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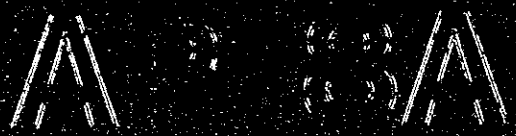
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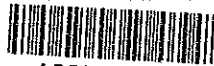


THE PEOPLE'S REPUBLIC OF BANGLADESH  
FLOOD PLAN COORDINATION ORGANIZATION

MASTER PLAN  
FOR  
GREATER DHAKA PROTECTION PROJECT  
(STUDY IN DHAKA METROPOLITAN AREA)  
OF  
BANGLADESH FLOOD ACTION PLAN NO.8A

FAP 8A

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DATA BOOK I  
HYDROLOGY

23920

NOVEMBER 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



国際協力事業団

23920

**DATA BOOK I: Hydrology**  
**(Supporting Report D)**



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## 1. Monthly Rainfall in and around the study Area



MONTHLY AND ANNUAL RAINFALL														
STATION : DHAKA (B.M.D.)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1953	10	2	90	90	274	333	392	326	352	52	13	0	1934
2	1954	14	0	86	86	211	810	320	433	167	218	0	10	2269
3	1955	0	0	54	54	201	254	502	247	149	71	99	0	1577
4	1956	12	5	189	135	69	433	690	489	286	121	53	13	2495
5	1957	68	69	117	117	114	487	385	125	144	29	0	0	1554
6	1958	0	95	64	64	200	161	184	267	91	191	0	0	1258
7	1959	15	4	78	78	254	368	230	413	445	568	0	0	2453
8	1960	0	16	19	19	358	304	655	189	231	38	24	0	1834
9	1961	1	12	20	20	219	856	296	288	221	52	0	0	2170
10	1962	0	15	6	166	205	191	355	273	395	180	0	0	1786
11	1963	0	0	51	98	219	621	404	186	200	182	7	3	1971
12	1964	9	42	18	284	236	354	629	155	269	283	41	0	2320
13	1965	0	28	22	55	305	442	304	480	300	60	131	0	2127
14	1966	0	0	34	34	127	270	291	306	496	261	14	15	1814
15	1967	23	12	169	185	216	241	363	504	266	74	1	0	2053
16	1968	0	5	121	27	194	590	480	290	128	69	74	0	1978
17	1969	0	1	65	86	95	249	198	540	201	103	2	0	1540
18	1970	16	8	23	45	192	276	496	280	200	427	32	0	1995
19	1971	3	28	0	0	344	339	550	540	259	118	95	0	2276
20	1972	0	11	12	248	340	353	249	380	110	105	0	0	1808
21	1973	0	21	32	131	621	414	444	238	348	128	64	86	2527
22	1974	-	-	-	-	-	-	-	-	-	-	-	-	-
23	1975	1	29	13	98	317	235	559	307	329	232	25	0	2145
24	1976	0	7	117	34	459	627	346	361	165	114	8	0	2238
25	1977	0	66	71	255	381	252	306	92	131	273	10	24	1861
26	1978	0	20	18	194	454	529	320	426	192	98	0	0	2251
27	1979	3	13	6	17	114	258	267	525	382	146	55	51	1837
28	1980	3	32	54	147	414	323	380	269	296	300	0	0	2218
29	1981	10	42	108	292	411	325	356	187	320	82	9	35	2177
30	1982	0	15	81	104	154	514	140	343	258	146	51	0	1806
31	1983	0	63	138	318	348	298	181	408	322	253	0	0	2329
32	1984	13	1	7	124	708	635	891	311	478	58	0	0	3226
33	1985	8	1	195	176	300	399	262	317	306	79	0	10	2053
34	1986	6	0	23	231	119	308	450	171	687	237	172	3	2407
35	1987	4	0	33	230	109	316	526	462	363	104	7	33	2187
36	1988	0	44	74	282	513	580	255	169	196	213	153	3	2482
37	1989	0	32	85	228	228	319	347	59	305	240	0	12	1627
38	1990	0	36	151	154	202	230	-	-	-	-	-	-	-
AVERAGE		6	21	55	134	276	392	399	315	277	164	32	8	2072

MONTHLY AND ANNUAL RAINFALL														
STATION : NARAYANGANJ (B.M.D.)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1948	0	94	82	103	54	306	-	95	197	92	18	0	-
2	1949	0	0	146	414	346	196	274	356	184	182	0	0	2098
3	1950	5	34	0	0	12	425	266	711	108	79	174	0	1814
4	1951	0	0	40	270	202	484	413	318	255	309	1	0	2292
5	1952	0	0	16	199	209	438	341	207	352	154	51	0	1967
6	1953	6	0	99	109	300	384	552	-	-	-	-	-	-
7	1954	-	-	-	-	-	-	-	-	-	-	-	-	-
8	1955	0	0	53	131	275	235	340	89	193	61	87	0	1464
9	1956	0	6	121	295	155	387	387	238	205	111	37	0	1942
10	1957	95	48	10	186	71	415	298	89	146	61	0	0	1412
11	1958	0	50	7	59	311	115	241	374	233	196	0	0	1586
12	1959	30	23	55	153	257	354	275	392	378	605	0	0	2522
13	1960	0	0	37	43	204	288	533	334	230	113	39	0	1821
14	1961	192	11	48	80	468	489	434	359	201	98	0	0	2380
15	1962	0	12	11	165	236	290	298	280	294	219	0	0	1805
16	1963	0	0	350	118	304	418	297	161	95	261	16	3	2023
17	1964	0	0	0	267	298	123	220	177	329	451	12	0	1877
18	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1966	9	0	19	55	62	357	262	227	479	183	20	17	1690
20	1967	79	0	188	143	193	161	325	498	525	43	0	0	2155
21	1968	0	0	45	24	196	502	329	251	66	36	89	0	1538
22	1969	0	2	100	138	223	374	234	428	205	314	0	0	2018
23	1970	0	0	0	132	223	285	270	278	216	284	48	0	1736
24	1971	4	15	15	15	15	312	388	644	330	79	112	0	1929
25	1972	0	23	1	185	123	338	200	356	356	63	0	0	1645
26	1973	0	0	17	172	521	429	499	213	512	146	82	131	2722
27	1974	0	0	105	101	259	239	634	378	-	104	0	0	-
28	1975	0	31	0	78	180	241	627	222	278	333	25	0	2015
29	1976	0	0	104	16	199	542	459	425	133	71	8	0	1957
30	1977	7	24	101	444	409	539	342	340	303	147	16	10	2682
31	1978	-	-	-	-	-	-	-	-	-	-	-	-	-
32	1979	0	15	40	42	93	258	-	-	-	-	-	-	-
AVERAGE		15	13	62	143	221	342	361	301	243	171	30	6	1818

Notes: (1) AVERAGE is that of all available data.

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 9 DHAKA (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	(Unit: mm) ANNUAL
1	1957	-	-	-	118	61	297	349	109	138	23	0	2	-
2	1958	3	-	4	34	119	90	173	280	43	155	2	3	-
3	1959	61	21	91	18	119	270	239	337	412	544	0	0	2113
4	1960	0	0	14	70	283	245	489	196	208	42	8	0	1555
5	1961	12	47	52	71	426	495	258	388	132	120	0	0	2000
6	1962	11	16	7	137	232	175	357	282	430	182	0	0	1828
7	1963	1	0	29	71	233	678	330	194	162	201	6	2	1908
8	1964	13	51	21	340	254	334	673	170	224	285	70	0	2435
9	1965	0	14	28	61	334	442	331	436	301	30	124	1	2101
10	1966	12	0	7	34	143	354	327	277	607	223	17	17	2018
11	1967	-	-	-	104	181	208	335	476	248	55	0	1	-
12	1968	0	0	95	64	200	449	433	266	83	64	76	0	1731
13	1969	0	1	84	90	90	255	281	494	155	79	28	0	1556
14	1970	15	8	38	47	180	287	414	236	190	418	38	0	1869
15	1971	0	23	0	176	367	310	479	485	262	107	86	0	2294
16	1972	0	0	12	260	323	469	253	294	76	138	0	0	1825
17	1973	0	16	0	134	618	271	241	237	399	121	65	91	2192
18	1974	0	0	43	141	148	247	604	391	235	145	29	0	1952
19	1975	1	29	15	91	241	283	625	231	268	317	29	0	2130
20	1976	0	5	95	17	378	649	330	386	148	109	7	0	2123
21	1977	0	66	74	296	593	301	263	90	121	301	35	26	2165
22	1978	0	10	22	171	521	583	337	452	185	74	0	0	2356
23	1979	3	19	37	61	79	256	365	437	383	146	5	51	1841
24	1980	0	31	51	143	411	330	394	234	290	299	0	0	2183
25	1981	8	34	94	274	188	154	235	197	320	82	9	35	1630
26	1982	0	15	81	104	154	514	136	346	258	84	51	0	1743
27	1983	18	25	219	318	348	299	179	434	322	253	0	18	2433
28	1984	13	1	7	124	707	637	694	311	477	57	0	0	3028
29	1985	8	1	195	176	300	399	262	338	306	79	0	1	2065
30	1986	6	0	23	231	191	308	450	171	687	237	172	3	2479
31	1987	3	0	33	230	109	316	526	462	363	104	7	33	2186
32	1988	0	44	74	282	517	579	255	169	196	253	153	3	2525
33	1989	0	32	0	85	224	318	347	59	305	240	0	12	1622
34	1990	0	36	151	-	-	-	-	-	-	-	-	-	-
AVERAGE		6	18	53	139	281	358	363	299	271	169	30	9	2063

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 17 JOYDEPRUR (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
		(Unit: mm)												
1	1961	-	-	-	93.0	439.1	463.9	220.8	257.8	169.8	119.5	0.0	0.0	-
2	1962	0.0	15.0	4.1	122.4	343.1	393.3	388.0	200.0	301.6	155.6	0.0	0.0	2913.1
3	1963	0.0	0.0	13.2	154.4	261.1	355.3	297.4	287.1	108.4	113.2	17.3	0.0	1607.4
4	1964	0.0	12.7	15.3	239.4	317.6	232.7	512.1	233.8	225.3	431.7	7.6	0.0	2228.2
5	1965	0.0	0.5	0.0	19.0	264.1	591.9	326.8	490.1	139.2	22.9	8.9	1.3	1864.7
6	1966	3.8	0.0	2.5	60.2	85.0	437.0	337.7	490.3	406.2	244.0	48.3	11.4	2126.4
7	1967	21.6	0.0	128.9	120.2	262.8	307.4	317.6	550.0	200.7	73.7	0.0	0.5	1983.4
8	1968	0.0	1.0	50.0	106.1	213.9	565.1	378.2	342.4	164.3	37.0	19.8	0.0	1877.8
9	1969	0.0	0.0	85.1	205.2	112.5	364.4	378.7	498.2	281.0	85.1	39.3	0.0	2049.5
10	1970	7.3	1.5	8.9	72.9	138.0	222.3	381.3	283.8	113.8	438.6	10.7	0.0	1679.1
11	1971	0.0	0.0	0.0	23.9	273.0	349.9	347.7	628.7	269.1	73.4	96.4	0.0	2062.1
12	1972	0.0	12.7	4.3	156.3	118.7	220.4	178.0	273.9	162.7	64.8	0.0	0.0	1191.8
13	1973	8.1	116.1	18.5	200.8	361.4	535.5	524.0	423.3	307.2	137.4	35.3	71.1	2738.7
14	1974	0.0	0.0	89.9	172.6	240.2	248.9	593.2	248.5	367.2	129.6	0.0	0.0	2090.1
15	1975	0.0	0.5	21.6	101.6	256.6	229.1	633.7	211.8	238.7	349.6	2.5	0.0	2045.7
16	1976	0.0	2.5	57.7	63.5	191.3	486.9	332.7	334.2	152.4	50.8	5.1	0.0	1677.1
17	1977	0.0	36.5	42.9	252.9	382.7	341.2	385.1	239.5	96.9	113.0	69.9	36.0	1996.6
18	1978	0.0	16.0	43.5	162.7	577.1	788.3	518.8	197.8	258.0	14.7	0.0	0.0	2576.9
19	1979	0.0	32.2	64.8	68.6	50.8	641.3	386.2	634.6	684.6	139.7	30.5	27.9	2761.2
20	1980	0.0	0.0	22.1	150.6	411.4	312.9	361.5	265.7	225.0	300.4	0.0	0.0	2049.6
21	1981	0.0	73.3	58.8	432.4	252.3	193.6	478.9	484.6	165.8	0.0	0.0	38.6	2178.3
22	1982	0.0	0.0	157.9	235.2	192.1	494.3	346.7	484.9	396.9	25.2	32.0	0.0	2365.2
23	1983	10.7	58.2	176.7	157.0	347.6	334.8	227.5	638.6	453.1	428.5	0.0	18.8	2851.5
24	1984	0.0	0.0	18.0	84.6	559.0	536.6	443.0	313.2	483.6	185.9	0.0	0.0	2623.9
25	1985	0.0	0.0	48.2	62.8	249.9	529.5	157.3	174.9	246.1	113.0	0.0	0.0	1581.7
26	1986	2.8	9.9	19.8	192.2	240.5	343.6	346.8	342.7	497.7	410.7	136.9	3.0	2546.6
27	1987	0.0	0.0	74.4	137.9	131.2	316.9	743.9	371.0	351.6	113.7	21.8	0.0	2262.4
28	1988	0.0	74.5	49.3	96.6	715.8	530.1	439.3	239.8	194.6	265.5	121.7	0.0	2727.2
29	1989	0.0	10.7	0.0	66.3	94.1	266.7	481.4	107.5	182.8	250.6	0.0	10.2	1470.3
30	1990	0.0	32.3	196.0	-	-	-	-	-	-	-	-	-	-
AVERAGE		1.9	17.5	50.8	138.3	278.7	401.2	395.3	353.4	273.6	168.5	24.3	7.5	2115.2

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 31 SAVAR (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1962	-	-	-	107.9	228.2	235.7	410.2	122.3	370.9	107.2	0.0	0.0	-
2	1963	0.0	0.0	10.2	86.7	-	-	423.2	300.0	161.4	157.9	9.4	0.0	-
3	1964	0.0	24.6	39.5	279.5	167.5	251.9	553.9	207.5	256.5	440.5	0.0	0.0	2221.4
4	1965	0.0	7.6	17.0	32.7	264.7	574.7	460.2	528.6	172.9	81.0	130.1	0.0	2269.5
5	1966	17.3	0.0	7.4	52.3	109.1	214.9	222.9	375.1	390.7	207.6	33.1	25.1	1655.5
6	1967	23.1	0.0	62.8	88.2	208.9	220.7	194.7	354.9	395.2	60.2	0.0	0.0	1605.7
7	1968	0.0	0.0	39.9	98.6	159.6	515.9	402.8	536.9	345.6	43.9	56.7	0.0	2199.9
8	1969	0.0	0.0	108.5	90.7	177.3	235.9	331.2	627.5	163.3	70.5	38.6	0.0	1843.6
9	1970	16.5	4.3	19.2	90.8	293.6	203.8	402.9	244.2	250.3	318.6	10.9	0.0	1789.1
10	1971	1.3	21.3	0.0	198.6	196.0	274.7	394.1	594.9	352.3	89.7	67.6	0.0	2180.5
11	1972	0.0	11.6	14.0	105.0	189.5	356.7	166.4	273.8	223.6	155.7	0.0	0.0	1496.3
12	1973	0.0	72.8	18.3	201.0	409.7	443.9	276.0	262.2	352.0	102.7	32.0	86.4	2257.0
13	1974	0.0	0.0	49.6	252.4	234.4	226.2	485.4	231.2	165.6	84.7	0.0	0.0	1729.5
14	1975	0.0	0.0	12.2	162.3	371.4	240.4	647.3	356.5	196.4	211.5	15.3	0.0	2213.3
15	1976	0.0	2.3	37.6	66.0	341.5	546.8	411.1	459.9	122.2	55.1	0.0	0.0	2042.5
16	1977	0.0	50.1	73.7	391.2	392.4	341.3	329.4	131.2	164.9	216.8	0.0	29.5	2120.5
17	1978	0.0	38.1	33.6	173.0	541.7	519.1	533.0	270.6	297.3	51.5	2.5	0.0	2460.4
18	1979	0.0	1.7	5.0	34.2	55.8	258.1	707.1	673.2	555.1	213.4	50.8	0.0	2554.4
19	1980	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-
20	1981	-	-	-	317.6	185.0	272.9	377.7	388.5	233.9	47.1	0.0	44.4	-
21	1982	5.6	27.0	125.5	156.0	142.4	488.6	176.2	280.3	146.7	0.0	43.4	0.0	1591.7
22	1983	9.6	33.3	87.9	356.7	234.3	165.6	210.5	400.6	259.1	236.6	0.0	15.5	2009.7
23	1984	1.5	0.0	9.2	111.6	428.7	590.5	572.2	291.1	234.6	79.9	0.0	0.0	2319.3
24	1985	0.0	0.0	219.8	95.8	203.3	184.3	328.9	332.4	191.5	116.8	0.0	0.0	1697.8
25	1986	1.3	0.0	15.2	228.4	161.3	277.5	282.1	297.8	477.1	310.0	127.7	0.0	2178.4
26	1987	0.0	0.0	33.1	278.0	71.1	532.3	369.7	423.3	477.3	50.8	0.0	0.0	2235.6
27	1988	0.0	36.3	45.7	-	-	-	-	-	-	-	-	-	82.0
28	1989	-	-	-	96.6	163.8	271.6	430.6	104.3	263.7	149.1	0.0	14.0	1493.7
29	1990	0.0	10.1	120.8	-	-	-	-	-	-	-	-	-	-
AVERAGE		2.9	13.1	46.1	159.7	234.9	337.8	388.1	349.6	277.7	140.7	23.8	8.3	1927.0

