

昭和三十三年三月三十一日現在  
昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在  
昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在

昭和三十三年三月三十一日現在



**REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

**STUDY OF AGNO RIVER BASIN  
FLOOD CONTROL**

**FINAL REPORT**

**VOLUME VI**

**DATA BOOK**

**JICA LIBRARY**



1096068(0)

23333

**DECEMBER, 1991**

**JAPAN INTERNATIONAL COOPERATION AGENCY**



# **DATA BOOK**

**1. METEOROLOGICAL OBSERVATION**  
**(T-1~T-173 & F-1~F-25)**

**2. GRADATION AND SPECIFIC GRAVITY TEST**  
**(1~161)**

**3. GEOLOGICAL LOGS AND TEST PIT LOGS**  
**(G-1~G-104)**

国際協力事業団

23333

**1.**

**METEOHYDROLOGICAL  
OBSERVATION**





## LIST OF TABLES

No.

Page

### RAINFALL

1	HOURLY RAINFALL RECORD AT CAMP 4 .....	T-1 - T-12
2	HOURLY RAINFALL RECORD AT SAYTAN .....	T-13 - T-28
3	HOURLY RAINFALL RECORD AT IBA, TARLAC .....	T-29 - T-44
4	HOURLY RAINFALL RECORD AT STO. DOMINGO .....	T-45 - T-57

### WATER LEVEL

5	HOURLY WATER LEVEL AT SINOCALAN .....	T-58 - T-72
6	HOURLY WATER LEVEL AT TAGAMUSING .....	T-73 - T-87
7	HOURLY WATER LEVEL AT ALORAGAT .....	T-88 - T-100
8	HOURLY WATER LEVEL AT ANGALACAN .....	T-101 - T-114
9	HOURLY WATER LEVEL AT CAMP 1 .....	T-115 - T-127
10	HOURLY WATER LEVEL AT COJUANGCO .....	T-128 - T-137
11	HOURLY WATER LEVEL AT POPONTO LEFT DIKE .....	T-138 - T-144
12	HOURLY WATER LEVEL AT POPONTO RIGHT DIKE .....	T-145 - T-153
13	HOURLY WATER LEVEL AT INGALERA .....	T-154 - T-163

### DISCHARGE MEASUREMENT

14	DISCHARGE MEASUREMENT RECORD AT SINOCALAN .....	T-164
15	DISCHARGE MEASUREMENT RECORD AT TAGAMUSING .....	T-165
16	DISCHARGE MEASUREMENT RECORD AT ALORAGAT .....	T-166
17	DISCHARGE MEASUREMENT RECORD AT ANGALACAN .....	T-167
18	DISCHARGE MEASUREMENT RECORD AT COJUANGCO .....	T-168
19	DISCHARGE MEASUREMENT RECORD AT INGALERA .....	T-169

### WATER SAMPLING

20	SELECTED STATIONS FOR WATER SAMPLING .....	T-170
21	RESULT OF SALINTY TEST OF AGNO RIVER .....	T-171
22	RESULT OF SALINTY TEST OF PANTAL-SINOCALAN RIVER .....	T-172
23	RESULT OF SALINTY TEST OF CAYANGA-PATALAN RIVER .....	T-173

## LIST OF FIGURES

No.		Page
1	LOCATION MAP OF NEW RAIN GAUGES AND WATER LEVEL GAUGES .....	F-1
2	LOCATION MAP OF NEW RAINFALL GAUGING STATIONS .....	F-2
3	LOCATION MAP OF NEW WATER LEVEL GAUGING STATIONS .....	F-3 - 5
4	RIVER CROSS-SECTION AT WATER LEVEL GAUGING STATIONS .....	F-6 - 9

### FLOOD RECORD

5	OBSERVED RAINFALL HYETOGRAPHS DURING TYPHOON OPENG .....	F-10
6	OBSERVED RAINFALL HYETOGRAPHS DURING TYPHOON BISING .....	F-11
7	OBSERVED RAINFALL HYETOGRAPHS DURING TYPHOON HELING .....	F-12
8	OBSERVED RAINFALL HYETOGRAPHS DURING TYPHOON ILIANG .....	F-13
9	OBSERVED RAINFALL HYETOGRAPHS DURING TYPHOON LOLENG .....	F-14
10	ISOHYETAL MAP OF 4-DAY RAINFALL DURING TYPHOON OPENG .....	F-15
11	ISOHYRTAL MAP OF 4-DAY RAINFALL DURING TYPHOON BISING .....	F-16
12	OBSERVED WATER LEVEL HYDROGRAPHS DURING TYPHOON OPENG .....	F-17
13	OBSERVED WATER LEVEL HYDROGRAPHS DURING TYPHOON BISING .....	F-18
14	OBSERVED WATER LEVEL HYDROGRAPHS DURING TYPHOON HELING .....	F-19
15	OBSERVED WATER LEVEL HYDROGRAPHS DURING TYPHOON ILIANG .....	F-20
16	OBSERVED WATER LEVEL HYDROGRAPHS DURING TYPHOON LOLENG .....	F-21

### DISCHARGE MEASUREMENT

17	DISCHARGE RATING CURVES AT NEW GAUGING STATIONS .....	F-22 - 24
----	---	-----------

### WATER SAMPLING

18	LOCATION MAP OF WATER SAMPLING .....	F-25
----	--------------------------------------	------

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (1/12)

Month : September, 1989

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
0-1	0	0	0	0	0	0	0	0	0	22.5	0.5	0.5	0	1.0	0	0	0.5	8.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	
1-2	0	0	0	0	0	0	0	0	0	35.5	0.5	0	0	0.5	0.5	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	
2-3	0	0	0	0	0	0	0	0	0	13.5	0	3.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	2.0	23.0	4.0	6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	13.0	2.0	7.5	12.5	7.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	13.5	13.0	5.0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	15.5	9.5	5.0	7.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	3.0	4.5	2.0	15.5	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	12.5	8.5	1.0	0	0.5	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0.5	3.5	6.0	1.0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	1.0	0	0	0	0	0	0	2.5	9.5	16.5	0.5	14.5	0.5	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	3.0	0	0	0	0	0	0.5	3.5	7.0	14.0	0	9.5	2.0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	1.0	0	0	0	0	0	0	0	8.0	15.0	19.5	3.5	4.5	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	
13-14	0	0	0.5	0	0	0	0	0	0.5	6.5	49.0	5.5	1.0	28.0	0	14.0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	4.5	0	0.5	
14-15	0	0	17.0	0	0	0	0	0	0	13.5	44.0	20.0	0	3.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	2.0
15-16	9.0	0.5	1.0	0	0	0	0	0	0	2.0	25.0	6.0	31.0	0	2.0	11.0	0	0	9.0	0	0	0	0	0	0	0	11.0	5.0	0	0	0.5	
16-17	14.5	0.5	0	0	0	0	0	0	0.5	12.0	6.5	17.0	5.5	0	12.5	0	0	9.5	0	0	0	0	0	0	0	0	16.0	2.0	0	0	0.5	
17-18	16.0	1.0	0	0	0	0	0	0	0	5.0	18.0	2.5	11.0	1.0	0	3.5	0.5	0	3.5	0	0	0	0	0	0	0	1.0	0	0.5	2.5	0	
18-19	8.0	0.5	0	0	0	0	0	0	0	18.5	19.5	3.0	0	0	5.5	0	10.5	0.5	0	0	0	0	0	0	0	0	0	0	0.5	0	0	
19-20	3.0	0	0	0	0	0	0	0	0	16.5	4.5	0	2.5	0	0.5	0	3.0	0.5	0	0	0	0	0	0	0	0	1.5	0	1.5	0	0	
20-21	0.5	0	0	0	0.5	0.5	0	0	0	21.0	1.0	0.5	2.5	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	32.5	1.0	0.0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	
22-23	0	0	0	0	0	0	0	0.5	51.0	2.0	1.5	6.0	0	0	4.0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	
23-24	0	0	0	0	0	0	0	0	0	33.0	3.0	1.0	1.5	0	0	3.0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	51.0	3.5	22.5	0	20.0	1.5	4.0	4.5	309.0	310.0	179.5	73.5	70.5	40.5	23.5	16.0	25.5	15.5	0	0	0	0	13.5	0.5	0	28.5	7.5	13.5	2.5	4.5		

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (2/12)

Month : October, 1989

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	1.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	1.5	0	14.0	0	0	0	0	0	0	13.0	1.5	0	0	0	0	0	0	14.5	1.0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	1.5	1.5	0	0	0.5	0	0	0	2.0	1.5	0	0	0	0	0	0	19.0	2.5	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0	2.5	0	0	0	0	27.5	0	0	0	0	0	0	0	0	0	0	7.0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0.5	3.0	0	0.5	0.5	0	0	0	0	0	0	47.0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0.5	0	0	0	0	1.0	1.0	0	0	0	0	0	0	0	0	0	44.5	0	0	1.0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0.5	0	0	0.5	0	0	0	0	0	0	0	45.5	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	25.0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	25.5	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	1.5	5	15.5	0	0	0	1	30	4	1	31	5.5	0	0	0	0	0	295.5	5.5	0	2	0	0	0	0	0	0	0	0	0	0

Table 1 HOURLY RAINFALL RECORD AT CAMP4 (3/12)

Month : November, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	136	0	0	0	0	0	0	0	0

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (4/12)

Month: December, 1989

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (5/12)

Month : January, 1990

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (6/12)

Month : February, 1990

(Unit: mm)

Time	Day																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (7/12)

Month : March, 1990

(Unit: mm)

Time	Day																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (8/12)

Month : April, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	4.0	0.5
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	4.0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0	0.5

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (9/12)

Month: May, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	2.5	0	0	0	0	0	0	0	0	0	0	0
14-15	0	7.5	0.5	0	0	0	0	14.5	0	0	0.5	0	0	0	0	0	0	0	0	6.5	2.5	0	0	0	0	0	0	0	0	0	0	0
15-16	0	1.0	0.5	0	0	0	0	3.0	0	0	2.0	0	0	3.0	0	0	0	0	0	1.0	0.5	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0.5	0	0	0	0	0	0	0	8.0	8.5	0	19.0	0	0	6.0	0	0	1.0	15.0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	3.5	0	0	0	0	0	0	2.5	0	0	0	0	0	7.0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0.5	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	2.0	0.5	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	1.0	0	1.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	9.0	1.5	3.5	0.5	0	0	19.5	0	0	15.0	9.0	1.0	23.0	0	0	13.0	0	0	15.0	18.5	0.5	32.5	2.5	33.5	19.5	47.0	86.5	3.0	1.0	16.5	

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (10/12)

Month : June, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18	0	0	0	0	0	0
1-2	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	14	11	0	0	0	0	1.5	0	0
2-3	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	3.5	0	0	0	0	0	1.5	0
3-4	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	48	25	0	0	0	0	0	5.5	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	64	0	1.0	0	0	0	2.5	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	1.0	28	0	0.5	0	0	0	0.5	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	2.5	27	0	0	0	0	0	0	0	0.5
7-8	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	0	0	0	0	3	42	5.5	0.5	0	0	0	0	0.5	1.0
8-9	2.0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	0	0	0	0.5	37	3	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.5	0	0	0	0	0	0.5	11	2	6	0	0	0	0	0.5	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0	0	0	0	0	28	0.5	1.0	0	0	0	0	0.5	0
11-12	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	31	2.5	7	0	0	0	12	4.5	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	0	0	0	0	0	0	23	9	1.5	0	0	0	0	8	2
13-14	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	19.5	4	1.0	0	0	0	0	0	0
14-15	2.0	7.0	0.0	0	0	0	0	0	0	0	0	0	0	0	6.5	0.5	0	0	0	0	1.0	13	13	1.5	0	0	0	11	2.5	0
15-16	0	0.5	0.0	0	0	0	0	0	0	0	0	0	0	0	7.0	0	0	0	0	0	0.5	25.5	5	0.5	0	0	0	7	0.5	0
16-17	2.5	1.0	0.0	0	0	2.0	4.5	0	0	0	6.5	0	0	0	2.0	0	0	0	0	3	0.5	13.5	14	2.5	0	2.5	11	1.0	0	0
17-18	9.0	0	1.0	0	0	0.5	0	0	0	0	0	0	0	0.5	0	0	0	0	1.0	0	0	11.5	2.5	0.5	0.5	1.5	7	0	0	1.5
18-19	4.0	0	1.0	0	0	0	0.5	0	0	4.0	0	0	0	0.5	1.0	0	0	0	0	0.5	4	32	0.5	0	1.0	0	14	0	0	0
19-20	1.0	0	1.0	0	0	1.0	1.0	0	0	0	0	4.0	0	0	6.5	0	5.0	0	0	0.5	0.5	29	1.0	0	0.5	1.0	10	0	0	0
20-21	3.5	0	0	0	0	1.0	0	0	0	0	0	0	0	0	2.5	0	0	6.5	0	1.5	7	30	0.5	0	18	0	31	0	0	0
21-22	9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	4.5	21	2	0	6	0	16.5	0.5	0	0
22-23	5.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	28	0	0	0.5	0	23.5	0	0	0
23-24	2.5	0	0	0	0	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	4	18	0.5	0	2	0	29.5	0	0	0
Total	42.0	17.0	3.5	0	0	5.0	14.5	0	0	4.0	6.5	4.5	0	0.5	66.5	4.5	0.5	12	0	6.5	34.5	638	123	23.5	28.5	12	186.5	37	1.5	1.5

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (11/12)

(Unit: mm)

Month: July, 1990

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0.5	0	0.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	32.5	4	26	2.5	6	19	11.5	7	13.5	0	23.5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

THERE IS NO RAINFALL DATA GATHERED DUE TO THE EFFECT OF EARTHQUAKE ON JULY 16, 1990. ROAD GOING TO CAMP 4 WAS SERIOUSLY DAMAGED.

THERE IS NO RAINFALL DATA GATHERED DUE TO THE EFFECT OF EARTHQUAKE ON JULY 16, 1990. ROAD GOING TO CAMP 4 WAS SERIOUSLY DAMAGED.

Table 1 HOURLY RAINFALL RECORD AT CAMP 4 (12/12)

(Unit: mm)

Month : July-December, 1990

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1																																
1-2																																
2-3																																
3-4																																
4-5																																
5-6																																
6-7																																
7-8																																
8-9																																
9-10																																
10-11																																
11-12																																
12-13																																
13-14																																
14-15																																
15-16																																
16-17																																
17-18																																
18-19																																
19-20																																
20-21																																
21-22																																
22-23																																
23-24																																
Total																																

THERE IS NO RAINFALL DATA GATHERED DUE TO THE EFFECT OF EARTHQUAKE  
ON JULY 16, 1990. ROAD GOING TO CAMP 4 WAS SERIOUSLY DAMAGED

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (1/16)

Month : September, 1989

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
0-1	0	0	0	0	0	0	0	0	0	0	0	0.5	-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-2	0	0	0.5	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0.5	0.5	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	5.0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	3.5	0	0	0	5.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	3.0	0	0	0	11.5	15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12.5	2.0	7.0	7.5	16.0	15.0	0	23.0	301.5	297.0	37.5		34.5	6.0	15.5		30.5			0	38.0	2.5	0	0	0	20.5	1.5	39.5	0	0	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (2/16)

Month: OCTOBER, 1989

(Unit: mm)

Time	Day																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1																																
1-2																																
2-3																																
3-4																																
4-5																																
5-6																																
6-7																																
7-8																																
8-9																																
9-10																																
10-11																																
11-12																																
12-13																																
13-14																																
14-15																																
15-16																																
16-17																																
17-18																																
18-19																																
19-20																																
20-21																																
21-22																																
22-23																																
23-24																																
Total																																



Table 2 HOURLY RAINFALL RECORD AT SAYTAN (3/16)

Month : NOVEMBER, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	-	-	-	-	-	-
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0	0	0	0	0	0	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (4/16)

Month : DECEMBER, 1989

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (5/16)

Month : JANUARY, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 2. HOURLY RAINFALL RECORD AT SAYTAN (6/16)

Month : FEBRUARY, 1990

(Unit: mm)

Time	Day																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (7/16)

Month: MARCH, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43.0	0	0	-
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.0	0	0	-
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.0	0.0	0.0	0.0	0.0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (8/16)

Month : APRIL, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (9/16)

Month : MAY, 1990

(Unit: mm)

Time	Day																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	10.0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	0	3.5	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	3.0	1.0	0	0	0	0	0	0	0	0	21.5	0	0	0	2.0	0.5	32.0	1.0	0.5	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	1.5	0	2.5	1.0	0.5	2.5	0.5	0.5	0	0	0.5	1.0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	0	16.5	0.5	2.0	2.0	6.0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1.0	0	1.0	0.5	1.5	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	0	0	0	0	0	1.0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0	0.5	0	0.5	0	0	0	0	0	2.0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	1.5	34.0	0.0	20.5	7.5	5.5	48.0	33.0	31.5	9.5	2.0	7.0	0	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (10/16)

