BANGLADESH WATER DEVELOPMENT BOARD
Surface Water Hydrology
DHAKA

mostafa : Jan 18

Station : 42 Dhaka (Mill Barak) River : 20 Buriganga
Daily High and Low Tides & Statistics
Year : 1983-84

		Dec			Jan			Feb			Mar	
Date	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RN
1	2.345	1.875	0.470	1.785	1.175	0.610	1.705	1.095	0.610	1.495	0.760	0.73
2	2.365	1.860	0.505	1.890	1.250	0.640	1.860	1.095	0.765	1.585	0.745	0.84
3	2.395	1.830	0.565	1.965	1.250	0.715	1.890	1.110	0.780	1.675	0.870	0.80
4	2.440	1.860	0.580	1.950	1.250	0.700	1.860	1.065	0.795	1.735	0.945	0.79
5	2.410	1.785	0.625	1.980	1.250	0.730	1.905	1.080	0.825	1.800	1.005	0.79
6	2.395	1.750	0.645	1.950	1.250	0.700	1.930	1.110	0.820	1.800	1.035	0.76
7	2.345	1.725	0.620	1.905	1.220	0.685	1.735	1.050	0.685	1.830	1.065	0.76
8	2.285	1.690	0.595	1.870	1.220	0.650	1.690	1.005	0.685	1.785	1.080	0.70
9	2.240	1.645	0.595	1.800	1.175	0.625	1.675	1.035	0.640	1.735	1.050	0.68
10	2.135	1.570	0.565	1.720	1.140	0.580	1.585	1.005	0.580	1.645	1.050	0.59
11	2.025	1.495	0.530	1.645	1.110	0.535	1.400	0.930	0.470	1.510	0.975	0.53
12	1.920	1.445	0.475	1.555	1.080	0.475	1.495	0.855	0.640	1.400	0.900	0.50
13	1.770	1.400	0.370	1.570	1.050	0.520	1.480	0.760	0.720	1.600	0.915	0.68
14	1.720	1.325	0.395	1.675	1.050	0.625	1.480	0.760	0.720	1.645	0.945	0.70
15	1.750	1.310	0.440	1.705	1.065	0.640	1.510	0.790	0.720	1.735	0.960	0.7
16	1.830	1.310	0.520	1.750	1.095	0.655	1.615	0.835	0.780	1.860	1.050	0.8
17	1.890	1.310	0.580	1.905	1.190	0.715	1.785	0.945	0.840	1.865	0.995	0.8
18	1.950	1.355	0.595	1.980	1.220	0.760	1.920	0.990	0.930	2.020	1.105	0.9
19	2.040	1.400	0.640	2.090	1.190	0.900	2.010	1.095	0.915	2.110	1.225	0.88
20	2.120	1.495	0.625	2.210	1.280	0.930	1.980	1.140	0.840	2.185	1.270	0.9
21	2.165	1.495	0.670	2.255	1.370	0.885	1.935	1.160	0.775	2.050	1.285	0.7
22	2.180	1.415	0.765	2.180	1.370	0.810	1.830	1.095	0.735	1.895	1.255	0.6
23	2.195	1.445	0.750	1.815	1.355	0.460	1.570	0.975	0.595	1.775	1.105	0.6
24	2.180	1.480	0.700	1.935	1.310	0.625	1.280	0.790	0.490	1.640	1.045	0.5
25	2.090	1.430	0.660	1.705	1.190	0.515	1.125	0.580	0.545	1.530	0.965	0.5
26	1.950	1.370	0.580	1.585	1.065	0.520	1.125	0.425	0.700	1.530	0.965	0.5
27	2.010	1.370	0.640	1.630	1.065	0.565	1.125	0.425	0.700	1.560	0.920	0.6
28	1.770	1.325	0.445	1.615	1.065	0.550	1.265	0.515	0.750	1.605	0.845	0.7
29	1.830	1.220	0.610	1.630	1.095	0.535	--	--	--	1.595	0.830	0.7
30	1.800	1.205	0.595	1.645	0.975	0.670	--	--	--	1.640	0.920	0.7
31	1.800	1.205	0.595	1.660	1.065	0.595	--	--	--	1.775	1.045	0.7

Ten Daily Averages

Av1	2.336	1.759	0.577	1.882	1.218	0.664	1.784	1.065	0.719	1.709	0.961	0.7
Av2	1.902	1.385	0.517	1.809	1.133	0.676	1.668	0.910	0.758	1.793	1.034	0.7
Av3	1.997	1.360	0.637	1.787	1.175	0.612	1.399	0.734	0.666	1.690	1.016	0.6

Monthly Means & Extremes

Max	2.440	1.875	0.765	2.255	1.370	0.930	2.010	1.160	0.930	2.185	1.285	0.9
Mean	2.075	1.497	0.579	1.824	1.175	0.649	1.624	0.909	0.716	1.729	1.004	0.7
Min	1.720	1.205	0.370	1.555	0.975	0.460	1.125	0.425	0.470	1.400	0.745	0.5

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	24/ 9/1983	5.765	3.169	1.125	25/ 2/1984
LWL	24/ 9/1983	5.750	2.797	0.425	26/ 2/1984
RNGE	25/ 4/1983	0.980	0.372	0.015	18/ 9/1983

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		Apr			May			Jun			Jul	
Date	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE
1	1.960	1.195	0.765	2.370	1.775	0.595	3.665	3.435	0.230	4.640	4.560	0.080
2	2.110	1.255	0.855	2.460	1.835	0.625	3.650	3.435	0.215	4.610	4.550	0.060
3	2.235	1.410	0.825	2.540	1.865	0.675	3.680	3.470	0.210	4.550	4.500	0.050
4	2.295	1.530	0.765	2.540	1.930	0.610	4.070	3.740	0.330	4.520	4.440	0.080
5	2.250	1.530	0.720	2.480	1.960	0.520	3.925	3.775	0.150	4.490	4.380	0.110
6	2.135	1.485	0.650	2.445	1.930	0.515	4.070	3.895	0.175	4.460	4.360	0.100
7	2.020	1.380	0.640	2.370	1.895	0.475	4.070	3.850	0.220	4.430	4.350	0.080
8	1.895	1.335	0.560	2.305	1.910	0.395	3.950	3.850	0.100	4.410	4.330	0.080
9	1.715	1.015	0.700	2.295	1.895	0.400	3.850	3.750	0.100	4.410	4.360	0.050
10	1.500	1.015	0.485	2.355	1.850	0.505	3.850	3.700	0.150	4.460	4.410	0.050
11	1.470	0.890	0.580	2.510	1.945	0.565	3.850	3.550	0.300	4.580	4.520	0.060
12	1.590	0.905	0.685	2.660	2.155	0.505	3.850	3.700	0.150	4.640	4.580	0.060
13	1.870	1.165	0.705	2.825	2.415	0.410	3.850	3.750	0.100	4.760	4.670	0.090
14	2.050	1.350	0.700	2.980	2.510	0.470	4.050	3.900	0.150	4.880	4.790	0.090
15	2.295	1.560	0.735	3.115	2.645	0.470	4.100	3.950	0.150	5.080	4.940	0.140
16	2.480	1.745	0.735	3.115	2.630	0.485	4.150	3.820	0.330	5.160	5.110	0.050
17	2.685	1.835	0.850	3.055	2.630	0.425	4.040	3.820	0.220	5.250	5.200	0.050
18	2.645	1.930	0.715	3.010	2.630	0.380	4.200	4.100	0.100	5.400	5.360	0.040
19	2.630	1.960	0.670	2.995	2.630	0.365	4.250	4.200	0.050	5.450	5.420	0.030
20	2.390	1.945	0.445	2.905	2.645	0.260	4.280	4.220	0.060	5.430	5.390	0.040
21	2.370	1.835	0.535	2.860	2.630	0.230	4.350	4.270	0.080	5.400	5.370	0.030
22	1.960	1.640	0.320	2.845	2.630	0.215	4.390	4.300	0.090	5.370	5.340	0.030
23	1.685	1.350	0.335	2.860	2.645	0.215	4.460	4.410	0.050	5.390	5.370	0.020
24	1.685	1.225	0.460	3.025	2.690	0.335	4.500	4.460	0.040	5.460	5.440	0.020
25	1.745	1.225	0.520	3.115	2.875	0.240	4.530	4.490	0.040	5.440	5.410	0.030
26	1.880	1.270	0.610	3.240	3.115	0.125	4.560	4.520	0.040	5.410	5.390	0.020
27	1.990	1.410	0.580	3.375	3.240	0.135	4.580	4.500	0.080	5.420	5.400	0.020
28	2.080	1.485	0.595	3.770	3.290	0.480	4.590	4.530	0.060	5.460	5.410	0.050
29	2.235	1.590	0.645	3.560	3.375	0.185	4.610	4.550	0.060	5.510	5.470	0.040
30	2.355	1.730	0.625	3.650	3.435	0.215	4.620	4.550	0.070	5.590	5.540	0.050
31	--	--	--	3.680	3.445	0.235	--	--	--	5.690	5.640	0.050
				Ten Daily Averages								
Av1	2.012	1.315	0.697	2.416	1.885	0.532	3.878	3.690	0.188	4.498	4.424	0.074
Av2	2.211	1.529	0.682	2.917	2.484	0.434	4.062	3.901	0.161	5.063	4.998	0.065
Av3	1.999	1.476	0.523	3.271	3.034	0.237	4.519	4.458	0.061	5.467	5.435	0.033
				Monthly Means & Extremes								
Max	2.685	1.960	0.855	3.770	3.445	0.675	4.620	4.550	0.330	5.690	5.640	0.140
Mean	2.074	1.440	0.634	2.881	2.485	0.395	4.153	4.016	0.137	5.024	4.968	0.056
Min	1.470	0.890	0.320	2.295	1.775	0.125	3.650	3.435	0.040	4.410	4.330	0.020

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	26/ 9/1984	6.040	3.213	1.400	30/ 1/1985
LWL	26/ 9/1984	6.020	2.826	0.650	16/ 2/1985
RNGE	7/ 3/1985	1.150	0.387	0.000	9/ 9/1984