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 76 NARSINDI (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
														(Unit: mm)
1	1961	-	-	-	83.8	396.9	402.4	489.0	416.2	172.5	79.2	6.4	0.0	-
2	1962	21.8	45.2	31.0	141.4	307.7	347.5	476.8	272.3	209.5	278.2	0.0	0.0	2131.4
3	1963	2.0	0.0	54.1	97.0	296.4	573.1	437.9	189.0	136.8	198.7	15.7	0.0	2000.7
4	1964	0.0	12.2	25.7	332.7	323.5	519.1	912.0	223.2	551.9	283.2	53.0	0.0	3236.5
5	1965	0.0	17.5	39.4	25.0	153.9	642.2	587.3	705.4	580.6	66.0	59.4	5.8	2882.5
6	1966	11.7	0.0	6.1	260.2	172.0	594.4	304.8	580.9	493.9	348.1	62.2	25.1	2869.4
7	1967	27.1	0.0	80.2	201.4	194.2	532.0	485.1	391.0	563.1	116.2	0.0	0.0	2690.3
8	1968	5.3	6.8	56.4	209.0	264.5	588.2	408.0	394.2	266.0	27.0	32.8	0.0	2258.2
9	1969	3.0	0.0	202.1	415.2	61.7	753.7	618.1	554.0	452.3	131.7	53.0	0.0	3244.8
10	1970	14.8	4.1	36.5	134.9	266.8	279.8	600.7	575.6	318.9	471.2	18.3	0.0	2721.6
11	1971	12.2	9.7	0.0	103.4	430.8	756.1	513.2	910.6	152.4	74.9	68.5	0.0	3031.8
12	1972	0.0	29.0	23.4	315.6	401.4	589.4	337.4	487.1	253.4	56.7	0.0	0.0	2493.4
13	1973	14.7	92.7	57.1	160.8	874.9	667.0	529.9	446.6	377.3	160.2	72.7	165.9	3619.8
14	1974	3.0	0.0	108.7	311.4	346.1	299.5	1047.6	364.0	287.7	72.1	3.0	0.0	2843.1
15	1975	0.0	11.7	5.4	87.9	241.2	107.5	490.0	117.9	289.9	192.4	48.7	0.0	1592.6
16	1976	0.0	41.1	25.4	101.3	257.8	722.0	349.0	625.1	76.5	52.9	11.4	0.0	2262.5
17	1977	0.0	15.8	17.5	384.5	411.6	504.1	366.4	302.5	32.4	303.8	28.5	36.4	2403.5
18	1978	0.0	15.7	11.0	242.2	897.9	879.0	380.8	140.9	107.9	100.8	0.0	0.0	2776.2
19	1979	2.0	16.5	49.3	66.5	135.7	358.1	635.2	345.6	376.3	59.6	37.1	22.1	2104.0
20	1980	7.6	9.2	21.6	170.6	676.0	351.9	303.4	148.5	212.6	577.0	0.0	0.8	2479.2
21	1981	3.1	38.3	57.9	525.3	256.7	110.9	671.6	428.8	331.4	7.6	0.0	11.4	2443.0
22	1982	0.0	2.0	124.4	161.5	326.5	568.2	63.4	359.2	171.8	29.7	30.3	0.0	1837.0
23	1983	10.2	27.6	151.2	191.8	504.3	353.3	298.7	704.7	231.2	309.4	0.0	40.6	2823.0
24	1984	5.0	0.0	19.0	105.7	1064.9	752.6	774.0	617.7	742.3	133.6	0.0	0.0	4214.8
25	1985	12.7	0.0	76.2	106.0	356.1	504.2	454.4	502.5	273.9	153.0	0.0	3.3	2442.3
26	1986	22.8	0.0	2.0	378.6	361.2	256.7	497.0	397.1	564.0	589.5	195.6	0.0	3264.5
27	1987	2.0	18.3	58.9	225.9	135.7	574.4	463.8	635.7	229.1	72.7	27.2	22.4	2466.1
28	1988	0.0	46.3	124.2	100.4	648.8	592.4	620.5	299.1	194.9	164.1	114.4	8.9	3014.0
29	1989	0.0	57.1	11.9	54.4	278.4	332.6	220.8	64.9	224.4	168.5	0.0	13.2	1426.2
30	1990	0.0	41.3	155.7	-	-	-	-	-	-	-	-	-	-
AVERAGE		6.2	19.2	56.3	196.4	380.8	503.9	494.4	420.7	306.0	182.0	32.4	12.3	2623.7



MONTHLY AND ANNUAL RAINFALL														
STATION NO. 351 BANCHARAMPUR (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1961	-	-	-	99	296	537	371	284	131	114	25	0	-
2	1962	0	9	3	165	275	264	486	420	163	-	-	0	-
3	1963	0	0	37	206	215	711	389	177	163	288	-	0	-
4	1964	5	48	38	-	-	-	-	-	-	-	-	-	-
5	1965	-	-	-	91	124	408	431	484	363	71	85	6	-
6	1966	0	0	0	147	18	420	330	469	671	241	33	0	2328
7	1967	20	0	144	99	224	244	395	504	358	109	0	0	2097
8	1968	0	0	42	69	195	346	451	141	65	42	53	0	1404
9	1969	0	0	60	309	33	337	489	311	200	48	36	0	1823
10	1970	27	2	17	103	113	230	271	308	283	355	135	0	1843
11	1971	0	22	56	231	318	143	384	254	79	11	0	0	1499
12	1972	0	15	0	67	30	295	238	176	69	17	6	0	912
13	1973	0	28	34	28	524	301	494	393	166	69	22	118	2177
14	1974	0	0	46	52	156	547	604	602	252	65	107	0	2429
15	1975	0	0	8	43	159	344	608	83	251	180	37	0	1712
16	1976	0	0	111	30	133	602	325	467	43	23	0	0	1734
17	1977	0	56	0	267	289	269	203	114	98	91	40	11	1438
18	1978	0	8	14	202	716	457	180	143	132	61	0	0	1913
19	1979	0	5	21	79	0	299	250	41	277	76	62	13	1121
20	1980	0	23	17	66	362	102	193	188	129	152	0	0	1231
21	1981	10	31	46	446	100	67	194	167	147	49	0	12	1269
22	1982	0	27	46	65	70	125	126	288	132	11	28	0	919
23	1983	12	8	50	238	309	217	112	552	115	100	0	7	1720
24	1984	5	0	0	83	773	263	361	327	357	87	0	0	2256
25	1985	0	0	26	32	235	190	153	134	96	16	9	7	897
26	1986	7	0	18	107	84	81	402	133	558	103	85	0	1577
27	1987	0	7	4	167	223	290	520	307	209	70	25	11	1833
28	1988	0	25	49	146	1069	326	252	218	77	97	75	0	2333
29	1989	0	75	0	23	73	174	211	88	141	172	0	10	967
30	1990	0	30	387	-	-	-	-	-	-	-	-	-	-
AVERAGE		3	15	45	131	254	307	337	278	204	101	33	7	1643

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 357 DAUDKANDI (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	(Unit: mm) ANNUAL
1	1983	-	-	-	845.8	746.8	370.7	422.9	665.8	363.3	304.8	0.0	25.3	-
2	1984	25.4	0.0	0.0	134.5	833.0	962.7	850.8	589.2	490.3	50.8	0.0	0.0	3936.7
3	1985	0.0	0.0	454.8	137.1	525.8	396.8	394.0	256.4	187.9	68.6	0.0	0.0	2421.4
4	1986	0.0	0.0	0.0	421.7	251.6	259.1	355.5	173.7	355.6	203.2	218.3	0.0	2238.7
5	1987	0.0	0.0	45.6	452.1	2.5	251.9	340.3	459.5	416.9	67.9	24.8	20.8	2082.1
6	1988	0.0	34.7	112.8	271.8	111.3	115.6	374.0	203.0	48.0	164.0	115.0	0.0	1550.2
7	1989	0.0	3.0	0.0	79.0	219.0	258.0	362.0	98.0	287.0	246.0	0.0	7.0	1559.0
8	1990	0.0	42.0	242.0	-	-	-	-	-	-	-	-	-	-
AVERAGE		3.5	11.4	122.2	334.6	384.3	373.5	442.8	349.4	307.0	157.9	51.1	7.6	2298.0

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 365 MUNSHIGAUJ (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1963	-	-	-	129.8	314.4	412.8	270.5	223.5	136.7	166.2	15.7	0.0	-
2	1964	1.0	100.6	38.9	-	-	-	-	-	-	-	-	-	-
3	1965	-	-	-	39.1	265.1	423.4	443.8	428.9	297.7	58.1	32.6	5.1	-
4	1966	7.4	0.0	5.8	40.1	95.3	413.5	292.7	334.0	293.3	268.3	12.7	30.2	1793.3
5	1967	33.0	0.0	81.9	118.3	187.8	172.9	338.6	430.9	302.6	52.0	0.0	0.0	1718.0
6	1968	0.0	0.0	57.6	84.0	207.8	549.9	564.7	254.3	81.4	70.1	111.8	0.0	1981.6
7	1969	0.0	0.0	76.1	147.2	58.6	405.0	291.0	458.9	269.7	138.7	26.4	0.0	1871.6
8	1970	16.0	7.4	118.8	191.0	79.9	353.0	396.1	293.2	306.9	413.5	74.2	0.0	2250.0
9	1971	28.4	19.3	0.0	153.6	341.7	614.5	565.2	929.6	120.8	63.5	38.1	0.0	2874.7
10	1972	0.0	1.0	0.0	375.9	193.0	472.4	491.8	807.7	205.6	45.7	0.0	0.0	2593.1
11	1973	0.0	172.7	96.5	274.8	952.5	680.8	693.5	536.0	853.4	172.8	137.2	76.2	4646.4
12	1974	0.0	0.0	0.0	121.9	833.1	1513.8	914.4	1292.9	370.8	0.0	0.0	0.0	5046.8
13	1975	0.0	20.3	0.0	233.7	188.0	370.8	876.2	182.9	290.7	405.3	34.3	0.0	2602.2
14	1976	10.2	0.0	0.0	50.8	114.6	525.7	736.4	575.6	0.0	0.0	0.0	0.0	2013.3
15	1977	0.0	35.6	33.0	420.5	374.8	525.6	267.7	26.7	47.7	73.9	2.3	1.8	1809.6
16	1978	0.0	19.0	10.2	51.4	500.4	438.6	104.6	101.3	154.4	8.1	0.9	0.0	1388.9
17	1979	0.5	0.8	2.8	21.8	1.6	403.8	436.1	632.3	334.3	0.0	2.1	1.3	1837.4
18	1980	0.0	2.6	0.0	1.0	7.5	7.9	7.5	5.4	4.0	7.2	0.0	0.0	43.1
19	1981	3.8	0.0	0.0	333.6	273.3	202.8	278.9	267.6	263.5	80.8	4.1	24.3	1732.7
20	1982	0.0	0.0	42.1	273.9	199.5	379.4	267.7	501.2	201.0	24.1	72.4	0.0	1961.3
21	1983	7.1	23.6	91.7	328.6	418.5	184.4	94.3	610.9	364.4	151.8	46.0	11.5	2332.8
22	1984	4.1	0.0	62.3	33.8	360.0	566.9	453.4	167.3	442.7	73.2	0.0	0.0	2163.7
23	1985	0.0	2.1	0.0	58.9	288.3	237.9	198.9	161.0	233.0	40.1	0.0	0.0	1220.2
24	1986	3.3	0.0	3.8	186.0	159.4	271.4	596.8	143.5	330.9	118.1	216.0	0.0	2029.2
25	1987	0.0	2.0	13.0	168.1	115.7	257.1	428.1	429.0	38.1	8.9	0.0	0.0	1460.0
26	1988	0.0	34.3	298.9	193.4	263.5	417.5	182.8	189.6	202.0	231.0	58.7	0.0	2071.7
27	1989	0.0	2.0	0.0	57.1	255.6	263.8	241.2	14.0	328.9	243.3	0.0	5.1	1411.0
28	1990	0.0	9.6	216.2	-	-	-	-	-	-	-	-	-	-
AVERAGE		4.4	17.4	48.1	157.2	271.2	425.6	401.3	384.5	249.0	112.1	34.1	6.0	2118.9

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 368 NARAYANGANJ (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
(Unit: mm)														
1	1961	-	-	-	96.5	367.2	453.1	342.3	347.7	140.9	96.2	6.9	0.0	-
2	1962	14.5	12.2	11.4	-	-	-	-	-	-	-	-	-	-
3	1963	-	-	-	118.9	304.9	396.7	308.0	161.1	93.4	260.3	16.3	2.5	1662.1
4	1964	0.5	40.9	24.4	-	-	-	-	-	-	-	-	-	-
5	1965	-	-	-	280.2	252.0	0.0	306.4	387.0	328.3	44.2	46.4	4.3	1648.8
6	1966	9.1	0.0	18.5	54.6	62.0	364.6	261.5	224.1	501.3	129.5	15.0	25.4	1665.6
7	1967	20.3	0.0	72.4	142.7	141.0	163.9	347.3	509.4	327.7	55.1	0.0	0.0	1779.8
8	1968	0.0	0.3	45.2	82.0	214.9	500.7	493.1	250.8	63.9	35.8	76.5	0.0	1763.2
9	1969	0.0	0.0	73.6	201.5	190.4	363.5	255.5	434.1	159.3	135.7	34.0	0.0	1847.6
10	1970	31.8	4.8	48.3	125.1	151.0	269.0	246.5	303.6	214.7	0.0	0.0	0.0	1394.8
11	1971	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-
12	1972	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1973	-	-	-	174.9	0.0	412.4	496.9	265.2	361.7	146.8	82.5	130.6	2071.0
14	1974	0.0	0.0	106.4	153.4	259.8	235.9	622.8	379.7	217.9	129.4	6.1	0.0	2111.4
15	1975	0.0	31.3	0.0	71.8	188.2	244.3	654.8	224.1	281.2	327.0	44.0	0.0	2066.7
16	1976	0.0	0.0	0.0	99.1	215.7	646.7	344.2	401.5	69.0	114.7	0.0	0.0	1890.9
17	1977	0.0	14.0	7.6	-	-	-	-	-	-	-	-	-	-
AVERAGE		6.4	8.6	34.0	133.4	195.6	337.6	389.9	324.0	229.9	122.9	27.3	13.6	1809.3

MONTHLY AND ANNUAL RAINFALL														
STATION NO. 412 NAWABONGJI (BWDB)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
														(Unit: mm)
1	1965	-	-	-	232	166	388	279	416	182	52	8	0	-
2	1966	15	0	0	29	82	220	439	285	359	235	24	15	1703
3	1967	34	0	97	170	89	221	304	289	245	51	0	2	1501
4	1968	0	4	85	88	114	471	405	366	130	75	231	0	1967
5	1969	0	12	122	157	63	287	264	448	151	85	30	0	1618
6	1970	10	6	21	208	180	364	365	323	341	354	14	0	2185
7	1971	4	39	15	145	308	340	471	464	281	6	0	0	2073
8	1972	0	10	0	0	141	491	295	197	89	57	0	0	1280
9	1973	0	17	16	157	462	341	351	259	242	34	33	81	1992
10	1974	0	0	107	202	184	289	670	179	113	0	0	0	1743
11	1975	0	0	0	127	252	399	362	246	159	37	0	0	1581
12	1976	0	0	116	-	-	-	-	-	-	-	-	-	-
13	1977	-	-	-	378	211	253	422	70	85	108	29	23	1579
14	1978	0	8	13	83	285	206	201	99	234	19	0	0	1146
15	1979	0	10	10	18	43	170	196	158	122	61	18	0	805
16	1980	0	23	0	61	246	422	191	272	38	43	0	0	1296
17	1981	0	50	54	358	239	236	392	228	287	84	6	18	1952
18	1982	0	13	61	-	-	-	-	-	-	-	-	-	-
19	1983	-	-	-	247	239	85	83	344	125	168	0	3	-
20	1984	0	0	0	3	269	264	378	258	165	0	0	0	1337
21	1985	0	0	0	46	104	98	251	258	221	0	0	0	978
22	1986	0	0	6	-	-	-	-	-	-	-	-	-	-
23	1987	-	-	-	205	83	251	329	345	391	66	0	0	1670
24	1988	0	33	142	-	-	-	-	-	-	-	-	-	-
25	1989	-	-	-	79	193	267	302	107	259	119	0	0	1326
26	1990	0	6	66	-	-	-	-	-	-	-	-	-	-
AVERAGE		3	11	44	143	188	288	331	267	201	79	19	7	1565



2. Probable Storm Rainfall of Dhaka (B.M.D.),  
Savar (BWDB Sta. 31), Joydebpur (BWDB  
Sta. 17) and Narayanganj (B.M.D.)