Month : JUNE, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
0-1	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54.5	6.0	0	0	0	0	2.0	0	0	
1-2	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.0	0.5	0	0	0	0	0.5	0	0	
2-3	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.0	0.5	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	42.0	0	0.5	0	0	0	0.5	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95.0	0	3.0	0	0	0	1.0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	73.0	0	0.5	0	0	0	0.5	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	1.0	63.0	1.0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40.5	0	0	0	0	0	0	1.5	10.5	1.0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.0	0	0	0	0	0	0	1.5	2.5	0.5	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	14.0	0.5	0.5	0	0	0	1.0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.5	0	0	0	0	2.5	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	38.5	0	2.5	0	0	0	9.5	1.0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.0	7.5	2.5	0	0	0	0.5	3.5	0	
13-14	2.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	8.5	5.5	2.0	0	0	0	7.0	2.0	0	
14-15	2.5	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	2.5	3.5	8.5	7.5	1.0	0	0	15.0	1.0	0	0	
15-16	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	19.0	9.5	3.0	0	0	1.0	9.5	0	0	
16-17	7.5	0	4.0	0	0	0	1.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	10.0	13.0	2.0	3.5	0	0	1.0	9.5	0	0	
17-18	13.0	0	3.0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	18.5	4.0	1.5	1.0	0	0	3.5	7.0	0	0	
18-19	7.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35.5	21.0	1.0	0	0	2.0	6.0	1.0	0	0	
19-20	2.0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0.5	0	0	0	1.0	0	0	0	53.0	14.0	1.0	0	0.5	0	23.5	0	0	0
20-21	9.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	42.5	17.0	1.0	0	4.0	0	20.5	0	0	0	
21-22	15.0	0	0	0	0	0	0	0	0	2.5	0	0	1.0	0	0	0	0	2.5	0	0	0	66.0	13.0	2.0	0	6.5	0	17.5	0.5	0	0	
22-23	6.5	0	0	0	0	0	0	0	0	1.5	0	0	0.5	0	0	0	0	0	2.5	0	0	0	55.0	11.0	0	0	1.5	0	28.0	0	0	0
23-24	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.5	7.5	0	0	0.5	0	14.0	0	0	0	
Total	71.0	5.0	7.5	0.5	0.0	11.0	0.5	0.0	0.0	4.5	0.0	12.0	2.0	1.5	56.0	0.0	0.0	5.0	8.0	15.5	303.0	627.0	50.0	20.0	13.0	7.5	170.0	14.5	0.0	0.0	0.0	



Table 2 HOURLY RAINFALL RECORD AT SAYTAN (11/16)

Month : JULY, 1990

(Unit: mm)

Time	Day																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
1-2	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
2-3	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
3-4	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
4-5	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
5-6	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
6-7	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
7-8	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
8-9	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
9-10	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
10-11	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
11-12	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
12-13	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
13-14	0	0	0	0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
14-15	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
15-16	13.5	0	1.0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
16-17	4.0	0	1.0	0	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
17-18	0.5	0.5	0	0	17.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
18-19	0	0.5	0	0	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
19-20	0	0.5	0.5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
20-21	11.5	1.0	0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
21-22	1.0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
22-23	0.5	0	0	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
23-24	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
Total	31.0	2.5	5.5	1.5	28.5																				10.5	25	51.0	34.5	48.5	10.0	32.0	11.5

(Units: mm)

Month: AUGUST, 1990

Time	Day																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0.5	0	0	0	2.0	0	0	0	0.5	0	
1-2	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0.5	0	0	0	0	37.0	0	0	2.0	4.5	0	
2-3	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5	2.0	2.5	0	0	4.0	0	0	0	0	34.0	0	0	0	0.5	1.5	
3-4	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	17.5	0	0	0.5	0	0	0	0	7.5	0	1.0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.0	0	0	0	0	0	0	0	0	1.0	0	0	0.5	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.0	0	3.0	0	0	0	0.5	0	0	0	0	0	0	1.5	2.0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	1.5	0	0	0	0.5	0	0	0	0	0	0	0.5	1.0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	1.0	0.5	3.0	0	0	0	3.5	0	0.5	0	0	0	5.0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	2.0	0	0	2.5	0	0	0	3.0	0.5	1.0	0	0	0	0	0
9-10	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.5	0	0	0	0	0.5	0	0	1.0	0	0	0	0
10-11	0	0	1.0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	1.5	0	0.5	5.0	2.0	1.5	0	0	0	0.5	6.5	0	0	0	0	0.5	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.5	0	0.5	0	0	0	0	18.5	1.0	0	0	2.5	0	0	0.5
12-13	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	7.5	3.5	0	0	0.5	0	0	0
13-14	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0.5	1.0	0	0	25.5	2.0	0.5	0	0	0	0	0
14-15	0.5	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.5	0	0	0	0.5	16.0	0	0	0	13.5	2.0	0	0	0	0.5	2.0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.0	0	0	0	0	2.5	1.5	0	0	4.0	4.0	0	0	0	0	4.5	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	0	0	0	0	0	0	6.0	0.5	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.0	0	0	0	0	2.5	0	0	0	5.5	0	0	0	0	0	0	0
18-19	1.5	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	1.0	0	1.0	0	0	1.5	4.0	0	0	17.0	0	0	0	0	0	0.5	0
19-20	0	0	0	0	0.5	0	0	0	0	0	0	0	0	2.5	0	0	0	0	1.0	0	0	0	0	4.0	0.5	0	18.5	0	0.5	2.0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	1.5	0.5	0	0	0	0	0	0	0	0	0	0	0	19.5	0.5	0	0	26.0	0	0	0.5	0	0	6.5	0
21-22	0	0	0	0	0.5	0	0	0	0	0	1.5	0	0	0	0.5	25.0	3.0	0	0	0	1.0	0	14.0	0	0	0	8.5	0	2.0	0	0	0	7.5	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	2.5	4.5	0	0	46.0	0	0.5	2.5	0.5	0.5	2.5	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	3.0	1.5	1.0	5.0	0	0	0	8.5	0	0	5.0	0
Total	2.5	4.0	2.5	0	1.5	0	21.0	0	0.5	1.5	2.5	13.5	0	3.5	4.0	41.0	5.5	60.0	5.5	41	8.5	7.5	103	13.5	1.0	210	101.5	5.0	19.0	6.5	43.5	6.5	43.5	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (13/16)

Month : SEPTEMBER, 1990

(Unit: mm)

Time	Day																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0-1	4.0	0	0	0	0	0	3.0	4.0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0
1-2	3.0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0
2-3	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0
3-4	11.0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	5.5	0	0	0	0	0	0	0	0	0
4-5	6.5	0	0	0	0	0	0	1.0	1.5	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0
5-6	7.0	0	0	0	0	0	0.5	1.5	1.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	6.5	0	0	0	0	0	1.0	5.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
7-8	6.0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0
8-9	5.5	0	0	0	0	0	6.0	17.0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0
9-10	9.5	0	0	0	0	0.5	6.5	32.5	0.5	0.5	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0
10-11	2.5	0	0	0	0	0	3.5	8.5	0.5	0	0	0	0	0	6.5	0	0	0	0	0	0	0	0	0
11-12	23.5	0	0	0	0	0	0.5	6.0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	2.5	0	2.0	0	0	0	14.0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	1.0	0	8.0	0	0	0	2.5	0.5	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	5.0	0	0	0	1.0	5.5	2.0	0	0	0	0	1.0	0	0	0	0	2.5	0	0	0	0	0
15-16	0	0	2.0	0	0	0	0	0	1.0	0	0	0	0	0.5	0	0	0	1.5	0	0	0	0	0	0
16-17	0	0	0.5	0	0	0	8.0	0.5	4.5	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
17-18	0	1.5	0	0	0	0	9.0	12.5	0.5	0	0	0	0.5	9.0	0	0	0	0	0	0	0	0	0	0
18-19	0	5.0	0	0	0	0	5.0	3.5	0.5	0	0	0	0	1.0	0	0	0	1.0	0	0	0	0.5	0	0
19-20	0	3.0	0	0	0	0	0.5	4.5	0.5	0	0	0	0	2.0	0	0	0	2.5	0	0	0	0	0	0
20-21	0	0	0	0	0	0	2.0	6.0	2.0	0	0	0	0	5.0	0	0	0	1.0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	4.0	1.0	1.0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0
22-23	0	0	4.5	0	0	0	0	0	0	0	0	0	0	11.5	0	0	1.5	0	0	0	0	0	0	0
23-24	0	0	3.5	0	0	0	4.5	0	0	0	0	0	0	15.0	0	0	2.0	0	0	0	0	0	0	0
Total	91.5	9.5	25.5	0	2.5	49.5	145	29.5	7.0	0.5	0	0	0.5	46.5	26.0	0	3.5	0	8.5	0	0	0	0	0.5

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (14/16)

Month : OCTOBER, 1990

(Unit: mm)

Time	Day																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	4.5	0	0	0.5	0	0	0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	1.5	0	0	0	0	0	3.0	1.5	0	0	0	0	18.5	0	0	0	1.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	11.5	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0
17-18	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12.5	0	2.0	0	0	0	0	0	7.5	1.5	0	0.5	12.5	8.0	26.5	1.0	0	1.5	21.5	2	6	0	0	0	0	0	0	0	0	1.0	0	0	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (15/16)

Month : NOVEMBER, 1990

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0.5	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0.5	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	20.5	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1.0	0	0	0	22.5	0.5	2.0	3.5	0	0	0	0	6.0	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0

Table 2 HOURLY RAINFALL RECORD AT SAYTAN (16/16)

Month : DECEMBER, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3 HOURLY RAINFALL RECORD AT IBA TARLAC (1/16)

Month: September, 1989

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
0-1	-	-	-	-	-	-	-	-	-	0	0.5	0	27.5	0	0	0	1.0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	-	-	-	-	-	-	-	-	0	0	3.0	0	1.0	2.5	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	-	-	-	-	-	-	-	-	0	0	5.0	7.5	2.5	2.5	1.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	-	-	-	-	-	-	-	-	0	0.5	4.5	0.5	16.0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	-	-	-	-	-	-	-	-	0	0.5	2.5	7.5	4.5	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	-	-	-	-	-	-	-	-	0	1.0	0.5	0.5	6.0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
7-8	-	-	-	-	-	-	-	-	0	2.0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	-	-	-	-	-	-	-	-	0	6.0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	-	-	-	-	-	-	-	-	0	5.5	4.0	0	2.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	-	-	-	-	-	-	-	-	0	4.5	1.5	0.5	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	-	-	-	-	5.5	-	-	-	0	3.0	5.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	-	-	-	-	-	-	-	5.0	2.0	4.0	0.5	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.0	0
13-14	-	-	-	-	-	-	-	0.5	2.0	5.5	2.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	-	-	-	-	-	-	-	0	0	0	0	0.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	-	-	-	-	-	0.5	-	0	1.0	1.0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	-	-	-	-	-	-	-	0	1.0	2.0	0	0	0.5	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	-	-	-	-	-	-	-	0	0	0	0	1.5	0	0	11.0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0
18-19	-	-	-	-	-	-	-	0	0.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	6.5	9.5	0.5	5.5	0	0	0	0
19-20	-	-	-	-	-	-	-	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	51.0	0.5	0.5	0	0	0	0
20-21	-	-	-	-	-	-	-	1.0	1.5	1.5	0	1.5	0	1.0	0.5	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
21-22	-	-	-	-	-	-	-	0	4.5	0	0.5	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	-	-	-	-	-	-	-	0	4.0	0	0.5	3.0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	-	-	-	-	-	-	-	0	1.0	0	18.0	2.5	0	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	6.5	0.5	0	7.0	39.5	65.0	57.5	75.5	16.0	2.0	22.5	1.0	2.0	3.0	2.0	0	80.0	0	6.5	60.5	1.5	6.0	29.0	0.5	18.0	0	0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (2/16)

Month : OCTOBER, 1989

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	1.0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	1.0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	7.0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	14.5	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0.5	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	22.0	0.0	0.0	0.0	0.0	34.5	16.5	2.5	0.0	29.5	1.5	47.5	7.5	0.0	0.0	0.0	0.0	0.0	8.0	9.5	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (3/16)

Month : NOVEMBER, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-	-	-

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (4/16)

Month : DECEMBER, 1989 (Unit: mm)

Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1																														
1-2																														
2-3																														
3-4																														
4-5																														
5-6																														
6-7																														
7-8																														
8-9																														
9-10																														
10-11																														
11-12																														
12-13																														
13-14																														
14-15																														
15-16																														
16-17																														
17-18																														
18-19																														
19-20																														
20-21																														
21-22																														
22-23																														
23-24																														
Total																														

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (5/16)

Month: JANUARY, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (6/16)

Month: February, 1990 (Unit: mm)

Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (7/16)

Month: MARCH, 1990

(Unit: mm)

Time	Day																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (8/16)

Month: APRIL, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	8.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	39.5	0.0	0.0	0.0	4.0	0.0	1.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (9/16)

Month : MAY, 1990

(Unit mm)

Time	Day																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (10/16)

Month: JUNE, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	5.0	1.5	0.5	0	0.5	0	0	0.5	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	4.0	0.5	0	0	0	0	0	0.5	0	
2-3	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	2.0	2.5	0	0	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28.0	0	0	0	0	0	0	0	4.0	1.0	0	0	0	0	0	4.0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0.5	0	0	0	0	0	0	0.5	4.0	0.5	1.5	0	0	0	2.0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	2.5	0	0	0	0	0	0	0.5	5.0	0.5	2	0	0	0	1.5	0	
7-8	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	1.0	4.5	1.0	0	0	0	0	3.5	4.0	
8-9	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.5	2.5	3	5	0	0	0.5	2.0	2.0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	4.0	9.5	8.5	0	0	0	0	1.0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	4.5	0	0	0	0	0	0	0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	2.5	0	0	0	0	2.0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	1.0	1.0	0	0	0	0	3.0	0.5	
13-14	0.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0	0	0	0	0	0	0.0	6.0	0	0	0	0	2.5	0.5	0	0
14-15	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	2.0	1.5	0	0	0	0	0	0	1.5	8.0	0	0	0	0	0	0.5	0	7.5
15-16	0	1.5	0	0	0	0	0	1.0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0.5	0	0.5	0	0	0	0	1.0	0	0	0.5
16-17	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	2.0	0	0	0	0	0	0.5	0	18.5	0	0	0	0	0	4.0	0	0	0	0	0	0	0	0	3.5	4.5	0	0	0	8.5	0.5	0	0
18-19	13.5	0	0	0	0	2.5	0	0	13.0	0	0	0	0	0	4.0	0	0	0	0	3.0	0	0	0	19.5	0	0	0	0	13.0	2.5	0	0
19-20	4.0	0	0	0	0	3.0	0	0	0	0.5	0	0	0	0	0	0	0	0	6.5	1.0	1.0	9.5	0	0	0	0	0	5.0	2.5	0	0	0
20-21	3.0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	1.0	0	0	0	0	1.5	3.5	1.0	1.0	0	0	0	0	6.0	0	0	0	0
21-22	1.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.5	0	0	8.5	0	0.5	4.5	1.5	0.0	0	1.5	0.5	0	6.0	0.5	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	1.5	9.0	0	3.0	1.0	3.5	0	1.5	0	1.5	3.5	0	0	0	0
23-24	0.5	0	0	0	0	0	0	0	0	1.5	0	0	0	0	8	0	0.5	0	0	0	6.0	2.0	0	0	0	0.5	0	1.0	0	0	0	0
Total	25.0	3.5	0.0	0.0	0.0	15.0	2.5	1.5	32.0	4.5	0.0	0.0	0.0	8.0	59.0	5.0	0.0	10.0	9.0	11.5	21.5	53.0	78.5	30.0	3.5	1.0	52.0	31.5	9.0	8.0	8.0	



Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (11/16)

Month: JULY, 1990

(Unit: mm)