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Date	Aug HWL	Aug LWL	Aug RNGE	Sep HWL	Sep LWL	Sep RNGE	Oct HWL	Oct LWL	Oct RNGE	Nov HWL	Nov LWL	Nov RNGE
1	5.830	5.740	0.090	4.780	4.740	0.040	5.620	5.500	0.120	2.960	2.740	0.220
2	5.890	5.870	0.020	4.820	4.770	0.050	5.460	5.380	0.080	2.910	2.690	0.220
3	5.910	5.900	0.010	4.860	4.840	0.020	5.340	5.230	0.110	2.710	2.570	0.140
4	5.910	5.900	0.010	4.890	4.880	0.010	5.160	5.080	0.080	2.690	2.540	0.150
5	5.900	5.890	0.010	4.920	4.900	0.020	5.060	4.990	0.070	2.690	2.520	0.170
6	5.900	5.890	0.010	4.930	4.920	0.010	4.940	4.880	0.060	2.760	2.620	0.140
7	5.880	5.840	0.040	4.970	4.940	0.030	4.830	4.760	0.070	2.810	2.660	0.150
8	5.850	5.840	0.010	5.000	4.990	0.010	4.720	4.680	0.040	2.810	2.590	0.220
9	5.840	5.820	0.020	5.050	5.050	0.000	4.640	4.580	0.060	2.810	2.420	0.390
10	5.800	5.770	0.030	5.050	5.050	0.000	4.550	4.460	0.090	2.640	2.290	0.350
11	5.730	5.690	0.040	5.090	5.060	0.030	4.420	4.370	0.050	2.640	2.290	0.350
12	5.640	5.590	0.050	5.130	5.120	0.010	4.340	4.300	0.040	2.620	2.190	0.430
13	5.540	5.510	0.030	5.140	5.140	0.000	4.320	4.250	0.070	2.540	1.990	0.550
14	5.460	5.420	0.040	5.150	5.140	0.010	4.400	4.300	0.100	2.490	1.920	0.570
15	5.400	5.380	0.020	5.200	5.150	0.050	4.280	4.180	0.100	2.390	1.890	0.500
16	5.360	5.320	0.040	5.320	5.290	0.030	4.180	4.090	0.090	2.340	1.790	0.550
17	5.300	5.260	0.040	5.380	5.340	0.040	3.990	3.910	0.080	2.140	1.740	0.400
18	5.240	5.190	0.050	5.470	5.420	0.050	3.940	3.780	0.160	2.140	1.720	0.420
19	5.140	5.060	0.080	5.550	5.490	0.060	3.880	3.750	0.130	2.140	1.690	0.450
20	4.990	4.890	0.100	5.620	5.590	0.030	3.800	3.600	0.200	2.210	1.740	0.470
21	4.840	4.780	0.060	5.710	5.640	0.070	3.750	3.580	0.170	2.290	1.740	0.550
22	4.740	4.680	0.060	5.750	5.740	0.010	3.720	3.550	0.170	2.340	1.790	0.550
23	4.640	4.620	0.020	5.840	5.760	0.080	3.700	3.500	0.200	2.460	1.840	0.620
24	4.590	4.570	0.020	5.970	5.920	0.050	3.640	3.440	0.200	2.460	1.820	0.640
25	4.590	4.570	0.020	6.020	5.990	0.030	3.740	3.490	0.250	2.420	1.790	0.630
26	4.650	4.600	0.050	6.040	6.020	0.020	3.720	3.460	0.260	2.340	1.690	0.650
27	4.690	4.670	0.020	6.000	5.970	0.030	3.640	3.340	0.300	2.290	1.640	0.650
28	4.740	4.720	0.020	5.940	5.910	0.030	3.550	3.320	0.230	2.040	1.620	0.420
29	4.770	4.740	0.030	5.890	5.810	0.080	3.450	3.190	0.260	1.850	1.490	0.360
30	4.780	4.770	0.010	5.760	5.710	0.050	3.240	3.040	0.200	1.830	1.350	0.480
31	4.780	4.760	0.020	---	---	---	3.150	2.940	0.210	---	---	---
				Ten Daily Averages								
Av1	5.871	5.846	0.025	4.927	4.908	0.019	5.032	4.954	0.078	2.779	2.564	0.215
Av2	5.380	5.331	0.049	5.305	5.274	0.031	4.155	4.053	0.102	2.365	1.896	0.469
Av3	4.710	4.680	0.030	5.892	5.847	0.045	3.573	3.350	0.223	2.232	1.677	0.555
				Monthly Means & Extremes								
Max	5.910	5.900	0.100	6.040	6.020	0.080	5.620	5.500	0.300	2.960	2.740	0.650
Mean	5.301	5.266	0.035	5.375	5.343	0.032	4.231	4.094	0.137	2.459	2.046	0.413
Min	4.590	4.570	0.010	4.780	4.740	0.000	3.150	2.940	0.040	1.830	1.350	0.140

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	26/ 9/1984	6.040	3.213	1.400	30/ 1/1985
LWL	26/ 9/1984	6.020	2.826	0.650	16/ 2/1985
RNGE	7/ 3/1985	1.150	0.387	0.000	9/ 9/1984

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		Dec			Jan			Feb			Mar	
Date	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE
1	1.750	1.330	0.420	1.450	1.000	0.450	1.400	0.770	0.630	1.400	0.700	0.700
2	1.730	1.320	0.410	1.500	0.950	0.550	1.400	0.750	0.650	1.400	0.700	0.700
3	1.740	1.300	0.440	1.550	0.900	0.650	1.400	0.750	0.650	1.450	0.750	0.700
4	1.950	1.250	0.700	1.550	0.950	0.600	1.450	0.800	0.650	1.650	0.750	0.900
5	2.000	1.250	0.750	1.600	1.000	0.600	1.650	0.850	0.800	1.700	0.750	0.950
6	2.000	1.380	0.620	1.700	1.000	0.700	1.750	0.950	0.800	1.750	0.850	0.900
7	2.000	1.400	0.600	1.750	1.000	0.750	1.900	1.000	0.900	2.050	0.900	1.150
8	2.070	1.400	0.670	1.800	1.050	0.750	1.850	1.000	0.850	2.200	1.050	1.150
9	2.100	1.450	0.650	1.850	1.050	0.800	1.850	1.000	0.850	2.200	1.050	1.150
10	2.080	1.400	0.680	1.850	1.000	0.850	1.750	1.050	0.700	2.150	1.000	1.150
11	2.080	1.400	0.680	1.750	1.000	0.750	1.750	1.000	0.750	2.100	1.000	1.100
12	2.080	1.350	0.730	1.700	0.970	0.730	1.600	0.950	0.650	2.050	1.050	1.000
13	2.070	1.330	0.740	1.650	0.850	0.800	1.550	0.900	0.650	1.850	1.080	0.770
14	2.050	1.330	0.720	1.600	0.900	0.700	1.450	0.700	0.750	1.650	1.080	0.570
15	1.850	1.330	0.520	1.550	0.870	0.680	1.400	0.700	0.700	1.600	1.070	0.530
16	1.750	1.330	0.420	1.450	0.870	0.580	1.400	0.650	0.750	1.450	0.950	0.500
17	1.650	1.300	0.350	1.450	0.870	0.580	1.400	0.650	0.750	1.550	1.000	0.550
18	1.650	1.300	0.350	1.500	0.900	0.600	1.450	0.700	0.750	1.850	1.050	0.800
19	1.650	1.250	0.400	1.550	0.950	0.600	1.550	0.750	0.800	2.050	1.050	1.000
20	1.850	1.350	0.500	1.550	0.950	0.600	1.550	0.800	0.750	2.150	1.150	1.000
21	1.950	1.350	0.600	1.650	0.950	0.700	1.600	0.850	0.750	2.200	1.250	0.950
22	1.950	1.350	0.600	1.650	0.900	0.750	1.550	0.750	0.800	2.200	1.300	0.900
23	2.000	1.400	0.600	1.650	0.900	0.750	1.550	0.750	0.800	2.200	1.350	0.850
24	2.050	1.350	0.700	1.630	0.900	0.730	1.550	0.750	0.800	2.000	1.350	0.650
25	2.000	1.350	0.650	1.600	0.870	0.730	1.550	0.750	0.800	2.250	1.300	0.950
26	2.000	1.300	0.700	1.550	0.870	0.680	1.500	0.750	0.750	2.200	1.300	0.900
27	1.900	1.200	0.700	1.530	0.850	0.680	1.450	0.700	0.750	2.200	1.350	0.850
28	1.850	1.150	0.700	1.500	0.850	0.650	1.450	0.700	0.750	1.920	1.400	0.520
29	1.750	1.050	0.700	1.450	0.730	0.720	--	--	--	1.820	1.320	0.500
30	1.720	1.030	0.690	1.400	0.800	0.600	--	--	--	1.720	1.260	0.460
31	1.500	1.020	0.480	1.400	0.770	0.630	--	--	--	1.570	1.160	0.410
				Ten Daily Averages								
Av1	1.942	1.348	0.594	1.660	0.990	0.670	1.640	0.892	0.748	1.795	0.850	0.945
Av2	1.868	1.327	0.541	1.575	0.913	0.662	1.510	0.780	0.730	1.830	1.048	0.782
Av3	1.879	1.232	0.647	1.546	0.854	0.693	1.525	0.750	0.775	2.025	1.304	0.722
				Monthly Means & Extremes								
Max	2.100	1.450	0.750	1.850	1.050	0.850	1.900	1.050	0.900	2.250	1.400	1.150
Mean	1.896	1.300	0.596	1.592	0.917	0.675	1.561	0.811	0.749	1.888	1.075	0.813
Min	1.500	1.020	0.350	1.400	0.730	0.450	1.400	0.650	0.630	1.400	0.700	0.410

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	26/ 9/1984	6.040	3.213	1.400	30/ 1/1985
LWL	26/ 9/1984	6.020	2.826	0.650	16/ 2/1985
RNGE	7/ 3/1985	1.150	0.387	0.000	9/ 9/1984

BANGLADESH WATER DEVELOPMENT BOARD
Surface Water Hydrology
DHAKA

mostafa : Jan 18 1987

Station : 42 Dhaka (Mill Barak) River : 20 Buriganga
Daily High and Low Tides & Statistics
Year : 1985-86

		Apr			May			Jun			Jul	
Date	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE	HWL	LWL	RNGE
1	1.570	1.120	0.450	2.190	1.470	0.720	2.920	2.320	0.600	4.110	3.980	0.130
2	1.620	1.120	0.500	2.420	1.570	0.850	3.170	2.670	0.500	4.190	4.050	0.140
3	1.720	1.140	0.580	2.570	2.020	0.550	3.270	2.720	0.550	4.270	4.130	0.140
4	1.920	1.170	0.750	2.960	2.420	0.540	3.420	2.920	0.500	4.400	4.250	0.150
5	2.070	1.220	0.850	3.020	2.420	0.600	3.570	3.220	0.350	4.430	4.330	0.100
6	2.120	1.220	0.900	3.070	2.420	0.650	3.720	3.270	0.450	4.450	4.360	0.090
7	2.170	1.240	0.930	2.970	2.320	0.650	3.750	3.530	0.220	4.430	4.360	0.070
8	2.220	1.270	0.950	2.650	2.120	0.530	3.780	3.610	0.170	4.400	4.300	0.100
9	2.220	1.320	0.900	2.620	2.120	0.500	3.760	3.620	0.140	4.360	4.280	0.080
10	2.220	1.320	0.900	2.520	2.020	0.500	3.810	3.640	0.170	4.360	4.270	0.090
11	2.170	1.320	0.850	2.470	1.900	0.570	3.720	3.530	0.190	4.400	4.330	0.070
12	2.120	1.270	0.850	2.420	1.870	0.550	3.590	3.440	0.150	4.430	4.390	0.040
13	2.170	1.320	0.850	2.220	1.770	0.450	3.560	3.410	0.150	4.460	4.430	0.030
14	2.170	1.320	0.850	2.220	1.740	0.480	3.530	3.400	0.130	4.490	4.460	0.030
15	2.220	1.340	0.880	2.270	1.720	0.550	3.590	3.470	0.120	4.570	4.520	0.050
16	2.220	1.340	0.880	2.370	1.770	0.600	3.690	3.560	0.130	4.650	4.600	0.050
17	2.220	1.370	0.850	2.420	1.820	0.600	3.700	3.530	0.170	4.740	4.690	0.050
18	2.270	1.370	0.900	2.420	1.870	0.550	3.750	3.560	0.190	4.750	4.690	0.060
19	2.270	1.370	0.900	2.320	1.870	0.450	3.750	3.620	0.130	4.770	4.720	0.050
20	2.300	1.370	0.930	2.320	1.870	0.450	3.760	3.580	0.180	4.780	4.740	0.040
21	2.320	1.400	0.920	2.470	1.970	0.500	3.760	3.620	0.140	4.810	4.750	0.060
22	2.320	1.420	0.900	2.470	1.920	0.550	3.790	3.640	0.150	4.880	4.810	0.070
23	2.370	1.420	0.950	2.420	1.920	0.500	3.840	3.700	0.140	4.860	4.810	0.050
24	2.370	1.420	0.950	2.470	1.920	0.550	3.990	3.660	0.330	4.840	4.770	0.070
25	2.420	1.520	0.900	2.520	2.020	0.500	4.110	3.980	0.130	4.880	4.830	0.050
26	2.420	1.620	0.800	2.620	2.120	0.500	4.110	3.980	0.130	4.880	4.810	0.070
27	2.420	1.720	0.700	2.620	2.090	0.530	4.080	3.910	0.170	4.880	4.830	0.050
28	2.370	1.720	0.650	2.520	2.070	0.450	4.070	3.900	0.170	4.910	4.880	0.030
29	2.220	1.570	0.650	2.470	2.120	0.350	4.020	3.880	0.140	4.950	4.940	0.010
30	2.170	1.500	0.670	2.570	2.120	0.450	4.080	3.930	0.150	5.040	5.000	0.040
31	--	--	--	2.650	2.170	0.480	--	--	--	5.120	5.090	0.030
				Ten Daily Averages								
Av1	1.985	1.214	0.771	2.699	2.090	0.609	3.517	3.152	0.365	4.340	4.231	0.109
Av2	2.213	1.339	0.874	2.345	1.820	0.525	3.664	3.510	0.154	4.604	4.557	0.047
Av3	2.340	1.531	0.809	2.527	2.040	0.487	3.985	3.820	0.165	4.914	4.865	0.048
				Monthly Means & Extremes								
Max	2.420	1.720	0.950	3.070	2.420	0.850	4.110	3.980	0.600	5.120	5.090	0.150
Mean	2.179	1.361	0.818	2.524	1.985	0.539	3.722	3.494	0.228	4.629	4.561	0.067
Min	1.570	1.120	0.450	2.190	1.470	0.350	2.920	2.320	0.120	4.110	3.980	0.010