Dhaka (B.M.D.): 1 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Dhaka (B.M.D.) - Daily

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 36

K	R(K)
1	90.00
2	147.00
3	115.00
4	326.00
5	73.00
6	137.00
7	125.00
8	141.00
9	185.00
10	116.00
11	189.00
12	114.00
13	177.00
14	257.00
15	125.00
16	145.00
17	86.00
18	152.00
19	251.00
20	231.00
21	168.00
22	143.00
23	163.00
24	100.00
25	128.00
26	108.00
27	91.00
28	83.00
29	146.00
30	128.00
31	150.00
32	92.00
33	176.00
34	138.00
35	135.00
36	118.00

SORTING RESULTS

K	R(K)
1	326.00
2	257.00
3	251.00
4	231.00
5	189.00
6	185.00
7	177.00
8	176.00
9	168.00
10	163.00
11	152.00
12	150.00
13	147.00
14	146.00
15	145.00
16	143.00
17	141.00
18	138.00
19	137.00
20	135.00
21	128.00
22	128.00
23	125.00
24	125.00
25	118.00
26	116.00
27	115.00
28	114.00
29	108.00
30	100.00
31	92.00
32	91.00
33	90.00
34	86.00
35	83.00
36	73.00

T(YR)	KG	X
1.00	-3.9413	-61.98
2.00	-0.1643	137.14
3.00	0.2538	159.19
4.00	0.5214	173.29
5.00	0.7195	183.74
6.00	0.8770	192.04
7.00	1.0079	198.94
8.00	1.1198	204.84
9.00	1.2177	210.00
10.00	1.3046	214.58

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	214.58
20.00	1.8658	244.17
30.00	2.1887	261.20
40.00	2.4163	273.20
50.00	2.5923	282.47
60.00	2.7358	290.04
70.00	2.8569	296.42
80.00	2.9617	301.95
90.00	3.0541	306.82
100.00	3.1367	311.17

\*\* X: RAINFALL(MM) \*\*

XM = 145.8056  
STANDARD DEVIATION  
SG = 52.72088

Dhaka (B.M.D.) : 2 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Dhaka (B.M.D.)  
 N = NUMBER OF DATA  
 R=RAINFALL(MM)  
 TS = 10 (YR)  
 TE = 100 (YR)  
 SY = 10 (YR)

ORIGINAL DATA  
 N = 36

SORTING RESULTS

K	R(K)
1	127.00
2	255.00
3	120.00
4	346.00
5	98.00
6	140.00
7	179.00
8	223.00
9	185.00
10	141.00
11	257.00
12	206.00
13	181.00
14	270.00
15	147.00
16	240.00
17	104.00
18	262.00
19	328.00
20	251.00
21	177.00
22	212.00
23	263.00
24	133.00
25	191.00
26	166.00
27	125.00
28	148.00
29	167.00
30	194.00
31	200.00
32	132.00
33	321.00
34	172.00
35	175.00
36	151.00

K	R(K)
1	346.00
2	328.00
3	321.00
4	270.00
5	263.00
6	262.00
7	257.00
8	255.00
9	251.00
10	240.00
11	223.00
12	212.00
13	206.00
14	200.00
15	194.00
16	191.00
17	185.00
18	181.00
19	179.00
20	177.00
21	175.00
22	172.00
23	167.00
24	166.00
25	151.00
26	148.00
27	147.00
28	141.00
29	140.00
30	133.00
31	132.00
32	127.00
33	125.00
34	120.00
35	104.00
36	98.00

T(YR)	KG	X
1.00	-3.9413	-52.91
2.00	-0.1643	183.79
3.00	0.2538	209.99
4.00	0.5214	226.76
5.00	0.7195	239.17
6.00	0.8770	249.04
7.00	1.0079	257.24
8.00	1.1198	264.26
9.00	1.2177	270.39
10.00	1.3046	275.84

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	275.84
20.00	1.8658	311.01
30.00	2.1887	331.25
40.00	2.4163	345.51
50.00	2.5923	356.54
60.00	2.7358	365.53
70.00	2.8569	373.12
80.00	2.9617	379.89
90.00	3.0541	385.48
100.00	3.1367	390.66

\*\* X: RAINFALL(MM) \*\*

XM = 194.0833  
 STANDARD DEVIATION  
 SG = 62.66905

Dhaka (B.M.D.) : 5 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Dhaka (B.M.D.) - 5 Day

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 36

SORTING RESULTS

K	R(K)
1	150.00
2	323.00
3	181.00
4	430.00
5	184.00
6	170.00
7	309.00
8	331.00
9	317.00
10	154.00
11	327.00
12	241.00
13	219.00
14	238.00
15	250.00
16	379.00
17	199.00
18	323.00
19	355.00
20	314.00
21	205.00
22	401.00
23	436.00
24	175.00
25	216.00
26	234.00
27	259.00
28	158.00
29	133.00
30	250.00
31	236.00
32	169.00
33	401.00
34	234.00
35	301.00
36	152.00

K	R(K)
1	436.00
2	430.00
3	401.00
4	401.00
5	379.00
6	355.00
7	331.00
8	327.00
9	323.00
10	317.00
11	314.00
12	309.00
13	301.00
14	301.00
15	293.00
16	283.00
17	253.00
18	250.00
19	250.00
20	241.00
21	234.00
22	234.00
23	219.00
24	216.00
25	205.00
26	199.00
27	193.00
28	184.00
29	181.00
30	175.00
31	170.00
32	169.00
33	163.00
34	164.00
35	152.00
36	150.00

T(YR)	KG	X
1.00	-3.9413	-59.64
2.00	-0.1643	251.04
3.00	0.2538	285.43
4.00	0.5214	307.44
5.00	0.7195	323.74
6.00	0.8770	336.69
7.00	1.0079	347.46
8.00	1.1198	356.67
9.00	1.2177	364.72
10.00	1.3046	371.87

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	371.87
20.00	1.8658	418.03
30.00	2.1887	444.59
40.00	2.4183	463.32
50.00	2.5923	477.79
60.00	2.7358	489.59
70.00	2.8569	499.56
80.00	2.9617	508.18
90.00	3.0541	515.78
100.00	3.1367	522.57

\*\* X: RAINFALL(MM) \*\*

XN = 264.5556

STANDARD DEVIATION

SG = 82.2572

# Dhaka (B.M.D.) : 1 month rainfall

\*\* GUMBEL-CHOI'S METHOD \*\*

STATION NAME : Dhaka (B.M.D.) - 1 Month

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 36

SORTING RESULTS

X	R(X)
1	392.00
2	910.00
3	502.00
4	690.00
5	497.00
6	267.00
7	568.00
8	655.00
9	856.00
10	395.00
11	621.00
12	629.00
13	480.00
14	496.00
15	504.00
16	590.00
17	540.00
18	496.00
19	550.00
20	380.00
21	621.00
22	559.00
23	627.00
24	381.00
25	529.00
26	525.00
27	414.00
28	411.00
29	514.00
30	408.00
31	891.00
32	399.00
33	697.00
34	526.00
35	580.00
36	147.00

X	R(X)
1	391.00
2	856.00
3	310.00
4	690.00
5	397.00
6	555.00
7	523.00
8	527.00
9	621.00
10	621.00
11	590.00
12	580.00
13	568.00
14	559.00
15	550.00
16	540.00
17	529.00
18	526.00
19	525.00
20	514.00
21	504.00
22	502.00
23	496.00
24	496.00
25	487.00
26	480.00
27	414.00
28	411.00
29	408.00
30	399.00
31	395.00
32	392.00
33	381.00
34	380.00
35	347.00
36	267.00

T(YR)	KG	X
1.00	-3.9413	-3.44
2.00	-0.1843	514.34
3.00	0.2538	571.65
4.00	0.5214	608.34
5.00	0.7195	635.49
6.00	0.8770	657.09
7.00	1.0079	675.03
8.00	1.1198	690.37
9.00	1.2177	703.79
10.00	1.3046	715.70

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	715.70
20.00	1.8658	792.64
30.00	2.1887	836.90
40.00	2.4163	868.11
50.00	2.5923	892.23
60.00	2.7358	911.90
70.00	2.8569	928.51
80.00	2.9617	942.87
90.00	3.0541	955.54
100.00	3.1367	966.86

\*\* X: RAINFALL(MM) \*\*

XM = 536.8611  
 STANDARD DEVIATION  
 SG = 137.087

Savar (BWDB Sta.31) : 1 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME :Savar (BWDB) - Daily

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 26

X	R(X)
1	245.00
2	87.00
3	165.00
4	172.00
5	122.00
6	142.00
7	162.00
8	93.00
9	82.00
10	88.00
11	114.00
12	133.00
13	136.00
14	235.00
15	162.00
16	126.00
17	165.00
18	187.00
19	114.00
20	165.00
21	146.00
22	184.00
23	107.00
24	103.00
25	99.00
26	102.00

SORTING RESULTS

X	R(X)
1	245.00
2	235.00
3	167.00
4	184.00
5	179.00
6	165.00
7	165.00
8	165.00
9	153.90
10	162.00
11	146.00
12	142.00
13	139.00
14	133.00
15	126.00
16	122.00
17	114.00
18	114.00
19	109.00
20	107.00
21	102.00
22	99.00
23	93.00
24	88.00
25	87.00
26	82.00

T(YR)	KG	X
1.00	-3.9413	-27.23
2.00	-0.1643	133.44
3.00	0.2538	151.22
4.00	0.5214	162.60
5.00	0.7195	171.03
6.00	0.8770	177.73
7.00	1.0079	183.30
8.00	1.1198	188.06
9.00	1.2177	192.22
10.00	1.3045	195.92

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	195.92
20.00	1.8658	219.79
30.00	2.1887	233.53
40.00	2.4163	243.21
50.00	2.5923	250.70
60.00	2.7358	256.80
70.00	2.8569	261.95
80.00	2.9617	266.41
90.00	3.0541	270.34
100.00	3.1367	273.85

\*\* X: RAINFALL(MM) \*\*

XH = 140.4231  
STANDARD DEVIATION  
SG = 42.53883

Savar (BWDB Sta. 31): 2 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME :Savar (BWDB)

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 26

SORTING RESULTS

K	R(K)
1	297.00
2	110.00
3	196.00
4	184.00
5	167.00
6	161.00
7	197.00
8	117.00
9	118.00
10	139.00
11	145.00
12	133.00
13	136.00
14	371.00
15	250.00
16	150.00
17	199.00
18	268.00
19	160.00
20	208.00
21	249.00
22	281.00
23	159.00
24	164.00
25	168.00
26	155.00

K	R(K)
1	371.00
2	297.00
3	268.00
4	261.00
5	250.00
6	249.00
7	208.00
8	199.00
9	197.00
10	196.00
11	184.00
12	168.00
13	167.00
14	164.00
15	161.00
16	160.00
17	159.00
18	155.00
19	150.00
20	145.00
21	139.00
22	136.00
23	133.00
24	118.00
25	117.00
26	110.00

T(YR)	KG	X
1.00	-3.9413	-54.51
2.00	-0.1643	176.93
3.00	0.2538	202.55
4.00	0.5214	218.95
5.00	0.7195	231.09
6.00	0.8770	240.74
7.00	1.0079	248.76
8.00	1.1198	255.62
9.00	1.2177	261.62
10.00	1.3046	266.94

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	266.94
20.00	1.8658	301.33
30.00	2.1887	321.12
40.00	2.4163	335.07
50.00	2.5923	345.85
60.00	2.7358	354.64
70.00	2.8569	362.06
80.00	2.9617	368.49
90.00	3.0541	374.15
100.00	3.1367	379.21

\*\* X: RAINFALL(MM) \*\*

XH = 187

STANDARD DEVIATION

SG = 61.27743

Savar (BWDB Sta.31): 5 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME :Savar (BWDB) - 5 Day  
 N = NUMBER OF DATA  
 R=RAINFALL(MM)  
 TS = 1 (YR)  
 TE = 10 (YR)  
 SY = 1 (YR)

ORIGINAL DATA  
 N = 26

SORTING RESULTS

K	R(K)
1	297.00
2	188.00
3	238.00
4	277.00
5	190.00
6	170.00
7	289.00
8	173.00
9	157.00
10	273.00
11	202.00
12	154.00
13	174.00
14	507.00
15	358.00
16	192.00
17	283.00
18	446.00
19	195.00
20	254.00
21	286.00
22	377.00
23	262.00
24	255.00
25	203.00
26	208.00

K	R(K)
1	507.00
2	446.00
3	377.00
4	358.00
5	297.00
6	289.00
7	286.00
8	283.00
9	277.00
10	273.00
11	262.00
12	255.00
13	254.00
14	238.00
15	208.00
16	203.00
17	202.00
18	192.00
19	190.00
20	188.00
21	185.00
22	174.00
23	173.00
24	170.00
25	157.00
26	154.00

T(YR)	KG	X
1.00	-3.9413	-89.19
2.00	-0.1643	239.47
3.00	0.2538	275.85
4.00	0.5214	299.14
5.00	0.7195	316.37
6.00	0.8770	330.08
7.00	1.0079	341.47
8.00	1.1198	351.21
9.00	1.2177	359.73
10.00	1.3046	367.29

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	367.29
20.00	1.8658	416.13
30.00	2.1387	444.22
40.00	2.4163	464.03
50.00	2.5923	479.34
60.00	2.7358	491.83
70.00	2.8569	502.37
80.00	2.9617	511.49
90.00	3.0541	519.53
100.00	3.1367	526.71

\*\* X: RAINFALL(MM) \*\*

XH = 253.7692  
 STANDARD DEVIATION  
 SG = 87.01694

Savar (BWDB Sta. 31): 1 month rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME :Savar (BWDB) -1 Month

