80
30			19.5	21.50						33.10	83.60	11.20
31			21.5							28.50		11.20
Mean		21.29	17.52	21.40		195.40				35.28	52.08	11.49
Max		23.50	24.50	24.50		882.90				68.20	104.80	18.00
Min		19.50	15.00	19.50		25.50				14.85	13.50	10.50

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1986 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	59.9	11.1	10.5	8.5	7.20	10.70	15.60	13.80	12.70	12.10	11.40	10.80
2	63.6	12.4	10.5	8.3	7.20	10.70	18.70	14.40	12.80	12.30	11.50	10.70
3	47.9	10.5	10.7	8.3	7.20	11.10	21.15	15.00	13.00	12.40	11.30	10.60
4	50.2	11.3	10.7	8.3	7.20	11.30	23.76	16.20	13.20	12.40	11.40	10.50
5	52.5	10.7	10.9	8.3	7.20	11.80	26.50	27.00	13.40	12.20	11.40	10.25
6	56.2	11.3	11.5	8.3	7.00	12.40	30.50	97.60	12.50	11.70	11.10	10.25
7	56.2	10.7	11.3	8.3	7.00	13.30	35.20	100.00	12.60	11.30	11.20	10.30
8	50.2	10.3	11.1	8.3	7.00	13.60	40.40	107.20	12.80	11.00	11.30	10.30
9	47.9	10.5	10.5	8.1	7.00	14.20	47.60	83.60	12.90	11.20	11.30	10.35
10	50.2	10.9	11.1	8.1	7.00	14.50	50.00	81.40	12.70	11.30	11.40	10.30
11	149.5	9.9	11.3	8.1	6.90	15.50	440.50	72.60	655.20	11.10	11.70	10.30
12	47.9	10.1	10.5	7.9	6.90	15.00	812.40	77.00	104.80	11.20	11.80	10.00
13	45.6	10.5	8.5	7.9	6.80	14.50	880.80	77.00	109.60	11.70	11.70	10.45
14	45.6	11.1	8.5	7.9	7.10	17.00	707.00	51.80	610.80	12.20	11.70	10.40
15	47.9	10.9	8.5	7.9	7.20	18.50	736.60	56.40	640.40	12.30	11.70	10.45
16	47.9	11.1	8.5	7.9	7.20	19.00	797.20	58.00	744.00	11.60	11.80	10.40
17	19.5	9.5	8.5	7.50	7.20	19.50	10.50	61.20	90.40	58.00	11.80	10.40
18	19.5	9.7	8.7	7.50	7.20	21.50	10.70	64.40	100.00	59.60	11.90	10.20
19	21.5	9.7	8.7	7.50	7.30	22.50	11.10	68.20	14.40	64.40	11.90	10.20
20	21.5	9.9	8.7	7.30	7.40	23.50	11.40	72.60	15.00	68.20	11.90	10.30
21	19.5	9.9	8.7	7.40	7.90	26.50	11.50	77.00	17.10	70.40	11.90	10.35
22	18.5	9.9	8.7	7.40	8.10	31.80	11.50	48.80	12.30	64.40	11.30	10.30
23	18.5	9.7	8.7	7.40	8.70	38.70	12.30	44.00	12.30	62.80	11.10	10.20
24	14.5	9.7	8.7	7.30	8.90	43.30	12.40	47.60	11.40	64.40	11.10	10.30
25	15	9.5	8.7	7.30	9.30	47.90	12.50	51.60	11.00	70.40	11.00	10.25
26	14.2	9.9	8.7	7.30	9.50	50.20	12.70	53.20	11.30	70.40	11.00	10.40
27	14.2	9.5	8.3	7.30	9.50	59.90	13.00	56.40	11.40	77.00	11.00	10.45
28	13.9	9.7	8.3	7.30	9.70	67.30	13.10	59.60	11.00	64.40	11.10	10.50
29	13		8.3	7.30	10.10	74.70	14.55	54.80	11.20	68.20	11.00	10.25
30	12.4		8.3	7.20	10.50	78.40	12.50	61.20	12.10	70.40	11.10	10.25
31	13.9		8.5		10.90		12.80	59.60		72.60		10.35
Mean	37.70	10.35	9.45	7.78	7.91	27.63	156.98	59.01	111.14	38.50	11.43	10.36
Max	149.50	12.40	11.50	8.50	10.90	78.40	880.80	107.20	744.00	77.00	11.90	10.80
Min	12.40	9.50	8.30	7.20	6.80	10.70	10.50	13.80	11.00	11.00	11.00	10.00