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	7/ 8/1985	5.410	3.027	1.000	18/ 2/1986
LWL	3/ 8/1985	5.380	2.616	0.390	20/ 2/1986
RNGE	8/ 4/1985	0.950	0.411	0.010	29/ 7/1985

BANGLADESH WATER DEVELOPMENT BOARD
Surface Water Hydrology
DHAKA

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Station : 42 Dhaka (Mill Barak) River : 20 Buriganga
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Date	Aug HWL	Aug LWL	Aug RNGE	Sep HWL	Sep LWL	Sep RNGE	Oct HWL	Oct LWL	Oct RNGE	Nov HWL	Nov LWL	Nov RNGE
1	5.260	5.200	0.060	4.920	4.880	0.040	4.520	4.450	0.070	3.500	3.210	0.290
2	5.390	5.330	0.060	4.940	4.890	0.050	4.540	4.450	0.090	3.400	3.110	0.290
3	5.390	5.380	0.010	5.010	4.940	0.070	4.540	4.460	0.080	3.250	2.980	0.270
4	5.390	5.360	0.030	4.970	4.920	0.050	4.520	4.460	0.060	3.150	2.860	0.290
5	5.360	5.330	0.030	4.940	4.910	0.030	4.510	4.450	0.060	2.990	2.770	0.220
6	5.380	5.330	0.050	4.910	4.840	0.070	4.460	4.420	0.040	2.810	2.680	0.130
7	5.410	5.360	0.050	4.840	4.810	0.030	4.400	4.360	0.040	2.710	2.560	0.150
8	5.330	5.290	0.040	4.810	4.780	0.030	4.310	4.280	0.030	2.630	2.450	0.180
9	5.230	5.150	0.080	4.800	4.780	0.020	4.230	4.190	0.040	2.690	2.400	0.290
10	5.090	5.010	0.080	4.780	4.770	0.010	4.170	4.130	0.040	2.790	2.400	0.390
11	4.950	4.910	0.040	4.800	4.780	0.020	4.160	4.100	0.060	2.890	2.420	0.470
12	4.840	4.800	0.040	4.810	4.780	0.030	4.170	4.050	0.120	2.980	2.450	0.530
13	4.780	4.770	0.010	4.830	4.800	0.030	4.140	3.990	0.150	3.030	2.440	0.590
14	4.780	4.750	0.030	4.890	4.830	0.060	4.110	3.960	0.150	3.030	2.420	0.610
15	4.810	4.750	0.060	4.970	4.920	0.050	4.220	3.990	0.230	2.990	2.390	0.600
16	4.800	4.740	0.060	4.970	4.910	0.060	4.490	4.160	0.330	2.970	2.340	0.630
17	4.780	4.720	0.060	4.920	4.840	0.080	4.630	4.420	0.210	2.930	2.360	0.570
18	4.800	4.740	0.060	4.840	4.780	0.060	4.450	4.340	0.110	2.840	2.360	0.480
19	4.800	4.740	0.060	4.780	4.750	0.030	4.300	4.200	0.100	2.660	2.280	0.380
20	4.780	4.720	0.060	4.780	4.710	0.070	4.190	4.100	0.090	2.390	2.100	0.290
21	4.800	4.690	0.110	4.740	4.690	0.050	4.110	4.050	0.060	2.230	1.950	0.280
22	4.750	4.650	0.100	4.680	4.620	0.060	4.040	3.990	0.050	2.200	1.870	0.330
23	4.680	4.600	0.080	4.590	4.540	0.050	3.980	3.930	0.050	2.200	1.840	0.360
24	4.620	4.540	0.080	4.540	4.510	0.030	3.930	3.880	0.050	2.230	1.790	0.440
25	4.550	4.520	0.030	4.510	4.480	0.030	3.910	3.840	0.070	2.270	1.810	0.460
26	4.570	4.540	0.030	4.510	4.480	0.030	3.880	3.760	0.120	2.280	1.750	0.530
27	4.630	4.600	0.030	4.540	4.480	0.060	3.850	3.700	0.150	2.340	1.750	0.590
28	4.710	4.660	0.050	4.550	4.490	0.060	3.780	3.640	0.140	2.370	1.760	0.610
29	4.770	4.720	0.050	4.540	4.480	0.060	3.720	3.500	0.220	2.360	1.750	0.610
30	4.840	4.800	0.040	4.530	4.460	0.070	3.620	3.430	0.190	2.330	1.720	0.610
31	4.910	4.840	0.070	--	--	--	3.580	3.330	0.250	--	--	--
				Ten Daily Averages								
Av1	5.323	5.274	0.049	4.892	4.852	0.040	4.420	4.365	0.055	2.992	2.742	0.250
Av2	4.812	4.764	0.048	4.859	4.810	0.049	4.286	4.131	0.155	2.871	2.356	0.515
Av3	4.712	4.651	0.061	4.573	4.523	0.050	3.855	3.732	0.123	2.281	1.799	0.482
				Monthly Means & Extremes								
Max	5.410	5.380	0.110	5.010	4.940	0.080	4.630	4.460	0.330	3.500	3.210	0.630
Mean	4.941	4.888	0.053	4.775	4.728	0.046	4.176	4.065	0.111	2.715	2.299	0.416
Min	4.550	4.520	0.010	4.510	4.460	0.010	3.580	3.330	0.030	2.200	1.720	0.130

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	7/ 8/1985	5.410	3.027	1.000	18/ 2/1986
LWL	3/ 8/1985	5.380	2.616	0.390	20/ 2/1986
RNGE	8/ 4/1985	0.950	0.411	0.010	29/ 7/1985

BANGLADESH WATER DEVELOPMENT BOARD
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DHAKA

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Date	Dec HWL	Dec LWL	Dec RNGE	Jan HWL	Jan LWL	Jan RNGE	Feb HWL	Feb LWL	Feb RNGE	Mar HWL	Mar LWL	Mar RNGE
1	2.310	1.700	0.610	1.700	1.120	0.580	1.690	0.990	0.700	1.640	0.910	0.730
2	2.250	1.670	0.580	1.600	1.000	0.600	1.550	0.950	0.600	1.540	0.880	0.660
3	2.160	1.630	0.530	1.490	1.000	0.490	1.410	0.880	0.530	1.370	0.820	0.550
4	2.080	1.570	0.510	1.450	0.900	0.550	1.460	0.790	0.670	1.180	0.700	0.480
5	1.990	1.520	0.470	1.400	0.850	0.550	1.370	0.740	0.630	1.290	0.640	0.650
6	1.920	1.490	0.430	1.450	0.870	0.580	1.440	0.740	0.700	1.310	0.670	0.640
7	1.930	1.490	0.440	1.490	0.990	0.500	1.460	0.740	0.720	1.340	0.710	0.630
8	2.010	1.490	0.520	1.690	1.030	0.660	1.540	0.760	0.780	1.490	0.770	0.720
9	2.010	1.520	0.490	1.780	1.060	0.720	1.620	0.740	0.880	1.550	0.790	0.760
10	2.220	1.610	0.610	1.870	1.110	0.760	1.650	0.730	0.920	1.520	0.710	0.810
11	2.300	1.610	0.690	1.920	1.090	0.830	1.670	0.830	0.840	1.610	0.770	0.840
12	2.310	1.490	0.820	1.920	1.080	0.840	1.610	0.820	0.790	1.730	0.880	0.850
13	2.360	1.550	0.810	1.920	1.090	0.830	1.580	0.800	0.780	1.750	1.000	0.750
14	2.370	1.550	0.820	1.830	1.080	0.750	1.540	0.820	0.720	1.750	1.020	0.730
15	2.310	1.550	0.760	1.720	1.150	0.570	1.430	0.800	0.630	1.720	1.020	0.700
16	2.270	1.540	0.730	1.520	0.910	0.610	1.280	0.730	0.550	1.600	1.000	0.600
17	2.150	1.490	0.660	1.490	0.880	0.610	1.060	0.670	0.390	1.430	0.910	0.520
18	2.010	1.430	0.580	1.290	0.820	0.470	1.000	0.580	0.420	1.250	0.790	0.460
19	1.890	1.420	0.470	1.250	0.760	0.490	1.110	0.480	0.630	1.120	0.700	0.420
20	1.730	1.320	0.410	1.260	0.690	0.570	1.110	0.390	0.720	1.090	0.670	0.420
21	1.670	1.250	0.420	1.260	0.670	0.590	1.150	0.440	0.710	1.220	0.610	0.610
22	1.640	1.220	0.420	1.290	0.650	0.640	1.220	0.510	0.710	1.230	0.570	0.660
23	1.640	1.090	0.550	1.340	0.710	0.630	1.340	0.610	0.730	1.310	0.620	0.690
24	1.730	1.090	0.640	1.410	0.760	0.650	1.470	0.650	0.820	1.440	0.730	0.710
25	1.830	1.180	0.650	1.490	0.760	0.730	1.570	0.730	0.840	1.600	0.820	0.780
26	1.860	1.180	0.680	1.520	0.730	0.790	1.640	0.740	0.900	1.670	0.850	0.820
27	1.930	1.220	0.710	1.580	0.760	0.820	1.670	0.820	0.850	1.810	0.990	0.820
28	2.010	1.180	0.830	1.650	0.820	0.830	1.690	0.880	0.810	1.890	1.060	0.830
29	1.930	1.180	0.750	1.700	0.860	0.840	--	--	--	1.890	1.150	0.740
30	1.890	1.070	0.820	1.750	0.910	0.840	--	--	--	1.950	1.170	0.780
31	1.830	1.070	0.760	1.730	0.990	0.740	--	--	--	1.920	1.180	0.740
				Ten Daily Averages								
Av1	2.088	1.569	0.519	1.592	0.993	0.599	1.519	0.806	0.713	1.423	0.760	0.663
Av2	2.170	1.495	0.675	1.612	0.955	0.657	1.339	0.692	0.647	1.505	0.876	0.629
Av3	1.815	1.157	0.657	1.520	0.784	0.736	1.469	0.673	0.796	1.630	0.886	0.744
				Monthly Means & Extremes								
Max	2.370	1.700	0.830	1.920	1.150	0.840	1.690	0.990	0.920	1.950	1.180	0.850
Mean	2.017	1.399	0.618	1.573	0.906	0.666	1.440	0.727	0.713	1.523	0.842	0.681
Min	1.640	1.070	0.410	1.250	0.650	0.470	1.000	0.390	0.390	1.090	0.570	0.420

Annual Means & Extremes

	Date	Max	Mean	Min	Date
HWL	7/ 8/1985	5.410	3.027	1.000	18/ 2/1986
LWL	3/ 8/1985	5.380	2.616	0.390	20/ 2/1986
RNGE	8/ 4/1985	0.950	0.411	0.010	29/ 7/1985

WDB: Surface Water Hydrology. Hydrological Sub-Div/Unit

MONTHLY GAUGE READING STATEMENT

In ft/metre above PWD Datum

... 28 Buriganga ... River at ... Mill Barrack Dhaka

MTH... April ... 19.86 ... ...Non-tidal/Tidal... ...

GR – Gauge Reading. WL – Water Level.