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 22

k	R(k)
1	554.00
2	575.00
3	391.00
4	395.00
5	537.00
6	628.00
7	403.00
8	595.00
9	357.00
10	444.00
11	495.00
12	647.00
13	547.00
14	392.00
15	542.00
16	707.00
17	489.00
18	401.00
19	591.00
20	352.00
21	477.00
22	532.00

SORTING RESULTS

k	R(k)
1	707.00
2	647.00
3	528.00
4	595.00
5	531.00
6	575.00
7	554.00
8	547.00
9	542.00
10	537.00
11	532.00
12	489.00
13	485.00
14	477.00
15	444.00
16	403.00
17	401.00
18	395.00
19	392.00
20	391.00
21	357.00
22	352.00

XH = 501.8637

STANDARD DEVIATION

SG = 98.42454

T(YR)	KG	X
1.00	-3.9413	113.95
2.00	-0.1643	485.70
3.00	0.2538	526.84
4.00	0.5214	553.18
5.00	0.7195	572.68
6.00	0.8770	588.18
7.00	1.0079	601.06
8.00	1.1198	612.08
9.00	1.2177	621.71
10.00	1.3046	630.26

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	630.26
20.00	1.8658	685.51
30.00	2.1887	717.28
40.00	2.4163	739.69
50.00	2.5923	757.01
60.00	2.7358	771.13
70.00	2.8569	783.05
80.00	2.9617	793.37
90.00	3.0541	802.46
100.00	3.1367	810.59

\*\* X: RAINFALL(MM) \*\*



# Joydebpur (BWDB Sta. 17): 1 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Joydebpur (BWDB) - Daily  
 N = NUMBER OF DATA  
 R=RAINFALL(MM)  
 TS = 1 (YR)  
 TE = 10 (YR)  
 SY = 1 (YR)

ORIGINAL DATA  
 N = 29

SORTING RESULTS

K	R(K)
1	140.00
2	107.00
3	127.00
4	161.00
5	173.00
6	137.00
7	140.00
8	177.00
9	69.00
10	112.00
11	126.00
12	77.00
13	205.00
14	165.00
15	165.00
16	107.00
17	104.00
18	184.00
19	229.00
20	95.00
21	125.00
22	129.00
23	193.00
24	112.00
25	83.00
26	167.00
27	153.00
28	155.00
29	129.00

K	P(K)
1	229.00
2	205.00
3	193.00
4	184.00
5	177.00
6	173.00
7	167.00
8	165.00
9	165.00
10	161.00
11	155.00
12	153.00
13	140.00
14	140.00
15	137.00
16	129.00
17	129.00
18	127.00
19	126.00
20	125.00
21	112.00
22	112.00
23	107.00
24	107.00
25	104.00
26	95.00
27	83.00
28	77.00
29	69.00

T(YR)	KG	X
1.00	-3.9113	-11.25
2.00	-0.1543	133.27
3.00	0.2538	149.26
4.00	0.5214	159.50
5.00	0.7195	167.08
6.00	0.8770	173.11
7.00	1.0079	178.11
8.00	1.1198	182.40
9.00	1.2177	186.14
10.00	1.3046	189.47

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	189.47
20.00	1.8558	210.94
30.00	2.1887	223.30
40.00	2.4163	232.00
50.00	2.5323	238.74
60.00	2.7358	244.23
70.00	2.8569	248.86
80.00	2.9617	252.87
90.00	3.0541	256.41
100.00	3.1367	259.57

\*\* X: RAINFALL(MM) \*\*

XK = 139.5517  
 STANDARD DEVIATION  
 SG = 38.26188

# Joydebpur (BWDB sta.17): 2 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Joydebpur (BWDB)

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 29

SORTING RESULTS

K	R(K)
1	152.00
2	155.00
3	131.00
4	254.00
5	221.00
6	229.00
7	231.00
8	210.00
9	107.00
10	147.00
11	162.00
12	117.00
13	221.00
14	182.00
15	254.00
16	199.00
17	115.00
18	267.00
19	330.00
20	132.00
21	201.00
22	181.00
23	290.00
24	160.00
25	142.00
26	271.00
27	230.00
28	283.00
29	160.00

k	R(k)
1	330.00
2	290.00
3	283.00
4	271.00
5	267.00
6	264.00
7	254.00
8	231.00
9	230.00
10	229.00
11	221.00
12	221.00
13	210.00
14	201.00
15	199.00
16	182.00
17	181.00
18	162.00
19	160.00
20	160.00
21	155.00
22	152.00
23	147.00
24	142.00
25	132.00
26	131.00
27	117.00
28	115.00
29	107.00

T(YR)	KG	X
1.00	-3.9413	-33.22
2.00	-0.1643	188.46
3.00	0.2538	213.00
4.00	0.5214	228.71
5.00	0.7195	240.33
6.00	0.8770	249.58
7.00	1.0079	257.26
8.00	1.1198	263.83
9.00	1.2177	269.57
10.00	1.3046	274.67

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	274.67
20.00	1.8658	307.61
30.00	2.1887	326.57
40.00	2.4163	339.93
50.00	2.5923	350.25
60.00	2.7358	358.68
70.00	2.8569	365.78
80.00	2.9617	371.94
90.00	3.0541	377.36
100.00	3.1367	382.21

\*\* X: RAINFALL(MM) \*\*

XK = 198.1035  
STANDARD DEVIATION  
SG = 58.69345

Joydebpur (BWDB Sta. 17): 5 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Joydebpur (BWDB) - 5 Day

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 29

K	R(K)
1	283.00
2	223.00
3	144.00
4	295.00
5	307.00
6	279.00
7	326.00
8	263.00
9	192.00
10	254.00
11	300.00
12	163.00
13	269.00
14	209.00
15	475.00
16	368.00
17	189.00
18	288.00
19	500.00
20	215.00
21	309.00
22	209.00
23	363.00
24	315.00
25	302.00
26	331.00
27	406.00
28	413.00
29	178.00

SORTING RESULTS

K	R(K)
1	500.00
2	475.00
3	413.00
4	406.00
5	368.00
6	363.00
7	331.00
8	326.00
9	315.00
10	309.00
11	307.00
12	302.00
13	300.00
14	295.00
15	288.00
16	283.00
17	279.00
18	269.00
19	263.00
20	254.00
21	223.00
22	215.00
23	209.00
24	209.00
25	192.00
26	189.00
27	178.00
28	163.00
29	144.00

T(YR)	KG	X
1.00	-3.9413	-53.52
2.00	-0.1643	274.29
3.00	0.2538	310.58
4.00	0.5214	333.80
5.00	0.7195	351.00
6.00	0.8770	364.67
7.00	1.0079	376.03
8.00	1.1193	385.74
9.00	1.2177	394.24
10.00	1.3046	401.78

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	401.78
20.00	1.8558	450.49
30.00	2.1887	478.51
40.00	2.4163	498.27
50.00	2.5923	513.54
60.00	2.7358	525.99
70.00	2.8569	536.51
80.00	2.9617	545.61
90.00	3.0541	553.62
100.00	3.1367	560.79

\*\* X: RAINFALL(MM) \*\*

XM = 288.5517  
STANDARD DEVIATION  
SG = 86.7921

Joydebpur (BWDB Sta. 17): 1 month rainfall

\*\* GUMBEL-CHOX'S METHOD \*\*

STATION NAME : Joydebpur (BWDB) - 1 Month  
 N = NUMBER OF DATA

R=RAINFALL(MM)  
 TS = 1 (YR)  
 TE = 10 (YR)  
 SY = 1 (YR)

ORIGINAL DATA  
 N = 28

SORTING RESULTS

K	R(K)
1	393.00
2	355.00
3	512.00
4	592.00
5	490.00
6	550.00
7	565.00
8	498.00
9	439.00
10	629.00
11	274.00
12	536.00
13	593.00
14	634.00
15	487.00
16	385.00
17	798.00
18	685.00
19	411.00
20	485.00
21	494.00
22	639.00
23	559.00
24	530.00
25	498.00
26	744.00
27	716.00
28	484.00

X	R(K)
1	798.00
2	744.00
3	716.00
4	695.00
5	639.00
6	634.00
7	629.00
8	593.00
9	592.00
10	565.00
11	559.00
12	550.00
13	536.00
14	530.00
15	512.00
16	498.00
17	498.00
18	494.00
19	490.00
20	487.00
21	485.00
22	484.00
23	439.00
24	411.00
25	393.00
26	385.00
27	355.00
28	274.00

T(YR)	KG	X
1.00	-3.9413	73.58
2.00	-0.1643	515.25
3.00	0.2538	564.14
4.00	0.5214	595.43
5.00	0.7195	618.60
6.00	0.8770	637.02
7.00	1.0079	652.32
8.00	1.1198	665.41
9.00	1.2177	676.86
10.00	1.3046	687.02

\*\* X: WATER LEVEL(M,PWD) \*\*

T(YR)	KG	X
10.00	1.3046	687.02
20.00	1.8658	752.65
30.00	2.1887	790.41
40.00	2.4163	817.03
50.00	2.5923	837.60
60.00	2.7358	854.38
70.00	2.8569	868.55
80.00	2.9617	880.80
90.00	3.0541	891.61
100.00	3.1367	901.27

\*\* X: RAINFALL(MM) \*\*

XM = 534.4643  
 STANDARD DEVIATION  
 SG = 116.9388

Narayanganj (B.M.D.) : 1 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME :Narayanganj (B.M.D.)  
 N = NUMBER OF DATA  
 R=RAINFALL(MM)  
 TS = 1 (YR)  
 TE = 10 (YR)  
 SY = 1 (YR)

ORIGINAL DATA  
 N = 25

SORTING RESULTS

K	R(K)
1	119.00
2	183.00
3	149.00
4	133.00
5	86.00
6	149.00
7	62.00
8	158.00
9	134.00
10	160.00
11	202.00
12	87.00
13	197.00
14	231.00
15	216.00
16	137.00
17	135.00
18	252.00
19	81.00
20	106.00
21	167.00
22	170.00
23	132.00
24	105.00
25	193.00

K	R(K)
1	252.00
2	231.00
3	216.00
4	202.00
5	197.00
6	193.00
7	183.00
8	170.00
9	167.00
10	160.00
11	158.00
12	149.00
13	149.00
14	137.00
15	135.00
16	134.00
17	133.00
18	132.00
19	119.00
20	106.00
21	105.00
22	87.00
23	86.00
24	81.00
25	62.00

XM = 149.76  
 STANDARD DEVIATION  
 SG = 47.65735

T(YR)	KG	X
1.00	-3.9413	-38.07
2.00	-0.1643	141.93
3.00	0.2538	161.86
4.00	0.5214	174.61
5.00	0.7195	184.05
6.00	0.8770	191.58
7.00	1.0079	197.79
8.00	1.1198	203.13
9.00	1.2177	207.79
10.00	1.3046	211.93

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	211.93
20.00	1.8658	238.68
30.00	2.1887	254.07
40.00	2.4163	264.92
50.00	2.5923	273.30
60.00	2.7358	280.14
70.00	2.8569	285.91
80.00	2.9617	290.91
90.00	3.0541	295.31
100.00	3.1367	299.25

\*\* X: RAINFALL(MM) \*\*

Narayanganj (B.M.D.) : 2 day rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Narayanganj (B.H.D.)

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 25

SORTING RESULTS

K	R(K)
1	143.00
2	233.00
3	165.00
4	172.00
5	124.00
6	178.00
7	97.00
8	166.00
9	171.00
10	238.00
11	202.00
12	130.00
13	307.00
14	268.00
15	302.00
16	207.00
17	263.00
18	255.00
19	132.00
20	188.00
21	183.00
22	204.00
23	246.00
24	194.00
25	228.00

K	R(K)
1	307.00
2	302.00
3	266.00
4	263.00
5	255.00
6	246.00
7	238.00
8	233.00
9	228.00
10	207.00
11	204.00
12	202.00
13	194.00
14	188.00
15	183.00
16	178.00
17	172.00
18	171.00
19	166.00
20	165.00
21	143.00
22	132.00
23	130.00
24	124.00
25	97.00

XH = 199.76  
STANDARD DEVIATION  
SG = 53.97057

T(YR)	KG	X
1.00	-3.9413	-12.95
2.00	-0.1643	190.89
3.00	0.2538	213.46
4.00	0.5214	227.90
5.00	0.7195	238.59
6.00	0.8770	247.09
7.00	1.0079	254.15
8.00	1.1198	260.20
9.00	1.2177	265.48
10.00	1.3046	270.17

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	270.17
20.00	1.8658	300.46
30.00	2.1887	317.88
40.00	2.4163	330.17
50.00	2.5923	339.67
60.00	2.7358	347.41
70.00	2.8569	353.95
80.00	2.9617	359.61
90.00	3.0541	364.59
100.00	3.1367	369.05

\*\* X: RAINFALL(MM) \*\*

Narayananj (B.M.D.) : 5 day rainfall

\*\* GUMBEL-CHOM'S METHOD \*\*

STATION NAME :Narayananj (B.H.O.)

N = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

N = 25

K	R(K)
1	224.00
2	295.00
3	198.00
4	183.00
5	182.00
6	259.00
7	191.00
8	166.00
9	298.00
10	257.00
11	264.00
12	160.00
13	350.00
14	293.00
15	343.00
16	292.00
17	343.00
18	297.00
19	163.00
20	331.00
21	215.00
22	252.00
23	429.00
24	318.00
25	308.00

SORTING RESULTS

K	R(K)
1	429.00
2	359.00
3	343.00
4	343.00
5	331.00
6	318.00
7	308.00
8	293.00
9	298.00
10	297.00
11	295.00
12	292.00
13	264.00
14	259.00
15	257.00
16	252.00
17	224.00
18	215.00
19	198.00
20	191.00
21	183.00
22	182.00
23	166.00
24	163.00
25	160.00

XM = 264.68  
STANDARD DEVIATION  
SG = 69.12523

T(YR)	KG	X
1.00	-3.9413	-7.76
2.00	-0.1643	253.32
3.00	0.2538	282.22
4.00	0.5214	300.72
5.00	0.7195	314.41
6.00	0.8770	325.30
7.00	1.0079	334.35
8.00	1.1198	342.09
9.00	1.2177	348.85
10.00	1.3046	354.85

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	354.86
20.00	1.8658	393.65
30.00	2.1887	415.97
40.00	2.4163	431.71
50.00	2.5923	443.87
60.00	2.7358	453.79
70.00	2.8569	462.16
80.00	2.9617	469.41
90.00	3.0541	475.80
100.00	3.1367	481.50

\*\* X: RAINFALL(MM) \*\*

Narayanganj (B.M.D.) : 1 month rainfall

\*\* GUMBEL-CHOW'S METHOD \*\*

STATION NAME : Narayanganj (B.M.D.)