Time	Day																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
0-1	0	0	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.5	0	4.0	0	0		
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0		
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	2.5	0		
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	4.0	0	0.5	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	
7-8	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.5	0	0.5	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	6.0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	3.0	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	1.5	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	0	0	0	0	3.0	0	0	0	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0	0	3.0	0	0	0	0	0	8.0	1.0	0	0	
14-15	0	0.5	0	0	0	0	0	0	0	0	21.0	0	0	0	0	0	0	0	0	0	0	2.5	0	7.5	1.0	2.5	1.5	1.5	13.0	0	0	0	0	
15-16	0	0.5	0	0	0	0	0	0.4	0	0	2.5	0	0	0	0	0	0	0	0	0	0.5	0	0	1.0	0	1.0	6.0	2.0	0	0	0	0	0	
16-17	0	0	1.0	0	0	0	0	3.0	1.0	0	0	10.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.0	0.5	0	0	0	0	
17-18	0	0	2.0	0	1.5	0	0	0	0.5	0	0	11.0	0	0	0	0	0	0	35.5	0	0	0	0	0	0	0	15.0	17.5	0.5	0	0	1.5	0	0
18-19	0	0	2.5	0	0	0	0	0	1.0	0	0	0	0	0	19.0	0	2.5	0	0	0	0	0	0	0	0	0	11.0	3.5	5.0	0	0	0	0.5	0
19-20	0	0	3.0	0	0.5	34.5	0	0	0	0	0	1.0	0	0	9.0	0	18.5	0	0	0	0	0	0	0	0	0	4.5	0.5	3.5	0	0	6.5	0	
20-21	0	0	0.5	0	1.5	16.5	1.0	0	1.0	0	0	2.0	0	0	0	0	2.5	0	0.5	0	0	0	0	0	0	0	4.0	0.5	0	0	0	1.0	8.0	
21-22	0	9.0	0.5	0	0.5	0	4.5	0	0	0	0	0	0	0	0	0.5	2.0	0	0	0	0	0	0	0	0	0	5.5	0	0.5	0	0	1.0	0	
22-23	0	0	0	0	0.5	1.0	5.0	0	0	0	0	0	0	31.0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0.5	1.5	0	0	0	
23-24	0	0.5	0	0.5	0	0	3.0	0	1.0	0	0	0	1.0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0.5	0	0	0
Total	0	10	11.0	0.5	4.5	52.0	13.5	7.0	5.0	0.5	23.5	24.5	1.0	31.5	28.0	0.5	23.0	1.5	36.0	0	0	3.0	13.5	8.5	4.0	49.0	37.5	54.0	17.5	6.0	19.5	6.0	19.5	

(Unit: mm)

Month: AUGUST, 1990

Time	Day																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	3.0	3.0	0	0	2.5	1.0	0	0	0	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	1.0	0	0	3.5	0.5	0	0	2.5	0	0.5	0	0	
2-3	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	1.5	0	0	0.5	0	0	0	0	0	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0.5	0	0	0.5	0	0	0	0.5	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0.5	0	0	1.0	1.0	0	0	1.0	0.5	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0.5	0	0	0.5	3.0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	1.0	1.0	1.5	0	1.5	3.5	0	0	1.5	0	0	0	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	3.0	1.0	0.5	1.5	0	3.5	4.0	0	0	0.5	0.5	0	1.0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	2.5	1.5	0	0	1.0	15.0	0	0	1.0	0	2.0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.5	0	0	0	27.5	0	0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.0	0	0	0	0	10.0	0	1.0	0	0	0.5	0	0	0	
11-12	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	1.0	0.5	1.0	0	0	12.5	0	0	0.5	0	0	0	0	0	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.5	2.5	1.0	0	0	0	0	5.0	0	1.5	0	0	0	0	0	0	
13-14	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5	0.5	2.0	0.5	0	0	0	0	0.5	3.5	0	4.0	0	0	0	0	0	
14-15	0	0	0	0.25	0	0	0	1.0	0	0	0	0	0.5	0	0	0	0	0.5	4.0	0.5	0.5	0	0	0.5	1.5	0	1.0	0	0	1.0	0	0	0
15-16	0	0	0	0.78	0	0	11.5	0	2	0	0	0	0	0	0	0	0	0.5	2.5	0.5	0	0	1.5	0	0	0	0	0	4.5	0	0	0	0
16-17	0	0	0	0.5	0	0	1.0	0	0	8.0	0	0	0	0	0	0	0	0.5	2.0	0.5	0	0	0	1.0	10.5	0	8.5	0	0.5	0	0	0	0
17-18	0	0	0	0	0	0	0.5	0.5	0.5	14	0	0.5	0	0	0	0	0	0.5	1.0	0	0	0	5.5	2.5	0	7.0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	3	5	2	0	0	0	0	12	0.5	1.5	0	0	0	4.5	0.5	0	3.5	0	1.0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	3	1.5	0.5	0	0	0	4	1.0	1.0	1.0	0	0	1.5	0.5	0	0.5	1.0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	1.0	0	0.5	0	0	2.0	7.0	1.5	0.5	1.0	1.0	0	1.0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.0	0	0.5	0	2.5	1.0	0	0.5	0	0.5	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.5	1.5	0	1.0	1.0	0.5	0	1.0	0	1.0	0.5	0	0.5	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0.5	0.5	0	2.0	3.0	0	0.5	2.0	0	0	0	0	0	0	8.5
Total	1.5	0.0	0.0	103.5	0.5	0.0	13	0.5	3.5	29	6.5	3	0.5	1.0	0.0	6.0	24.5	33.5	23.5	14	5.5	5	41.5	101.5	1.0	23.5	13.0	11.5	4.5	3.0	9.0	0	0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (13/16)

Month : SEPTEMBER, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	5.0	0	0	0.5	0	0	0	1.0	2.0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
1-2	1.0	0	2.5	1.0	0	0	0	0.5	2.5	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0.5	0	0.5	0.5	0	0	0	1.5	1.0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0
3-4	8.0	0	0	0	0	0	0	2.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	7.0	0	0	0	0	0	0	4.0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	7.0	0	0	0	0	0	1.5	3.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	15.5	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	6.0	0	0	0	0	0	0	9.0	0	0	0	0	0	0	3.0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
8-9	16.0	0	0	0	0	0	0	10.0	1.0	0	0	0	0	0	0.5	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	5.0	0	0.5	0	0	0	0	13.0	5.0	0	0	0	0	0	0.5	0	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0.5	0	0.5	0	0	0	0	3.0	7.0	8.5	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	14.5	0	6.5	0	0	0	0.5	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	12.5	1.5	0	0	0	0	1.0	2.0	1.5	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	10.5	0	0.5	0	0	0	1.5	6.0	6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	1.5	0	1.0	0	0	0	2.0	1.0	0.5	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0.5	0	0	0	1.0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0.5	0	0	0	0	3.0	4.0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	1.5	0.5	0	0	0	2.5	12.5	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0.5	5.0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0.5	0	0	0	0.5	2.0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0.5	0	0	0
20-21	0	0	0	0	0	0	0	7.5	9.0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0.5	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	2.0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
23-24	0	0	0	0	0	0	4.0	1.0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0
Total	110.5	3.5	13.5	2.0	0.0	23.5	101.0	44.0	2.0	0.0	0.0	0.0	0.0	0.0	9.5	0.5	9.5	3.0	3.5	1.5	0.5	0.0	13.0	49.5	0.5	0.0	0.5	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (14/16)

Month : OCTOBER, 1990

(Unit: mm)

Time	Day																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0
5-6	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
7-8	0	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
8-9	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.0	9.5	0	0	24.5	8.5	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.0	0	0.5	0	0	15.0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	16.0	0	2.0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	1.0	0	0.5	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	1.0	0	3.5	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0.5	0	0.5	0	4.5	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	1.5	0	0	0	0	0.5	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0.5	0	0.5	0	0	0	0
Total	13.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	62.0	9.5	9.5	0.0	57.5	0.0	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (15/16)

Month : NOVEMBER, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0.5	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0.5	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	1.5	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	2.0	0	0	0.5	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	1.0	0.5	24.5	0.0	8.0	2.0	1.0	0.5	0.0	11.5	6.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3 HOURLY RAINFALL RECORD AT IBA, TARLAC (16/16)

Month : DECEMBER, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1																																
1-2																																
2-3																																
3-4																																
4-5																																
5-6																																
6-7																																
7-8																																
8-9																																
9-10																																
10-11																																
11-12																																
12-13																																
13-14																																
14-15																																
15-16																																
16-17																																
17-18																																
18-19																																
19-20																																
20-21																																
21-22																																
22-23																																
23-24																																
Total																																

NO RAINFALL RECORDED THIS MONTH

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (1/13)

Month : September, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (2/13)

Month : OCTOBER, 1989

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (3/13)

Month : NOVEMBER, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (4/13)

Month: DECEMBER, 1989

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1																														
1-2																														
2-3																														
3-4																														
4-5																														
5-6																														
6-7																														
7-8																														
8-9																														
9-10																														
10-11																														
11-12																														
12-13																														
13-14																														
14-15																														
15-16																														
16-17																														
17-18																														
18-19																														
19-20																														
20-21																														
21-22																														
22-23																														
23-24																														
Total																														

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO, (5/13)

Month: JANUARY - MAY, 1990

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1																			0	0	0	0									0.5
1-2																			0	0	0	0									0
2-3																			0	0	0	0									0
3-4																			0	0	0	0									0
4-5																			0	0	0	0									0
5-6																			0	0	0	0									0
6-7																			0	0	0	0									0
7-8																			0	0	0	0									0
8-9																			0	0	0	0									0
9-10																			0	0	0	0									0
10-11																			0	0	0	0									0
11-12																			0	0	0	0									0
12-13																			0	0	0	0									0
13-14																			0	0	0	0									0
14-15																			0	0	0	0									0
15-16																			0	0	0	11.0									0
16-17																			0	0	0	0									0
17-18																			0	0	0	0									0
18-19																			0	0	0	0									0
19-20																			0	0	0	0									0
20-21																			0	0	0	0									0
21-22																			0	0	0	0									0
22-23																			0	0	0	0									0
23-24																			0	0	0	0									0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0.5

NOTE: RAIN GAUGE NO. 3 HAS NO RECORD GATHERED FROM JANUARY 1990 UP TO MAY 18, 1990 BECAUSE OF THE REPAIR AND EXTENSION (ON METER UP) OF THE PERIMETER FENCE

NOTE: FROM MAY 21, 1990 (18:00 A.M.) TO MAY 30, 1990 (12:00 A.M.) THE RAIN GAUGE HAS NO RAINFALL RECORDED DUE TO THE RECORDING PEN WAS MOVED FROM ITS NORMAL POSITION CAUSED BY THROWING OF STONE DONE BY UNIDENTIFIED PERSON.

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (6/13)

Month : MAY , 1990

(Unit: mm)

Time	Day																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
0-1	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.0	3.0	0	0	0	0	1.0	0	0	-		
1-2	0	1.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.5	0	0	0	0	0	0	0	0	-		
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	0	0	0	0	0	0	-		
3-4	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.0	0.5	1	0	0	0	0	0	0	-		
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.0	1.0	1	0	0	0	0.5	0	0	-		
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	17.0	0	0	0	0	0	0	0	0	-		
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.5	0	0	0	0	0	0	2.5	10.0	0	0	0	0	0	0	0	0	-		
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54.7	0.5	0	0	0	0	0	0.5	12.0	0	0	0	0	0	0	0.5	0	-		
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0	0	0	0	0	0	0	1.5	3.5	1.0	1.0	0	0	0	0.5	0	0	-		
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	-		
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	5.5	1.5	6.0	0	0	0	0	0	0	-		
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.5	0	0.5	0	0	0	0	0	0	-		
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	1.0	0	0	0	0	0.5	1.5	0	0	-	
13-14	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0.5	6.0	7.0	0	0	0	0	0	0.5	0	0	-	
14-15	12.5	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0.5	7.5	3.5	0	0	0	0	4.5	0	0	0	-	
15-16	1.5	0.5	0	0	0	0	0.5	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	4.5	2.0	5.0	0	0	0	0	3.0	0	0	0	-	
16-17	2.0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	6.5	6.0	2.5	2.5	6.0	0	0	0	0	0.5	0	0	0	-
17-18	5.0	0	2.0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	5.5	1.0	10.0	3.0	2.0	0	0	0	0	1.5	0	0	0	0	-	
18-19	2.0	0	0	0	0	2.5	2.5	0	0	0	0	0	0	0	0.5	0	0	0	0	0.5	19.0	8.5	0.5	0	0	0	0	4.0	0.5	0	0	0	-	
19-20	0.5	0	3.5	0	0	3	1.5	0	0	0	0	0	0	0	3.5	0	0	0	0	0	10.0	3.0	2.5	0	3.0	0	0	8.0	0	0	0	0	-	
20-21	6.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.0	6.0	1.5	0	1.5	0	0	12.5	0	0	0	0	-	
21-22	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.0	16.5	2.5	0	11.0	0	0	12.0	0	0	0	0	-	
22-23	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.0	3.5	0.5	0	1.0	0	0	7.5	0	0	0	0	-	
23-24	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0	2.5	0	0	0.5	0	0	3.5	0	0	0	0	-	
Total	42.5	3.0	5.5	0.5	0.0	7.0	5.0	0	0	8.5	0	7.0	6.0	1.0	95.2	0.5	0	0	5.5	8.0	113.5	213.5	35.5	16.0	17.0	0	60.0	5.0	0	0	0	0	-	

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (7/13)

Month : JUNE, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	1.0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	12.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	1.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	5.0	0	2.0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	2.0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0.5	0	3.5	0	0	0	3	1.5	0	0	0	1.5	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	6.0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	42.5	3.0	5.5	0.5	0.0	7.0	5.0	0	0	8.5	0	7.0	6.0	1.0	95.2	0.5	0	0	5.5	8.0	113.5	213.5	35.5	16.0	17.0	0	60.0	5.0	0	0

Month: JULY, 1990

Day

Time	Day																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
0-1	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.5	0	0	0	-	
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0.5	0	0	2.0	0	-	
2-3	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	1.0	0	-	
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	1.0	0	1.0	0	-	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	-	
7-8	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	-	
8-9	0	0	0	0	0	0	0	0	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0.5	-	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0.5	-	
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	-	
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
14-15	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	1.0	7.0	0	0	0	0	0.5	1.5	0.5	16.0	13.0	0	0	-
15-16	0	0	0.5	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	0	0	3.5	0	0	0	23.0	0	0.5	6.0	11.5	4.0	0	0	-
16-17	0	0	1.0	0	0	0	0	0	16.5	2.5	0	1.5	0	0	0	0	0	0	0	0	0	5.0	1.0	2.0	0	2.5	16.0	1.0	0	0	0	0	-
17-18	0	0	0	0	0	0	0	0	0.5	2.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	0	2.0	0	1.0	0.5	0	0	3.0	0	-	
18-19	0.5	0.5	0	0	0	0	0	0	0	0.5	0	0	0	0	0.5	0	0.5	0.5	0	0	0	0	0	1.5	0	3.5	0.5	6.0	0	0	3.0	-	
19-20	9.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.5	1.0	1.0	6.0	0	0	0	-	
20-21	0	0.5	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0.5	0	1.0	2.0	5.5	0	0	0	-	
21-22	0	0	0	0	0	0.5	4.5	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
22-23	0	0	0	0	0	0	1.0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	1.0	0	0	0	-
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (9/13)

Month : AUGUST, 1990

(Unit: mm)

Time	Day																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
0-1	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	1.0	0	8.0	0	0	0	0.5	0		
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0.5	0	0	0	27.0	0	0	0	1.5	5.5		
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0	0.5	0	0	0	0		
3-4	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.5	0	0	0	0	0	0	0	5.5	0	0	0	0	0	
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0	0	0	0	4.0	0	0.5	0	0	
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0.5	0	0	0	0	1.0	0	0	0	0	
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0.3	0	0	0	0	0	0.5	0	0	0	0	
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0.25	0	0	0	0	20.0	0	0	0	0	0	0	
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	
11-12	0	0	32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	4.5	0.5	0	0.5	0	0	0	
12-13	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	0	0	0.5	0	0	0	0	0	0.5	0	0	0	
13-14	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0.5	0.5	0	0	0	8.0	0	13.5	0	0	0	0	
14-15	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	5.5	14.5	0	0	0	18.0	0	0	0	0	5.0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	2.0	0.5	0	0	10.5	0	0	0	0	2.0	1.0	
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	1.5	0	0	0	4.5	0	0	0	0	0	0	
17-18	11.0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0	0	1.5	0	0	2.5	0	0.35	0	0	0	3.0	0	0	0	0	0	0	
18-19	0	0	0	0	0	0	0	0	0	0	0.5	0	0	2.5	2.0	0	0.5	2.0	0	0	0	0	0	0.5	1.5	0	11.0	0	0	0	0	0	0	
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	1.0	0.5	0	0	0	0	0	0	0	0	14.0	0	0.5	0.5	0	0	0	
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	1.5	0	0	0	0	0	0	0	0	6.5	0.5	0.5	0	0	0	0	
21-22	0	0	0	0	0	0	0	0	0	0.5	0	0	0	3.0	0	4.0	0.5	1.5	0	0	0	0	0	0	0	0	11.0	0.5	3.0	0	0	0.5	0	
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	1.5	0.5	0	8.0	0	3.5	0	0	0	14.5	
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	0	6.0	0	0	0	2.0	0	0	20.0	
Total	17.0	7.0	34.0	0.0	0.0	0.0	4.5	0.0	0.5	0.5	3.0	0.0	0.0	15.5	2.5	6.0	2.5	49.5	0.0	16.0	13.5	8.5	45.0	14.0	1.0	128.5	51.0	34.0	3.5	9.5	41.5	0	41.5	

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (10/13)