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1987 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	34.5	18.35	21.95	19.75	19.40	21.50	32.40	58.00	526.00	24.20	12.50	
2	35.2	18	21.5	19.75	19.75	21.50	34.50	58.00	334.00	20.80	12.50	
3	36.6	17.7	21.5	19.75	20.10	21.50	44.00	59.60	382.80	20.80	12.80	
4	37.3	18	18	19.75	20.80	28.50	42.80	31.00	421.00	20.80	12.70	
5	37.3	17.4	18	20.8	20.80	31.00	24.20	31.00	460.00	20.80	12.70	
6	34.5	17.4	21.95	20.8	20.80	31.00	33.80	32.40	554.00	20.80	12.70	
7	35.9	17.7	20.8	20.8	20.80	34.50	34.50	32.40	568.00	20.10	12.70	
8	33.8	17.4	20.45	20.8	20.80	36.60	40.40	33.10	305.00	20.10	12.70	
9	32.4	18	19.75	19.75	20.80	36.60	42.80	33.10	427.50	20.10	12.60	
10	31	19.75	19.4	19.75	20.80	39.20	44.00	33.80	395.00	19.40	12.50	
11	30	19.75	20.1	19.75	20.10	44.00	47.60	30.50	197.60	19.40	12.50	
12	30.5	19.75	20.1	19.75	20.10	47.60	53.20	30.50	149.60	19.40	12.50	
13	28.5	19.75	19.75	20.1	20.10	50.00	53.20	30.50	130.00	19.05	12.50	
14	28.5	19.75	19.75	20.1	20.10	54.80	54.80	31.00	109.60	19.05	12.70	
15	23.75	19.75	20.1	20.1	19.75	72.60	56.40	30.50	100.00	19.05	12.70	
16	23.75	19.75	21.15	20.1	19.75	77.00	62.80	30.50	95.20	18.70	12.60	
17	23.75	19.75	20.45	19.75	19.75	202.00	33.10	276.00	92.80	18.00	12.70	
18	23.75	19.4	20.1	19.40	19.75	293.40	31.70	305.00	90.40	18.00	12.80	
19	23.75	19.4	20.1	19.40	19.75	224.00	30.50	334.00	95.20	18.00	12.80	
20	23.3	19.75	19.75	19.40	19.75	234.40	37.30	395.00	97.60	18.35	12.90	
21	22.4	20.1	20.45	19.40	20.10	265.60	36.60	97.60	62.80	18.70	12.90	
22	21.15	20.1	20.45	19.40	20.80	33.80	36.60	92.80	42.80	17.70	12.90	
23	21.95	20.1	20.45	19.40	20.10	33.10	42.80	92.80	40.40	17.70	12.90	
24	21.5	21.15	20.8	19.40	20.80	32.40	48.80	90.40	38.00	17.10	12.90	
25	19.75	21.15	20.8	19.40	20.80	33.80	40.40	90.40	26.00	17.10	12.80	
26	17.7	20.45	20.8	19.40	20.80	35.20	40.40	44.00	22.40	70.40	12.80	
27	17.7	23.3	20.8	19.40	20.80	66.00	40.40	44.00	21.95	70.40	12.80	
28	18.35	21.95	20.8	19.40	20.80	50.00	414.50	47.60	21.50	68.20	12.50	
29	19.4		19.75	19.40	21.50	38.00	460.00	50.00	21.50	68.20	12.70	
30	18.7		19.75	19.40	21.50	44.00	493.00	58.00	23.75	15.00	12.60	
31	18.7		19.75		21.50		512.80	554.00		15.00		

Mean 26.62 19.46 20.30 19.79 20.43 74.45 96.78 101.85 195.08 25.50 12.70
 Max 37.30 23.30 21.95 20.80 21.50 293.40 512.80 554.00 568.00 70.40 12.90
 Min 17.70 17.40 18.00 19.40 19.40 21.50 24.20 30.50 21.50 15.00 12.50