	0600		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
1	2.24	1.34	2.05	1.15	2.27	1.37	2.48	1.58	2.05	1.15	1400	2.54	1.64	1100	1.99	1.09
2	2.24	1.34	2.02	1.12	1.85	0.95	2.36	1.46	2.15	1.25	1400	2.36	1.46	1200	1.85	0.95
3	2.36	1.46	2.02	1.12	1.85	0.95	1.84	0.94	2.25	1.35	0600	2.36	1.46	1400	1.75	0.85
4	2.27	1.37	2.02	1.12	1.87	0.97	1.67	0.77	1.95	1.05	0700	2.36	1.40	1600	1.64	0.74
5	2.15	1.25	2.27	1.37	1.93	1.03	1.72	0.82	1.78	0.98	0800	2.34	1.44	1700	1.60	0.70
6	1.96	1.06	2.42	1.52	2.04	1.14	1.81	0.91	1.84	0.94	0900	2.42	1.52	1700	1.78	0.88
7	1.99	1.09	2.55	1.65	2.19	1.29	1.95	1.05	1.87	0.97	1000	2.56	1.66	1700	1.85	0.95
8	1.87	0.97	2.63	1.73	2.42	1.52	2.05	1.15	1.92	1.02	1000	2.68	1.78	0600	1.87	0.97
9	2.04	1.14	2.73	1.83	2.63	1.73	2.27	1.37	2.07	1.17	1100	2.83	1.93	0600	2.04	1.14
10	2.15	1.25	2.82	1.92	2.82	1.92	2.37	1.49	2.15	1.25	1100	2.95	2.05	0700	2.12	1.22
11	2.25	1.35	2.69	1.79	2.92	2.04	2.48	1.58	2.21	1.31	1100	2.94	2.04	0700	2.16	1.26
12	2.33	1.43	2.54	1.64	2.85	1.95	2.42	1.52	2.16	1.26	1100	2.88	1.98	0800	2.16	1.26
13	2.30	1.40	2.42	1.52	2.88	1.98	2.57	1.67	2.33	1.43	1200	2.88	1.98	0800	2.16	1.26
14	2.45	1.55	2.28	1.38	2.97	2.07	2.72	1.82	2.45	1.55	1300	3.00	2.10	0900	2.28	1.38
15	2.59	1.69	2.37	1.47	2.88	1.98	2.82	1.92	2.52	1.62	1300	2.97	2.07	0800	2.37	1.47
16	2.63	1.73	2.42	1.52	2.73	1.83	2.85	1.95	2.52	1.62	1400	2.89	1.99	1000	2.37	1.47
17	2.65	1.75	2.42	1.52	2.42	1.52	2.76	1.86	2.50	1.60	1500	2.76	1.86	1100	2.33	1.43
18	2.69	1.79	2.40	1.50	2.25	1.35	2.45	1.55	2.73	1.83	1700	2.76	1.86	1200	2.25	1.35
19	2.65	1.75	2.54	1.64	2.59	1.49	2.30	1.40	2.72	1.83	1800	2.73	1.83	1400	2.27	1.37
20	2.65	1.75	2.66	1.76	2.42	1.52	2.22	1.32	2.63	1.73	0600	2.65	1.75	1500	2.22	1.32
21	2.73	1.83	2.82	1.92	2.60	1.70	2.25	1.35	2.57	1.67	0800	2.88	1.98	1600	2.19	1.29
22	2.63	1.73	2.88	1.98	2.52	1.62	2.27	1.37	2.57	1.67	0800	2.91	2.01	1700	2.18	1.28
23	2.54	1.64	2.95	2.05	2.67	1.77	2.42	1.52	2.57	1.67	0900	2.95	2.05	1700	2.27	1.37
24	2.48	1.58	2.98	2.08	2.73	1.83	2.48	1.58	2.72	1.82	0900	2.98	2.08	1700	2.39	1.47
25	0.21 / 2.73	1.89	0.69	2.31	0.45	2.07	0.17	1.79	0.38	1.98	0800	0.69	2.31	1700	0.07	1.69
26	0.16	1.78	0.78	2.40	0.69	2.31	0.38	1.98	0.16	1.78	1000	0.85	2.47	0600	0.16	1.78
27	0.27	1.89	0.69	2.31	0.77	2.39	0.45	2.07	0.21	1.83	1100	0.85	2.47	1800	0.21	1.83
28	0.33	1.95	0.36	1.98	0.92	2.54	0.63	2.25	0.39	2.01	1200	0.92	2.54	0800	0.17	1.79
29	0.51	2.13	0.30	1.92	0.77	2.39	0.52	2.19	0.33	1.95	1200	0.77	2.39	0900	0.30	1.92
30	0.46	2.08	0.25	1.87	0.33	1.95	0.54	2.16	0.33	1.95	1400	0.57	2.19	1000	0.19	1.81
31																

Zero Values confirmed. Monthly HWL & LWL underlined

Signature of the SDE/Unit Officer
Date... 12/5/86

Signature of the Gauge Reader
Date... 1/5/86

DB Surface Water Hydrology. 68—80 Hydrological Sub-Div/Unit 610

MONTHLY GAUGE READING STATEMENT

In ft/metre above PWD Datum

...Buriganga... ...River at ...Mill Barrack, Dhaka

NTH... May... ...1986... ... ...Nontidal/Tidal...

GR — Gauge Reading. WL — Water Level.

	0600		0900		1200		1600		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
	0.43	2.05	0.24	1.86	0.08	1.70	0.43	2.05	0.30	1.92	0600	0.43	2.05	1200	0.08	1.70
2	0.48	2.10	0.25	1.87	0.07	1.69	0.11	1.73	0.39	2.01	0600	0.48	2.10	1400	0.02	1.64
3	0.46	2.08	0.24	1.86	0.05	1.67	0.03	1.65	0.45	2.07	0600	0.46	2.08	1500	0.03	1.65
4	0.49	2.11	0.39	2.01	0.24	1.86	0.05	1.67	0.36	1.98	0700	0.51	2.13	1600	0.02	1.64
5	0.46	2.08	0.59	2.21	0.33	1.95	0.11	1.73	0.39	2.01	0800	0.65	2.27	1600	0.05	1.67
6	0.42	2.04	0.69	2.31	0.46	2.08	0.24	1.86	0.39	2.01	0900	0.69	2.31	1700	[illegible]	1.76
7	0.31	1.93	0.71	2.33	0.48	2.10	0.27	1.89	0.36	1.98	0900	0.71	2.33	1700	[illegible]	1.73
8	0.24	1.86	0.73	2.35	0.57	2.19	0.34	1.96	0.19	1.81	1000	0.73	2.35	1800	[illegible]	1.81
9	0.25	1.87	0.71	2.33	0.66	2.28	0.40	2.02	0.21	1.83	1000	0.77	2.39	1800	[illegible]	1.83
0	0.31	1.93	0.59	2.21	0.71	2.33	0.45	2.07	0.25	1.87	1100	0.77	2.39	1300	[illegible]	1.87
	0.36	1.98	0.43	2.05	0.72	2.34	0.46	2.08	0.27	1.89	1100	0.75	2.37	1800	[illegible]	1.89
2	0.39	2.01	0.39	2.01	0.74	2.36	0.51	2.13	0.33	1.95	1200	0.74	2.36	0800	0.30	1.90
3	0.40	2.02	0.27	1.89	0.68	2.30	0.48	2.10	0.27	1.89	1200	0.68	2.30	0900	0.27	1.89
4	0.42	2.04	0.28	1.90	0.63	2.25	0.48	2.10	0.30	1.92	1300	0.63	2.25	0900	0.28	1.90
5	0.45	2.07	0.30	1.92	0.59	2.21	0.56	2.18	0.45	2.07	1300	0.66	2.28	1000	0.30	1.92
6	0.56	2.18	0.39	2.01	0.43	2.05	0.63	2.25	0.48	2.10	1400	0.63	2.25	1000	0.33	1.95
7	0.49	2.11	0.34	1.96	0.24	1.86	0.60	2.22	0.42	2.04	1500	0.60	2.22	1100	0.24	1.36
8	0.62	2.25	0.45	2.07	0.28	1.90	0.39	2.01	0.66	2.28	1800	0.66	2.28	1300	0.25	1.37
9	0.71	2.33	0.51	2.13	0.33	1.95	0.25	1.87	0.75	2.37	1800	0.75	2.37	1400	0.25	1.87
0	0.69	2.31	0.59	2.21	0.39	2.01	0.21	1.83	0.77	2.39	1800	0.77	2.39	1400	0.21	1.83
1	0.74	2.36	0.74	2.36	0.51	2.13	0.30	1.92	0.82	2.44	0700	0.85	2.47	1600	0.28	1.90
2	0.74	2.36	0.92	2.54	0.63	2.25	0.40	2.02	0.82	2.44	0800	0.95	2.57	1600	0.34	1.96
3	0.66	2.28	1.06	2.68	0.78	2.40	0.51	2.13	0.69	2.31	0900	1.06	2.68	1700	0.40	2.02
	0.56	2.18	1.07	2.69	0.88	2.50	0.60	2.22	0.51	2.13	0900	1.07	2.69	1700	0.43	2.05
5	0.54	2.16	0.95	2.57	0.92	2.54	0.66	2.28	0.45	2.07	1000	1.12	2.74	1800	0.45	2.07
6	0.56	2.18	0.97	2.59	1.00	2.62	0.72	2.34	0.51	2.13	1100	1.09	2.71	1800	0.51	2.13
7	0.63	2.25	0.72	2.34	1.00	2.62	0.72	2.34	0.51	2.13	1100	1.03	2.65	1800	0.51	2.13
8	0.63	2.25	0.43	2.05	0.88	2.50	0.69	2.31	0.45	2.07	1200	0.88	2.50	1800	0.45	2.07
9	0.59	2.21	0.36	1.98	0.60	2.22	0.66	2.28	0.43	2.05	1400	0.74	2.36	1000	0.33	1.95
0	0.54	2.16	0.33	1.95	0.27	1.89	0.63	2.25	0.43	2.05	1500	0.63	2.25	1100	0.24	1.86
1	0.51	2.13	0.30	1.92	0.11	1.73	0.45	2.07	0.45	2.07	1600	0.52	2.14	1200	0.11	1.73

ero Values confirmed. Monthly HWL & LWL underlined.

Signature of the SDE/Unit officer

Date—

Surface Water Hydrology

BWDB, Dacca

Signature of the Gauge Reader

Date— —/6/86

WDB Surface Water Hydrology. 65—80 U 610 Hydrological Sub-Div/Unit

MONTHLY GAUGE READING STATEMENT

In ft/metre above PWD Datum

...No. Burigangu ...River at ...42. Mill Barrack

MONTH...June... ...1996 ... ...Nontidal/Tidal... ...

GR = Gauge Reading. WL = Water Level.