Month : SEPTEMBER, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	11.0	0	0	0	1.0	0	0	2.0	5.0	0.5	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	13.5	0	0	0	0	0	0	0	0.5	1.0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
2-3	9.0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	27.5	0	0	0	0	0	0	2.5	0	0.5	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	21.0	0	0	0	0	0	0	3.0	0	0.5	2.5	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	21.5	0	0	0	0	0	0	9.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	17.0	0	0	0	0	0	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	5.0	0	0	0	0	0	0.5	13.0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	21.0	0	0	0	0	0	3.5	8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	10.0	0	0	0	0	0	3.0	13.5	2.0	20.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	44.5	0	0.5	0	0	0	1.5	7.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	2.0	0	0.5	0	0	0	0	20.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	4.0	0	0	0.5	0.5	3.0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	3.5	0	0	1.5	2.0	3.0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0.5	0	2.0	0	0	0	0	0.5	0.5	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0.5	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	5.5	0	0
17-18	0	0	0.5	0	0	0	0.5	1.5	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.0	0.5	0	0
18-19	0	0	0	0	0	0	1.5	11.5	0	0	0	0	0	1.0	0	0	0	0	2.0	0	0	0	0	0	0	0	0.5	0	0.5	0
19-20	0	4.0	0.5	0	0	0	0.5	1.0	2.5	0	0	0	0	3.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0.5	0
20-21	0	5.0	0	0	0	0	4.0	20.0	1.0	0	0	0	0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	2.5	1.0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	9.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	7.0	0	0	0	0	0	9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	205.5	9.0	12.0	1.0	0.5	19.5	133.5	19.5	29.0	3.0	0.0	0.0	0.0	29.0	10.5	0.0	0.0	0.0	2.5	15.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	7.0	15.0	31.0



Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (11/13)

Month : OCTOBER, 1990

(Unit: mm)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0.5	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	1.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	3.0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	1.0	6.5	0.5	2.5	4.0	0.0	9.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (12/13)

Month: NOVEMBER, 1990

(Unit: mm)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0.5	0	0	0	0	0	1.0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
9-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-19	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20	0	0	0	0	0	0	1.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-21	0	0	0	0	0	0	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-23	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-24	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.5	0.0	0.0	0.0	0.0	3.0	1.0	2.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 4 HOURLY RAINFALL RECORD AT STO. DOMINGO (13/13)

Month : DECEMBER, 1990

(Unit: mm)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0-1																																
1-2																																
2-3																																
3-4																																
4-5																																
5-6																																
6-7																																
7-8																																
8-9																																
9-10																																
10-11																																
11-12																																
12-13																																
13-14																																
14-15																																
15-16																																
16-17																																
17-18																																
18-19																																
19-20																																
20-21																																
21-22																																
22-23																																
23-24																																
Total																																

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (1/15)

Month: October, 1989

(Unit: m)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54	1.90	1.58	1.41	1.25	1.16	1.09	1.05	0.98	0.96	0.94	
2:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	1.88	1.57	1.40	1.25	1.16	1.09	1.05	0.98	0.96	0.94	
3:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.46	1.87	1.56	1.39	1.25	1.15	1.09	1.05	0.98	0.97	0.94	
4:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.41	1.85	1.55	1.39	1.25	1.15	1.09	1.05	0.98	0.97	0.94	
5:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.37	1.84	1.54	1.38	1.25	1.15	1.09	1.05	0.98	0.97	0.93	
6:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.34	1.83	1.54	1.38	1.25	1.15	1.09	1.05	0.99	0.97	0.93	
7:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31	1.82	1.53	1.38	1.25	1.15	1.09	1.05	0.99	0.97	0.93	
8:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.28	1.80	1.53	1.38	1.25	1.15	1.09	1.05	0.99	0.98	0.93	
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26	1.79	1.52	1.37	1.24	1.15	1.08	1.05	0.99	0.98	0.93	
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23	1.77	1.51	1.37	1.24	1.15	1.08	1.05	1.00	0.98	0.93	
11:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.21	1.76	1.50	1.37	1.24	1.14	1.08	1.04	1.00	0.98	0.93	
12:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.18	1.74	1.49	1.36	1.24	1.14	1.08	1.04	1.00	0.98	0.93	
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.16	1.73	1.48	1.35	1.23	1.14	1.07	1.04	0.99	0.98	0.93	
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.14	1.71	1.47	1.34	1.23	1.14	1.07	1.04	0.99	0.98	0.93	
15:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.23	2.12	1.70	1.47	1.33	1.22	1.13	1.07	1.02	0.99	0.97	0.93
16:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16	2.09	1.69	1.46	1.32	1.21	1.13	1.07	1.01	0.98	0.97	0.93
17:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.07	2.06	1.68	1.45	1.31	1.20	1.13	1.07	1.01	0.97	0.97	0.92
18:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	2.04	1.67	1.44	1.31	1.19	1.13	1.07	1.0	0.97	0.97	0.92
19:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	2.02	1.66	1.44	1.30	1.19	1.12	1.07	1.0	0.97	0.96	0.92
20:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84	2.0	1.65	1.44	1.29	1.19	1.11	1.07	0.99	0.96	0.96	0.91
21:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77	1.98	1.63	1.43	1.28	1.19	1.11	1.06	0.98	0.96	0.95	0.91
22:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71	1.96	1.62	1.42	1.27	1.18	1.10	1.06	0.98	0.96	0.95	0.90
23:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.65	1.94	1.60	1.42	1.26	1.17	1.09	1.06	0.98	0.96	0.95	0.90
24:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.59	1.92	1.59	1.41	1.26	1.16	1.09	1.05	0.98	0.96	0.94	0.89
Average	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89	2.19	1.74	1.49	1.34	1.22	1.13	1.08	1.03	0.98	0.97	0.92

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (2/15)

Month: November, 1989

(Unit: m)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1:00	0.89	0.87	0.86	0.85	0.84	0.83	0.78	0.81	0.81	0.80	0.79	0.82	0.79	0.77	0.75	0.79	0.87	0.78	0.80	0.72	0.69	-	-	-	-	-	-	-	-	-	-
2:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.79	0.77	0.75	0.79	0.86	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
3:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.79	0.85	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
4:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.79	0.85	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
5:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.79	0.84	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
6:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.80	0.84	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
7:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.80	0.84	0.78	0.79	0.72	0.69	-	-	-	-	-	-	-	-	-	-
8:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.80	0.83	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
9:00	0.89	0.87	0.86	0.85	0.84	0.82	0.78	0.82	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.81	0.83	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
10:00	0.89	0.87	0.86	0.85	0.84	0.81	0.78	0.81	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.81	0.83	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
11:00	0.89	0.87	0.86	0.85	0.84	0.81	0.79	0.82	0.81	0.80	0.79	0.82	0.78	0.78	0.75	0.81	0.83	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
12:00	0.89	0.87	0.86	0.85	0.84	0.81	0.79	0.82	0.81	0.81	0.79	0.82	0.78	0.78	0.76	0.82	0.82	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
13:00	0.89	0.87	0.86	0.85	0.84	0.80	0.79	0.82	0.81	0.81	0.79	0.82	0.78	0.79	0.76	0.82	0.82	0.77	0.78	0.72	0.69	-	-	-	-	-	-	-	-	-	-
14:00	0.89	0.87	0.86	0.85	0.85	0.80	0.79	0.82	0.81	0.81	0.79	0.82	0.78	0.79	0.76	0.82	0.82	0.77	0.79	0.71	-	-	-	-	-	-	-	-	-	-	-
15:00	0.89	0.88	0.86	0.85	0.85	0.80	0.79	0.82	0.81	0.80	0.79	0.82	0.78	0.79	0.77	0.82	0.82	0.79	0.78	0.71	-	-	-	-	-	-	-	-	-	-	-
16:00	0.89	0.88	0.86	0.85	0.85	0.79	0.80	0.81	0.80	0.80	0.79	0.81	0.78	0.78	0.78	0.82	0.82	0.81	0.78	0.70	-	-	-	-	-	-	-	-	-	-	-
17:00	0.89	0.88	0.86	0.85	0.85	0.79	0.80	0.81	0.80	0.80	0.79	0.80	0.78	0.78	0.79	0.82	0.82	0.82	0.81	0.78	0.70	-	-	-	-	-	-	-	-	-	-
18:00	0.89	0.88	0.86	0.85	0.85	0.79	0.80	0.81	0.80	0.80	0.81	0.79	0.77	0.77	0.79	0.82	0.82	0.82	0.82	0.75	0.70	-	-	-	-	-	-	-	-	-	-
19:00	0.89	0.88	0.86	0.84	0.83	0.79	0.80	0.81	0.80	0.80	0.81	0.79	0.77	0.77	0.79	0.84	0.82	0.82	0.82	0.75	0.70	-	-	-	-	-	-	-	-	-	-
20:00	0.88	0.88	0.86	0.84	0.84	0.79	0.81	0.81	0.81	0.79	0.81	0.79	0.77	0.77	0.79	0.86	0.81	0.82	0.73	0.69	-	-	-	-	-	-	-	-	-	-	-
21:00	0.88	0.88	0.86	0.84	0.83	0.78	0.81	0.81	0.81	0.79	0.81	0.79	0.77	0.77	0.79	0.87	0.80	0.82	0.82	0.72	0.69	-	-	-	-	-	-	-	-	-	-
22:00	0.87	0.87	0.86	0.84	0.83	0.78	0.81	0.81	0.81	0.79	0.82	0.79	0.77	0.76	0.79	0.87	0.81	0.81	0.81	0.72	0.69	-	-	-	-	-	-	-	-	-	-
23:00	0.87	0.87	0.86	0.84	0.83	0.78	0.81	0.81	0.81	0.79	0.82	0.79	0.77	0.76	0.79	0.87	0.78	0.80	0.80	0.72	0.69	-	-	-	-	-	-	-	-	-	-
24:00	0.87	0.87	0.86	0.84	0.83	0.78	0.81	0.81	0.81	0.79	0.82	0.79	0.77	0.76	0.79	0.87	0.78	0.80	0.80	0.72	0.69	-	-	-	-	-	-	-	-	-	-
Average	0.89	0.87	0.86	0.85	0.84	0.80	0.79	0.81	0.81	0.80	0.80	0.81	0.78	0.78	0.77	0.82	0.83	0.79	0.77	0.71	0.69	-	-	-	-	-	-	-	-	-	-

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (3/15)

Month: December, 1989

(Unit: m)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.89	1.01	1.02	1.03	1.02	1.01	0.92	1.0	0.93	0.90	0.92	
2:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	1.01	1.02	1.03	1.02	1.0	0.95	1.0	0.93	0.90	0.92	
3:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	1.01	1.02	1.03	1.02	1.0	0.98	1.0	0.93	0.90	0.92	
4:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	1.01	1.02	1.03	1.02	1.0	1.0	1.0	0.93	0.90	0.92	
5:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	1.01	1.02	1.03	1.02	0.99	1.01	1.0	0.93	0.90	0.92	
6:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	1.01	1.02	1.03	1.02	0.99	1.01	1.0	0.93	0.90	0.92	
7:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	1.01	1.03	1.03	1.02	0.98	1.01	1.0	0.92	0.90	0.92	
8:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.92	1.01	1.03	1.03	1.02	0.98	1.01	0.99	0.92	0.90	0.92	
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.92	1.0	1.03	1.02	1.01	0.97	1.01	0.99	0.92	0.90	0.92	
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.92	1.0	1.03	1.02	1.01	0.97	1.01	0.98	0.92	0.90	0.91	
11:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	0.92	1.0	1.03	1.02	1.01	0.96	1.01	0.97	0.92	0.90	0.91
12:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81	0.93	1.0	1.03	1.01	1.01	0.96	1.01	0.96	0.91	0.90	0.90
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81	0.95	1.0	1.03	1.0	1.01	0.95	1.01	0.96	0.91	0.90	0.90
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82	0.97	1.01	1.03	0.98	1.01	0.94	1.0	0.95	0.91	0.90	0.89
15:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83	0.99	1.01	1.03	0.97	1.01	0.94	1.0	0.95	0.91	0.90	0.89
16:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83	1.0	1.02	1.03	0.95	1.01	0.91	1.0	0.95	0.91	0.90	0.88
17:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	1.0	1.02	1.03	0.95	1.01	0.90	1.0	0.95	0.91	0.90	0.88
18:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	1.0	1.02	1.03	0.95	1.01	0.90	1.0	0.95	0.91	0.90	0.88
19:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	1.0	1.02	1.03	0.97	1.01	0.90	1.0	0.95	0.91	0.90	0.88
20:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.86	1.0	1.02	1.03	0.99	1.01	0.90	1.0	0.95	0.90	0.91	0.88
21:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.86	1.0	1.02	1.03	1.0	1.01	0.90	1.0	0.95	0.90	0.91	0.88
22:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87	1.0	1.02	1.03	1.01	1.01	0.90	1.0	0.94	0.90	0.93	0.88
23:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	1.01	1.02	1.03	1.01	1.01	0.90	1.0	0.94	0.90	0.92	0.88
24:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.89	1.01	1.02	1.03	1.02	1.01	0.91	1.0	0.93	0.90	0.92	0.88
Average	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.84	0.98	1.01	1.03	0.99	1.01	0.92	1.00	0.95	0.91	0.91	0.89

Month: January, 1990

(Unit: m)