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1988 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	14.2	13.3				205.90	265.00	29.50	38.70	101.50	36.40
2	14.5	14.2	13.3				242.50	280.00	27.50	43.30	89.50	38.70
3	14.5	13.6	13.3				272.50	310.00	24.50	47.90	85.80	34.10
4	15	13.6	13				302.50	325.00	21.50	52.50	82.10	28.50
5	15	13.6	13				340.00	392.80	19.50	67.30	71.00	27.50
6	15	13.6	13				212.95	461.20	19.50	74.70	67.30	27.50
7	15	13.9	13.3				205.90	491.60	21.50	82.10	59.90	24.50
8	15	13.9	13.3				205.90	567.60	24.50	89.50	52.50	25.50
9	15	13.9	13.3				205.90	713.50	22.50	101.50	47.90	26.50
10	15	13.9	13.3				205.90	598.00	21.50	113.50	43.30	19.50
11	15	13.9	13.3				205.90	522.00	23.50	125.50	43.30	19.50
12	15	13.9	13.3				212.95	506.80	25.50	137.50	43.30	19.50
13	14.5	13.9	13.3				227.50	484.00	22.50	89.50	29.50	19.00
14	14.5	13.9	13.3				272.50	212.95	21.50	89.50	36.40	19.00
15	14.5	13.9	13.3				212.95	205.90	21.50	125.50	34.10	18.50
16	14.5	13.9	13.3				227.50	113.50	22.50	113.50	31.80	18.50
17	14.5	13.9	13.3				242.50	71.00	29.50	107.50	27.50	18.50
18	14.5	13.9	13.3				205.90	67.30	34.10	101.50	27.50	18.00
19	14.5	13.9	13.3				212.95	74.70	47.90	89.50	25.50	18.00
20	14.5	13.9	13				552.40	89.50	47.90	82.10	24.50	18.00
21	14.5	13.9	13				552.40	113.50	50.20	89.50	26.50	18.00
22	14.5	13.9	13				400.40	125.50	63.60	125.50	27.50	18.00
23	14.5	13.9	13				370.00	137.50	71.00	137.50	28.50	17.50
24	14.5	13.9	13				385.20	143.50	89.50	113.50	27.50	17.50
25	14.5	13.9	13				621.10	143.50	107.50	101.50	25.50	17.50
26	14.5	13.9	13				913.70	85.80	101.50	119.50	24.50	18.00
27	14.5	13.9	13				1029.20	63.60	95.50	125.50	24.50	18.50
28	14.5	13.6	13				1291.00	47.90	113.50	131.50	25.50	18.50
29	14.5	13.6	13				1545.10	43.30	125.50	143.50	23.50	18.00
30	14.5		13				1691.40	36.40	137.50	137.50	23.50	17.50
31	14.5		13				959.90	34.10		113.50		17.50

Mean 14.66 13.87 13.15 475.24 249.26 49.46 100.36 42.71 21.67
 Max 15.00 14.20 13.30 1691.40 713.50 137.50 143.50 101.50 38.70
 Min 14.50 13.60 13.00 205.90 34.10 19.50 38.70 23.50 17.50