Date	0600		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
1	0.46	2.08	0.24	1.86	0.04	1.66	0.14	1.76	0.48	2.10	1800	0.48	2.10	1300	0.01	1.63
2	0.45	2.07	0.21	1.83	0.02	1.64	0.02	1.64	0.54	2.16	1800	0.54	2.16	1500	0.02	1.64
3	0.42	2.04	0.31	1.93	0.10	1.72	0.01	1.63	0.51	2.13	1800	0.51	2.13	1500	0.01	1.63
4	0.39	2.01	0.45	2.07	0.21	1.83	0.02	1.64	0.42	2.04	0800	0.57	2.13	1600	0.02	1.64
5	0.31	1.93	0.54	2.16	0.27	1.89	0.05	1.67	0.69	2.31	0800	0.56	2.18	1600	0.02	1.64
6	0.21	1.83	0.60	2.22	0.36	1.98	0.14	1.76	0.36	1.98	0900	0.60	2.22	1700	0.05	1.67
7	0.14	1.76	0.66	2.28	0.45	2.07	0.21	1.83	0.21	1.83	0900	0.66	2.28	1700	0.08	1.70
8	0.16	1.78	0.63	2.25	0.54	2.16	0.28	1.90	0.13	1.75	1000	0.69	2.31	1800	0.13	1.75
9	0.28	1.90	0.66	2.28	0.69	2.31	0.42	2.04	0.25	1.87	1100	0.78	2.40	1800	0.25	1.87
10	0.42	2.04	0.66	2.28	0.85	2.47	0.56	2.18	0.39	2.01	1100	0.86	2.48	1800	0.39	2.01
11	0.57	2.19	0.68	2.30	0.97	2.59	0.71	2.33	0.51	2.13	1200	0.97	2.59	0800	0.48	2.10
12	0.63	2.25	0.54	2.16	0.92	2.54	0.75	2.37	0.59	2.21	1200	0.92	2.54	0900	0.54	2.16
13	0.63	2.25	0.46	2.08	0.75	2.37	0.72	2.34	0.54	2.16	1300	0.80	2.42	0900	0.46	2.08
14	0.65	2.27	0.46	2.08	0.62	2.24	0.77	2.39	0.60	2.22	1400	0.82	2.44	1000	0.43	2.05
15	0.68	2.30	0.51	2.13	0.56	2.18	0.89	2.51	0.69	2.31	1500	0.89	2.51	1100	0.45	2.07
16	0.82	2.44	0.65	2.27	0.54	2.16	0.95	2.57	0.89	2.51	1600	1.15	2.77	1200	0.54	2.16
17	0.94	2.56	0.75	2.37	0.60	2.22	0.88	2.50	1.06	2.68	1700	1.09	2.71	1300	0.57	2.19
18	1.00	2.62	0.83	2.45	0.66	2.28	0.74	2.36	1.15	2.77	1800	1.15	2.77	1400	0.60	2.22
19	1.06	2.68	0.97	2.59	0.78	2.40	0.65	2.27	1.15	2.77	1800	1.15	2.77	1500	0.65	2.27
20	1.10	2.72	1.15	2.77	0.97	2.59	0.82	2.44	1.30	2.92	1800	1.30	2.92	1500	0.82	2.44
21	1.24	2.86	1.46	3.08	1.27	2.89	1.06	2.68	1.46	3.08	1800	1.46	3.08	1600	1.01	2.63
22	1.27	2.89	1.61	3.23	1.46	3.08	1.24	2.86	1.27	2.89	0900	1.61	3.23	1700	1.10	2.72
23	1.18	2.80	1.55	3.17	1.49	3.11	1.27	2.89	1.12	2.74	1000	1.58	3.20	1800	1.12	2.74
24	1.12	2.74	1.58	3.20	1.64	3.26	1.46	3.08	1.27	2.89	1100	1.67	3.29	0600	1.12	2.74
25	1.46	3.08	1.55	3.17	1.82	3.44	1.64	3.26	1.46	3.08	1200	1.82	3.44	0700	1.39	3.01
26	1.27	2.89	1.49	3.11	1.83	3.45	1.73	3.35	1.55	3.17	1200	1.83	3.45	0800	1.47	3.09
27	1.67	3.29	1.50	3.12	1.73	3.35	1.76	3.38	1.61	3.23	1300	1.79	3.41	0900	1.50	3.12
28	1.65	3.27	1.52	3.14	1.58	3.20	1.73	3.35	1.64	3.26	1400	1.73	3.35	1000	1.46	3.08
29	1.73	3.35	1.62	3.24	1.61	3.23	1.85	3.47	1.81	3.43	1500	1.85	3.47	1100	1.58	3.20
30	1.93	3.55	1.82	3.44	1.78	3.40	1.97	3.59	2.10	3.72	1600	2.10	3.72	1200	1.78	3.40
31																

Zero Values confirmed. Monthly HWL & LWL underlined

Signature of the Sub-Divisional Officer

Date 23/9/93

Signature of the Gauge Reader Abdul Haque

Date... 4/7/86

352 610

WDB Surface Water Hydrology. Hydrological Sub-Div/Unit Dhaka

MONTHLY GAUGE READING STATEMENT

in ft/metre above PWD Datum

20 Buriganga River at 42 Mill Barrack (42)

MONTH July 1986 Nontidal/Tidal

GR=Gauge Reading, WL=Water Level.

Date	0600 GR	0600 WL	0900 GR	0900 WL	1200 GR	1200 WL	1500 GR	1500 WL	1800 GL	1800 WL	Highest Hour	Highest GR	Highest WL	Lowest Hour	Lowest GR	Lowest WL
1	2.04	3.66	2.00	3.62	1.96	3.58	2.04	3.66	2.19	3.81	1800	2.19	3.81	1200	1.96	3.58
2	2.13	3.75	2.13	3.75	2.08	3.70	2.05	3.67	2.14	3.76	1800	2.14	3.76	1400	2.05	3.67
3	2.11	3.73	2.16	3.78	2.13	3.75	2.08	3.70	2.16	3.78	1800	2.16	3.78	1500	2.08	3.70
4	2.14	3.76	2.20	3.82	2.19	3.81	2.14	3.76	2.16	3.78	0900	2.20	3.82	1600	2.13	3.75
5	2.17	3.79	2.25	3.87	2.23	3.85	2.19	3.81	2.16	3.78	1000	2.25	3.87	1700	2.14	3.76
6	2.16	3.78	2.23	3.85	2.25	3.87	2.19	3.81	2.14	3.76	1100	2.25	3.87	1800	2.14	3.76
7	2.19	3.81	2.28	3.90	2.32	3.94	2.26	3.88	2.22	3.84	1200	2.32	3.94	0600	2.19	3.81
8	2.26	3.88	2.32	3.94	2.37	3.99	2.32	3.94	2.25	3.87	1200	2.37	3.99	1800	2.25	3.87
9	2.29	3.91	2.31	3.93	2.39	4.01	2.34	3.96	2.28	3.90	1200	2.31	4.01	0700	2.26	3.88
0	2.31	3.93	2.29	3.91	2.37	3.99	2.35	3.97	2.28	3.90	1300	2.37	3.99	0800	2.26	3.88
	2.32	3.94	2.25	3.87	2.37	3.99	2.35	3.97	2.28	3.90	1400	2.37	3.99	0900	2.25	3.87
2	2.34	3.96	2.25	3.85	2.34	3.96	2.37	3.99	2.29	3.91	1500	2.37	3.99	0900	2.25	3.87
3	2.37	3.99	2.28	3.90	2.39	4.01	2.44	4.06	2.39	4.01	1500	2.44	4.06	1000	2.28	3.90
4	2.44	4.06	2.37	3.99	2.39	4.01	2.46	4.08	2.43	4.05	1600	2.46	4.08	1100	2.34	3.96
5	2.43	4.05	2.35	3.97	2.29	3.91	2.42	4.04	2.43	4.05	1700	2.43	4.05	1200	2.29	3.91
6	2.42	4.04	2.35	3.97	2.29	3.91	2.39	4.01	2.44	4.06	1800	2.44	4.06	1300	2.29	3.91
7	2.40	4.02	2.39	4.01	2.31	3.93	2.34	3.96	2.46	4.08	1800	2.46	4.08	1400	2.29	3.91
8	2.43	4.05	2.43	4.05	2.39	4.01	2.37	3.99	2.57	4.19	1800	2.57	4.19	1400	2.35	3.97
9	2.51	4.13	2.55	4.17	2.51	4.13	2.43	4.05	2.55	4.17	1800	2.55	4.17	1500	2.43	4.05
0	2.51	4.13	2.60	4.22	2.58	4.20	2.51	4.13	2.55	4.17	0900	2.60	4.22	1600	2.48	4.10
1	2.55	4.17	2.68	4.30	2.68	4.30	2.61	4.23	2.61	4.23	1000	2.69	4.31	0600	2.55	4.17
2	2.69	4.31	2.83	4.45	2.84	4.46	2.78	4.40	2.74	4.36	1100	2.84	4.46	0600	2.69	4.31
3	0.69 / 2.89	4.51	0.75	4.57	0.80	4.62	0.75	4.57	0.67	4.49	1200	0.80	4.62	1800	0.67	4.49
	0.72	4.54	0.57	4.39	0.80	4.62	0.78	4.60	0.72	4.54	1300	0.80	4.62	0700	0.69	4.51
5	0.72	4.54	0.67	4.49	0.75	4.57	0.86	4.68	0.78	4.60	1400	0.86	4.68	0800	0.67	4.49
5	0.78	4.60	0.73	4.55	0.80	4.62	0.83	4.65	0.80	4.62	1500	0.83	4.65	0900	0.73	4.55
7	0.81	4.63	0.77	4.59	0.77	4.59	0.83	4.65	0.80	4.62	1500	0.83	4.65	1000	0.75	4.57
3	0.80	4.62	0.77	4.59	0.73	4.55	0.80	4.62	0.81	4.63	1800	0.81	4.63	1100	0.73	4.55
	0.81	4.63	0.78	4.60	0.75	4.57	0.80	4.62	0.83	4.65	1800	0.83	4.65	1200	0.75	4.57
	0.81	4.63	0.80	4.62	0.77	4.59	0.78	4.60	0.83	4.65	1800	0.83	4.65	1300	0.77	4.59
1	0.81	4.63	0.81	4.63	0.80	4.61	0.78	4.60	0.81	4.63	1800	0.81	4.63	1400	0.78	4.60

ero values confirmed. Monthly HWL & LWL [illegible] ilned

Signature of Sub-Divisional Engineer / Sub-Divisional Officer
Dacca Hydrological Sub Division
Surface Water Hydrology-I
BWDB, Dacca

[signature] 28/8/86

Abdul Haque
Signature of the Gauge Reader
Date 21.8.86.

BWDB Surface Water Hydrology. C2 640 610 Hydrological Sub-Div/Unit Dhaka

MONTHLY GAUGE READING STATEMENT

In ft/metre above PWD Datum

...20... Buriganga ...River at... 47 Mill Barrack

MONTH... August ... 1986 ... ...Non-tidal/Tidal... ...

GR = Gauge Reading. WL = Water Level

Hour / Date	0600		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
1	0.80	4.62	0.81	4.63	0.80	4.62	0.78	4.60	0.81	4.63	1800	0.81	4.63	1500	0.78	4.60
2	0.80	4.62	0.81	4.63	0.81	4.63	0.78	4.60	0.80	4.62	0900	0.81	4.63	1600	0.78	4.60
3	0.81	4.63	0.84	4.66	0.84	4.66	0.83	4.65	0.83	4.65	1000	0.84	4.66	1700	0.81	4.63
4	0.85	4.67	0.87	4.69	0.89	4.71	0.87	4.69	0.85	4.67	1100	0.89	4.71	1800	0.85	4.67
5	0.92	4.74	0.93	4.75	0.95	4.77	0.93	4.75	0.92	4.74	1200	0.95	4.77	0600	0.92	4.74
6	0.99	4.81	1.02	4.84	1.06	4.88	1.06	4.88	1.02	4.84	1300	1.06	4.88	0600	0.99	4.81
7	1.02	4.84	1.09	4.91	1.13	4.95	1.12	4.94	1.09	4.91	1300	1.13	4.95	0600	1.02	4.84
8	1.13	4.95	1.12	4.94	1.16	4.98	1.15	4.97	1.12	4.94	1300	1.16	4.98	0800	1.12	4.94
9	1.15	4.97	1.13	4.95	1.16	4.98	1.16	4.98	1.13	4.95	1400	1.18	5.00	0900	1.13	4.95
10	1.15	4.97	1.10	4.92	1.15	4.97	1.15	4.97	1.12	4.94	1500	1.15	4.97	0900	1.10	4.92
11	1.12	4.94	1.07	4.89	1.12	4.94	1.13	4.95	1.12	4.95	1500	1.13	4.95	0900	1.07	4.89
12	1.10	4.92	1.06	4.88	1.07	4.89	1.12	4.94	1.09	4.91	1500	1.12	4.94	1000	1.06	4.88
13	1.07	4.89	1.02	4.84	0.99	4.81	1.06	4.88	1.04	4.86	0600	1.07	4.89	1200	0.99	4.81
14	0.98	4.80	0.93	4.75	0.87	4.69	0.92	4.74	0.93	4.75	0600	0.98	4.80	1200	0.87	4.69
15	0.84	4.66	0.83	4.65	0.77	4.59	0.75	4.57	0.80	4.62	0600	0.84	4.66	1400	0.75	4.57
16	0.69	4.51	0.69	4.51	0.66	4.48	0.60	4.42	0.67	4.49	0700	0.69	4.51	1500	0.60	4.42
17	0.55	4.37	0.58	4.40	0.57	4.39	0.51	4.33	0.51	4.33	0800	0.58	4.40	1600	0.48	4.32
18	0.45	4.27	0.51	4.33	0.51	4.33	0.45	4.27	0.41	4.23	0900	0.51	4.33	1700	0.40	4.22
19	0.41	4.23	0.49	4.31	0.51	4.33	0.45	4.27	0.40	4.22	1000	0.51	4.33	1800	0.40	4.22
20	0.46	4.28	0.55	4.37	0.57	4.39	0.52	4.34	0.45	4.27	1100	0.57	4.39	1800	0.45	4.27
21	0.48	4.30	0.51	4.33	0.55	4.37	0.49	4.31	0.41	4.23	1200	0.55	4.37	1800	0.41	4.23
22	0.45	4.27	0.45	4.27	0.54	4.36	0.52	4.34	0.45	4.27	1200	0.54	4.36	0700	0.30	4.11
23	0.48	4.30	0.45	4.27	0.54	4.36	0.55	4.37	0.48	4.30	1400	0.55	4.37	0800	0.43	4.24
24	0.51	4.33	0.45	4.27	0.54	4.36	0.57	4.39	0.51	4.33	1500	0.57	4.39	0900	0.45	4.27
25	0.52	4.34	0.49	4.31	0.55	4.37	0.60	4.42	0.57	4.39	1500	0.60	4.42	1000	0.49	4.31
26	0.57	4.39	0.55	4.37	0.57	4.39	0.63	4.45	0.61	4.43	1600	0.63	4.45	1100	0.55	4.37
27	0.61	4.43	0.58	4.40	0.57	4.39	0.61	4.43	0.63	4.45	1700	0.63	4.45	1200	0.57	4.39
28	0.61	4.43	0.60	4.42	0.58	4.40	0.61	4.43	0.63	4.45	1800	0.63	4.45	1200	0.58	4.40
29	0.63	4.45	0.64	4.46	0.63	4.45	0.64	4.46	0.66	4.48	1800	0.66	4.48	1300	0.61	4.43
30	0.64	4.46	0.66	4.48	0.64	4.46	0.64	4.46	0.66	4.48	1800	0.66	4.48	1400	0.64	4.46
31	0.66	4.48	0.67	4.49	0.67	4.49	0.69	4.51	0.70	4.52	1800	0.70	4.52	0600	0.66	4.48