H = NUMBER OF DATA

R=RAINFALL(MM)

TS = 1 (YR)

TE = 10 (YR)

SY = 1 (YR)

ORIGINAL DATA

H = 27

SORTING RESULTS

K	R(K)
1	414.00
2	711.00
3	484.00
4	438.00
5	552.00
6	340.00
7	387.00
8	415.00
9	374.00
10	605.00
11	533.00
12	489.00
13	298.00
14	418.00
15	451.00
16	479.00
17	525.00
18	502.00
19	428.00
20	285.00
21	644.00
22	356.00
23	521.00
24	634.00
25	627.00
26	542.00
27	539.00

K	R(K)
1	711.00
2	644.00
3	634.00
4	627.00
5	605.00
6	552.00
7	542.00
8	539.00
9	533.00
10	525.00
11	521.00
12	502.00
13	489.00
14	484.00
15	479.00
16	451.00
17	438.00
18	428.00
19	418.00
20	415.00
21	414.00
22	387.00
23	374.00
24	356.00
25	340.00
26	298.00
27	285.00

T(YR)	KG	X
1.00	-3.9413	62.58
2.00	-0.1643	463.70
3.00	0.2538	508.10
4.00	0.5214	536.52
5.00	0.7195	557.56
6.00	0.8770	574.23
7.00	1.0079	588.19
8.00	1.1198	600.07
9.00	1.2177	610.46
10.00	1.3046	619.69

\*\* X: RAINFALL(MM) \*\*

T(YR)	KG	X
10.00	1.3046	619.69
20.00	1.8658	679.30
30.00	2.1887	713.59
40.00	2.4163	737.76
50.00	2.5923	756.45
60.00	2.7358	771.69
70.00	2.8569	784.55
80.00	2.9617	795.88
90.00	3.0541	805.50
100.00	3.1367	814.27

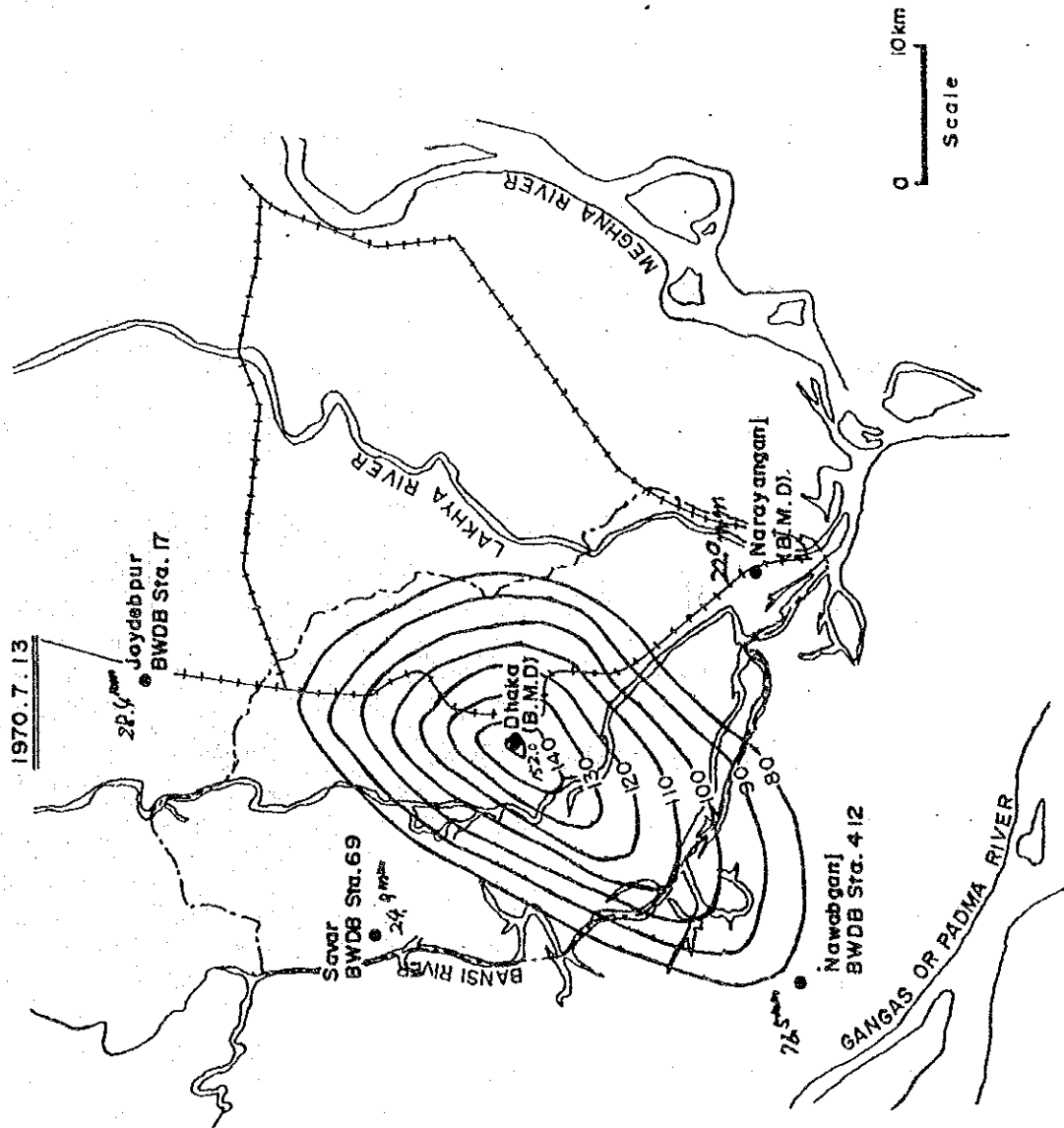
\*\* X: RAINFALL(MM) \*\*

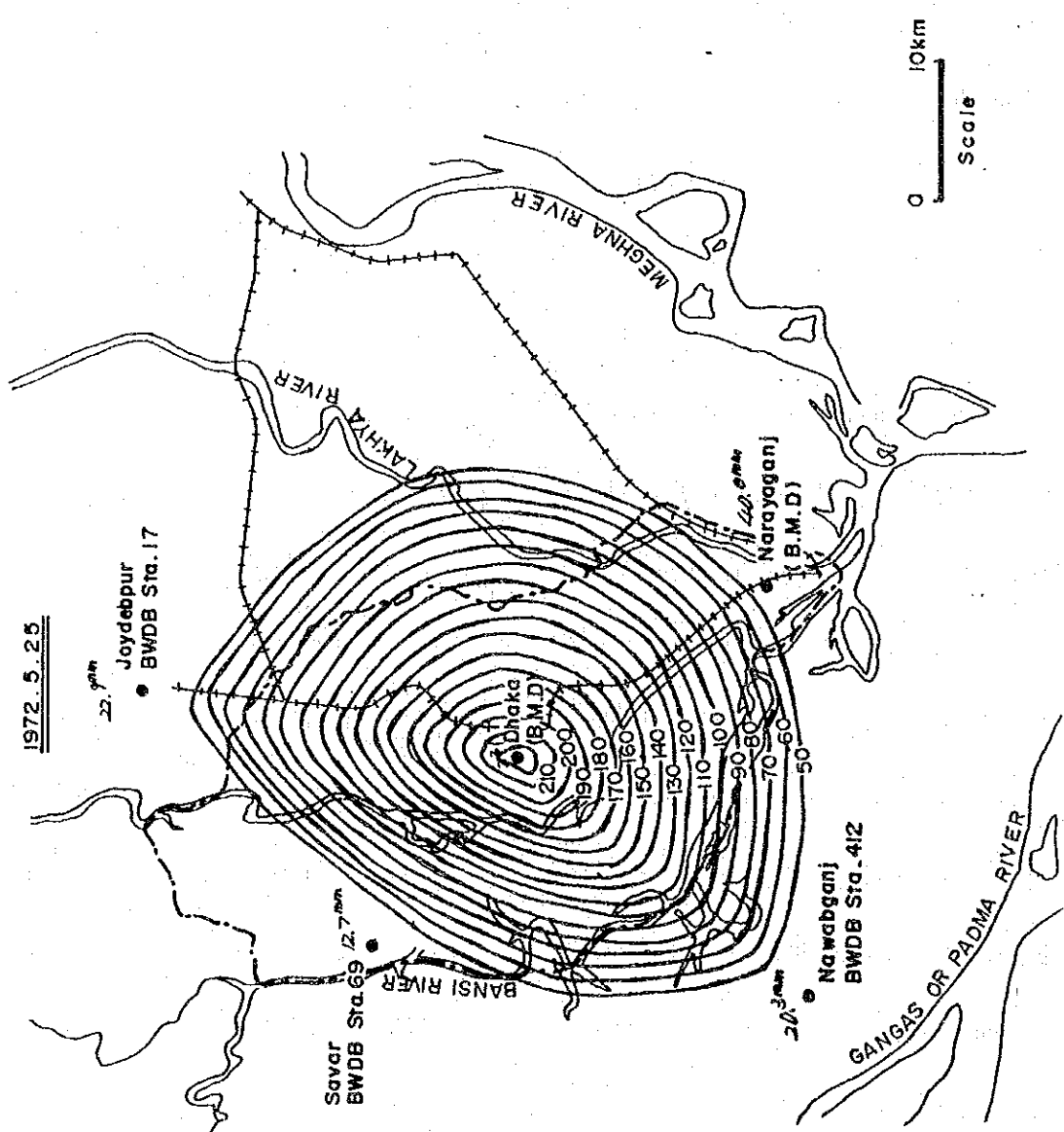
XM = 481.1482  
STANDARD DEVIATION  
SG = 106.2006

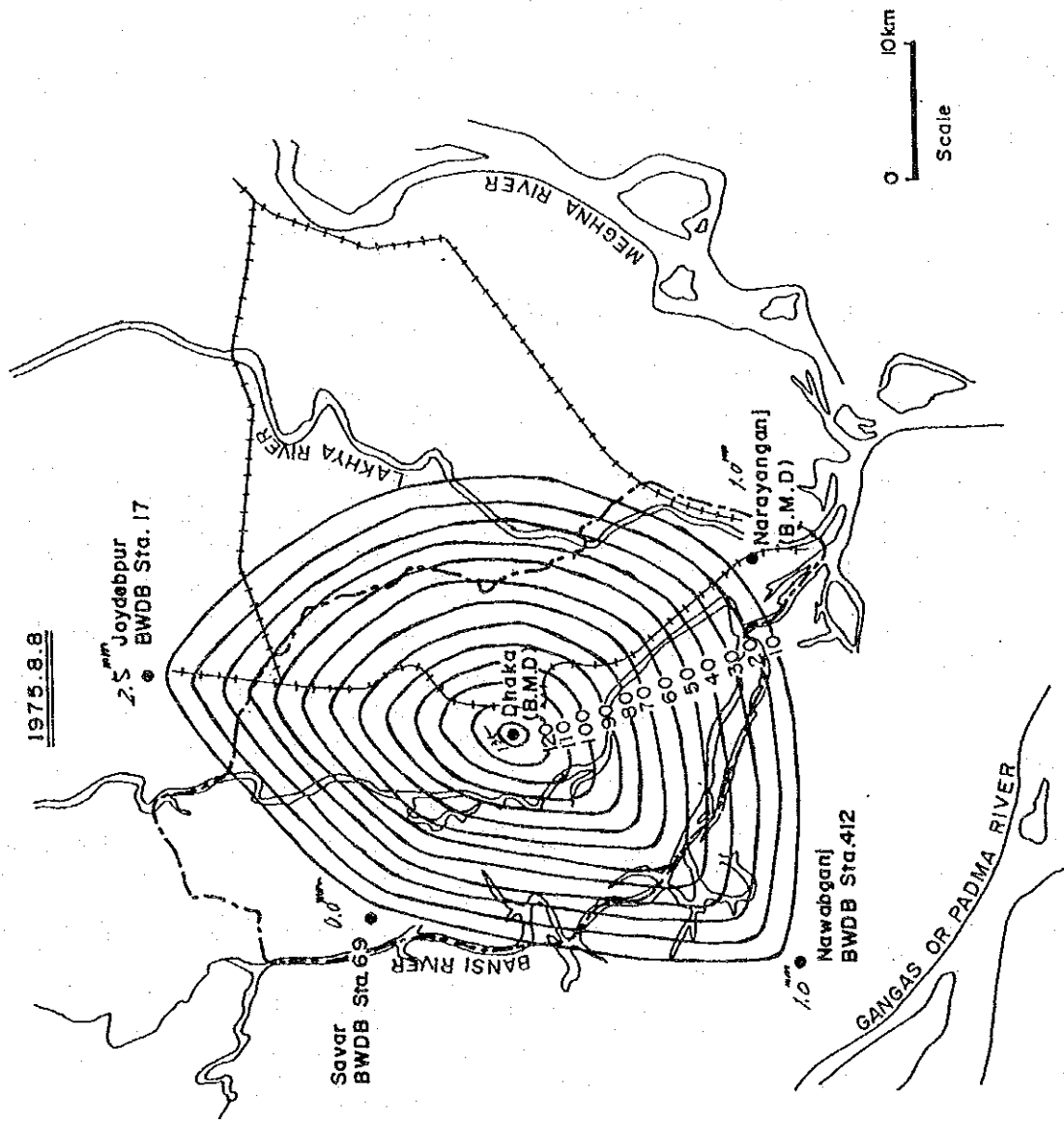


### **3. Isohyetal Maps of Areal Reduction of Dhaka (B.M.D.)**











#### **4. Monthly Water Level in and around the Study Area**





# 4.1 Monthly Maximum Water Level

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.7 PUBAIL (BWDB)														
RIVER : BALU														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1945	-	-	-	-	-	-	4.85	5.82	5.73	-	-	-	-
2	1946	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1947	1.46	1.31	1.43	2.01	2.23	3.82	5.02	5.83	5.23	4.68	3.71	1.98	3.20
4	1948	1.46	1.28	1.31	1.95	3.29	4.54	5.52	5.82	5.35	4.94	3.52	2.07	3.42
5	1949	-	-	-	-	-	-	-	-	-	-	-	-	-
6	1950	1.40	1.40	1.40	1.77	2.29	4.04	4.79	5.41	5.43	4.67	3.93	2.28	3.16
7	1951	-	-	-	-	-	-	-	-	-	-	-	-	-
8	1952	1.22	1.10	1.22	2.04	2.19	3.26	5.18	5.06	5.41	5.20	4.07	2.32	3.19
9	1953	1.37	1.34	-	-	-	-	-	-	-	-	-	-	-
10	1954	-	-	-	-	2.62	4.67	5.64	6.52	6.65	4.80	3.63	1.83	-
11	1955	-	-	-	-	-	-	-	-	-	-	-	-	-
12	1956	2.64	2.39	2.61	3.00	-	5.95	6.31	5.90	6.19	5.64	3.98	2.42	-
13	1957	1.87	1.81	1.72	2.21	-	4.07	5.05	5.92	5.61	4.39	2.94	1.94	-
14	1958	1.72	1.66	1.63	1.97	3.09	3.66	4.39	6.31	6.54	5.58	4.28	2.58	3.62
15	1959	1.81	1.90	2.15	2.39	3.43	4.89	5.38	5.08	5.85	5.38	4.27	2.68	3.85
16	1960	1.97	1.84	1.78	2.00	2.85	3.92	5.66	5.75	6.17	6.17	3.84	2.27	3.69
17	1961	1.94	1.72	2.39	2.21	3.29	4.39	4.85	5.60	5.70	-	-	-	-
18	1962	-	-	-	2.29	3.29	4.39	5.76	6.67	6.92	5.98	3.70	2.92	-
19	1963	1.89	1.81	1.80	-	-	-	-	-	-	-	-	-	-
20	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
22	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
23	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
24	1968	-	-	-	-	-	-	-	-	-	-	-	-	-
25	1969	-	-	-	2.30	2.80	4.45	5.81	6.16	6.19	5.59	3.41	2.29	-
26	1970	1.89	1.80	2.15	2.92	3.52	4.68	6.17	6.74	6.11	5.90	4.48	2.65	4.03
27	1971	2.03	1.97	1.84	2.55	2.76	4.79	5.91	6.42	6.42	5.46	4.24	2.71	3.93
28	1972	2.23	1.84	2.01	2.93	3.23	4.45	5.03	5.64	5.06	4.60	3.02	2.04	3.46
29	1973	1.72	1.74	1.86	2.39	3.78	5.67	5.68	6.25	5.90	5.72	4.08	2.76	3.96
30	1974	2.12	1.76	2.03	2.43	3.37	4.56	6.44	6.95	6.42	5.93	3.95	2.67	4.05
31	1975	1.89	1.89	1.89	2.61	3.09	3.84	5.41	5.73	5.43	5.18	3.92	2.56	3.62
32	1976	2.01	1.81	2.01	2.26	2.82	4.47	5.64	5.50	5.52	4.88	3.11	2.35	3.53
33	1977	1.84	1.74	1.86	2.61	3.58	5.17	5.64	5.93	6.03	5.00	3.72	2.47	3.80
34	1978	1.90	1.77	1.75	-	-	-	-	-	-	-	-	-	-
35	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
36	1980	-	-	-	2.24	3.28	4.39	5.39	6.66	6.66	5.29	3.89	2.33	-
37	1981	1.83	1.65	1.77	-	-	-	-	-	-	-	-	-	-
38	1982	-	-	-	-	-	-	-	-	-	-	-	-	-
39	1983	-	-	-	2.56	3.16	4.15	5.05	5.79	6.05	5.97	4.29	2.59	-
40	1984	2.01	1.74	1.93	2.38	3.91	5.02	6.05	6.35	6.29	6.18	3.76	2.12	3.98
41	1985	1.69	1.73	2.16	2.38	2.88	4.47	5.46	5.83	5.39	5.03	3.96	2.43	3.62
42	1986	1.83	1.64	1.89	2.49	2.75	3.80	5.20	5.29	5.62	5.70	4.23	2.73	3.60
43	1987	1.84	1.68	1.75	2.43	2.84	3.97	5.83	6.90	6.58	6.04	3.96	2.53	3.85
44	1988	1.97	1.77	1.98	2.34	4.34	4.74	6.05	6.58	7.29	5.30	3.77	3.17	4.11
45	1989	1.78	1.83	1.83	2.23	3.24	4.37	5.47	5.42	5.17	5.13	4.07	2.97	3.58
46	1990	1.72	1.73	2.25	-	-	-	-	-	-	-	-	-	-
AVER(1)	1.83	1.71	1.87	2.31	3.10	4.43	5.49	6.02	5.96	5.37	3.82	2.41	3.68	-