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1989 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18	13.3	12.4	14.2	12.70	19.50	21.50	844.40	143.50	119.50	63.60	29.50
2	17.5	13.3	12.4	14.5	13.90	19.50	23.50	813.60	163.60	113.50	59.90	29.50
3	17.5	13.6	12.7	14.5	13.90	17.00	24.50	813.60	184.75	125.50	63.60	29.50
4	18.5	13.9	12.7	15	14.20	18.50	20.50	821.30	227.50	119.50	67.30	29.50
5	18.5	13.6	12.7	15.5	15.00	18.50	19.00	844.40	392.80	113.50	59.90	31.80
6	18	13.9	13.9	15.5	15.00	18.50	18.00	836.70	423.20	107.50	63.60	31.80
7	18	13.9	14.2	16.5	13.60	19.50	18.50	859.80	476.40	101.50	59.90	34.10
8	18.5	13.9	14.2	17	12.70	21.50	18.50	882.90	544.80	125.50	56.20	34.10
9	19	13.6	13.9	17	13.90	59.90	18.50	844.40	582.80	137.50	59.90	29.50
10	19	13.6	13.9	17	13.90	107.50	19.00	829.00	613.40	137.50	56.20	29.50
11	18.5	13.9	14.2	15.5	13.90	131.50	19.00	844.40	636.50	143.50	56.20	27.50
12	18.5	13.3	13.9	13.3	13.90	101.50	17.50	844.40	659.60	156.55	59.90	27.50
13	17.5	13.9	13.9	13.3	13.90	119.50	18.50	859.80	690.40	170.65	52.50	27.50
14	18	13.3	13.9	12.7	13.30	131.50	18.50	875.20	736.60	156.55	50.20	28.50
15	17.5	13.6	13.9	12.7	13.30	119.50	18.50	898.30	767.40	125.50	52.50	26.50
16	18	13.6	14.2	12.7	13.90	131.50	19.00	163.60	790.50	131.50	50.20	24.50
17	18	13.3	14.5	12.70	13.60	107.50	19.00	184.75	798.20	125.50	47.90	24.50
18	17.5	13.9	14.2	13.30	125.50	113.50	18.50	125.50	659.60	137.50	50.20	23.50
19	17.5	13.3	14.5	13.30	27.50	119.50	205.90	137.50	370.00	143.50	47.90	23.50
20	18	13	15.5	13.30	22.50	101.50	250.00	220.00	332.50	149.50	45.60	24.50
21	18	13	15.5	13.30	20.50	18.00	408.00	468.80	325.00	170.65	47.90	25.50
22	18.5	13	14.5	12.70	17.00	18.00	598.00	506.80	340.00	107.50	36.40	25.50
23	17.5	13.3	14.5	13.30	16.00	19.00	713.50	582.80	280.00	125.50	36.40	27.50
24	17.5	13.3	17	14.20	16.00	18.50	491.60	659.60	310.00	137.50	34.10	27.50
25	18.5	13	17	13.30	22.50	24.50	499.20	698.10	220.00	137.50	31.80	24.50
26	18.5	13.3	17.5	13.30	19.50	43.30	575.20	736.60	191.80	113.50	34.10	23.50
27	19	13.3	18	13.30	19.50	82.10	636.50	836.70	125.50	113.50	29.50	21.50
28	18.5	13.9	17.5	14.20	24.50	119.50	690.40	882.90	113.50	67.30	31.80	22.50
29	18.5		17.5	14.20	25.50	119.50	698.10	906.00	107.50	63.60	29.50	23.50
30	19		17.5	12.70	27.50	82.10	752.00	929.10	107.50	63.60	28.50	23.50
31	18.5		16.5		27.50		805.90	844.40		59.90		23.50

Mean 18.18 13.49 14.80 14.13 20.84 68.05 247.56 696.62 410.50 122.62 48.77 26.95
 Max 19.00 13.90 18.00 17.00 125.50 131.50 805.90 929.10 798.20 170.65 67.30 34.10
 Min 17.50 13.00 12.40 12.70 12.70 17.00 17.50 125.50 107.50 59.90 28.50 21.50

note: blank means no data available

OBSERVED DAILY FLOW AT CARAEL STATION

River Basin: Bucao River Est.: 1983/4/17
 Lat.: 15-16-40 Operated by: BRS
 Long.: 120-20-10 Drainage area: 668 km²
 Zero Gage:

Year: 1990 (unit: m3/s)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23.5	23.5	18.5	17.5	14.20	101.50	12.80	13.20	2649.00			
2	23.5	19.5	18.5	16.5	13.90	107.50	13.00	14.25	2495.00			
3	23.5	20.5	18.5	16	13.30	125.50	13.40	13.30	2517.00			
4	22.5	23.5	18	15.5	13.30	137.50	13.50	12.70	2451.00			
5	24.5	24.5	18	16	16.50	131.50	13.65	12.40	2407.00			
6	24.5	21.5	18	16.5	16.50	119.50	14.10	12.70	2319.00			
7	24.5	22.5	18	16.5	16.50	125.50	13.95	13.00	2319.00			
8	24.5	23.5	18	16	17.00	125.50	14.25	13.30	2308.00			
9	24.5	20.5	18	15.5	17.00	125.50	16.20	13.00	2341.00			
10	24.5	24.5	18	14.5	17.00	143.50	18.00	13.10	2352.00			
11	22.5	23.5	18	16	18.00	137.50	12.90	13.80	2330.00			
12	24.5	20.5	18	16.5	18.00	131.50	12.50	14.25	2319.00			
13	23.5	22.5	18	17	18.00	137.50	12.90	14.55	460.00			
14	23.5	23.5	18	17	18.00	137.50	13.50	16.50	352.30			
15	23.5	24.5	18	17	18.50	143.50	14.55	19.75	382.80			
16	23.5	19	17.5	17	18.50	125.50	47.60	31.70	364.50			
17	24.5	19	17.5	17.50	16.50	71.00	61.20	12.50	346.20			
18	23.5	19	17.5	16.50	18.50	89.50	50.00	12.70	370.60			
19	21.5	19	17	16.00	18.50	82.10	58.00	13.30	322.40			
20	22.5	19.5	17	15.50	18.50	82.10	61.20	12.90	281.80			
21	23.5	19.5	17	17.00	18.50	13.90	40.40	440.50	281.80			
22	24.5	19.5	17	17.00	19.00	14.55	38.00	310.80	270.80			
23	24.5	19.5	16.5	16.50	19.00	17.70	42.80	352.30	270.80			
24	23.5	19	16.5	16.50	19.00	25.10	53.20	388.90	270.80			
25	22.5	19	16.5	17.00	47.90	24.85	66.00	414.50	206.40			
26	22.5	19	16	17.00	47.90	25.10	83.60	493.00	210.80			
27	19.5	18.5	16	16.50	50.20	14.58	224.00	533.00	202.00			
28	20.5	18.5	16	16.50	552.50	26.56	804.80	526.00	202.00			
29	22.5		16.5	16.50	67.30	27.60	1121.60	568.00	92.80			
30	23.5		16.5	16.50	74.70	31.66	1203.60	447.00	197.60			
31	19.5		17		82.10		1285.60	434.00				

Mean 23.21 20.95 17.40 16.45 43.04 86.74 175.83 167.77 1129.78
 Max 24.50 24.50 18.50 17.50 552.50 143.50 1285.60 568.00 2649.00
 Min 19.50 18.50 16.00 14.50 13.30 13.90 12.50 12.40 92.80

note: blank means no data available

A4 Water Level Observation

Table Record of Water Level Observation in the Bucao River

Station: Bucao Bridge
 Lat.: 15-15-51 N
 Long.: 120-04-33 E
 Zero Gauge: El. 1.530 m

Est.:
 Operated by: JICA Study Team
 Drainage area 655 km²

Year: 2003

(unit: m)