Zero Values confirmed. Monthly HwL & LWL underlined

Signature of the Sub-Divisional Engineer
Date
Dhaka Hydrological Sub Division
Surface Water Hydrology

2/9/86

Abdul Haque
Signature of the Gauge Reader
Date 1/9/86

BWDB Surface Water Hydrology. 657—672 = 610 Hydrological Sub-Div/Unit

MONTHLY GAUGE READING STATEMENT

in ft/metre above PWD Datum

20 Buriganga ...River at ...42 Mill Barrack

MONTH... September 1986 ... ...Nontidal/Tidal... ...

GR — Gauge Reading. WL — Water Level.

Date	0600		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
1	0.70	4.52	0.72	454	0.72	4.54	0.70	4.52	0.70	4.52	0700	0.72	4.54	1700	0.69	4.51
2	0.70	4.52	0.72	4.54	0.73	4.55	0.70	4.52	0.70	4.52	1000	0.73	4.55	1700	0.69	4.51
3	0.70	4.52	0.73	4.55	0.75	4.57	0.73	4.55	0.70	4.52	1100	0.75	4.57	1800	0.70	4.52
4	0.72	454	0.75	4.57	0.78	4.60	0.75	4.57	0.70	4.52	1200	0.78	4.60	1800	0.70	4.52
5	0.70	4.52	0.73	4.55	0.76	4.58	0.73	4.55	0.69	4.51	1300	0.76	458	1800	0.69	4.51
6	0.69	451	0.70	4.52	0.75	4.57	0.73	4.55	0.69	4.51	1300	0.75	457	1800	0.69	4.51
7	0.70	4.52	0.69	4.51	0.75	4.57	0.73	4.55	0.69	4.51	1400	0.75	4.57	0600	0.67	4.49
8	0.70	4.52	0.69	4.51	0.76	4.58	0.76	4.58	0.72	4.54	1500	0.76	4.58	0700	0.69	4.51
9	0.72	4.54	0.67	4.49	0.75	4.57	0.78	4.60	0.73	4.55	1500	0.78	4.60	0700	0.67	4.49
10	0.75	457	0.70	4.52	0.78	4.60	0.81	4.63	0.80	4.62	1600	0.81	4.63	1000	0.70	4. 2
11	0.80	4.62	0.75	4.57	0.78	4.60	0.84	466	0.83	4.65	1700	0.84	4.66	1000	0.73	4.55
12	0.78	4.60	0.73	4.55	0.70	4.52	0.75	4.57	0.76	4.58	0600	0.78	4.60	1100	0.70	4.52
13	0.70	4.52	0.69	4.51	0.66	4.48	0.64	446	0.69	4.51	0600	0.70	4.52	1300	0.66	4.48
14	0.64	4.46	0.66	4.48	0.63	4.45	0.60	4.42	0.63	4.45	0600	0.66	4.48	1500	0.60	4.42
15	0.60	4.42	0.63	4.45	0.63	4.45	0.58	4.40	0.58	4.40	0700	0.63	4.45	1600	0.58	4.40
16	0.58	4.40	0.63	4.45	0.63	4.45	0.60	4.42	0.58	4.40	1000	0.63	445	1700	0.58	4.40
17	0.60	442	0.64	4.46	0.67	4.49	0.64	4.46	0.63	4.45	1200	0.67	449	0600	0.60	4.42
18	0.64	446	0.70	4.52	0.73	4.55	0.70	4.52	0.67	4.49	1200	0.73	4.55	0600	0.64	4.46
19	0.72	4.54	0.76	4.58	0.80	4.62	0.78	4.60	0.75	4.57	1300	0.80	4.62	0600	0.72	4.54
20	0.78	4.60	0.80	4.62	0.86	4.68	0.84	4.66	0.81	4.63	1400	0.86	468	0700	0.78	4.60
21	0.84	4.66	0.84	4.66	0.90	4.72	0.90	4.72	0.87	4.69	1500	0.90	4.72	0600	0.83	4.65
22	0.90	4.72	0.89	4.71	0.98	4.80	0.98	4.80	0.96	4.78	1500	0.98	4.80	0700	0.89	4.71
23	1.02	4.84	0.99	4.81	1.04	4.86	1.06	4.88	1.01	4.83	1500	1.06	4.88	0700	0.99	4.[illegible]
24	0.98	4.80	0.95	4.77	0.99	4.81	1.01	4.83	0.98	4.80	1500	1.01	4.83	0700	0.95	4.77
25	0.95	4.77	0.92	4.74	0.93	4.75	0.96	4.78	0.95	4.77	1500	0.96	4.78	1000	0.92	4.74
26	0.93	4.75	0.92	4.74	0.93	4.75	0.96	4.78	0.98	4.80	1800	0.98	4.80	1000	0.92	4.74
27	1.06	4.88	1.12	4.94	1.15	4.97	1.15	4.97	1.16	4.98	1800	1.16	4.98	0600	1.06	4.88
28	1.15	4.97	1.15	4.97	1.12	4.94	1.10	4.92	1.10	4.92	0600	1.15	4.97	1800	1.10	4.92
29	1.09	4.91	1.06	4.88	1.02	4.84	1.01	4.83	1.01	4.83	0600	1.09	4.91	1800	1.01	4.83
30	0.98	4.80	0.99	4.81	0.98	4.80	0.95	4.77	0.95	4.77	1000	0.99	4.81	1800	0.95	4.77
31																

Zero Values confirmed. Monthly HwL & LWL underlined

Signature of the SDE/Unit officer
Date— — — —

Sub-Divisional Engineer
Dhaka Hydrological Sub-Division
Surface Water Hydrology-I
BWDB, Dhaka.
28/10/86

Signature of the Gauge Reader
Date... 1/10/86

WDB Surface Water Hydrology. Hydrological Sub-Div/Unit

MONTHLY GAUGE READING STATEMENT

In ft/metre above PWD Datum

20 Buriganga ...River at ...42. Mill Barrack

ONTH... October ... 1986 ... ...Non-tidal/Tidal... ...

GR = Gauge Reading. WL = Water Level.

Day	0600		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GR	WL	Hour	GR	WL	Hour	GR	WL
1	0·92	4·74	0·95	4·77	0·99	4·75	0·89	4·71	0·87	4·69	1000	0·95	4·77	1800	0·87	4·69
2	0·84	4·66	0·89	4·71	0·89	4·71	0·86	4·68	0·84	4·66	1100	0·89	4·71	1800	0·84	4·66
3	0·80	4·62	0·86	4·68	0·86	4·68	0·81	4·63	0·76	4·58	1200	0·86	4·68	1800	0·81	4·58
4	0·73	4·55	0·81	4·63	0·83	4·65	0·78	4·60	0·72	4·54	1200	0·83	4·65	1800	0·72	4·54
5	0·72	4·54	0·81	4·63	0·81	4·63	0·76	4·58	0·72	4·54	1200	0·81	4·63	1800	0·72	4·54
6	0·69	4·51	0·76	4·58	0·81	4·63	0·78	4·60	0·70	4·52	1200	0·81	4·63	0600	0·69	4·51
7	0·70	4·52	0·73	4·55	0·80	4·62	0·78	4·60	0·73	4·55	1300	0·80	4·62	0700	0·69	4·51
8	0·70	4·52	0·72	4·54	0·83	4·65	0·84	4·66	0·83	4·65	1400	0·83	4·65	0800	0·69	4·51
9	0·86	4·68	0·83	4·65	0·90	4·72	0·92	4·74	0·90	4·72	1500	0·92	4·74	0900	0·83	4·65
10	0·87	4·69	0·84	4·66	0·87	4·69	0·92	4·74	0·90	4·72	1500	0·92	4·74	1000	0·84	4·66
11	0·87	4·69	0·86	4·68	0·84	4·66	0·87	4·69	0·87	4·69	1600	0·87	4·69	1100	0·84	4·66
12	0·84	4·66	0·83	4·65	0·81	4·63	0·80	4·62	0·85	4·65	0600	0·84	4·66	1300	0·80	4·62
13	0·78	4·60	0·80	4·62	0·76	4·58	0·75	4·57	0·76	4·58	0700	0·80	4·62	1400	0·75	4·58
14	0·73	4·55	0·75	4·57	0·73	4·55	0·70	4·52	0·73	4·55	0800	0·75	4·57	1500	0·70	4·52
15	0·70	4·52	0·73	4·55	0·73	4·55	0·70	4·52	0·69	4·51	0900	0·73	4·55	1700	0·69	4·51
16	0·69	4·51	0·73	4·55	0·73	4·55	0·70	4·52	0·67	4·49	1000	0·73	4·55	1800	0·67	4·49
17	0·66	4·48	0·72	4·54	0·72	4·54	0·69	4·51	0·64	4·46	1100	0·72	4·54	1800	0·64	4·46
18	0·63	4·45	0·67	4·49	0·70	4·52	0·67	4·49	0·61	4·43	1200	0·70	4·52	1800	0·61	4·43
19	0·58	4·40	0·63	4·45	0·66	4·48	0·63	4·45	0·57	4·39	1200	0·66	4·48	1800	0·57	4·39
20	0·52	4·34	0·54	4·36	0·58	4·40	0·57	4·39	0·51	4·33	1300	0·58	4·40	0700	0·51	4·33
21	0·45	4·27	0·45	4·27	0·51	4·33	0·49	4·31	0·43	4·25	1400	0·51	4·43	0700	0·43	4·25
22	0·41	4·23	0·35	4·17	0·41	4·23	0·41	4·23	0·37	4·19	1400	0·43	4·25	0800	0·33	4·15
23	0·31	4·13	0·26 / 2·56	4·08	2·52	4·14	2·53	4·15	2·49	4·11	1500	2·53	4·15	0900	2·46	4·08
24	2·43	4·05	2·37	3·99	2·37	3·99	2·37	3·99	2·39	4·01	0600	2·43	4·05	1000	2·37	3·99
25	2·39	3·96	2·29	3·91	2·28	3·90	2·29	3·91	2·29	3·91	0600	2·39	3·96	1100	2·28	3·90
26	2·22	3·84	2·19	3·81	2·17	3·79	2·19	3·81	2·20	3·82	0600	2·22	3·84	1200	2·17	3·79
27	2·13	3·75	2·10	3·72	2·07	3·69	2·07	3·69	2·08	3·70	0700	2·13	3·75	1300	2·07	3·69
28	2·02	3·64	2·04	3·66	2·00	3·62	1·95	3·58	1·99	3·61	0800	2·04	3·66	1400	1·95	3·58
29	1·93	3·55	1·95	3·58	1·93	3·55	1·88	3·50	1·90	3·52	0900	1·95	3·58	1600	1·87	3·49
30	1·89	3·45	1·91	3·53	1·88	3·50	1·82	3·44	1·82	3·44	1000	1·91	3·53	1700	1·79	3·41
31	1·79	3·41	1·91	3·53	1·88	3·50	1·79	3·41	1·78	3·40	1000	1·91	3·53	1700	1·73	3·35

Zero Values confirmed. Monthly HwL & LWL underlined

Signature of the SDE/Unit officer

Date

Sub-Divisional Engineer
Dacca Hydrological Sub Division

Signature of the Gauge Reader

Date

BWDB Surface Water Hydrology 177—192—610 Hydrological Sub-Div/Unit Dhaka

MONTHLY GAUGE READING STATEMENT

in ft/metre above PWD Datum

20 Dhaka Gauge River at 42 Mill Barrack

MONTH November 1986 Non-tidal/Tidal

GR = Gauge Reading, WL = Water Level.