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (4/15)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	0.88	0.88	0.87	0.84	0.83	0.78	0.77	0.74	0.72	0.69	0.70	0.76	0.70	0.73	0.71	0.71	0.82	0.85	0.74	0.68	0.67	0.64	0.64	0.65	0.63	0.61	0.62	0.62	0.73	0.68	0.67	0.71
2:00	0.88	0.88	0.87	0.84	0.83	0.78	0.77	0.74	0.72	0.69	0.70	0.76	0.70	0.72	0.70	0.71	0.82	0.85	0.74	0.68	0.67	0.64	0.65	0.63	0.61	0.62	0.62	0.72	0.68	0.67	0.72	
3:00	0.89	0.88	0.86	0.84	0.83	0.78	0.77	0.74	0.72	0.69	0.70	0.76	0.70	0.72	0.70	0.71	0.82	0.85	0.74	0.68	0.67	0.64	0.65	0.63	0.61	0.62	0.63	0.72	0.68	0.67	0.72	
4:00	0.89	0.88	0.86	0.84	0.82	0.78	0.76	0.74	0.72	0.69	0.70	0.76	0.70	0.72	0.70	0.71	0.83	0.85	0.74	0.68	0.67	0.64	0.65	0.63	0.61	0.62	0.64	0.72	0.68	0.67	0.72	
5:00	0.89	0.88	0.86	0.84	0.82	0.78	0.76	0.74	0.72	0.69	0.70	0.75	0.70	0.72	0.70	0.71	0.83	0.85	0.74	0.68	0.67	0.64	0.65	0.63	0.61	0.62	0.65	0.72	0.68	0.67	0.72	
6:00	0.89	0.88	0.86	0.84	0.82	0.78	0.76	0.74	0.72	0.69	0.70	0.75	0.70	0.72	0.70	0.71	0.84	0.85	0.73	0.68	0.67	0.64	0.65	0.63	0.61	0.62	0.66	0.72	0.68	0.67	0.72	
7:00	0.89	0.87	0.86	0.83	0.82	0.78	0.76	0.74	0.72	0.70	0.70	0.75	0.70	0.72	0.70	0.71	0.84	0.84	0.73	0.68	0.67	0.64	0.65	0.63	0.61	0.63	0.67	0.72	0.69	0.67	0.72	
8:00	0.89	0.87	0.86	0.83	0.81	0.78	0.76	0.74	0.72	0.70	0.70	0.74	0.70	0.72	0.70	0.73	0.85	0.83	0.73	0.68	0.67	0.64	0.65	0.63	0.61	0.63	0.68	0.72	0.69	0.67	0.72	
9:00	0.89	0.86	0.86	0.83	0.81	0.78	0.75	0.74	0.72	0.70	0.70	0.74	0.70	0.72	0.70	0.74	0.85	0.82	0.73	0.68	0.67	0.64	0.65	0.63	0.61	0.63	0.68	0.72	0.69	0.67	0.72	
10:00	0.88	0.86	0.86	0.83	0.81	0.78	0.75	0.74	0.72	0.70	0.71	0.74	0.70	0.72	0.70	0.74	0.85	0.82	0.73	0.68	0.67	0.64	0.65	0.63	0.61	0.63	0.68	0.72	0.69	0.67	0.72	
11:00	0.88	0.86	0.86	0.83	0.81	0.78	0.75	0.74	0.72	0.70	0.71	0.73	0.70	0.72	0.70	0.75	0.85	0.81	0.73	0.68	0.67	0.64	0.65	0.63	0.62	0.63	0.69	0.72	0.69	0.67	0.72	
12:00	0.88	0.86	0.86	0.82	0.81	0.77	0.75	0.74	0.72	0.70	0.71	0.73	0.70	0.72	0.70	0.76	0.85	0.81	0.73	0.67	0.67	0.64	0.65	0.63	0.62	0.63	0.70	0.72	0.69	0.69	0.73	
13:00	0.88	0.86	0.86	0.82	0.81	0.77	0.75	0.74	0.73	0.70	0.71	0.73	0.70	0.72	0.70	0.77	0.85	0.80	0.72	0.67	0.67	0.64	0.65	0.61	0.62	0.64	0.71	0.72	0.69	0.69	0.74	
14:00	0.87	0.85	0.85	0.82	0.81	0.77	0.75	0.74	0.73	0.70	0.71	0.73	0.71	0.72	0.70	0.78	0.85	0.80	0.72	0.67	0.67	0.64	0.65	0.61	0.62	0.64	0.72	0.71	0.69	0.69	0.74	
15:00	0.87	0.85	0.85	0.82	0.81	0.77	0.75	0.72	0.73	0.70	0.72	0.72	0.72	0.72	0.69	0.79	0.85	0.79	0.71	0.67	0.66	0.64	0.65	0.61	0.62	0.64	0.73	0.70	0.69	0.70	0.74	
16:00	0.86	0.85	0.85	0.82	0.80	0.77	0.75	0.72	0.73	0.70	0.74	0.72	0.73	0.72	0.69	0.79	0.85	0.79	0.70	0.67	0.66	0.64	0.65	0.61	0.62	0.64	0.74	0.68	0.69	0.70	0.75	
17:00	0.86	0.85	0.85	0.82	0.80	0.77	0.75	0.72	0.72	0.70	0.75	0.72	0.74	0.72	0.69	0.79	0.85	0.78	0.70	0.67	0.66	0.64	0.65	0.61	0.62	0.64	0.73	0.68	0.69	0.70	0.75	
18:00	0.86	0.85	0.84	0.82	0.79	0.77	0.75	0.72	0.71	0.70	0.76	0.71	0.75	0.72	0.69	0.80	0.84	0.78	0.69	0.67	0.66	0.64	0.64	0.61	0.62	0.64	0.75	0.68	0.69	0.70	0.75	
19:00	0.86	0.86	0.84	0.82	0.79	0.77	0.75	0.72	0.69	0.70	0.76	0.70	0.75	0.72	0.69	0.80	0.84	0.77	0.68	0.67	0.66	0.64	0.64	0.61	0.62	0.64	0.75	0.68	0.69	0.70	0.75	
20:00	0.86	0.86	0.84	0.83	0.79	0.77	0.75	0.72	0.69	0.70	0.76	0.70	0.75	0.72	0.69	0.80	0.84	0.77	0.68	0.67	0.66	0.64	0.64	0.61	0.62	0.64	0.75	0.68	0.69	0.70	0.75	
21:00	0.86	0.86	0.84	0.83	0.79	0.77	0.75	0.72	0.69	0.70	0.76	0.70	0.75	0.72	0.69	0.81	0.85	0.76	0.68	0.67	0.65	0.64	0.64	0.61	0.62	0.64	0.74	0.68	0.68	0.70	0.76	
22:00	0.87	0.87	0.84	0.83	0.79	0.77	0.75	0.72	0.69	0.70	0.76	0.70	0.74	0.71	0.70	0.81	0.85	0.75	0.68	0.67	0.64	0.65	0.64	0.61	0.62	0.64	0.74	0.68	0.68	0.70	0.76	
23:00	0.87	0.87	0.84	0.83	0.79	0.77	0.74	0.72	0.69	0.70	0.76	0.70	0.74	0.71	0.70	0.81	0.85	0.75	0.68	0.67	0.64	0.65	0.64	0.61	0.62	0.63	0.73	0.68	0.68	0.71	0.76	
24:00	0.88	0.87	0.84	0.83	0.79	0.77	0.74	0.72	0.69	0.70	0.76	0.70	0.74	0.71	0.71	0.82	0.85	0.74	0.68	0.67	0.64	0.65	0.64	0.61	0.62	0.63	0.73	0.68	0.67	0.71	0.76	
Average	0.88	0.87	0.85	0.83	0.81	0.77	0.75	0.73	0.71	0.70	0.72	0.73	0.72	0.72	0.70	0.76	0.84	0.81	0.71	0.67	0.66	0.64	0.65	0.62	0.62	0.63	0.70	0.70	0.69	0.69	0.73	

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (5/15)

Month: February, 1990

(Unit: m)

Time	Day																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1:00	0.76	0.78	0.83	0.81	0.72	0.70	0.67	0.63	0.60	0.64	0.62	0.70	0.68	0.70	0.65	0.62	0.61	0.60	0.59	0.59	0.62	0.58	0.58	0.59	0.57	0.58	0.57	0.57
2:00	0.76	0.78	0.83	0.79	0.72	0.70	0.67	0.63	0.60	0.64	0.62	0.69	0.68	0.70	0.65	0.62	0.61	0.60	0.59	0.59	0.62	0.58	0.58	0.59	0.57	0.58	0.57	0.57
3:00	0.76	0.78	0.83	0.79	0.71	0.70	0.67	0.63	0.60	0.64	0.61	0.68	0.67	0.69	0.65	0.62	0.61	0.60	0.59	0.59	0.62	0.58	0.58	0.59	0.57	0.58	0.57	0.56
4:00	0.77	0.79	0.83	0.78	0.71	0.70	0.67	0.63	0.60	0.64	0.61	0.68	0.67	0.69	0.65	0.62	0.61	0.60	0.59	0.59	0.62	0.58	0.58	0.59	0.57	0.58	0.57	0.56
5:00	0.77	0.79	0.83	0.77	0.71	0.68	0.67	0.63	0.60	0.64	0.61	0.67	0.66	0.69	0.65	0.62	0.61	0.59	0.59	0.59	0.62	0.58	0.58	0.59	0.57	0.58	0.57	0.56
6:00	0.77	0.80	0.83	0.77	0.71	0.68	0.67	0.63	0.60	0.63	0.61	0.67	0.66	0.69	0.64	0.62	0.61	0.59	0.59	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
7:00	0.77	0.80	0.83	0.76	0.71	0.68	0.66	0.63	0.60	0.63	0.61	0.67	0.66	0.68	0.64	0.62	0.61	0.59	0.59	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
8:00	0.78	0.81	0.83	0.76	0.71	0.68	0.66	0.63	0.60	0.63	0.61	0.66	0.66	0.68	0.63	0.62	0.61	0.59	0.59	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
9:00	0.78	0.81	0.83	0.75	0.70	0.68	0.66	0.63	0.60	0.63	0.61	0.66	0.66	0.68	0.63	0.62	0.61	0.59	0.59	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
10:00	0.78	0.81	0.83	0.75	0.70	0.68	0.66	0.63	0.60	0.63	0.61	0.66	0.65	0.68	0.63	0.62	0.61	0.59	0.59	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
11:00	0.79	0.82	0.83	0.75	0.70	0.68	0.66	0.63	0.60	0.63	0.61	0.66	0.65	0.68	0.63	0.62	0.61	0.59	0.58	0.59	0.61	0.58	0.58	0.59	0.57	0.58	0.57	0.56
12:00	0.79	0.82	0.82	0.75	0.70	0.68	0.66	0.62	0.60	0.63	0.61	0.66	0.65	0.68	0.63	0.62	0.61	0.59	0.58	0.59	0.60	0.59	0.58	0.59	0.57	0.58	0.57	0.56
13:00	0.79	0.83	0.82	0.75	0.70	0.68	0.66	0.62	0.60	0.63	0.61	0.66	0.65	0.68	0.63	0.62	0.61	0.59	0.58	0.59	0.60	0.59	0.58	0.59	0.57	0.58	0.57	0.56
14:00	0.79	0.83	0.82	0.75	0.70	0.68	0.66	0.62	0.60	0.63	0.61	0.66	0.65	0.68	0.63	0.62	0.61	0.59	0.58	0.59	0.60	0.59	0.58	0.59	0.57	0.58	0.57	0.56
15:00	0.79	0.83	0.83	0.74	0.70	0.68	0.66	0.62	0.60	0.63	0.61	0.66	0.65	0.67	0.62	0.61	0.60	0.59	0.58	0.59	0.59	0.58	0.58	0.59	0.57	0.58	0.57	0.56
16:00	0.80	0.84	0.83	0.73	0.70	0.68	0.66	0.62	0.61	0.63	0.67	0.66	0.65	0.66	0.62	0.61	0.60	0.59	0.58	0.59	0.58	0.58	0.58	0.59	0.57	0.58	0.57	0.56
17:00	0.80	0.84	0.83	0.73	0.70	0.68	0.66	0.62	0.61	0.63	0.67	0.66	0.65	0.66	0.62	0.61	0.60	0.59	0.58	0.59	0.58	0.58	0.58	0.59	0.57	0.58	0.57	0.56
18:00	0.80	0.84	0.83	0.73	0.70	0.68	0.66	0.62	0.61	0.63	0.67	0.66	0.65	0.66	0.62	0.61	0.60	0.59	0.58	0.59	0.58	0.58	0.58	0.59	0.57	0.58	0.57	0.56
19:00	0.80	0.84	0.83	0.72	0.70	0.68	0.66	0.62	0.62	0.65	0.70	0.68	0.70	0.65	0.62	0.61	0.60	0.59	0.57	0.59	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
20:00	0.80	0.84	0.83	0.72	0.70	0.68	0.66	0.61	0.62	0.66	0.70	0.69	0.70	0.65	0.62	0.61	0.60	0.59	0.57	0.59	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
21:00	0.79	0.84	0.83	0.72	0.70	0.67	0.66	0.61	0.63	0.66	0.70	0.69	0.70	0.65	0.62	0.61	0.60	0.59	0.57	0.60	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
22:00	0.79	0.83	0.83	0.72	0.70	0.67	0.66	0.61	0.64	0.67	0.70	0.69	0.70	0.65	0.62	0.61	0.60	0.59	0.57	0.60	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
23:00	0.79	0.83	0.83	0.72	0.70	0.67	0.66	0.60	0.64	0.67	0.70	0.69	0.70	0.65	0.62	0.61	0.60	0.59	0.58	0.62	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
24:00	0.78	0.83	0.82	0.72	0.70	0.67	0.66	0.60	0.64	0.67	0.70	0.69	0.70	0.65	0.62	0.61	0.60	0.59	0.59	0.62	0.58	0.58	0.58	0.57	0.58	0.57	0.57	0.56
Average	0.78	0.82	0.83	0.75	0.70	0.68	0.66	0.62	0.61	0.64	0.64	0.67	0.67	0.67	0.63	0.61	0.60	0.59	0.58	0.59	0.60	0.58	0.58	0.58	0.57	0.57	0.57	0.56



(Urgent)

Month: March, 1990

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.66	0.67	0.65	0.6	0.59	0.55	0.55	0.53	0.52
2:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.66	0.67	0.65	0.59	0.58	0.55	0.54	0.53	0.52
3:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.67	0.65	0.58	0.58	0.55	0.54	0.53	0.52
4:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.67	0.65	0.58	0.58	0.55	0.54	0.53	0.52
5:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.67	0.64	0.58	0.58	0.55	0.54	0.53	0.52
6:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.66	0.64	0.58	0.58	0.55	0.54	0.53	0.52
7:00	0.56	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.66	0.64	0.58	0.58	0.55	0.54	0.53	0.52
8:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
9:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.61	0.61	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
10:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.61	0.61	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
11:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.62	0.62	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
12:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.62	0.62	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
13:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.63	0.63	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52
14:00	0.57	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.63	0.63	0.67	0.65	0.63	0.58	0.58	0.55	0.54	0.53	0.52
15:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.64	0.63	0.67	0.65	0.63	0.58	0.58	0.55	0.53	0.52	0.52
16:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.63	0.61	0.65	0.64	0.67	0.65	0.63	0.58	0.58	0.55	0.53	0.52	0.52
17:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.65	0.65	0.67	0.65	0.63	0.57	0.58	0.54	0.53	0.52	0.52
18:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.66	0.66	0.67	0.65	0.63	0.57	0.58	0.54	0.53	0.52	0.52
19:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.66	0.66	0.67	0.65	0.63	0.57	0.58	0.54	0.53	0.52	0.52
20:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.66	0.66	0.67	0.65	0.63	0.59	0.57	0.54	0.53	0.52	0.52
21:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.66	0.66	0.67	0.65	0.62	0.6	0.57	0.54	0.53	0.52	0.52
22:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.66	0.66	0.67	0.65	0.62	0.6	0.57	0.54	0.53	0.52	0.52
23:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.66	0.66	0.67	0.65	0.61	0.6	0.57	0.55	0.53	0.52	0.52
24:00	0.57	0.58	0.59	0.6	0.6	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.66	0.66	0.67	0.65	0.6	0.6	0.55	0.55	0.53	0.52	0.52
Average	0.57	0.57	0.59	0.60	0.60	0.58	0.61	0.61	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.62	0.61	0.63	0.63	0.66	0.66	0.63	0.58	0.58	0.55	0.54	0.53	0.52

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (7/15)

Month: April, 1990

(Unit: m)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1:00	0.52	0.54	0.56	0.54	0.55	0.54	0.54	0.54	0.53	0.59	0.57	0.55	0.6	0.6	0.59	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
2:00	0.52	0.54	0.57	0.54	0.55	0.54	0.54	0.54	0.53	0.59	0.57	0.55	0.6	0.6	0.58	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
3:00	0.52	0.54	0.59	0.54	0.55	0.54	0.54	0.54	0.53	0.59	0.57	0.56	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
4:00	0.52	0.54	0.54	0.54	0.55	0.54	0.54	0.54	0.53	0.59	0.57	0.56	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
5:00	0.52	0.54	0.54	0.54	0.55	0.54	0.54	0.54	0.53	0.58	0.57	0.57	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
6:00	0.52	0.54	0.54	0.54	0.55	0.54	0.54	0.54	0.53	0.58	0.57	0.58	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.51	0.49	0.47	0.44	0.44	0.43	0.43	0.43	0.42	0.42
7:00	0.53	0.54	0.58	0.55	0.55	0.54	0.54	0.54	0.53	0.58	0.57	0.58	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.51	0.49	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.42
8:00	0.53	0.54	0.58	0.56	0.55	0.54	0.54	0.54	0.53	0.59	0.56	0.59	0.6	0.6	0.57	0.53	0.53	0.53	0.53	0.53	0.52	0.51	0.49	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.42
9:00	0.53	0.54	0.58	0.56	0.55	0.54	0.54	0.54	0.53	0.59	0.55	0.59	0.6	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.51	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.42
10:00	0.53	0.54	0.58	0.56	0.55	0.54	0.54	0.55	0.53	0.59	0.55	0.6	0.6	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.5	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.42
11:00	0.53	0.55	0.57	0.56	0.55	0.54	0.54	0.55	0.53	0.59	0.55	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.5	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.41
12:00	0.54	0.55	0.57	0.56	0.55	0.54	0.54	0.55	0.53	0.59	0.55	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.41
13:00	0.54	0.55	0.57	0.57	0.55	0.53	0.54	0.55	0.53	0.59	0.55	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.41
14:00	0.54	0.55	0.56	0.57	0.55	0.53	0.54	0.55	0.53	0.58	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.41
15:00	0.54	0.55	0.56	0.57	0.55	0.53	0.54	0.54	0.53	0.58	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41
16:00	0.54	0.55	0.55	0.57	0.55	0.53	0.54	0.54	0.53	0.58	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41
17:00	0.54	0.55	0.55	0.57	0.55	0.53	0.54	0.54	0.53	0.58	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41
18:00	0.54	0.55	0.54	0.56	0.55	0.53	0.53	0.53	0.53	0.55	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
19:00	0.54	0.55	0.54	0.56	0.55	0.53	0.53	0.53	0.53	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
20:00	0.54	0.55	0.53	0.56	0.55	0.53	0.53	0.53	0.53	0.58	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
21:00	0.54	0.55	0.53	0.56	0.55	0.53	0.53	0.53	0.53	0.59	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
22:00	0.54	0.55	0.53	0.56	0.54	0.53	0.53	0.53	0.53	0.6	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.47	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
23:00	0.54	0.55	0.53	0.56	0.54	0.53	0.53	0.53	0.53	0.6	0.57	0.54	0.6	0.61	0.6	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.47	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
24:00	0.54	0.55	0.53	0.56	0.54	0.53	0.53	0.53	0.53	0.59	0.57	0.55	0.59	0.61	0.59	0.54	0.53	0.53	0.53	0.52	0.49	0.48	0.47	0.44	0.44	0.43	0.43	0.43	0.41	0.41	0.41
Average	0.53	0.55	0.56	0.56	0.55	0.53	0.54	0.54	0.55	0.58	0.55	0.59	0.61	0.60	0.55	0.53	0.53	0.53	0.53	0.52	0.50	0.48	0.46	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.41

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (8/15)