Notes: 1) AVER(1) is average of all data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.7.5 DEMPA (BWDB)														
RIVER : BALU														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1962	-	-	-	2.44	3.32	4.33	5.20	6.22	6.28	5.33	3.29	2.26	-
2	1963	-	-	-	2.38	2.77	4.75	5.64	5.73	5.91	4.65	3.69	2.53	-
3	1964	2.16	1.89	2.13	2.47	3.14	4.48	5.81	6.39	5.64	5.29	3.81	2.32	3.79
4	1965	1.62	1.47	1.40	1.98	2.86	4.20	4.84	5.97	6.23	5.07	2.66	1.97	3.29
5	1966	2.07	1.43	1.46	1.88	2.55	4.61	5.30	5.97	6.23	5.07	2.66	2.08	3.46
6	1967	1.81	1.53	1.62	1.93	2.75	3.90	5.42	5.26	4.88	4.82	2.96	2.04	3.24
7	1968	1.62	1.47	1.65	2.53	2.96	4.68	6.02	6.07	5.33	5.01	3.22	2.10	3.56
8	1969	1.80	1.86	2.09	-	-	-	-	-	-	4.94	2.94	2.38	-
9	1970	2.07	1.92	2.21	2.39	3.49	4.69	5.90	6.23	5.53	5.49	3.95	-	-
10	1971	-	-	-	2.41	2.73	4.56	5.46	6.02	6.02	5.14	4.15	2.58	-
11	1972	2.26	1.95	2.16	2.53	3.20	4.60	4.91	5.93	4.89	4.13	2.56	2.76	3.49
12	1973	1.84	1.89	1.83	2.48	3.37	5.36	5.49	5.87	5.52	5.29	3.52	3.08	3.80
13	1974	2.24	1.84	2.13	2.51	3.41	4.57	6.13	6.57	5.90	5.49	3.66	2.77	3.94
14	1975	2.18	2.04	2.03	2.65	3.04	3.88	5.27	5.59	5.18	4.95	3.77	2.68	3.61
15	1976	2.10	1.88	2.19	2.50	2.85	4.30	5.46	5.35	5.35	4.48	2.67	2.33	3.46
16	1977	2.06	1.95	2.01	2.73	3.82	5.01	5.53	5.84	5.91	4.74	3.28	2.65	3.79
17	1978	2.06	2.01	1.97	-	-	-	-	-	-	-	-	-	-
18	1979	-	-	-	2.33	3.06	3.78	5.27	5.58	5.30	4.69	3.20	2.58	-
19	1980	1.98	2.10	2.27	-	-	-	-	-	-	-	-	-	-
20	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1982	-	-	-	2.58	2.77	4.57	4.98	5.49	5.99	4.60	2.72	2.19	-
22	1983	2.02	1.85	2.14	2.79	3.23	4.17	4.96	5.66	5.89	5.74	3.71	2.54	3.73
23	1984	2.30	1.81	2.07	2.90	3.85	5.09	5.95	6.26	6.32	6.06	3.43	2.39	4.04
24	1985	2.08	2.25	2.58	2.82	3.31	4.39	5.42	5.69	5.23	4.81	3.69	2.52	3.73
25	1986	2.02	1.90	2.17	2.89	2.99	3.98	4.97	5.24	5.19	5.06	3.81	2.66	3.57
26	1987	2.03	1.91	2.04	2.58	2.68	4.00	5.68	6.45	6.08	5.77	3.45	2.62	3.77
27	1988	2.13	2.17	2.31	2.84	4.23	4.66	5.95	6.68	7.09	4.97	3.50	2.84	4.11
28	1989	2.08	2.24	2.27	2.52	3.49	4.45	5.43	5.35	5.05	4.96	3.64	2.34	3.65
29	1990	2.00	2.07	2.28	-	-	-	-	-	-	-	-	-	-
	AVER(1)	2.02	1.89	2.04	2.50	3.16	4.46	5.46	5.88	5.69	5.06	3.37	2.47	3.67
Notes:														
1) AVER(1) is average of all data.														
2) Above data are necessary to be revised by using following equation to get the correct elevation.														
Y=X + 0.007														
where, X : raw data Y : revised data														

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.14.5 NAVARHAT (BWDB)														
RIVER : BANGSHI														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD.in.m)														
1	1964				3.05	3.93	5.78	7.35	8.16	7.01	6.88	4.91	2.82	-
2	1965	2.09	1.92	1.83	2.53	3.66	5.52	6.26	7.62	7.44	6.51	3.73	2.49	4.30
3	1966	2.14	1.90	1.93	2.37	3.11	5.38	6.66	7.60	8.00	6.52	3.84	2.55	4.38
4	1967	2.03	1.83	2.03	2.29	3.37	5.42	7.07	6.97	6.44	6.42	4.13	2.59	4.22
5	1968	2.15	2.03	2.18	2.82	3.86	6.31	7.80	8.03	6.85	6.84	4.53	2.62	4.67
6	1969	2.00	1.87	2.16	2.59	4.18	6.04	7.39	7.51	7.55	6.49	3.60	2.55	4.49
7	1970	2.10	1.84	2.33	2.74	4.73	6.02	8.29	8.69	6.98	7.48	4.73	2.72	4.89
8	1971	2.25	2.08	-	-	-	-	-	-	-	-	-	-	-
9	1972	-	-	-	2.58	4.20	5.84	6.23	6.97	6.21	5.71	3.50	2.20	-
10	1973	1.88	1.74	1.79	2.78	4.21	6.80	6.94	7.70	7.06	6.74	4.44	2.97	4.59
11	1974	2.24	1.83	2.04	2.58	3.78	5.76	7.50	8.44	7.90	6.89	4.31	2.74	4.67
12	1975	2.12	1.95	1.87	2.59	3.46	-	-	-	-	5.98	4.21	2.74	-
13	1976	2.18	1.83	1.88	2.30	3.05	5.48	6.44	6.41	6.41	5.56	3.16	2.45	3.94
14	1977	1.97	1.78	1.87	2.85	4.17	5.97	6.60	7.07	7.15	5.91	3.86	2.50	4.31
15	1978	2.08	1.78	1.76	2.26	4.20	5.87	6.26	6.48	6.07	5.77	3.22	2.52	4.02
16	1979	2.03	1.84	1.99	2.10	3.23	3.94	6.11	6.46	6.25	5.88	3.92	2.53	3.86
17	1980	1.98	1.77	1.95	2.54	3.63	5.33	6.66	8.58	8.23	6.19	4.45	2.45	4.48
18	1981	2.08	1.75	1.94	2.98	3.47	4.23	6.45	6.74	6.66	5.82	3.05	-	-
19	1982	2.71	1.99	1.71	2.72	3.35	5.49	5.91	6.34	6.23	5.80	2.89	2.30	3.94
20	1983	1.99	1.84	2.27	2.88	3.82	5.07	5.90	6.56	7.28	7.15	4.81	2.65	4.95
21	1984	2.19	1.86	2.02	2.74	4.66	6.04	7.33	7.81	8.12	7.70	4.32	2.32	4.76
22	1985	1.92	1.84	2.55	2.56	3.32	5.31	6.74	7.04	6.43	6.03	4.35	2.59	4.22
23	1986	2.20	1.79	2.00	2.78	2.95	4.94	5.96	6.33	6.77	6.73	4.77	2.77	4.17
24	1987	2.09	1.92	1.85	2.67	2.68	4.82	6.74	8.74	7.75	7.27	4.32	2.57	4.45
25	1988	2.14	1.90	2.10	2.63	4.72	5.39	7.18	9.25	9.90	6.06	4.12	3.53	4.91
26	1989	2.05	2.01	1.94	2.37	3.89	5.14	6.21	6.10	6.09	6.04	4.42	2.49	4.05
27	1990	1.93	1.90	2.29	-	-	-	-	-	-	-	-	-	-
AVER(1)		2.10	1.87	2.02	2.61	3.75	5.52	6.75	7.40	7.11	6.40	4.06	2.61	4.37

Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.42 MILL BARAK (BWDB)														
RIVER : BURIGANGA														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1945	-	-	-	2.44	2.90	-	5.10	6.00	5.22	5.22	-	-	2.29
2	1946	1.80	1.74	1.89	2.19	3.54	4.48	5.99	6.00	5.20	4.74	-	-	2.68
3	1947	1.98	1.86	2.04	2.74	2.71	4.18	5.49	5.64	5.13	4.72	-	-	2.59
4	1948	1.98	1.95	2.07	2.59	3.60	-	5.81	6.30	5.38	5.12	-	-	2.68
5	1949	1.92	1.71	2.10	3.17	3.41	-	5.63	6.00	6.00	5.18	3.49	1.91	-
6	1950	1.80	1.86	1.83	2.35	2.87	-	4.99	5.71	5.76	4.52	3.02	1.89	-
7	1951	1.82	1.43	1.99	1.98	2.24	4.01	5.94	-	-	-	-	1.93	-
8	1952	2.04	2.04	-	2.19	2.87	3.59	5.39	4.85	5.49	5.00	3.66	2.44	-
9	1953	2.04	2.04	2.44	2.50	3.02	3.75	5.49	5.70	5.39	5.06	3.05	2.04	3.60
10	1954	1.77	1.89	1.92	2.19	2.99	5.06	6.10	6.98	7.06	5.06	3.63	2.19	3.90
11	1955	1.92	1.98	2.32	2.35	3.11	4.54	7.09	6.14	6.14	4.92	3.23	2.47	-
12	1956	1.89	1.62	1.80	1.98	3.75	5.61	5.68	5.30	5.52	4.65	3.32	2.92	3.62
13	1957	1.52	1.40	1.43	1.83	2.74	3.66	4.56	5.36	4.72	3.50	2.23	1.74	2.90
14	1958	1.52	1.58	1.58	2.01	3.11	3.63	4.19	6.39	6.45	4.94	3.47	2.44	3.45
15	1959	-	-	-	2.53	3.20	4.94	5.00	5.78	5.27	4.91	3.72	2.50	-
16	1960	1.83	1.71	1.71	1.92	2.87	3.58	5.49	6.10	6.10	5.70	3.14	2.26	3.48
17	1961	1.98	1.66	2.47	2.19	3.20	3.99	4.54	5.49	5.52	-	-	-	-
18	1962	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
22	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
23	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
24	1968	1.76	1.86	-	2.45	2.91	4.74	6.25	6.34	5.43	5.14	3.09	2.09	-
25	1969	1.76	1.86	1.96	2.29	2.82	4.28	5.68	5.93	5.93	4.95	2.80	2.32	3.55
26	1970	1.98	1.86	2.12	2.32	3.32	4.57	6.17	6.51	5.51	5.12	3.78	2.47	3.84
27	1971	2.07	2.07	1.89	2.04	2.53	4.33	5.46	6.23	6.20	5.14	4.01	2.41	3.70
28	1972	2.12	1.83	2.07	2.47	3.11	4.47	4.77	5.30	4.79	4.02	2.50	2.06	3.29
29	1973	1.77	1.77	1.71	2.39	3.11	5.17	5.27	5.88	5.38	5.11	3.35	2.80	3.64
30	1974	1.80	1.80	2.13	2.45	3.35	4.39	5.96	6.61	5.94	5.32	3.47	2.62	3.85
31	1975	2.07	2.00	1.98	2.58	2.93	3.78	5.03	5.43	5.01	4.53	3.63	2.61	3.47
32	1976	2.04	1.94	2.16	2.47	2.77	3.98	5.15	5.17	5.15	4.27	2.48	2.24	3.32
33	1977	1.92	1.83	-	2.58	3.61	4.50	5.21	5.58	5.64	4.37	2.97	2.48	-
34	1978	1.95	1.89	1.89	2.16	3.41	4.47	4.83	5.26	4.77	4.54	2.85	2.41	3.37
35	1979	2.00	1.80	2.09	2.13	2.76	3.51	4.91	5.29	4.89	4.34	2.99	2.35	3.26
36	1980	1.86	-	-	-	-	-	-	-	-	-	-	-	-
37	1981	-	-	-	2.53	2.81	3.40	5.11	5.46	5.29	4.45	2.82	2.85	-
38	1982	2.01	1.73	1.94	-	-	-	-	-	-	-	-	-	-
39	1983	-	-	-	2.63	3.02	3.98	4.74	5.32	5.77	5.52	3.69	2.44	-
40	1984	2.26	2.01	2.19	2.69	3.77	4.62	5.69	5.91	6.04	5.62	2.98	2.10	3.82
41	1985	1.85	1.90	2.25	2.42	3.07	4.11	5.12	5.41	5.01	4.63	3.50	2.37	3.47
42	1986	1.92	1.69	1.95	2.54	2.74	3.72	4.68	5.00	4.98	4.77	3.67	2.42	3.34
43	1987	1.92	1.78	1.92	2.42	2.42	3.79	5.36	6.64	5.93	5.59	3.26	2.36	3.62
44	1988	1.99	1.99	2.16	2.66	3.94	4.23	5.73	7.03	7.58	4.63	3.35	2.59	3.99
45	1989	1.90	2.04	2.08	2.21	3.38	4.15	5.10	4.93	4.72	4.67	3.26	2.17	3.38
46	1990	1.87	1.93	2.26	-	-	-	-	-	-	-	-	-	-
AVER(1)		1.91	1.83	2.01	2.37	3.03	4.22	5.32	5.82	5.59	4.88	3.24	2.35	3.54

Notes: 1) AVER(1) is average of all the data.