Hour / Date	0800		0900		1200		1500		1800		Highest			Lowest		
	GR	WL	GR	WL	GR	WL	GR	WL	GL	WL	Hour	GR	WL	Hour	GR	WL
1	1·72	3·35	1·94	3·56	1·90	3·52	1·79	3·41	1·70	3·32	1000	1·94	3·56	1800	1·70	3·32
2	1·70	3·32	1·99	3·61	1·92	3·54	1·79	3·41	1·67	3·29	1000	1·92	3·54	1800	1·67	3·29
3	1·62	3·24	1·94	3·56	1·92	3·54	1·79	3·41	1·64	3·26	1100	1·92	3·54	1800	1·64	3·26
4	1·56	3·18	1·82	3·44	1·88	3·50	1·75	3·35	1·58	3·20	1200	1·91	3·53	0700	1·55	3·17
5	1·49	3·11	1·58	3·20	1·82	3·44	1·68	3·30	1·53	3·15	1200	1·82	3·44	0700	1·49	3·06
6	1·42	3·05	1·36	2·98	1·71	3·33	1·64	3·26	1·49	3·11	1300	1·71	3·33	0800	1·33	2·95
7	1·36	2·98	1·22	2·84	1·49	3·11	1·55	3·17	1·39	3·01	1400	1·56	3·18	0700	1·22	2·84
8	1·30	2·92	1·17	2·79	1·27	2·89	1·52	3·14	1·43	3·05	1500	1·52	3·14	1000	1·15	2·77
9	1·52	3·14	1·52	3·14	1·58	3·20	1·94	3·56	2·00	3·62	1600	2·05	3·67	1000	1·52	3·14
10	1·62	3·24	1·55	3·17	1·43	3·05	1·43	3·05	1·55	3·17	0600	1·62	3·24	1300	1·39	3·01
11	1·43	3·05	1·66	3·08	1·36	2·98	1·26	2·88	1·35	2·97	0700	1·46	3·08	1500	1·26	2·88
12	1·26	2·88	1·36	2·98	1·29	2·91	1·17	2·79	1·18	2·80	0800	1·36	2·98	1600	1·14	2·76
13	1·15	2·77	1·35	2·97	1·27	2·89	1·15	2·77	1·12	2·74	0800	1·35	2·97	1700	1·07	2·71
14	1·09	2·71	1·35	2·97	1·29	2·91	1·12	2·74	1·03	2·65	1000	1·36	2·98	1800	1·03	2·65
15	0·97	2·59	1·33	2·95	1·27	2·89	1·10	2·72	0·97	2·59	1000	1·35	2·97	1800	0·97	2·59
16	0·92	2·54	1·30	2·92	1·30	2·92	1·12	2·74	0·97	2·59	1000	1·35	2·97	0600	0·92	2·54
17	0·91	2·53	1·24	2·86	1·30	2·92	1·12	2·74	0·97	2·59	1100	1·35	2·97	0600	0·91	2·53
18	0·88	2·50	1·18	2·80	1·29	2·91	1·12	2·74	0·94	2·56	1100	1·32	2·94	0700	0·86	2·48
19	0·85	2·47	1·00	2·62	1·18	2·80	1·03	2·65	0·85	2·47	1200	1·18	2·80	0700	0·80	2·42
20	0·74	2·36	0·82	2·44	1·10	2·72	0·97	2·59	0·82	2·44	1200	1·10	2·72	0600	0·68	2·30
21	0·71	2·33	0·71	2·33	1·06	2·68	0·97	2·59	0·80	2·42	1300	1·06	2·68	0800	0·63	2·25
22	0·69	2·31	0·59	2·21	0·94	2·56	0·92	2·54	0·75	2·37	1400	0·97	2·59	0900	0·59	2·21
23	0·65	2·27	0·54	2·16	0·75	2·37	0·85	2·47	0·69	2·31	1400	0·86	2·48	0700	0·54	2·16
24	0·57	2·19	0·46	2·08	0·54	2·16	0·72	2·34	0·61	2·23	1500	0·72	2·34	1000	0·45	2·07
25	0·51	2·13	0·42	2·04	0·36	1·98	0·56	2·18	0·54	2·16	1600	0·59	2·21	1100	0·36	1·98
26	0·51	2·13	0·42	2·04	0·31	1·93	0·36	1·98	0·48	2·10	0600	0·51	2·13	1300	0·28	1·90
27	0·51	2·13	0·45	2·07	0·30	1·92	0·24	1·86	0·48	2·10	0700	0·51	2·13	1500	0·24	1·86
28	0·51	2·13	0·52	2·14	0·36	1·98	0·21	1·83	0·42	2·04	0800	0·57	2·19	1600	0·21	1·83
29	0·48	2·10	0·59	2·21	0·42	2·04	0·24	1·86	0·36	1·98	0800	0·61	2·23	1700	0·21	1·83
30	0·45	2·07	0·71	2·33	0·48	2·10	0·30	1·92	0·36	1·98	0900	0·71	2·33	1700	0·24	1·83
31																

Zero values confirmed. MonthlY HWL & LWL underlined.

Executive Engineer
Sub-Divisional Engineer
Surface Hydrological Sub-Division
Surface Water Hydrology-1
BWDB, Dacca

29/12/86

Signature of the SDE/Unit Officer

Date.....

Abedul Haque

Signature of the Gauge Reader

Date 4/12/86

MILLBARRACK

YEAR	R(I)
1945	6.035
1946	5.999
1947	5.669
1948	6.309
1949	6.005
1950	5.761
1951	5.944
1952	5.486
1953	5.7
1954	7.056
1955	7.087
1956	5.685
1957	5.364
1958	6.447
1959	5.776
1960	6.096
1961	5.517
1965	5.983
1968	6.34
1969	5.928
1970	6.507
1971	6.233
1972	5.3
1973	5.883
1974	6.614
1975	5.425
1976	6.166
1977	5.64
1978	5.258
1979	5.288
19800	6.431
1981	5.455
1983	5.765
1984	6.04
1985	5.41

YEAR	NO	R(mm)
1955	1	7.087
1954	2	7.056
1974	3	6.614
1970	4	6.507
1958	5	6.447
19800	6	6.431
1968	7	6.34
1948	8	6.309
1971	9	6.233
1976	10	6.166
1960	11	6.096
1984	12	6.04
1945	13	6.035
1949	14	6.005
1946	15	5.999
1965	16	5.983
1951	17	5.944
1969	18	5.928
1973	19	5.883
1959	20	5.776
1983	21	5.765
1950	22	5.761
1953	23	5.7
1956	24	5.685
1947	25	5.669
1977	26	5.64
1961	27	5.517
1952	28	5.486
1981	29	5.455
1975	30	5.425
1985	31	5.41
1957	32	5.364
1972	33	5.3
1979	34	5.288
1978	35	5.258

NO	Rmm	TOMAS-P	HAZEN-P
1.	7.09	97.22	98.57
2.	7.06	94.44	95.71
3.	6.61	91.67	92.86
4.	6.51	88.89	90.00
5.	6.45	86.11	87.14
6.	6.43	83.33	84.29
7.	6.34	80.56	81.43
8.	6.31	77.78	78.57
9.	6.23	75.00	75.71
10.	6.17	72.22	72.86
11.	6.10	69.44	70.00
12.	6.04	66.67	67.14
13.	6.04	63.89	64.29
14.	6.01	61.11	61.43
15.	6.00	58.33	58.57
16.	5.98	55.56	55.71
17.	5.94	52.78	52.86
18.	5.93	50.00	50.00
19.	5.88	47.22	47.14
20.	5.78	44.44	44.29
21.	5.77	41.67	41.43
22.	5.76	38.89	38.57
23.	5.70	36.11	35.71
24.	5.69	33.33	32.86
25.	5.67	30.56	30.00
26.	5.64	27.78	27.14
27.	5.52	25.00	24.29
28.	5.49	22.22	21.43
29.	5.46	19.44	18.57
30.	5.43	16.67	15.71
31.	5.41	13.89	12.86
32.	5.36	11.11	10.00
33.	5.30	8.33	7.14
34.	5.29	5.56	4.29
35.	5.26	2.78	1.43
	35	207.602	5.93149

DEMRA

YEAR	R(I)
1962	6.28
1963	5.91
1964	6.386
1965	5.795
1966	6.225
1967	5.42
1968	6.07
1969	5.84
1970	6.23
1971	6.02
1972	5.39
1973	5.87
1974	6.57
1975	5.59
1976	5.46
1977	5.91
1979	5.579
1980	6.22
1981	5.73
1982	5.99
1983	5.89
1984	6.32
1985	5.69

YEAR	NO	R(mm)
1974	1	6.57
1964	2	6.386
1984	3	6.32
1962	4	6.28
1970	5	6.23
1966	6	6.225
1980	7	6.22
1968	8	6.07
1971	9	6.02
1982	10	5.99
1963	11	5.91
1977	12	5.91
1983	13	5.89
1973	14	5.87
1969	15	5.84
1965	16	5.795
1981	17	5.73
1985	18	5.69
1975	19	5.59
1979	20	5.578
1976	21	5.46
1967	22	5.42
1972	23	5.39

NO	Rmm	TOMAS-P	HAZEN-P
1.	6.57	95.83	97.83
2.	6.39	91.67	93.48
3.	6.32	87.50	89.13
4.	6.28	83.33	84.78
5.	6.23	79.17	80.43
6.	6.23	75.00	76.09
7.	6.22	70.83	71.74
8.	6.07	66.67	67.39
9.	6.02	62.50	63.04
10.	5.99	58.33	58.70
11.	5.91	54.17	54.35
12.	5.91	50.00	50.00
13.	5.89	45.83	45.65
14.	5.87	41.67	41.30
15.	5.84	37.50	36.96
16.	5.80	33.33	32.61
17.	5.73	29.17	28.26
18.	5.69	25.00	23.91
19.	5.59	20.83	19.57
20.	5.58	16.67	15.22
21.	5.46	12.50	10.87
22.	5.42	8.33	6.52
23.	5.39	4.17	2.17
23		136.384	5.92974

MIRPUR

YEAR	R(I)
1953	6.23
1954	7.6
1955	7.62
1956	5.99
1957	6.16
1958	7.13
1959	6.48
1960	6.58
1961	5.94
1962	7.53
1963	6.69
1964	7.13
1965	6.73
1966	6.935
1968	6.72
1969	6.325
1970	7.13
1972	5.7
1973	6.315
1974	7.06
1977	5.95
1978	5.465
1979	5.5
1980	7.155
1981	5.75
1983	5.99
1984	6.59
1985	5.75

NO	Rmm	TOMRS-P	HAZEN-P
1.	7.62	96.55	98.21
2.	7.60	93.10	94.64
3.	7.53	89.66	91.07
4.	7.16	86.21	87.50
5.	7.13	82.76	83.93
6.	7.13	79.31	80.36
7.	7.13	75.86	76.79
8.	7.06	72.41	73.21
9.	6.94	68.97	69.64
10.	6.73	65.52	66.07
11.	6.72	62.07	62.50
12.	6.69	58.62	58.93
13.	6.59	55.17	55.36
14.	6.58	51.72	51.79
15.	6.48	48.28	48.21
16.	6.33	44.83	44.64
17.	6.32	41.38	41.07
18.	6.23	37.93	37.50
19.	6.16	34.48	33.93
20.	5.99	31.03	30.36
21.	5.99	27.59	26.79
22.	5.95	24.14	23.21
23.	5.94	20.69	19.64
24.	5.75	17.24	16.07
25.	5.75	13.79	12.50
26.	5.70	10.34	8.93
27.	5.50	6.90	5.36
28.	5.47	3.45	1.79
	28	182.145	6.50518