Month: May, 1990

(Unit: m)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.43	0.42	0.40	0.4	0.39	0.39	0.40	0.43	0.46	0.47	0.45	0.47	0.58	0.75	0.7	0.58
2:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.43	0.42	0.4	0.4	0.39	0.39	0.4	0.43	0.46	0.47	0.45	0.47	0.59	0.75	0.7	0.57
3:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.4	0.43	0.46	0.47	0.45	0.47	0.59	0.75	0.69	0.57
4:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.4	0.43	0.46	0.47	0.45	0.47	0.6	0.75	0.68	0.57
5:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.4	0.43	0.46	0.47	0.45	0.47	0.61	0.75	0.68	0.57
6:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.40	0.44	0.46	0.47	0.45	0.47	0.61	0.75	0.68	0.57
7:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.44	0.46	0.47	0.45	0.48	0.62	0.75	0.67	0.56
8:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.45	0.47	0.45	0.48	0.63	0.76	0.66	0.56	
9:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.45	0.47	0.45	0.48	0.63	0.76	0.66	0.56	
10:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.45	0.47	0.45	0.48	0.63	0.76	0.66	0.56	
11:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.45	0.47	0.45	0.48	0.64	0.77	0.65	0.56	
12:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.38	0.41	0.45	0.47	0.45	0.48	0.64	0.77	0.65	0.56	
13:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.42	0.4	0.4	0.39	0.39	0.41	0.45	0.47	0.45	0.49	0.66	0.77	0.65	0.56	
14:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.41	0.4	0.4	0.39	0.39	0.41	0.46	0.47	0.46	0.61	0.67	0.77	0.64	0.56	
15:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.41	0.4	0.4	0.39	0.39	0.41	0.46	0.47	0.46	0.61	0.68	0.77	0.64	0.6	
16:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.41	0.4	0.4	0.39	0.39	0.41	0.46	0.47	0.46	0.61	0.69	0.75	0.63	0.63	
17:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.43	0.41	0.4	0.4	0.39	0.39	0.41	0.46	0.47	0.46	0.61	0.7	0.75	0.62	0.62	
18:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.44	0.42	0.41	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.47	0.46	0.71	0.75	0.61	0.6	
19:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.43	0.42	0.41	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.47	0.47	0.71	0.74	0.6	0.6	
20:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.42	0.42	0.41	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.47	0.47	0.72	0.73	0.59	0.59	
21:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.42	0.41	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.46	0.47	0.74	0.72	0.59	0.58	
22:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.43	0.42	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.46	0.47	0.74	0.72	0.58	0.57	
23:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.43	0.42	0.4	0.4	0.39	0.39	0.42	0.46	0.47	0.46	0.47	0.74	0.71	0.58	0.57	
24:00	0.41	0.41	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.4	0.4	0.39	0.4	0.4	0.4	0.41	0.43	0.42	0.4	0.4	0.39	0.39	0.4	0.43	0.46	0.47	0.45	0.75	0.71	0.58	0.56	
Average	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.39	0.40	0.40	0.40	0.42	0.43	0.42	0.40	0.39	0.39	0.39	0.41	0.45	0.47	0.47	0.46	0.52	0.66	0.75	0.64	0.58

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (9/15)

Month: June, 1990

(Unit: m)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1:00	0.56	0.56	0.8	0.71	0.64	0.56	0.56	0.8	0.82	0.71	0.67	0.63	0.7	0.7	0.62	1.26	1.06	0.89	0.76	0.72	0.68	1.24	5.23	3.72	2.69	2.11	1.87	3.10	2.78	2.06	
2:00	0.55	0.57	0.79	0.70	0.63	0.56	0.56	0.82	0.81	0.71	0.66	0.63	0.71	0.69	0.61	1.25	1.06	0.88	0.76	0.71	0.68	1.76	5.21	3.65	2.65	2.16	1.86	3.43	2.74	2.04	
3:00	0.55	0.57	0.78	0.70	0.63	0.56	0.56	0.83	0.8	0.71	0.66	0.66	0.62	0.71	0.69	0.61	1.24	1.05	0.87	0.75	0.71	0.68	2.14	5.18	3.58	2.61	2.29	1.84	3.71	2.70	2.02
4:00	0.55	0.58	0.78	0.69	0.63	0.56	0.56	0.84	0.79	0.7	0.66	0.62	0.71	0.68	0.59	1.23	1.04	0.87	0.75	0.71	0.68	2.43	5.16	3.52	2.57	2.39	1.83	3.90	2.67	2.00	
5:00	0.55	0.59	0.77	0.69	0.63	0.56	0.56	0.84	0.79	0.7	0.66	0.62	0.71	0.68	0.59	1.23	1.03	0.86	0.74	0.7	0.68	2.76	5.11	3.46	2.53	2.40	1.81	3.99	2.63	1.99	
6:00	0.55	0.6	0.77	0.69	0.63	0.56	0.56	0.85	0.78	0.7	0.66	0.62	0.71	0.68	0.59	1.22	1.02	0.86	0.74	0.7	0.68	3.09	5.06	3.93	2.50	2.35	1.80	4.00	2.59	1.98	
7:00	0.55	0.61	0.76	0.69	0.62	0.56	0.56	0.85	0.78	0.7	0.66	0.62	0.71	0.68	0.6	1.21	1.02	0.86	0.74	0.7	0.68	3.35	4.97	3.33	2.47	2.29	1.79	3.96	2.56	1.96	
8:00	0.55	0.63	0.76	0.69	0.62	0.56	0.56	0.85	0.78	0.7	0.66	0.66	0.62	0.71	0.67	0.62	1.21	1.02	0.85	0.73	0.7	0.68	3.63	4.87	3.26	2.44	2.23	1.77	3.89	2.53	1.95
9:00	0.55	0.68	0.76	0.68	0.62	0.55	0.56	0.85	0.85	0.77	0.69	0.66	0.61	0.71	0.67	0.64	1.20	1.01	0.85	0.73	0.7	0.68	3.94	4.75	3.21	2.41	2.19	1.76	3.80	2.50	1.94
10:00	0.54	0.72	0.76	0.68	0.62	0.55	0.56	0.85	0.85	0.77	0.69	0.65	0.61	0.72	0.67	0.64	1.19	1.00	0.84	0.73	0.7	0.68	4.17	4.62	3.16	2.38	2.15	1.75	3.73	2.47	1.93
11:00	0.54	0.77	0.76	0.68	0.61	0.55	0.55	0.85	0.85	0.76	0.69	0.65	0.61	0.72	0.67	0.64	1.19	0.99	0.84	0.73	0.7	0.68	4.37	4.48	3.13	2.36	2.12	1.74	3.65	2.44	1.91
12:00	0.54	0.82	0.76	0.68	0.61	0.55	0.55	0.85	0.85	0.76	0.69	0.65	0.61	0.73	0.67	0.66	1.19	0.98	0.83	0.73	0.69	0.69	4.58	4.33	3.08	2.33	2.09	1.73	3.56	2.41	1.90
13:00	0.54	0.85	0.75	0.68	0.6	0.55	0.55	0.85	0.85	0.76	0.68	0.65	0.61	0.73	0.67	0.68	1.17	0.99	0.83	0.73	0.69	0.69	4.82	4.19	3.04	2.30	2.07	1.72	3.48	2.38	1.88
14:00	0.54	0.87	0.75	0.67	0.6	0.54	0.55	0.86	0.86	0.76	0.68	0.65	0.61	0.74	0.67	0.88	1.16	0.99	0.82	0.73	0.69	0.7	5.03	4.07	3.00	2.27	2.04	1.70	3.39	2.34	1.85
15:00	0.54	0.88	0.74	0.67	0.6	0.54	0.55	0.86	0.86	0.76	0.68	0.65	0.61	0.74	0.67	1.35	1.15	0.99	0.82	0.73	0.69	0.71	5.20	3.98	2.98	2.25	2.01	1.69	3.30	2.30	1.83
16:00	0.55	0.88	0.73	0.66	0.59	0.54	0.55	0.86	0.86	0.77	0.68	0.65	0.61	0.74	0.68	1.47	1.15	0.96	0.82	0.73	0.68	0.72	5.31	3.89	2.98	2.21	1.99	1.68	3.23	2.27	1.81
17:00	0.55	0.87	0.75	0.66	0.59	0.54	0.56	0.86	0.86	0.77	0.68	0.65	0.61	0.74	0.68	1.49	1.14	0.96	0.81	0.73	0.68	0.73	5.39	3.83	2.98	2.19	1.97	1.68	3.17	2.24	1.79
18:00	0.55	0.86	0.75	0.65	0.58	0.53	0.56	0.87	0.87	0.74	0.66	0.64	0.6	0.74	0.68	1.46	1.13	0.95	0.8	0.73	0.68	0.74	5.43	3.81	2.96	2.16	1.96	1.69	3.14	2.20	1.76
19:00	0.55	0.85	0.74	0.65	0.58	0.57	0.56	0.87	0.87	0.74	0.66	0.64	0.6	0.74	0.67	1.42	1.12	0.94	0.79	0.74	0.68	0.75	5.46	3.84	2.93	2.14	1.93	1.76	3.09	2.18	1.74
20:00	0.55	0.84	0.73	0.65	0.62	0.57	0.56	0.87	0.86	0.74	0.66	0.64	0.6	0.73	0.66	1.38	1.11	0.93	0.79	0.75	0.68	0.77	5.46	3.86	2.89	2.11	1.92	1.88	3.04	2.16	1.73
21:00	0.55	0.83	0.73	0.64	0.62	0.57	0.58	0.86	0.86	0.74	0.66	0.64	0.66	0.72	0.65	1.34	1.10	0.92	0.78	0.75	0.68	0.79	5.44	3.89	2.86	2.10	1.90	2.11	2.98	2.13	1.72
22:00	0.55	0.82	0.72	0.64	0.58	0.56	0.63	0.85	0.73	0.66	0.64	0.64	0.68	0.71	0.64	1.32	1.09	0.92	0.78	0.76	0.68	0.82	5.40	3.88	2.81	2.09	1.89	2.32	2.93	2.11	1.75
23:00	0.55	0.81	0.72	0.64	0.57	0.56	0.71	0.84	0.73	0.66	0.63	0.69	0.71	0.62	1.29	1.08	0.9	0.77	0.74	0.68	0.87	5.33	3.84	2.77	2.09	1.83	2.47	2.88	2.09	1.80	
24:00	0.55	0.8	0.72	0.64	0.57	0.56	0.77	0.83	0.72	0.67	0.63	0.7	0.7	0.62	1.27	1.07	0.89	0.77	0.73	0.68	0.98	5.25	3.79	2.73	2.09	1.87	2.70	2.83	2.07	1.82	
Average	0.55	0.74	0.75	0.67	0.61	0.56	0.58	0.85	0.76	0.68	0.65	0.63	0.72	0.67	0.95	1.17	0.99	0.83	0.74	0.69	0.73	4.21	4.41	3.16	2.33	2.09	1.87	3.42	2.40	1.83	

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (10/15)

Month: July, 1990

(Unit: m)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	1.81	1.52	1.36	1.38	1.18	1.15	1.12	1.11	1.45	1.33	1.21	1.14	1.05	1.02	1.0	1.0	-	-	-	-	1.46	1.30	1.25	1.12	1.49	1.56	1.91	2.38	3.30	2.92	2.36	
2:00	1.79	1.53	1.36	1.37	1.18	1.15	1.12	1.13	1.42	1.34	1.21	1.13	1.04	1.02	1.0	1.0	-	-	-	-	1.45	1.30	1.33	1.12	1.55	1.57	1.91	2.45	3.32	2.89	2.35	
3:00	1.76	1.54	1.36	1.36	1.18	1.15	1.12	1.16	1.39	1.34	1.21	1.13	1.04	1.02	1.0	1.0	-	-	-	-	1.44	1.29	1.37	1.12	1.56	1.57	1.90	2.47	3.33	2.86	2.34	
4:00	1.74	1.54	1.36	1.34	1.18	1.16	1.12	1.17	1.37	1.33	1.20	1.12	1.04	1.01	1.0	1.0	-	-	-	-	1.43	1.29	1.38	1.11	1.54	1.55	1.90	2.45	3.33	2.83	2.33	
5:00	1.72	1.53	1.36	1.33	1.18	1.16	1.12	1.18	1.35	1.33	1.20	1.12	1.04	1.01	1.0	1.0	-	-	-	-	1.42	1.29	1.37	1.11	1.51	1.54	1.89	2.44	3.31	2.80	2.36	
6:00	1.70	1.52	1.36	1.32	1.18	1.16	1.13	1.18	1.35	1.33	1.20	1.12	1.04	1.01	1.0	1.0	-	-	-	-	1.41	1.29	1.35	1.11	1.50	1.53	1.88	2.42	3.28	2.77	2.31	
7:00	1.69	1.52	1.36	1.31	1.19	1.16	1.14	1.18	1.34	1.32	1.20	1.12	1.05	1.01	1.0	1.0	-	-	-	-	1.40	1.28	1.32	1.11	1.50	1.52	1.87	2.39	3.25	2.75	2.29	
8:00	1.68	1.51	1.35	1.30	1.20	1.16	1.14	1.18	1.34	1.32	1.20	1.11	1.05	1.01	1.0	1.0	-	-	-	-	1.40	1.28	1.30	1.11	1.52	1.52	1.87	2.38	3.21	2.73	2.28	
9:00	1.67	1.50	1.35	1.29	1.20	1.16	1.14	1.18	1.33	1.31	1.19	1.11	1.05	1.01	1.0	1.0	-	-	-	-	1.39	1.28	1.28	1.10	1.52	1.56	1.87	2.36	3.17	2.72	2.27	
10:00	1.66	1.49	1.35	1.29	1.20	1.16	1.14	1.18	1.32	1.31	1.19	1.11	1.05	1.01	1.0	1.0	-	-	-	-	1.39	1.28	1.24	1.10	1.52	1.51	1.87	2.34	3.14	2.70	2.25	
11:00	1.64	1.49	1.34	1.29	1.20	1.16	1.14	1.17	1.31	1.31	1.18	1.11	1.05	1.01	1.0	1.0	-	-	-	-	1.39	1.28	1.25	1.10	1.51	1.50	1.87	2.33	3.10	2.68	2.23	
12:00	1.63	1.48	1.33	1.28	1.20	1.16	1.13	1.17	1.31	1.30	1.18	1.10	1.05	1.01	1.0	1.0	-	-	-	-	1.38	1.28	1.23	1.10	1.50	1.50	1.87	2.32	3.06	2.65	2.22	
13:00	1.62	1.46	1.33	1.28	1.20	1.16	1.13	1.17	1.32	1.29	1.18	1.10	1.05	1.01	1.0	1.0	-	-	-	-	1.38	1.27	1.22	1.10	1.49	1.49	1.86	2.32	3.02	2.63	2.20	
14:00	1.60	1.44	1.33	1.27	1.20	1.16	1.13	1.17	1.32	1.28	1.17	1.10	1.04	1.01	1.0	1.0	-	-	-	-	1.37	1.27	1.22	1.09	1.48	1.49	1.83	2.32	2.99	2.60	2.19	
15:00	1.59	1.43	1.32	1.27	1.19	1.16	1.13	1.16	1.33	1.28	1.16	1.10	1.04	1.01	1.0	1.0	-	-	-	-	1.36	1.26	1.21	1.08	1.48	1.49	1.84	2.34	2.96	2.58	2.17	
16:00	1.58	1.42	1.31	1.26	1.17	1.16	1.13	1.16	1.33	1.28	1.15	1.09	1.04	1.0	1.0	1.0	-	-	-	-	1.35	1.25	1.20	1.08	1.47	1.49	1.84	2.39	2.94	2.55	2.15	
17:00	1.56	1.42	1.31	1.26	1.17	1.15	1.12	1.16	1.33	1.28	1.15	1.09	1.03	1.0	1.0	1.0	-	-	-	-	1.34	1.25	1.18	1.08	1.47	1.50	1.91	2.44	2.93	2.53	2.14	
18:00	1.55	1.41	1.31	1.25	1.16	1.15	1.11	1.16	1.32	1.27	1.15	1.08	1.03	1.0	1.0	1.0	-	-	-	-	1.37	1.24	1.17	1.08	1.46	1.52	1.97	2.49	2.93	2.51	2.12	
19:00	1.53	1.40	1.31	1.24	1.16	1.14	1.11	1.15	1.31	1.26	1.15	1.07	1.03	1.0	1.0	1.0	-	-	-	-	1.36	1.23	1.16	1.09	1.47	1.55	2.00	2.59	2.93	2.48	2.11	
20:00	1.51	1.40	1.31	1.23	1.16	1.14	1.11	1.17	1.31	1.24	1.15	1.07	1.02	1.0	1.0	1.0	-	-	-	-	1.36	1.23	1.15	1.10	1.48	1.61	2.40	2.74	2.94	2.46	2.10	
21:00	1.50	1.39	1.31	1.22	1.16	1.13	1.11	1.16	1.31	1.23	1.14	1.06	1.02	1.0	1.0	1.0	-	-	-	-	1.35	1.22	1.14	1.10	1.49	1.73	2.09	2.90	2.96	2.44	2.08	
22:00	1.49	1.38	1.32	1.21	1.16	1.13	1.11	1.57	1.31	1.23	1.14	1.06	1.02	1.0	1.0	1.0	-	-	-	-	1.49	1.31	1.21	1.14	1.50	1.82	2.16	3.07	2.96	2.42	2.07	
23:00	1.49	1.37	1.36	1.20	1.15	1.12	1.11	1.55	1.32	1.22	1.14	1.05	1.02	1.0	1.0	1.0	-	-	-	-	1.48	1.31	1.20	1.13	1.51	1.88	2.26	3.21	2.96	2.40	2.07	
24:00	1.50	1.36	1.38	1.19	1.15	1.12	1.11	1.49	1.33	1.21	1.14	1.05	1.02	1.0	1.0	1.0	-	-	-	-	1.47	1.31	1.20	1.13	1.27	1.55	1.90	3.27	2.95	2.39	2.07	
Average	1.63	1.46	1.34	1.28	1.18	1.15	1.12	1.22	1.34	1.29	1.17	1.10	1.04	1.01	1.00	1.00	-	-	-	-	1.50	1.38	1.26	1.24	1.11	1.50	1.58	1.95	2.53	3.09	2.64	2.21