2) Above data are necessary to be revised by using following equation to get the correct elevation.

$$Y_{\text{revised}} = Y_{\text{raw}} - 0.037 \text{ where } X : \text{Above raw data } Y : \text{revised data}$$

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.43 HARIHARPARA (BWDB)														
RIVER : BURIGANGA														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
		(Unit : PWD.in.m)												
1	1945													
2	1946	1.68	1.77	1.49	2.13	2.80	4.19	5.28	5.18	5.12	4.67	3.63	2.52	3.98
3	1947	1.80	1.43	1.80	2.62	2.13		4.89		4.83				
4	1948													
5	1949				3.20	3.79	4.82	5.53	5.94	5.79				
6	1950													
7	1951													
8	1952													
9	1953				2.29	2.90	3.41	5.00	5.24	5.12	4.71	2.74	1.43	
10	1954	1.07	1.22	1.37	2.77	2.77	4.57	5.49	6.16	6.22	4.54	3.05	1.89	3.55
11	1955	1.52	1.46	1.92	2.07	2.74	4.11	5.41	6.40	5.61	4.59	3.05	2.01	3.41
12	1956	1.16	1.83	1.86	2.16	3.08	4.79	4.82	4.59	4.79	3.81	3.20	2.19	3.19
13	1957	1.65	1.40	1.37	1.89	2.65	3.86	4.36	5.06	4.51	3.51	2.29	1.55	2.82
14	1958	1.52	1.52	1.52	1.77	2.99	3.54	3.91	5.72	5.73				
15	1959				2.23	2.87	4.69	4.68	5.33	4.85	4.47	3.47	2.32	
16	1960	1.65	1.65	1.66	1.74	2.74	3.95	5.15	5.15	5.53	5.30	2.96	2.07	3.25
17	1961	1.74	1.52	2.32	2.07	2.87	3.72	4.24	5.11	5.12				
18	1962													
19	1963													
20	1964													
21	1965													
22	1966													
23	1967													
24	1968				2.27	2.65	4.39	5.82	5.65	5.06	4.75	2.83	1.82	
25	1969	1.59	1.66	1.72	2.33	2.81	4.11	5.37	5.63	5.63	4.68	2.93	1.89	3.96
26	1970	1.78	1.68	1.81	2.13	3.14	4.37	5.72	6.04	5.24	5.21	3.52	2.23	3.57
27	1971	1.92	1.76	2.00	2.09	2.58	4.23	5.14	5.85	5.81	4.85	3.79	2.19	3.52
28	1972	1.69	1.69	1.89	2.26	2.88	4.24	4.57	5.01	4.56	3.75	2.37	1.93	3.07
29	1973	1.68	1.71	1.58	2.23	3.03	4.86	5.00	5.95	5.11	4.85	3.32	2.80	3.48
30	1974	2.01	1.68	1.89	2.16	2.93	4.19	5.64	6.34	5.55	4.98	3.23	2.48	3.59
31	1975	1.86	1.72	1.75	2.50	2.73	3.61	4.88	5.23	5.06	4.36	3.54	2.42	3.31
32	1976	1.80	1.65	1.89	2.16	2.53	3.72	4.92	4.98	4.91	3.87	2.42	2.07	3.08
33	1977	1.77	1.74	1.80	2.38	3.31	4.27	5.01	5.34	5.39	4.23	2.89	2.34	3.37
34	1978	1.79	1.62	1.80	2.11	3.60	4.19	4.59	5.05	4.59	4.24	2.81	2.33	3.23
35	1979	1.79	1.72	1.72	1.96	2.27	3.25	4.77	5.08	4.69	4.19	2.79	2.29	3.04
36	1980	1.72	1.48	1.62										
37	1981													
38	1982													
39	1983				2.58	2.88	3.75	4.45	4.93	5.43	5.19	3.36	2.52	
40	1984	1.81	1.71	1.92	2.51	3.49	4.45	5.49	5.65	5.72	5.29	2.62	1.97	3.55
41	1985	1.67	1.88	2.02	2.19	2.61	3.95	4.99	5.12	4.74	4.39	3.25	2.31	3.25
42	1986	1.93	1.57	1.73	2.49	2.55	3.37	4.61	4.82	4.65	4.43	3.53	2.36	3.17
43	1987	1.73	1.55	1.56	2.15	2.29	3.56	5.11	6.23	5.57	5.30	3.12	2.20	3.96
44	1988	1.83	1.85	1.93	2.23	3.70	3.93	5.33	6.42	7.17	4.47	3.18	2.36	3.70
45	1989	1.58	1.64	1.70	2.02	2.96	3.96	4.78	4.63	4.40	4.32	5.03	1.82	3.07
46	1990	1.85	1.90	1.98										
AVER(1)		1.70	1.64	1.77	2.22	2.88	4.04	5.00	5.45	5.24	4.55	3.09	2.16	3.31

Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.69 SAVAR (BWDB)														
RIVER : DHALESWARI														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit: PWD in m)														
1	1945				2.53	3.17	5.29	6.57	7.41	7.10		4.60		
2	1946	2.07	1.92	2.04	2.50	4.18	5.55	6.88	6.84	6.22	5.73	4.63	2.88	4.27
3	1947	1.98	1.77	1.89	2.80	2.99	5.15	6.45	6.98	6.34	5.73	4.57	2.80	4.12
4	1948	1.98	1.92	2.07	2.87	4.53	3.99	7.13	7.20	6.54	6.16			
5	1949	2.13	1.74	2.07	3.05	3.99	5.95	6.78	7.23	7.22	6.17	4.99	2.92	4.42
6	1950	1.86	1.83	1.83	2.41	3.29	5.79		6.99	7.04	5.59	3.93	2.77	
7	1951	2.07	2.10	2.07	2.71	3.29	5.85	7.35	7.16	6.97	6.80	3.55	2.62	4.34
8	1952				2.16	3.47	4.74	7.10	6.57	7.10	6.81	4.88	2.68	
9	1953	1.80	1.83	2.26	2.99	3.87	4.82	6.79	7.06	6.92	6.54	3.60	2.26	4.23
10	1954	1.74	1.80	1.86	2.53	4.02	6.37	7.48	8.12	8.17	6.18	4.34	2.65	4.61
11	1955	1.98	1.92	2.33	2.87	3.61	5.70	7.41	8.28	6.84	5.72	3.79	2.87	4.43
12	1956	2.04	1.77	2.06	2.98	5.04	6.83	6.83	6.58	6.77	5.81	4.01	2.53	4.39
13	1957	2.13	2.01	1.98	2.44	3.90	5.20	6.12	7.20	6.22	4.93	2.85	2.07	3.92
14	1958	1.89	1.94	1.74	2.23	3.84	4.75	5.28	7.85	7.93				
15	1959	1.91	1.95	2.38	2.83	4.11	6.31	6.96	7.12	6.52	6.08	4.54	2.56	4.39
16	1960	2.07	2.10	2.10	2.38	3.19	4.89	7.05	7.03	7.57	7.10	3.81	2.82	4.33
17	1961	2.19	1.83	2.80	2.47	4.42	5.46	6.49	7.28	7.30	6.23	4.80	2.50	4.48
18	1962													
19	1963													
20	1964													
21	1965													
22	1966													
23	1967													
24	1968				2.83	3.95	6.22	7.55	7.89	6.70	6.66	4.57	2.80	
25	1969	2.32	2.19	2.15	2.62	4.05	5.81	6.98	7.06	7.08	6.17	3.54	2.51	4.37
26	1970	2.10	1.86	2.32	2.71	4.66	5.84	7.45	7.99	6.66	6.91	4.64	2.74	4.66
27	1971	2.29	2.06	2.13	2.41	3.02	5.76	6.71	7.96	7.35	5.17	5.00	2.72	4.42
28	1972	2.28	1.89	1.95	2.57		5.69	6.03	6.66	5.99	6.34	5.98	2.16	
29	1973	1.91	1.65	1.74	2.76	4.14	6.57	6.64	7.21	6.88	6.42	4.18	2.73	4.40
30	1974	2.26	1.80	1.98	2.61	3.78	5.63	7.07	7.80	7.36	6.65	4.90	2.80	4.50
31	1975	2.09	1.95	1.63	2.77	3.45							2.89	
32	1976	2.22	1.96	1.91	2.26	3.11	5.41	6.31	6.24	6.24	5.44	3.17	2.40	3.89
33	1977	1.83	1.58	1.80		4.04	5.78	6.89	6.83	6.88	5.75	3.82	2.50	
34	1978	2.04	1.73	1.69	2.21	4.08	5.68	6.06	6.28	5.82	5.55	3.22	2.70	3.92
35	1979	2.48	2.00	1.89										
36	1980													
37	1981													
38	1982													
39	1983				3.04	4.05	5.27	6.04	6.66	6.96	6.85	4.77	2.55	
40	1984	2.14	1.85	2.09	2.75	4.61	5.87	6.94	7.33	7.58	7.24	4.28	2.25	4.58
41	1985	1.84	1.78	2.43	2.75	3.40	5.24	6.44	6.70	6.18	5.79	4.28	2.49	4.11
42	1986	1.96	1.68	1.90	2.69	2.99	4.99	6.03	6.33	6.69	6.63	4.88	2.85	4.14
43	1987	2.03	1.82	1.79	2.84	2.76	4.96	6.68	8.30	7.34	6.99	4.26	2.51	4.36
44	1988	2.26	1.90	2.01	2.65	4.73	5.34	6.96	8.98	9.68	6.04	4.47	3.36	4.87
45	1989	2.91	2.05	2.30	2.98	3.80	5.45	6.34	6.22	6.17	6.13	4.98	2.48	4.21
46	1990	2.12	1.90	2.30										
AVER(1)		2.07	1.88	2.05	2.62	3.81	5.58	6.69	7.41	7.16	6.21	4.26	2.60	4.33

(Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO. 70 KALATA(BWDB)														
RIVER : DHALESWARI														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1968				2.43	3.48	5.43	6.75	6.84	5.90	5.84	3.78	2.35	
2	1969	1.76	1.73	1.91	2.34	3.50	5.13	6.27	6.43	6.48	5.48	3.07	2.26	3.86
3	1970	1.87	1.86	2.09	2.52	3.98	5.28	6.86	7.10	6.02	6.10	4.21	2.90	4.23
4	1971	1.93	1.87	1.74	2.11	2.82	5.16	6.11	6.81	6.76	5.65	4.46	3.69	4.09
5	1972	2.07	1.71	1.98	2.53	3.69	5.09	5.81	6.07	5.39	4.80	2.77	2.00	3.64
6	1973	1.65	1.65	1.82	2.51	3.72	5.94	6.00	6.55	6.10	5.75	3.95	2.77	4.02
7	1974	2.07	1.62	1.98	2.47	3.75	5.15	6.39	7.12	6.55	6.01	4.09	2.84	4.17
8	1975	2.84	2.89	1.49	-	-	-	-	-	-	5.25	3.76	2.64	-
9	1976	1.96	1.77	2.05	2.51	3.18	4.24	5.74	5.98	5.61	-	-	-	-
10	1977	-	-	-	2.69	3.70	5.14	5.89	6.25	6.34	5.15	3.49	2.32	-
11	1978	1.77	1.68	1.69	-	3.73	5.13	5.46	5.83	5.46	5.12	2.93	2.33	-
12	1979	1.65	1.63	1.91	-	-	-	-	-	-	-	-	-	-
13	1980	-	-	-	2.96	3.31	4.82	6.05	7.21	6.83	5.32	3.83	2.04	-
14	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1982	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1983	-	-	-	2.70	3.53	4.58	5.37	5.75	6.38	6.25	4.23	2.28	-
17	1984	1.90	1.66	1.97	2.75	4.37	5.30	6.39	6.94	7.11	6.77	4.22	2.20	4.32
18	1985	1.85	1.74	2.20	2.66	3.25	4.79	5.95	6.18	5.84	5.45	4.08	2.35	3.86
19	1986	1.82	1.58	1.82	2.80	2.82	4.70	5.75	6.10	6.20	6.05	4.36	2.58	3.88
20	1987	1.80	1.75	1.85	2.68	2.90	4.76	6.15	7.53	6.69	6.39	3.99	2.47	4.58
21	1988	1.98	1.93	1.96	2.42	4.28	4.76	6.36	7.85	8.91	5.80	4.23	3.12	4.47
22	1989	1.92	2.05	2.08	2.47	3.50	4.93	5.32	5.78	5.72	5.88	4.15	2.40	3.88
23	1990	1.96	1.80	2.10	-	-	-	-	-	-	-	-	-	-
AVER(1)		1.94	1.82	1.91	2.53	3.53	5.02	6.07	6.57	6.35	5.72	3.87	2.53	4.04

Notes: (1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.71 KALAGACHIA(BWDB)														
RIVER : DHALESWARI														
NO.	YEAR	JAN	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1977	-	-	-	-	3.56	4.32	5.02	5.31	5.34	4.13	2.91	2.42	-
2	1978	1.92	1.83	1.80	2.13	3.47	4.36	4.65	5.03	4.65	4.48	2.33	2.38	3.29
3	1979	2.03	1.98	2.13	2.73	3.09	4.13	5.01	-	-	-	-	-	-
4	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
5	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
6	1982	-	-	-	-	-	-	-	-	-	-	-	-	-
7	1983	-	-	-	2.70	2.95	4.12	4.54	5.03	5.44	5.04	3.85	2.98	-
8	1984	2.02	1.87	2.29	2.64	3.84	4.55	5.91	5.58	5.43	4.86	2.99	2.03	3.67
9	1985	1.85	1.93	2.19	2.35	2.72	4.13	4.93	5.06	4.85	4.53	3.49	2.24	3.36
10	1986	1.94	1.71	1.84	2.48	2.66	3.66	4.56	4.65	4.57	4.42	3.44	2.32	3.19
11	1987	1.85	1.65	1.73	2.52	2.55	3.49	5.15	5.92	5.53	5.11	3.12	2.21	3.40
12	1988	1.75	1.82	2.00	2.35	3.60	3.86	5.09	5.84	5.97	4.11	3.07	2.32	3.48
11	1989	1.70	1.85	1.93	2.35	3.32	4.13	5.04	4.87	4.59	4.56	3.25	2.12	3.31
12	1990	1.80	1.60	1.82	-	-	-	-	-	-	-	-	-	-
AVER(1)		1.87	1.80	1.97	2.47	3.18	4.08	4.99	5.25	5.15	4.58	3.22	2.34	3.39

Notes: 1) AVER(1) is average of all the data.



MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.71A REKABI BAZAR(BWDB)														
RIVER : DHALESWARI														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1968				2.51	3.10	4.75	5.73	5.75	4.97	4.69	2.90	1.97	
2	1969	1.66	1.72	1.81	2.24	2.83	4.18	5.26	5.47	5.46	4.54	2.77	2.09	3.34
3	1970	1.83	1.71	2.07	2.23	3.32	4.47	5.56	5.85	5.19	5.15	3.73	2.42	3.63
4	1971	2.07	1.93	2.23	2.23	2.69	4.24	5.11	5.71	5.72				
5	1972				2.95	3.03	4.33	4.63	5.00	4.62	3.69	2.44	1.95	
6	1973	1.75	1.71	1.74	2.95	3.08	4.92	5.06	5.46	5.06	4.63	3.38	2.83	3.51
7	1974	2.10	1.74	2.03	2.35	3.32	4.22	5.56	6.07	5.41	4.92	3.35	2.53	3.63
8	1975	1.98	1.98	1.77	2.59	2.88	3.69	4.85	5.18	4.83	4.33	3.58	2.56	3.35
9	1976	1.97	1.80	2.04										
10	1977				2.68	3.45	4.33	5.01	5.33	5.39	4.21	2.93	2.50	
11	1978	1.87	1.72	1.78										
12	1979													
13	1980				2.44	2.93	3.96	4.94	5.61	5.30	4.14	2.80	1.92	
14	1981	1.68	1.46	1.68										
15	1982													
16	1983				2.68	3.08	3.91	4.82	5.17	5.49	5.16	3.56	2.39	
17	1984	2.23	1.89	2.21	2.67	3.76	4.58	5.57	5.74	5.70	5.07	2.90	2.26	3.72
18	1985	1.92	1.98	2.14	2.42	3.08	4.19	5.04	5.28	4.89	4.53	3.52	2.47	3.46
19	1986	1.94	1.68	2.00	2.76	2.78	3.87	4.77	4.97	4.79	4.48	3.50	2.49	3.34
20	1987	1.94	1.76	2.00	2.56	2.50	3.95	5.25	6.02	5.58	5.21	3.15	2.31	3.52
21	1988	1.85	1.92	2.10	2.45	3.71	4.01	5.39	6.21	6.43	4.39	3.56	2.41	3.70
22	1989	1.85	1.96	1.99	2.37	3.37	4.17	5.10	4.96	4.67	4.62	3.39	2.21	3.39
23	1990	1.99	1.83	2.00										
	AVER(1)	1.91	1.80	1.97	2.46	3.11	4.23	5.14	5.52	5.26	4.62	3.22	2.33	3.51

Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.179 DEMRA (BWDB)														
RIVER : LAKHYA														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit : PWD in m)														
1	1952	-	-	-	2.29	3.02	3.75	5.58	5.18	5.58	5.27	4.08	2.74	-
2	1953	1.89	2.19	2.44	2.68	3.26	3.87	5.39	5.58	5.58	5.21	2.14	2.16	3.62
3	1954	1.77	1.83	1.86	2.29	3.60	4.94	5.85	6.46	6.52	5.09	3.54	2.16	3.83
4	1955	1.83	1.74	2.29	2.35	3.20	4.43	5.73	6.77	6.13	5.12	3.57	2.96	3.84
5	1956	2.13	1.86	1.83	2.41	3.99	5.67	5.73	5.46	5.64	4.80	2.38	3.70	3.70
6	1957	2.01	1.95	2.13	2.44	3.26	4.05	4.94	5.52	5.00	3.93	2.65	2.13	3.33
7	1958	1.92	1.92	1.86	2.19	3.41	3.87	4.33	5.94	5.97	5.03	3.57	2.68	3.56
8	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
9	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
10	1961	-	-	-	-	-	-	-	-	-	-	-	-	-
11	1962	-	-	-	-	-	-	-	-	-	-	-	-	-
12	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1965	1.62	1.50	1.50	1.91	3.78	4.21	4.85	5.83	5.78	4.92	2.71	2.05	3.39
15	1966	1.97	1.46	1.48	1.89	2.57	4.63	5.34	6.01	6.30	5.09	2.88	2.07	3.47
16	1967	1.76	1.57	1.57	1.91	2.73	3.93	5.46	5.28	4.91	4.85	3.05	2.07	3.26
17	1968	1.65	1.43	1.66	2.53	2.99	4.72	6.09	6.09	5.36	5.03	3.19	2.15	3.57
18	1969	1.84	1.90	2.15	2.37	3.04	4.46	4.63	5.87	5.87	4.99	3.00	2.42	3.55
19	1970	2.07	2.01	2.26	-	-	-	-	-	-	-	-	-	-
20	1971	-	-	-	2.51	2.79	4.60	5.52	6.08	6.08	5.20	4.21	2.56	-
21	1972	2.29	1.93	2.17	2.70	3.35	4.68	5.00	5.44	4.95	4.15	2.65	2.16	3.46
22	1973	1.77	1.94	1.84	2.44	3.43	5.36	5.49	5.88	5.55	5.33	3.57	3.03	3.80
23	1974	2.26	1.87	2.15	2.56	3.46	4.63	6.16	6.60	5.96	5.64	3.70	2.91	3.99
24	1975	2.16	2.18	2.01	2.72	3.26	3.96	5.28	5.60	5.16	4.75	3.63	2.74	3.62
25	1976	2.10	1.96	2.22	2.50	2.96	4.36	5.53	5.39	5.39	4.50	2.80	2.36	3.51
26	1977	2.03	1.86	1.92	2.62	3.73	4.91	5.46	5.76	5.81	4.66	3.22	2.56	-
27	1978	1.98	1.92	1.98	2.26	3.69	4.80	5.12	5.43	4.97	4.69	3.05	2.45	3.53
28	1979	2.00	1.81	2.10	2.23	3.05	3.70	5.15	5.49	5.21	4.62	3.09	2.53	3.42
29	1980	2.01	2.09	2.26	-	-	-	-	-	-	-	-	-	-
30	1981	-	-	-	2.75	2.87	3.61	5.42	5.65	5.43	4.61	2.99	2.95	-
31	1982	1.96	1.78	1.80	2.70	2.85	4.44	4.89	5.35	5.07	4.68	2.73	2.15	3.37
32	1983	2.03	2.03	2.45	2.81	3.14	4.09	4.89	5.47	5.81	5.54	3.69	2.45	3.70
33	1984	2.23	1.97	2.25	2.68	3.98	4.84	5.87	6.04	6.00	5.71	3.23	2.15	3.91
34	1985	1.87	1.97	2.33	2.55	3.15	4.32	5.37	5.14	5.14	4.74	3.58	2.43	3.59
35	1986	1.98	1.78	2.07	2.77	2.84	3.69	4.87	5.14	5.10	5.00	3.72	2.57	3.46
36	1987	1.97	1.90	2.00	2.50	2.55	3.89	5.57	6.38	6.03	5.68	3.35	2.44	3.69
37	1988	1.99	2.01	2.06	-	-	-	-	-	-	-	-	-	-
38	1989	-	-	-	1.75	2.47	4.33	5.34	5.20	4.93	4.88	3.54	2.25	-
39	1990	1.84	1.95	2.21	-	-	-	-	-	-	-	-	-	-
AVER(1)	1.96	1.87	2.03	2.42	3.19	4.37	5.34	5.74	5.56	5.68	4.96	3.28	2.43	3.59

Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.27.5 MEGHNA FERRY GHAT (BWDB)														
RIVER : SURMA-MEGHNA														
NO.	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
		(Unit: PWD in m)												
1	1968	1.65	1.55	1.92	2.35	2.77	4.48	5.68	5.68	4.98	4.68	3.06	1.97	
2	1969	1.88	1.88	1.92	2.27	3.17	4.33	5.40	5.63	5.60	4.79	2.94	2.43	3.47
3	1970	2.09	2.06	2.16	2.42	3.46	4.50	5.61	5.87	5.26	5.26	3.90	2.56	3.75
4	1971	2.21	2.06	2.41	2.39	2.74	4.45	5.18	5.75					
5	1972	2.26	2.10	2.15	2.51	3.11	4.50	4.78	5.11	4.74	3.87	2.59	2.13	3.32
6	1973	1.87	1.69	1.83	2.51	3.29	5.03	5.15	5.44	5.21	4.85	3.49	3.60	3.67
7	1974	2.16	1.90	2.16	2.56	3.41	4.43	5.75	6.19	5.55	5.09	3.58	2.94	3.81
8	1975	2.25	2.21	2.28	2.65	2.99	3.79	4.99	5.29	5.01	4.53	3.72	2.65	3.53
9	1976	2.03	1.91	2.21	2.47	2.80	4.22	5.32	5.15	5.12	4.19	2.61	2.51	3.38
10	1977	1.95	1.63	1.95	2.71	3.80	4.63	5.24	5.59	5.53	4.36	3.19	2.70	3.61
11	1978	1.97	1.83	1.88										
12	1979													
13	1980													
14	1981				2.73	3.06	3.37	5.08	5.40	5.18	4.47	2.93	2.86	
15	1982	1.95	1.69	1.78	2.73	3.00	4.14	4.81	5.19	4.99	4.64	2.69	2.10	3.31
16	1983	1.97	1.88	2.37	2.75	3.08	4.06	4.78	5.28	5.56	5.22	3.64	2.44	3.59
17	1984	2.19	2.07	2.20	2.49	3.84	4.58	5.57	5.73	5.67	5.20	3.18	2.19	3.74
18	1985	1.87	1.97	2.29	2.56	3.10	4.37	5.19	5.44	5.04	4.71	3.59	2.54	3.56
19	1986	2.02	1.77	2.07	2.87	2.86	3.71	4.72	5.03	4.88	4.61	3.77	2.65	3.41
20	1987	1.93	1.92	2.05	2.80	2.63	3.97	5.35	5.99	5.67	5.29	3.34	2.47	3.60
21	1988	2.03	2.03	2.14	2.77	4.15	4.48	5.73	6.41	6.55	4.70	3.34	2.69	3.92
22	1989	1.91	2.11	2.10										
23	1990													
AVER(1)		2.02	1.90	2.11	2.57	3.18	4.28	5.24	5.57	5.33	4.74	3.27	2.56	3.59

Notes: 1) AVER(1) is average of all the data.

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.299 TONGI (BWDE)														
RIVER : TONGIKHAL														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit: PWD in m)														
1	1960	-	-	-	1.83	2.70	3.78	5.73	6.28	6.05	6.05	3.38	2.03	-
2	1961	1.77	1.49	2.23	2.01	3.38	4.36	4.98	5.94	6.00	-	-	-	-
3	1962	1.95	2.04	1.95	2.01	3.12	4.33	5.32	7.10	7.15	5.72	3.37	2.13	3.89
4	1963	1.73	1.65	1.62	1.90	2.62	4.79	5.94	6.20	6.43	5.01	3.53	2.32	3.65
5	1964	1.92	1.46	1.77	2.61	3.17	4.51	6.19	6.88	6.01	5.66	4.01	2.41	3.88
6	1965	1.56	1.60	1.66	1.66	2.81	4.22	5.06	6.42	6.28	5.29	3.10	1.98	3.50
7	1966	1.72	1.50	1.62	1.91	2.32	4.70	5.45	6.34	6.60	5.32	3.14	2.07	3.56
8	1967	1.68	1.53	1.74	1.95	2.81	3.96	5.75	5.71	5.20	5.20	3.45	2.01	3.42
9	1968	1.56	1.59	1.67	2.19	2.87	4.85	6.41	6.58	5.64	5.27	3.76	2.03	3.70
10	1969	1.63	1.63	1.81	2.09	2.79	4.48	5.95	6.20	6.22	5.36	3.03	2.09	3.61
11	1970	1.83	1.71	1.97	2.16	3.49	4.77	6.52	6.99	5.93	5.93	4.08	2.36	3.98
12	1971	1.98	1.83	-	-	3.38	4.92	5.95	6.43	6.60	5.61	4.31	2.61	-
13	1972	2.03	1.74	1.83	2.28	3.23	4.63	5.63	5.68	5.03	4.45	2.71	1.79	3.37
14	1973	1.54	1.48	1.56	2.25	3.57	5.53	5.61	6.24	5.72	5.50	3.61	2.65	3.77
15	1974	1.92	1.57	1.85	2.33	3.28	4.59	6.90	6.98	6.34	-	3.63	2.47	-
16	1975	1.77	1.74	1.66	2.35	2.93	-	-	-	-	-	-	-	-
17	1976	-	-	-	2.09	2.71	-	-	-	-	-	-	-	-
18	1977	-	-	-	2.41	-	4.96	5.48	5.80	5.91	4.69	3.33	2.14	-
19	1978	1.66	1.43	1.53	2.04	3.78	4.74	5.08	5.44	5.02	4.73	2.82	2.11	3.37
20	1979	1.65	1.51	1.71	1.89	2.59	3.26	5.06	5.48	5.20	4.57	3.42	2.23	3.21
21	1980	1.59	1.56	1.72	2.20	3.17	4.31	5.46	6.87	6.60	4.95	3.43	1.97	3.66
22	1981	1.53	1.39	-	-	-	-	-	-	-	-	-	-	-
23	1982	-	-	-	2.27	2.63	4.45	4.78	5.58	4.99	4.78	2.54	1.81	-
24	1983	1.65	1.67	1.95	2.37	2.95	4.04	4.85	5.54	5.90	5.79	3.95	2.27	3.58
25	1984	1.80	1.58	1.71	2.25	3.75	4.85	5.89	6.26	6.28	6.05	3.99	1.90	3.81
26	1985	1.52	1.56	1.87	2.26	2.65	4.28	5.29	5.63	5.16	4.73	3.82	2.21	3.40
27	1986	1.67	1.45	1.67	2.35	2.53	3.78	4.94	5.16	5.38	5.34	3.86	2.38	3.39
28	1987	1.65	1.57	1.55	2.23	2.33	3.86	5.65	6.90	6.42	5.88	3.52	2.14	3.64
29	1988	1.72	1.55	1.85	-	-	-	-	7.13	7.84	-	-	-	-
30	1989	-	-	-	2.09	3.14	4.26	5.26	5.15	5.00	4.96	3.78	2.13	-
31	1990	1.52	1.60	2.03	-	-	-	-	-	-	-	-	-	-
AVER(1)		1.72	1.59	1.78	2.15	2.99	4.43	5.55	6.16	5.97	5.29	3.48	2.17	3.60
Notes: 1) AVER(1) is average of all the data.														
2) Above data are necessary to be revised by using following equation to get the correct elevation.														
$Y = X + 0.122$														
where, X : raw data      Y : revised data														

MONTHLY MAXIMUM WATER LEVEL														
STATION : NO.302 MIRPUR (BWDB)														
RIVER : TURAG														
NO.	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
(Unit: PWD In m)														
1	1953				2.80	3.40	4.18	5.88	6.23	6.04	5.79	3.40	2.27	
2	1954	2.00	2.00	2.10	2.53	3.35	5.32	6.63	7.53	7.60	5.43	3.93	2.35	4.23
3	1955	1.95	1.78	2.19	2.35	2.93	4.40	6.19	7.62	6.43	5.04	3.41	2.74	3.92
4	1956	2.09		2.12	2.23	3.93	5.90	5.99	5.67	5.93	5.11	3.60		
5	1957		2.01	2.01	2.41	3.23	3.95	5.06	6.16		4.11	2.53	2.09	
6	1958	1.90	2.01	1.86	2.18	3.19	3.73	4.33	7.04	7.13	5.30	3.76	2.50	3.74
7	1959				2.74	3.70	5.50	5.58	6.48	5.87	5.39	3.99	2.61	
8	1960	2.60	1.89	1.89	2.06	2.88	3.79	5.90	5.91	6.58	6.17	3.26	2.27	3.77
9	1961	2.04	1.71	2.47	2.21	3.29	4.11	4.80	5.90	5.94	4.98	3.72	2.16	3.61
10	1962	2.01	2.12	1.98	2.95	3.14	4.37	5.87	7.53	7.51	5.67	3.23	2.32	4.01
11	1963	1.98	2.07	1.95	2.23	2.47	4.82	6.08	6.45	6.71	4.98	3.63	2.77	3.85
12	1964	2.44	2.10	2.44	2.71	3.00	4.42	6.34	7.13	6.04	5.74	3.87	2.23	4.04
13	1965	1.53	1.41	1.39	1.84	2.65	3.96	5.06	6.52	6.37	5.34	2.78	1.89	3.40
14	1966	1.98	1.47	1.53	1.95	2.56	4.76	5.60	6.59	6.94	5.38	3.05	2.08	3.66
15	1967	1.71	1.56	1.65										
16	1968				2.56	2.93	4.88	6.55	6.72	5.62	5.39	3.94	2.07	
17	1969	2.08	2.04	2.36	2.62	3.22	4.57	6.10	6.31	6.33	5.32	2.91	2.33	3.85
18	1970	2.11	2.02	2.11	2.37	3.58	4.77	6.69	7.13	5.83	5.96	3.70	2.60	4.07
19	1971	2.24	2.15											
20	1972				2.44	3.16	4.59	5.03	5.70	5.01	4.34	2.55	2.17	
21	1973	1.83	1.83	1.82	2.43	3.25	5.47	5.58	6.32	5.78	5.48	3.45	2.83	3.84
22	1974	2.31	1.94	2.12	2.45	3.35	4.80	6.24	7.05	6.34	5.63	3.56	2.65	4.04
23	1975	2.11	2.05	2.87	2.56	3.02					4.69	3.61	2.51	
24	1976	2.04	1.92	2.16	2.41	2.83					4.49	2.82	2.31	
25	1977	1.99	1.81	1.93	2.66	3.59	4.82	5.46	5.86	5.95	4.64	3.15	2.45	3.69
26	1978	1.91	1.94	1.95	2.26	3.60	4.67	5.02	5.47	5.00	4.70	2.90	2.40	3.48
27	1979	1.97	1.85	2.14										
28	1980				2.70	2.95	3.47	5.40	5.75	5.60	4.75	2.85	2.74	3.02
29	1981				2.56	2.84	4.39	4.87	5.37	5.11	4.75	2.74	2.18	3.38
30	1982	1.88	1.80	1.93	2.80	3.12	4.08	4.87	5.54	5.99	5.84	3.75	2.41	3.72
31	1983	2.02	1.94	2.34	2.61	3.54	4.89	6.04	6.38	6.59	6.20	3.28	2.18	4.03
32	1984	2.19	2.01	2.21	2.61	3.94	4.89	5.43	5.75	5.22	4.78	3.65	2.44	3.61
33	1985	1.92	1.98	2.95	2.50	3.00	4.32	5.03	5.22	5.39	5.24	3.78	2.50	3.53
34	1986	2.01	1.84	2.14	2.65	2.75	3.86	4.91	5.22	5.39	6.01	3.44	2.48	3.84
35	1987	1.98	1.95	2.00	2.47	2.48	3.93	5.68	7.26	6.45	6.01	3.40	2.87	4.23
36	1988	1.98	2.04	2.16	2.65	4.10	4.49	6.04	7.70	8.35	4.98	3.40	2.87	4.23
37	1989	2.00	2.09	2.04	2.29	3.24	4.41	5.38	5.22	5.01	4.95	3.93	2.30	3.57
38	1990	1.95	2.01	2.21										
AVER(1)		2.03	1.91	2.08	2.44	3.17	4.51	5.63	6.37	6.15	5.23	3.36	2.40	3.76

Notes: 1) AVER(1) is average of all the data.  
2) Above data are necessary to be revised by using following equation to get the correct elevation.  
 $Y = X + 0.042$   
where, X : new data Y : revised data