DAY	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00			
1	1.74	1.70	1.68	1.17	1.66	1.68	1.66	1.64	1.66	1.66	1.64	1.66																								
2	1.70	1.70	1.68	1.70	1.66	1.69	1.66	1.64	1.66	1.66	1.64	1.66																								
3	1.70	1.66	1.68	1.70	1.66	1.70	1.66	1.63	1.66	1.66	1.63	1.66																								
4	1.70	1.64	1.67	1.70	1.66	1.70	1.66	1.64	1.66	1.67	1.64	1.66																								
5	1.70	1.64	1.66	1.72	1.66	1.72	1.67	1.64	1.66	1.66	1.64	1.66																								
6	1.70	1.66	1.66	1.72	1.68	1.71	1.66	1.64	1.66	1.66	1.64	1.66																								
7	1.70	1.66	1.70	1.72	1.68	1.71	1.67	1.65	1.67	1.67	1.65	1.67																								
8	1.72	1.70	1.72	1.72	1.68	1.72	1.68	1.66	1.67	1.68	1.66	1.67																								
9	1.72	1.70	1.68	1.72	1.67	1.72	1.68	1.66	1.68	1.68	1.66	1.68																								
10	1.70	1.69	1.66	1.72	1.68	1.72	1.68	1.66	1.67	1.68	1.66	1.67																								
11	1.70	1.68	1.66	1.66	1.74	1.70	1.72	1.67	1.65	1.66	1.67	1.65																								
12	1.70	1.68	1.69	1.75	1.70	1.74	1.67	1.65	1.67	1.67	1.65	1.67																								
13	1.70	1.67	1.70	1.74	1.70	1.72	1.68	1.66	1.69	1.68	1.66	1.69																								
14	1.70	1.68	1.70	1.74	1.70	1.72	1.69	1.67	1.69	1.69	1.67	1.69																								
15	1.70	1.66	1.70	1.70	1.68	1.69	1.69	1.67	1.69	1.69	1.67	1.69																								
16	1.70	1.66	1.68	1.67	1.63	1.66	1.69	1.67	1.69	1.69	1.67	1.69																								
17	1.70	1.66	1.68	1.66	1.64	1.66	1.69	1.66	1.69	1.69	1.66	1.69																								
18	1.70	1.66	1.70	1.64	1.64	1.64	1.69	1.66	1.70	1.69	1.66	1.70																								
19	1.70	1.68	1.70	1.66	1.64	1.66	1.70	1.66	1.69	1.69	1.66	1.69																								
20	1.68	1.66	1.68	1.66	1.64	1.66	1.66	1.66	1.69	1.70	1.66	1.69																								
21	1.68	1.65	1.67	1.66	1.64	1.66	1.69	1.66	1.69	1.66	1.66	1.69																								
22	1.69	1.67	1.68	1.66	1.64	1.66	1.69	1.65	1.69	1.69	1.65	1.69																								
23	1.70	1.67	1.69	1.69	1.66	1.70	1.69	1.65	1.69	1.69	1.65	1.69																								
24	1.70	1.66	1.69	1.70	1.68	1.70	1.70	1.65	1.69	1.70	1.65	1.69																								
25	1.70	1.66	1.68	1.71	1.68	1.70	1.70	1.65	1.69	1.70	1.65	1.69																								
26	1.70	1.66	1.68	1.70	1.68	1.70	1.69	1.65	1.69	1.69	1.65	1.69																								
27	1.68	1.64	1.66	1.70	1.68	1.69	1.69	1.65	1.69	1.69	1.65	1.69																								
28	1.68	1.66	1.68	1.71	1.68	1.70	1.70	1.66	1.69	1.70	1.66	1.69																								
29	1.68	1.66	1.66							1.70	1.66	1.70																								
30	1.69	1.67	1.66							1.70	1.66	1.70																								
31	1.68	1.65	1.66							1.70	1.66	1.70																								

A4-2

note: blank means no data available

Table Record of Water Level Observation in the Maloma River

Station: Maloma Bridge
 Lat.: 15-06-59 N
 Long.: 120-03-45 E
 Zero Gage: El. 1.628 m

Est.:
 Operated by: JICA Study Team
 Drainage area 152 km²

Year: 2002

(unit: m)

DAY	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC			
	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	
1																					0.40	0.37	0.57	0.50	0.30	0.30	0.16	0.10	0.90								
2																						0.66	0.67	0.62	0.20	0.00	0.00	0.14	0.13	0.10							
3																						1.02	0.81	0.74	-0.99	-0.98	-0.98	0.10	0.10	0.80							
4																						0.65	0.63	0.60	-0.99	-0.99	-0.99	0.80	0.70	0.70							
5																						0.80	0.82	0.67	-0.98	0.10	0.10	0.60	0.70	0.70							
6																						0.57	0.50	0.46	0.70	0.18	0.18	0.70	0.60	0.60							
7																						0.38	0.36	0.33	0.90	0.70	0.70	0.60	0.50	0.80							
8																						0.28	0.27	0.36	0.62	0.80	1.10	0.10	0.70	0.70							
9																						0.26	0.24	0.25	0.80	0.88	0.90	0.70	0.60	0.50							
10																						0.53	0.41	0.41	0.87	0.94	0.84	0.10	0.80	0.70							
11																						0.36	0.33	0.30	1.10	1.70	1.90	0.16	0.13	0.10							
12																						0.36	0.30	0.26	1.20	0.88	0.80	0.10	0.90	0.60							
13																						0.23	0.22	0.31	0.64	0.57	0.50	0.10	0.90	0.80							
14																						0.22	0.21	0.18	0.46	0.40	0.60	0.70	0.70	0.60							
15																						0.17	0.16	0.16	0.43	0.40	0.38	0.60	0.50	0.40							
16																						0.22	0.20	0.19	0.35	0.44	0.38	0.30	0.30	0.20							
17																						0.20	0.19	0.23	0.38	0.37	0.40	0.20	0.20	0.20							
18																						0.23	0.24	0.23	0.37	0.40	0.48	0.60	0.30	0.30							
19																						0.26	0.25	0.23	0.40	0.40	0.40	0.40	0.30	0.20							
20																						0.23	0.25	0.24	0.30	0.28	0.29	0.20	0.20	0.10							
21																						0.21	0.20	0.20	0.27	0.26	0.29	0.10	0.10	0.10							
22																						0.18	0.17	0.16	0.27	0.26	0.26	-0.01	-0.01	-0.02							
23																						0.16	0.15	0.14	0.19	0.19	0.20	-0.02	-0.02	-0.02							
24																						0.12	0.11	0.10	0.22	0.20	0.18	-0.02	-0.04	-0.03							
25																						0.90	0.80	0.10	0.17	0.17	0.17	-0.03	-0.03	-0.04							
26																						0.80	0.60	0.30	0.15	0.15	0.15	-0.03	-0.03	-0.03							
27																						0.60	0.40	0.40	0.14	0.13	0.12	-0.03	-0.04	-0.04							
28																						0.40	0.20	0.50	0.14	0.14	0.14	-0.03	-0.03	-0.03							
29																						0.60	0.30	0.10	0.11	0.10	0.20	-0.03	-0.02	-0.02							
30																						0.10	0.10	-0.01	0.22	0.17	0.14	-0.03	-0.03	-0.03							
31																						0.17	0.10	0.17				-0.04	-0.04	-0.04							