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (11/15)

Month: August, 1990

(Unit: m)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	2.07	1.96	1.94	1.91	1.74	1.60	1.48	1.40	1.40	1.36	1.35	1.36	1.40	1.31	1.32	1.58	1.50	1.73	2.00	2.00	2.00	2.00	2.00	2.00	2.46	2.47	2.18	4.45	4.00	3.35	2.82	2.72
2:00	2.06	1.96	1.94	1.90	1.73	1.60	1.48	1.39	1.40	1.36	1.35	1.36	1.40	1.31	1.33	1.58	1.50	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.55	2.46	2.17	4.59	3.97	3.35	2.81	2.71
3:00	2.05	1.96	1.94	1.89	1.72	1.59	1.47	1.39	1.40	1.36	1.35	1.36	1.39	1.31	1.35	1.58	1.58	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.68	2.44	2.16	4.62	3.94	3.34	2.79	2.69
4:00	2.05	1.97	1.93	1.89	1.72	1.59	1.47	1.39	1.40	1.36	1.35	1.37	1.39	1.31	1.37	1.58	1.59	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.74	2.43	2.15	4.82	3.91	3.33	2.79	2.69
5:00	2.04	1.96	1.92	1.88	1.71	1.59	1.47	1.39	1.40	1.36	1.35	1.37	1.39	1.31	1.38	1.58	1.59	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.80	2.73	2.42	5.00	3.87	3.31	2.79	2.66
6:00	2.03	1.95	1.92	1.88	1.71	1.58	1.47	1.39	1.40	1.36	1.35	1.37	1.38	1.31	1.39	1.58	1.58	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.68	2.41	2.13	5.06	3.83	3.27	2.81	2.66
7:00	2.02	1.94	1.92	1.88	1.70	1.58	1.47	1.39	1.40	1.37	1.35	1.38	1.38	1.31	1.41	1.58	1.58	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.65	2.41	2.12	5.17	3.78	3.24	2.82	2.65
8:00	2.01	1.93	1.92	1.88	1.70	1.58	1.47	1.40	1.40	1.38	1.35	1.38	1.38	1.31	1.42	1.57	1.83	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.59	2.40	2.11	5.26	3.75	3.21	2.81	2.65
9:00	2.00	1.93	1.92	1.87	1.69	1.58	1.46	1.40	1.40	1.38	1.35	1.39	1.37	1.31	1.43	1.57	1.79	1.74	2.00	2.00	2.00	2.00	2.00	2.00	2.56	2.38	2.09	5.32	3.74	3.19	2.79	2.68
10:00	1.99	1.92	1.92	1.86	1.69	1.58	1.45	1.40	1.40	1.38	1.35	1.39	1.37	1.31	1.43	1.57	1.75	1.74	2.00	2.00	2.00	2.00	2.00	1.94	2.53	2.37	2.09	5.31	3.71	3.16	2.76	2.69
11:00	1.98	1.90	1.92	1.86	1.68	1.58	1.45	1.40	1.40	1.38	1.37	1.40	1.37	1.31	1.45	1.57	1.69	1.77	2.00	2.00	2.00	2.00	2.00	1.93	2.51	2.35	2.07	5.26	3.71	3.13	2.75	2.68
12:00	1.97	1.90	1.92	1.85	1.68	1.58	1.45	1.40	1.40	1.38	1.35	1.40	1.37	1.31	1.46	1.57	1.69	1.77	2.00	2.00	2.00	2.00	2.00	1.93	2.50	2.34	2.06	5.18	3.68	3.10	2.75	2.68
13:00	1.96	1.89	1.92	1.84	1.68	1.57	1.45	1.40	1.40	1.38	1.35	1.41	1.37	1.31	1.48	1.56	1.67	1.78	2.00	2.00	2.00	2.00	2.00	1.93	2.49	2.32	2.05	5.06	3.65	3.07	2.76	2.64
14:00	1.95	1.89	1.92	1.83	1.68	1.57	1.45	1.40	1.40	1.38	1.35	1.41	1.37	1.31	1.49	1.57	1.65	1.80	2.00	2.00	2.00	2.00	2.00	1.93	2.48	2.31	2.09	4.95	3.63	3.05	2.74	2.62
15:00	1.94	1.89	1.92	1.83	1.67	1.56	1.46	1.40	1.40	1.38	1.35	1.41	1.36	1.31	1.51	1.57	1.63	1.82	2.00	2.00	2.00	2.00	2.00	1.93	2.47	2.31	2.16	4.83	3.60	3.03	2.74	2.60
16:00	1.92	1.89	1.91	1.82	1.67	1.55	1.45	1.41	1.39	1.38	1.35	1.41	1.35	1.31	1.53	1.57	1.62	1.84	2.00	2.00	2.00	2.00	2.00	1.93	2.47	2.29	2.22	4.71	3.57	3.00	2.74	2.59
17:00	1.91	1.90	1.94	1.81	1.66	1.54	1.45	1.41	1.38	1.37	1.36	1.42	1.34	1.31	1.55	1.57	1.63	1.86	2.00	2.00	2.00	2.00	2.00	2.00	2.45	2.27	2.35	4.61	3.54	2.99	2.74	2.57
18:00	1.90	1.91	1.97	1.80	1.65	1.53	1.45	1.41	1.38	1.37	1.36	1.42	1.33	1.31	1.56	1.57	1.63	1.88	2.00	2.00	2.00	2.00	2.00	2.07	2.45	2.26	2.69	4.52	3.56	2.99	2.73	2.55
19:00	1.89	1.92	1.98	1.78	1.64	1.52	1.44	1.41	1.37	1.36	1.36	1.42	1.33	1.31	1.56	1.57	1.64	1.90	2.00	2.00	2.00	2.00	2.00	2.16	2.45	2.24	3.15	4.43	3.49	2.98	2.73	2.53
20:00	1.89	1.93	1.98	1.77	1.64	1.52	1.43	1.41	1.37	1.36	1.36	1.41	1.33	1.31	1.57	1.57	1.67	1.93	2.00	2.00	2.00	2.00	2.00	2.19	2.45	2.23	3.14	4.33	3.47	2.96	2.75	2.56
21:00	1.89	1.93	1.98	1.70	1.63	1.51	1.43	1.41	1.37	1.36	1.36	1.41	1.33	1.31	1.57	1.55	1.68	2.00	2.00	2.00	2.00	2.00	2.00	2.25	2.47	2.21	3.60	4.26	3.44	2.93	2.78	2.51
22:00	1.91	1.93	1.96	1.76	1.62	1.51	1.42	1.41	1.37	1.35	1.36	1.41	1.32	1.31	1.58	1.53	1.70	2.00	2.00	2.00	2.00	2.00	2.00	2.36	2.48	2.20	3.73	4.18	3.41	2.89	2.78	2.49
23:00	1.94	1.93	1.94	1.76	1.61	1.50	1.41	1.40	1.37	1.35	1.36	1.41	1.32	1.31	1.58	1.52	1.71	2.00	2.00	2.00	2.00	2.00	2.00	2.43	2.48	2.19	3.86	4.12	3.38	2.86	2.77	2.50
24:00	1.95	1.94	1.92	1.74	1.61	1.49	1.40	1.40	1.36	1.35	1.36	1.41	1.32	1.31	1.58	1.51	1.73	2.00	2.00	2.00	2.00	2.00	2.00	2.45	2.47	2.19	4.09	4.05	3.36	2.84	2.75	2.50
Average	1.97	1.93	1.94	1.83	1.68	1.56	1.45	1.40	1.39	1.37	1.35	1.40	1.36	1.31	1.47	1.57	1.71	1.82	2.00	2.00	2.00	2.00	2.00	2.06	2.53	2.33	2.53	4.75	3.67	3.11	2.77	2.62

(Unit: m)

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (12/15)

Month: September, 1990

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1:00	2.50	4.83	3.87	3.09	2.52	2.27	2.43	4.55	3.96	3.05	2.55	2.22	2.01	1.87	1.83	2.16	1.91	1.76	1.86	1.85	1.71	1.62	1.61	2.00	1.93	1.77	1.69	2.12	1.94	2.20	
2:00	2.53	4.76	3.82	3.05	2.51	2.25	2.47	4.53	3.67	3.02	2.53	2.21	2.00	1.87	1.88	2.16	1.91	1.76	1.84	1.83	1.71	1.62	1.61	2.00	1.93	1.77	1.70	2.12	1.94	2.20	
3:00	2.60	4.66	3.75	3.01	2.50	2.25	2.47	4.51	3.66	3.00	2.52	2.21	2.00	1.88	1.92	2.14	1.91	1.76	1.82	1.81	1.71	1.62	1.61	2.00	1.93	1.77	1.74	2.12	1.95	2.20	
4:00	2.77	4.58	3.67	2.98	2.49	2.24	2.46	4.48	3.63	3.00	2.51	2.21	2.00	1.89	2.00	2.13	1.91	1.76	1.79	1.78	1.71	1.62	1.61	2.00	1.93	1.77	1.76	2.11	1.95	2.19	
5:00	3.02	4.50	3.59	2.97	2.48	2.23	2.45	4.48	3.60	2.99	2.50	2.20	2.00	1.89	2.10	2.12	1.89	1.76	1.77	1.77	1.71	1.62	1.61	2.00	1.92	1.77	1.75	2.09	1.96	2.17	
6:00	3.20	4.43	3.52	2.96	2.47	2.22	2.44	4.46	3.56	2.96	2.49	2.19	2.00	1.90	2.18	2.12	1.89	1.76	1.75	1.75	1.71	1.62	1.61	1.98	1.92	1.76	1.74	2.07	1.96	2.16	
7:00	3.36	4.36	3.46	2.95	2.46	2.22	2.45	4.40	3.53	2.96	2.47	2.18	2.00	1.89	2.25	2.11	1.88	1.76	1.73	1.74	1.71	1.62	1.61	1.95	1.92	1.76	1.73	2.05	1.97	2.14	
8:00	3.56	4.31	3.42	2.92	2.45	2.21	2.50	4.34	3.50	2.94	2.46	2.17	1.99	1.88	2.28	2.10	1.88	1.76	1.72	1.72	1.71	1.62	1.61	1.95	1.92	1.76	1.72	2.03	1.97	2.12	
9:00	3.79	4.24	3.38	2.89	2.44	2.20	2.55	4.26	3.48	2.92	2.45	2.16	1.98	1.87	2.28	2.09	1.88	1.75	1.72	1.72	1.71	1.62	1.61	1.94	1.91	1.75	1.70	2.02	1.97	2.10	
10:00	4.00	4.19	3.34	2.86	2.43	2.19	2.65	4.18	3.44	2.91	2.43	2.15	1.98	1.86	2.28	2.07	1.87	1.75	1.71	1.71	1.71	1.62	1.61	1.94	1.90	1.75	1.70	2.00	1.97	2.08	
11:00	4.19	4.13	3.31	2.84	2.42	2.20	2.88	4.11	3.41	2.90	2.42	2.15	1.98	1.86	2.29	2.06	1.87	1.75	1.70	1.71	1.71	1.63	1.61	1.94	1.90	1.75	1.69	1.98	1.98	2.07	
12:00	4.37	4.07	3.27	2.82	2.41	2.20	3.23	4.05	3.37	2.88	2.39	2.16	1.97	1.85	2.30	2.05	1.85	1.74	1.70	1.71	1.70	1.62	1.61	1.94	1.89	1.75	1.69	1.98	1.98	2.06	
13:00	4.54	4.00	3.23	2.80	2.39	2.20	3.57	4.00	3.33	2.82	2.38	2.12	1.96	1.84	2.31	2.04	1.85	1.73	1.70	1.71	1.70	1.62	1.61	1.94	1.88	1.74	1.68	1.97	1.99	2.04	
14:00	4.64	3.96	3.21	2.77	2.38	2.20	3.90	3.96	3.30	2.80	2.37	2.10	1.95	1.83	2.31	2.02	1.84	1.72	1.69	1.70	1.69	1.62	1.61	1.94	1.86	1.73	1.68	1.95	1.99	2.02	
15:00	4.77	3.90	3.19	2.75	2.35	2.22	4.14	3.93	3.28	2.76	2.35	2.09	1.94	1.82	2.30	2.01	1.82	1.71	1.69	1.69	1.68	1.62	1.61	1.93	1.85	1.73	1.67	1.94	1.99	2.00	
16:00	4.91	3.84	3.17	2.72	2.34	2.24	4.32	3.91	3.25	2.73	2.33	2.07	1.93	1.82	2.29	2.00	1.81	1.70	1.68	1.67	1.67	1.62	1.59	1.93	1.83	1.73	1.66	1.92	1.98	2.02	
17:00	5.00	3.78	3.16	2.70	2.33	2.27	4.42	3.90	3.23	2.70	2.30	2.06	1.93	1.81	2.29	2.00	1.80	1.68	1.67	1.67	1.67	1.62	1.58	1.93	1.82	1.72	1.67	1.91	1.98	2.01	
18:00	5.80	3.74	3.16	2.68	2.32	2.29	4.48	3.90	3.21	2.67	2.28	2.06	1.92	1.81	2.30	1.98	1.79	1.67	1.66	1.69	1.66	1.62	1.58	1.93	1.80	1.72	1.74	1.90	1.98	2.00	
19:00	5.14	3.71	3.17	2.65	2.31	2.30	4.52	3.88	3.20	2.66	2.27	2.05	1.90	1.80	2.29	1.96	1.78	1.67	1.66	1.68	1.65	1.61	1.60	1.93	1.79	1.72	1.72	1.90	2.00	1.99	
20:00	5.14	3.73	3.19	2.63	2.31	2.30	4.55	3.84	3.19	2.63	2.26	2.04	1.90	1.79	2.27	1.95	1.77	1.66	1.66	1.67	1.64	1.61	1.64	1.94	1.77	1.71	1.75	1.90	2.00	2.00	
21:00	5.12	3.78	3.20	2.60	2.30	2.30	4.54	3.81	3.17	2.62	2.25	2.03	1.90	1.79	2.27	1.95	1.77	1.65	1.66	1.67	1.64	1.61	1.64	1.94	1.77	1.71	1.91	1.90	2.08	2.06	
22:00	5.06	3.85	3.18	2.57	2.30	2.30	4.52	3.76	3.14	2.60	2.24	2.02	1.89	1.79	2.21	1.93	1.77	1.65	1.66	1.69	1.63	1.61	1.67	1.94	1.77	1.70	2.00	1.92	2.13	2.09	
23:00	5.00	3.87	3.16	2.56	2.29	2.30	4.50	3.74	3.13	2.58	2.23	2.01	1.88	1.80	2.19	1.92	1.76	1.76	1.76	1.76	1.70	1.62	1.61	1.80	1.94	1.77	1.70	2.07	1.93	2.17	
24:00	4.92	3.87	3.12	2.54	2.28	2.34	4.53	3.71	3.09	2.57	2.22	2.01	1.88	1.82	2.18	1.91	1.76	1.85	1.85	1.71	1.62	1.61	2.00	1.94	1.77	1.70	2.10	1.94	2.20	2.07	
Average	4.16	4.13	3.96	2.80	2.40	2.25	3.46	4.11	3.39	2.82	2.40	2.12	1.95	1.84	2.22	2.04	1.84	1.73	1.73	1.72	1.68	1.62	1.62	1.64	1.95	1.86	1.74	1.76	1.95	2.00	2.09

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (13/15)

Month: October, 1990

(Unit: m3/sec.)

Time	Day																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1:00	2.06	1.81	1.69	1.61	1.54	1.51	1.43	1.42	1.42	1.41	1.41	1.44	1.48	1.53	1.55	1.71	1.51	1.64	1.62	1.50	1.87	1.64	1.55	1.44	1.37	1.30	1.28	1.27	1.27	1.27	1.27	1.27
2:00	2.04	1.81	1.69	1.61	1.53	1.51	1.43	1.42	1.41	1.41	1.41	1.44	1.48	1.53	1.55	1.71	1.51	1.64	1.62	1.50	1.87	1.63	1.56	1.43	1.37	1.31	1.28	1.27	1.27	1.27	1.27	1.27
3:00	2.02	1.81	1.69	1.61	1.53	1.50	1.42	1.42	1.41	1.41	1.41	1.44	1.48	1.53	1.55	1.71	1.51	1.64	1.62	1.51	1.86	1.62	1.56	1.42	1.36	1.31	1.28	1.27	1.27	1.27	1.27	1.27
4:00	2.00	1.81	1.69	1.61	1.53	1.50	1.42	1.42	1.41	1.41	1.41	1.44	1.48	1.53	1.55	1.69	1.51	1.64	1.61	1.51	1.83	1.62	1.56	1.42	1.36	1.31	1.28	1.27	1.27	1.27	1.27	1.27
5:00	1.99	1.79	1.69	1.61	1.53	1.49	1.42	1.42	1.41	1.41	1.41	1.45	1.49	1.53	1.54	1.68	1.51	1.64	1.61	1.51	1.81	1.61	1.56	1.41	1.36	1.31	1.28	1.27	1.27	1.27	1.27	1.27
6:00	1.98	1.78	1.68	1.61	1.53	1.49	1.42	1.42	1.41	1.41	1.41	1.45	1.49	1.53	1.54	1.66	1.51	1.64	1.61	1.51	1.79	1.60	1.56	1.41	1.35	1.31	1.28	1.27	1.27	1.27	1.27	1.27
7:00	1.98	1.77	1.68	1.61	1.53	1.48	1.42	1.42	1.41	1.41	1.41	1.45	1.49	1.53	1.54	1.65	1.51	1.64	1.61	1.51	1.77	1.60	1.55	1.40	1.35	1.31	1.28	1.27	1.27	1.27	1.27	1.27
8:00	1.97	1.76	1.68	1.61	1.53	1.48	1.42	1.42	1.41	1.41	1.41	1.46	1.50	1.53	1.53	1.65	1.51	1.64	1.60	1.51	1.75	1.60	1.55	1.40	1.35	1.31	1.28	1.27	1.27	1.27	1.27	1.27
9:00	1.95	1.76	1.68	1.61	1.53	1.48	1.42	1.42	1.41	1.41	1.41	1.46	1.50	1.53	1.53	1.64	1.51	1.64	1.60	1.51	1.73	1.59	1.54	1.39	1.35	1.30	1.28	1.27	1.27	1.27	1.27	1.27
10:00	1.94	1.75	1.68	1.61	1.53	1.48	1.42	1.42	1.41	1.41	1.41	1.46	1.51	1.54	1.53	1.64	1.51	1.64	1.58	1.51	1.72	1.59	1.53	1.39	1.35	1.30	1.28	1.27	1.27	1.27	1.27	1.27
11:00	1.93	1.74	1.68	1.60	1.53	1.47	1.42	1.42	1.42	1.41	1.41	1.46	1.51	1.54	1.53	1.64	1.58	1.64	1.56	1.51	1.71	1.58	1.52	1.39	1.35	1.30	1.28	1.27	1.27	1.27	1.27	1.27
12:00	1.93	1.73	1.67	1.60	1.53	1.47	1.42	1.42	1.42	1.41	1.42	1.46	1.51	1.54	1.53	1.63	1.59	1.64	1.55	1.51	1.70	1.57	1.52	1.38	1.35	1.30	1.29	1.27	1.27	1.27	1.27	1.27
13:00	1.92	1.73	1.67	1.60	1.53	1.47	1.42	1.42	1.42	1.41	1.42	1.47	1.51	1.54	1.53	1.62	1.60	1.65	1.55	1.51	1.70	1.56	1.51	1.38	1.35	1.30	1.29	1.27	1.27	1.27	1.27	1.27
14:00	1.91	1.72	1.67	1.60	1.53	1.47	1.42	1.42	1.42	1.41	1.42	1.47	1.51	1.54	1.53	1.62	1.60	1.65	1.55	1.51	1.69	1.55	1.50	1.38	1.35	1.30	1.29	1.27	1.27	1.27	1.27	1.27
15:00	1.90	1.72	1.66	1.59	1.53	1.47	1.42	1.42	1.42	1.41	1.42	1.47	1.52	1.54	1.53	1.62	1.60	1.65	1.55	1.51	1.69	1.55	1.50	1.38	1.33	1.30	1.29	1.27	1.27	1.27	1.27	1.27
16:00	1.88	1.72	1.65	1.59	1.53	1.47	1.42	1.42	1.42	1.41	1.43	1.48	1.52	1.54	1.52	1.62	1.61	1.65	1.55	1.53	1.69	1.55	1.50	1.38	1.33	1.30	1.29	1.27	1.27	1.27	1.27	1.27
17:00	1.86	1.72	1.65	1.59	1.53	1.47	1.42	1.42	1.42	1.41	1.43	1.48	1.52	1.54	1.52	1.62	1.62	1.65	1.54	1.53	1.67	1.54	1.49	1.38	1.32	1.29	1.29	1.27	1.27	1.27	1.27	1.27
18:00	1.85	1.72	1.64	1.58	1.53	1.46	1.42	1.42	1.42	1.41	1.43	1.48	1.52	1.53	1.55	1.51	1.61	1.62	1.65	1.53	1.52	1.66	1.54	1.49	1.38	1.31	1.29	1.29	1.27	1.27	1.27	1.27
19:00	1.83	1.72	1.63	1.58	1.53	1.46	1.42	1.42	1.42	1.41	1.43	1.48	1.53	1.53	1.55	1.51	1.60	1.63	1.65	1.53	1.51	1.66	1.54	1.48	1.38	1.30	1.29	1.29	1.27	1.27	1.27	1.27
20:00	1.82	1.72	1.62	1.56	1.52	1.45	1.42	1.42	1.42	1.41	1.43	1.48	1.53	1.53	1.55	1.51	1.60	1.64	1.65	1.52	1.51	1.66	1.54	1.47	1.38	1.29	1.28	1.27	1.27	1.27	1.27	1.27
21:00	1.81	1.72	1.61	1.56	1.52	1.44	1.42	1.42	1.42	1.41	1.43	1.48	1.53	1.53	1.55	1.50	1.60	1.64	1.63	1.52	1.51	1.65	1.54	1.47	1.38	1.29	1.28	1.27	1.27	1.27	1.27	1.26
22:00	1.80	1.71	1.61	1.55	1.51	1.44	1.42	1.42	1.42	1.41	1.43	1.48	1.53	1.53	1.55	1.50	1.59	1.64	1.63	1.51	1.52	1.65	1.54	1.46	1.37	1.28	1.28	1.27	1.27	1.27	1.27	1.26
23:00	1.79	1.71	1.61	1.54	1.51	1.43	1.42	1.42	1.42	1.41	1.44	1.48	1.53	1.53	1.55	1.60	1.58	1.64	1.63	1.50	1.57	1.65	1.54	1.45	1.37	1.28	1.28	1.27	1.27	1.27	1.27	1.26
24:00	1.79	1.70	1.61	1.54	1.51	1.43	1.42	1.42	1.42	1.41	1.44	1.48	1.53	1.53	1.55	1.68	1.57	1.64	1.62	1.50	1.78	1.64	1.54	1.45	1.37	1.29	1.28	1.27	1.27	1.27	1.27	1.26
Average	1.91	1.75	1.66	1.59	1.53	1.47	1.42	1.42	1.41	1.41	1.42	1.46	1.51	1.54	1.54	1.64	1.57	1.64	1.57	1.53	1.73	1.58	1.52	1.39	1.33	1.30	1.28	1.27	1.27	1.27	1.27	1.27



TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (14/15)

Month: November, 1990

(Unit: m)

Time	Day																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1:00	1.26	1.26	1.23	1.23	1.28	1.22	1.25	1.24	1.27	1.25	1.41	1.37	1.31	1.32	1.33	1.26	1.28	1.31	1.28	1.23	1.23	1.22	1.21	1.22	1.26	1.28	1.26	1.25	1.30	1.27
2:00	1.26	1.26	1.23	1.23	1.28	1.22	1.25	1.24	1.27	1.25	1.41	1.37	1.31	1.32	1.33	1.26	1.28	1.31	1.28	1.23	1.23	1.22	1.20	1.22	1.26	1.28	1.26	1.25	1.30	1.27
3:00	1.26	1.26	1.23	1.23	1.27	1.22	1.25	1.24	1.27	1.25	1.41	1.37	1.31	1.32	1.33	1.26	1.28	1.31	1.28	1.23	1.23	1.22	1.20	1.22	1.27	1.28	1.26	1.25	1.30	1.27
4:00	1.26	1.26	1.23	1.23	1.27	1.22	1.25	1.24	1.27	1.25	1.41	1.36	1.31	1.32	1.33	1.26	1.28	1.31	1.28	1.23	1.23	1.22	1.20	1.22	1.27	1.28	1.26	1.25	1.30	1.27
5:00	1.26	1.26	1.23	1.23	1.27	1.22	1.25	1.24	1.27	1.25	1.41	1.36	1.30	1.32	1.33	1.26	1.29	1.31	1.28	1.23	1.23	1.22	1.20	1.23	1.27	1.28	1.26	1.25	1.30	1.26
6:00	1.26	1.26	1.23	1.23	1.26	1.22	1.25	1.24	1.27	1.25	1.41	1.35	1.30	1.32	1.32	1.26	1.29	1.31	1.28	1.23	1.23	1.22	1.20	1.23	1.27	1.28	1.26	1.25	1.30	1.26
7:00	1.26	1.26	1.23	1.24	1.26	1.23	1.25	1.24	1.27	1.25	1.41	1.35	1.30	1.32	1.32	1.26	1.29	1.31	1.28	1.23	1.23	1.22	1.20	1.24	1.28	1.27	1.26	1.25	1.29	1.26
8:00	1.26	1.26	1.23	1.24	1.25	1.24	1.25	1.24	1.27	1.25	1.41	1.34	1.30	1.32	1.32	1.26	1.30	1.31	1.28	1.23	1.23	1.22	1.20	1.24	1.28	1.27	1.26	1.25	1.29	1.26
9:00	1.26	1.26	1.23	1.24	1.25	1.24	1.25	1.24	1.27	1.25	1.41	1.34	1.30	1.32	1.32	1.26	1.30	1.31	1.28	1.23	1.23	1.22	1.20	1.24	1.28	1.27	1.26	1.25	1.29	1.26
10:00	1.26	1.26	1.23	1.24	1.25	1.24	1.25	1.24	1.27	1.25	1.41	1.33	1.30	1.32	1.32	1.26	1.30	1.30	1.27	1.23	1.22	1.20	1.24	1.28	1.27	1.26	1.25	1.29	1.29	1.26
11:00	1.26	1.26	1.23	1.25	1.25	1.25	1.24	1.25	1.27	1.26	1.41	1.33	1.29	1.32	1.32	1.26	1.30	1.30	1.27	1.23	1.22	1.20	1.24	1.28	1.27	1.26	1.25	1.29	1.29	1.26
12:00	1.26	1.26	1.23	1.25	1.25	1.25	1.24	1.25	1.27	1.27	1.41	1.33	1.29	1.32	1.32	1.26	1.31	1.30	1.27	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
13:00	1.26	1.26	1.22	1.25	1.25	1.25	1.24	1.25	1.27	1.27	1.41	1.33	1.29	1.32	1.32	1.26	1.31	1.30	1.27	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
14:00	1.26	1.26	1.22	1.27	1.26	1.25	1.24	1.25	1.27	1.29	1.41	1.33	1.29	1.32	1.32	1.26	1.31	1.29	1.27	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
15:00	1.26	1.26	1.22	1.27	1.26	1.25	1.23	1.25	1.27	1.30	1.41	1.33	1.29	1.32	1.32	1.26	1.31	1.29	1.27	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
16:00	1.26	1.26	1.22	1.28	1.24	1.25	1.23	1.25	1.27	1.33	1.41	1.33	1.29	1.32	1.31	1.26	1.31	1.29	1.27	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
17:00	1.26	1.25	1.22	1.28	1.24	1.25	1.23	1.26	1.26	1.35	1.41	1.33	1.29	1.33	1.31	1.26	1.31	1.29	1.26	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
18:00	1.26	1.25	1.22	1.29	1.23	1.25	1.23	1.27	1.26	1.36	1.41	1.33	1.29	1.33	1.30	1.26	1.31	1.29	1.25	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
19:00	1.26	1.24	1.22	1.29	1.23	1.25	1.23	1.27	1.25	1.38	1.40	1.32	1.29	1.33	1.28	1.26	1.31	1.29	1.24	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
20:00	1.26	1.24	1.22	1.29	1.23	1.25	1.23	1.27	1.25	1.39	1.40	1.32	1.29	1.33	1.27	1.26	1.31	1.29	1.23	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
21:00	1.26	1.23	1.22	1.29	1.22	1.25	1.24	1.27	1.25	1.40	1.40	1.32	1.30	1.33	1.26	1.26	1.31	1.29	1.23	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
22:00	1.26	1.23	1.22	1.29	1.22	1.25	1.24	1.27	1.25	1.40	1.39	1.32	1.31	1.33	1.26	1.27	1.31	1.29	1.23	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
23:00	1.26	1.23	1.22	1.28	1.22	1.25	1.24	1.27	1.25	1.41	1.38	1.31	1.32	1.33	1.26	1.27	1.31	1.29	1.23	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
24:00	1.26	1.23	1.22	1.28	1.22	1.25	1.24	1.27	1.25	1.41	1.38	1.31	1.32	1.33	1.26	1.28	1.31	1.28	1.23	1.23	1.22	1.20	1.25	1.28	1.27	1.26	1.25	1.29	1.28	1.26
Average	1.26	1.26	1.24	1.24	1.25	1.24	1.24	1.25	1.26	1.29	1.36	1.37	1.32	1.31	1.31	1.28	1.28	1.30	1.28	1.25	1.23	1.22	1.21	1.23	1.26	1.27	1.26	1.27	1.28	1.27

TABLE 5 HOURLY WATER LEVEL RECORD AT SINOCALAN (15/15)

Month: December, 1990

(Unit: m)

Time	Day																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1:00	1.24	1.27	1.23	1.23	1.23	1.21	1.23	1.24	1.19	1.19	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
2:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.19	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
3:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.19	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
4:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.19	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
5:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.21	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
6:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.21	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
7:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.21	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
8:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.19	1.21	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
9:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.19	1.22	1.23	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
10:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.24	1.18	1.22	1.22	1.22	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
11:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.22	1.22	1.21	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
12:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.22	1.22	1.21	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
13:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.22	1.22	1.21	1.18	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
14:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.22	1.22	1.20	1.18	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
15:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.23	1.22	1.20	1.18	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
16:00	1.23	1.27	1.23	1.23	1.23	1.21	1.24	1.23	1.18	1.23	1.21	1.19	1.18	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.11	1.16	1.16	1.14	-	-	-	-	-
17:00	1.23	1.26	1.23	1.22	1.21	1.24	1.23	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.11	1.14	1.16	1.14	-	-	-	-	-	-
18:00	1.23	1.25	1.23	1.22	1.21	1.24	1.23	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.14	1.11	1.14	1.16	1.14	-	-	-	-	-	-
19:00	1.23	1.24	1.23	1.22	1.21	1.20	1.24	1.23	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.15	1.14	1.14	1.12	1.11	1.14	1.16	1.14	-	-	-	-	-	-
20:00	1.26	1.23	1.23	1.21	1.20	1.24	1.23	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.12	1.11	1.14	1.16	1.14	-	-	-	-	-	-
21:00	1.27	1.23	1.23	1.21	1.20	1.24	1.23	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.11	1.11	1.14	1.16	1.14	-	-	-	-	-	-
22:00	1.27	1.23	1.23	1.21	1.20	1.24	1.24	1.19	1.18	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.11	1.11	1.14	1.16	1.14	-	-	-	-	-	-
23:00	1.27	1.23	1.23	1.21	1.21	1.24	1.24	1.19	1.19	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.11	1.11	1.14	1.16	1.14	-	-	-	-	-	-
24:00	1.27	1.23	1.23	1.21	1.22	1.24	1.24	1.19	1.19	1.23	1.21	1.19	1.18	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.11	1.11	1.14	1.16	1.14	-	-	-	-	-	-
Average	1.24	1.26	1.23	1.22	1.21	1.24	1.24	1.21	1.18	1.22	1.22	1.21	1.18	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.11	1.12	1.16	1.15	1.14	-	-	-	-	-