note: blank means no data available

A4-3

Table Record of Water Level Observation in the Maloma River

Station: Maloma Bridge
 Lat.: 15-06-59 N
 Long.: 120-03-45 E
 Zero Gage: El. 1.628 m

Est.:
 Operated by: JICA Study Team
 Drainage area 152 km²

Year: 2003

(unit: m)

DAY	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00
1	-0.12	-0.12	-0.12	-0.16	-0.16	-0.16	-0.17	-0.17	-0.17	-0.20	-0.20	-0.20																								
2	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.19	-0.17	-0.19																								
3	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.19	-0.19	-0.19																								
4	-0.14	-0.14	-0.14	-0.15	-0.15	-0.15	-0.18	-0.18	-0.18	-0.19	-0.19	-0.19																								
5	-0.14	-0.14	-0.14	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
6	-0.14	-0.14	-0.14	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
7	-0.14	-0.14	-0.14	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
8	-0.13	-0.12	-0.11	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
9	-0.12	-0.12	-0.12	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
10	-0.12	-0.12	-0.12	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
11	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
12	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
13	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
14	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20																								
15	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20																								
16	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20																								
17	-0.13	-0.14	-0.14	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20																								
18	-0.14	-0.14	-0.14	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20																								
19	-0.14	-0.14	-0.14	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.21	-0.21	-0.21																								
20	-0.13	-0.13	-0.13	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.21	-0.21	-0.21																								
21	-0.13	-0.13	-0.14	-0.16	-0.16	-0.16	-0.19	-0.19	-0.19	-0.21	-0.21	-0.21																								
22	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.16	-0.14	-0.14	-0.21	-0.21	-0.21																								
23	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.16	-0.16	-0.16	-0.21	-0.21	-0.21																								
24	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.16	-0.16	-0.16	-0.21	-0.21	-0.21																								
25	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.16	-0.16	-0.16	-0.21	-0.21	-0.21																								
26	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.20	-0.20	-0.20																								
27	-0.14	-0.14	-0.14	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18																								
28	-0.14	-0.14	-0.14	-0.17	-0.17	-0.17	-0.19	-0.19	-0.19	-0.18	-0.18	-0.18																								
29	-0.14	-0.14	-0.14				-0.20	-0.20	-0.20	-0.20	-0.20																									
30	-0.14	-0.14	-0.14				-0.20	-0.20	-0.20																											
31	-0.16	-0.16	-0.16				-0.20	-0.20	-0.20																											

note: blank means no data available

Table Record of Water Level Observation in the Sto. Tomas River

Station: Maloma Bridge
 Lat.: 15-02-04 N
 Long.: 120-03-33 E
 Zero Gage: El. 1.530 m

Est.:
 Operated by: JICA Study Team
 Drainage area 262 km²

Year: 2003

(unit: m)

DAY	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00	6:00	12:00	18:00
1	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
2	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
3	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
4	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
5	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
6	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
7	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
8	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
10	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
11	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
12	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
13	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
14	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
15	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
16	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
17	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
18	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
19	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
20	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
21	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
22	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
23	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
24	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
25	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
26	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
27	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
28	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																								
31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																											

note: blank means no data available

*The Study on Sabo and Flood Control for Western River Basins of Mount Pinatubo
in the Republic of the Philippines
Final Report
Data Book*

B. Geological Data

**THE STUDY ON SABO AND FLOOD CONTROL
FOR WESTERN RIVER BASINS OF MOUNT PINATUBO
IN THE REPUBLIC OF THE PHILIPPINES**

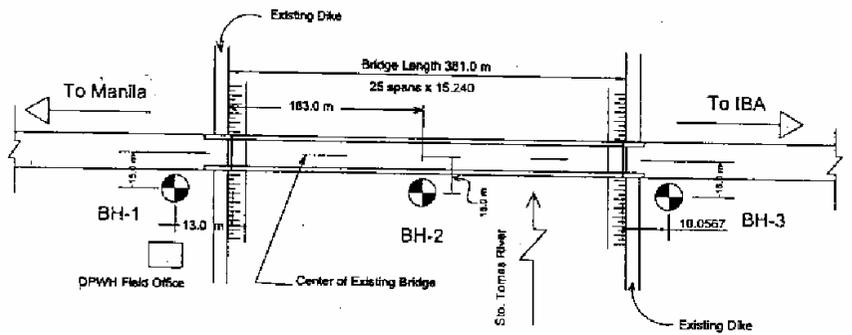
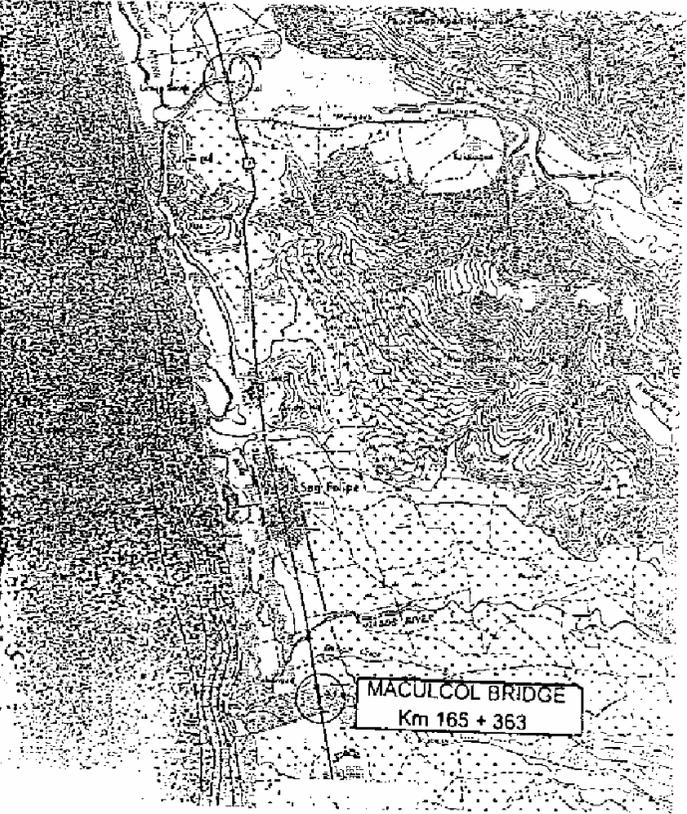
B. Geological Data

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All the data are results of investigations conducted by the local sub-consultants (AGES) during the study.
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B1 Borehole Location Plan



Maculcol Bridge km 165 + 363

SCALE: V : not to scale
 H : not to scale

LOCATION: MACULCOL SAN NARCISO, ZAMBALES

THE GOVERNMENT OF THE PHILIPPINES
 THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

The Study on Sabo and Flood Control for
 Western River Basins of Mount Pinatubo
 in the Republic of the Philippines

JAPAN INTERNATIONAL COOPERATION AGENCY

Borehole Location at the Maculcol Bridge