YEAR	NO	R(mm)
1955	1	7.62
1954	2	7.6
1962	3	7.53
1980	4	7.155
1958	5	7.13
1964	6	7.13
1970	7	7.13
1974	8	7.06
1966	9	6.935
1965	10	6.73
1968	11	6.72
1963	12	6.69
1984	13	6.59
1960	14	6.58
1959	15	6.48
1969	16	6.325
1973	17	6.315
1953	18	6.23
1957	19	6.16
1956	20	5.99
1983	21	5.99
1977	22	5.95
1961	23	5.94
1981	24	5.75
1985	25	5.75
1972	26	5.7
1979	27	5.5
1978	28	5.465

TONGI

YEAR	R(I)
1960	6.28
1961	6
1962	7.15
1963	6.43
1964	6.875
1965	6.416
1966	6.66
1967	5.745
1968	6.575
1969	6.22
1970	6.99
1971	6.6
1972	5.685
1973	6.235
1974	6.98
1975	5.63
1976	5.46
1977	5.905
1978	5.441
1979	5.475
1980	6.873
1982	5.9
1983	6.28
1985	5.63

NO	Rmm	TOMAS-P	HAZEN-P
1.	7.15	96.00	97.92
2.	6.99	92.00	93.75
3.	6.98	88.00	89.58
4.	6.88	84.00	85.42
5.	6.87	80.00	81.25
6.	6.66	76.00	77.08
7.	6.60	72.00	72.92
8.	6.58	68.00	68.75
9.	6.43	64.00	64.58
10.	6.42	60.00	60.42
11.	6.28	56.00	56.25
12.	6.28	52.00	52.08
13.	6.24	48.00	47.92
14.	6.22	44.00	43.75
15.	6.00	40.00	39.58
16.	5.91	36.00	35.42
17.	5.90	32.00	31.25
18.	5.75	28.00	27.08
19.	5.69	24.00	22.92
20.	5.63	20.00	18.75
21.	5.63	16.00	14.58
22.	5.48	12.00	10.42
23.	5.46	8.00	6.25
24.	5.44	4.00	2.08
24		149.435	6.22646

YEAR	NO	R(mm)
1962	1	7.15
1970	2	6.99
1974	3	6.98
1964	4	6.875
1980	5	6.873
1966	6	6.66
1971	7	6.6
1968	8	6.575
1963	9	6.43
1965	10	6.416
1960	11	6.28
1983	12	6.28
1973	13	6.235
1969	14	6.22
1961	15	6
1977	16	5.905
1982	17	5.9
1967	18	5.745
1972	19	5.685
1975	20	5.63
1985	21	5.63
1979	22	5.475
1976	23	5.46
1978	24	5.441

MILLBARRACK

NO	Xi	X^2	Y
1	7.087	50.23	3.358
2	7.056	49.79	3.283
3	6.614	43.74	2.205
4	6.507	42.34	1.944
5	6.447	41.56	1.797
6	6.431	41.36	1.758
7	6.340	40.20	1.537
8	6.309	39.80	1.461
9	6.233	38.85	1.276
10	6.166	38.02	1.112
11	6.096	37.16	0.941
12	6.040	36.48	0.805
13	6.035	36.42	0.793
14	6.005	36.06	0.720
15	5.999	35.99	0.705
16	5.983	35.80	0.666
17	5.944	35.33	0.571
18	5.928	35.14	0.532
19	5.883	34.61	0.422
20	5.776	33.36	0.161
21	5.765	33.24	0.134
22	5.761	33.19	0.125
23	5.700	32.49	-0.024
24	5.685	32.32	-0.061
25	5.669	32.14	-0.100
26	5.640	31.81	-0.171
27	5.517	30.44	-0.470
28	5.486	30.10	-0.546
29	5.455	29.76	-0.622
30	5.425	29.43	-0.695
31	5.410	29.27	-0.731
32	5.364	28.77	-0.844
33	5.300	28.09	-1.000
34	5.288	27.96	-1.029
35	5.258	27.65	-1.102

NO OF DATA	GUMBEL Y	Sy
35	.5403	1.1285

Mean Y	Mean Y^2	Sx
5.93149	35.3967	.462767

T (YEAR)	P=1/T	W.L/R
2.	0.5000	5.86
3.	0.3333	6.08
5.	0.2000	6.33
10.	0.1000	6.63
20.	0.0500	6.93
50.	0.0200	7.31
100.	0.0100	7.60

DEMRA

NO	Xi	X^2	Y
1	6.570	43.16	2.705
2	6.386	40.78	2.079
3	6.320	39.94	1.855
4	6.280	39.44	1.719
5	6.230	38.81	1.549
6	6.225	38.75	1.532
7	6.220	38.69	1.515
8	6.070	36.84	1.005
9	6.020	36.24	0.835
10	5.990	35.88	0.733
11	5.910	34.93	0.461
12	5.910	34.93	0.461
13	5.890	34.69	0.393
14	5.870	34.46	0.325
15	5.860	34.11	0.223
16	5.795	33.58	0.070
17	5.730	32.83	-0.151
18	5.690	32.38	-0.287
19	5.590	31.25	-0.627
20	5.578	31.11	-0.667
21	5.460	29.81	-1.068
22	5.420	29.38	-1.204
23	5.390	29.05	-1.306

NO OF DATA	GUMBEL Y	Sy
23	.5283	1.0811

Mean Y	Mean Y^2	Sx
5.92974	35.263	.318036

T (YEAR)	P=1/T	W.L/R
2.	0.5000	5.88
3.	0.3333	6.04
5.	0.2000	6.22
10.	0.1000	6.44
20.	0.0500	6.65
50.	0.0200	6.92
100.	0.0100	7.13

MIRPUR

NO	Xi	X^2	Y
1	7.620	58.06	2.497
2	7.600	57.76	2.462
3	7.530	56.70	2.338
4	7.155	51.19	1.678
5	7.130	50.84	1.634
6	7.130	50.84	1.634
7	7.130	50.84	1.634
8	7.040	49.84	1.511
9	6.935	48.09	1.291
10	6.730	45.29	0.930
11	6.720	45.16	0.912
12	6.690	44.76	0.860
13	6.590	43.43	0.684
14	6.580	43.30	0.666
15	6.480	41.99	0.490
16	6.325	40.01	0.217
17	6.315	39.88	0.199
18	6.230	38.81	0.050
19	6.160	37.95	-0.073
20	5.990	35.88	-0.373
21	5.990	35.88	-0.373
22	5.950	35.40	-0.443
23	5.940	35.28	-0.461
24	5.750	33.06	-0.795
25	5.750	33.06	-0.795
26	5.700	32.49	-0.883
27	5.500	30.25	-1.235
28	5.460	29.87	-1.297

NO OF DATA	GUMBEL Y	Sy
28	.5343	1.1047

Mean Y	Mean Y^2	Sx
6.50518	42.7111	.627498

T (YEAR)	P=1/T	W.L/R
2.	0.5000	6.41
3.	0.3333	6.71
5.	0.2000	7.05
10.	0.1000	7.48
20.	0.0500	7.89
50.	0.0200	8.42
100.	0.0100	8.81

TONGI

NO	Xi	X^2	Y
1	7.150	51.12	2.437
2	6.990	48.86	2.106
3	6.980	48.72	2.086
4	6.875	47.27	1.869
5	6.873	47.24	1.865
6	6.660	44.36	1.425
7	6.600	43.56	1.301
8	6.575	43.23	1.249
9	6.430	41.34	0.950
10	6.416	41.17	0.921
11	6.280	39.44	0.640
12	6.280	39.44	0.640
13	6.235	38.88	0.547
14	6.220	38.69	0.516
15	6.000	36.00	0.062
16	5.905	34.87	-0.134
17	5.900	34.81	-0.145
18	5.795	33.01	-0.465
19	5.685	32.32	-0.589
20	5.630	31.70	-0.702
21	5.630	31.70	-0.702
22	5.475	29.98	-1.022
23	5.460	29.81	-1.053
24	5.441	29.60	-1.093

NO OF DATA	GUMBEL Y	Sy
24	.5296	1.0864

Mean Y	Mean Y^2	Sx
6.22646	39.0455	.526044

T (YEAR)	P=1/T	W.L/R
2.	0.5000	6.15
3.	0.3333	6.41
5.	0.2000	6.70
10.	0.1000	7.06
20.	0.0500	7.41
50.	0.0200	7.86
100.	0.0100	8.20

REFERENCE

MILLBARRACK

NO	Xi	X^2	Y
1	6.614	43.74	2.257
2	6.507	42.34	2.009
3	6.431	41.36	1.833
4	6.340	40.20	1.622
5	6.233	38.85	1.374
6	6.166	38.02	1.219
7	6.040	36.48	0.927
8	5.928	35.14	0.667
9	5.883	34.61	0.563
10	5.765	33.24	0.289
11	5.640	31.81	-0.000
12	5.455	29.76	-0.429
13	5.425	29.43	-0.499
14	5.410	29.27	-0.534
15	5.300	28.09	-0.789
16	5.288	27.96	-0.816
17	5.258	27.65	-0.886

NO OF DATA	GUMBEL Y	Sy
17	.5181	1.0411

Mean Y	Mean Y^2	Sx
5.86371	34.5848	.449159

T (YEAR)	P=1/T	W.L/R
2.	0.5000	5.80
3.	0.3333	6.03
5.	0.2000	6.29
10.	0.1000	6.61
20.	0.0500	6.92
50.	0.0200	7.32
100.	0.0100	7.62

MONTHLY MEAN WATER-LEVEL AT MILL BARRACK (42) STATION (1945~1980)

NO	MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARK
1	1945	N.A.	N.A.	N.A.	1.96	2.38	N.A.	4.55	5.681	5.880	4.460	N.A.	1.99	
2	1946	1.56	1.49	1.53	1.90	2.62	3.77	5.059	5.454	4.888	4.343	N.A.	2.13	
3	1947	1.63	1.48	1.60	2.06	2.43	3.64	4.715	5.453	4.990	4.313	N.A.	1.93	
4	1948	1.59	1.49	1.57	1.98	2.94	3.97	5.199	6.009	5.139	4.464	N.A	1.92	
5	1949	1.56	1.43	1.59	2.09	2.90	N.A.	5.334	5.631	5.652	4.449	2.653	1.540	
6	1950	1.51	1.46	1.51	1.89	2.28	3.39	4.856	5.175	5.399	3.771	2.318	1.660	
7	1951	1.34	1.26	1.68	1.86	2.10	2.86	5.00	N.A.	N.A.	N.A	N.A.	1.588	
8	1952	NA	1.57	N.A	1.76	2.22	3.21	4.56	4.59	5.22	4.45	2.90	1.96	
9	1953	1.51	1.57	1.84	2.01	2.41	3.41	4.60	5.39	5.11	4.47	2.45	1.77	
10	1954	1.43	1.55	1.53	1.98	2.55	3.87	5.59	6.73	6.09	4.57	2.77	1.80	
11	1955	1.54	1.48	1.68	2.05	2.53	3.60	N.A.	6.72	5.94	3.93	2.70	1.85	
12	1956	1.44	1.33	1.45	1.61	2.95	4.33	5.29	5.07	5.27	3.74	2.73	1.64	
13	1957	1.18	1.15	1.13	1.40	2.23	2.86	4.13	5.03	4.11	3.01	1.90	1.41	
14	1958	1.21	1.16	1.37	1.69	2.64	3.17	3.99	5.27	5.70	4.31	2.78	1.92	
15	1959	N.A	N.A	N.A.	1.95	2.69	3.71	4.85	5.31	4.72	4.30	2.61	1.84	

NO	MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARK
16	1960	1.41	1.35	1.28	1.57	2.07	3.15	4.44	5.27	5.59	4.46	2.45	1.87	
17	1961	1.55	1.38	1.92	1.93	2.52	3.59	4.15	4.90	5.14	N.A.	N.A.	N.A.	
18	1968	N.A	N.A	N.A.	1.99	2.47	4.63	5.42	5.79	4.95	4.51	2.53	1.92	1962~67 N.A.
19	1969	1.57	1.53	1.65	1.88	2.18	3.48	4.91	5.54	5.56	3.83	2.43	1.90	
20	1970	1.59	1.46	1.63	2.04	2.83	3.66	4.98	6.24	5.13	4.82	2.96	2.08	
21	1971	1.81	1.63	1.45	1.84	2.20	3.42	4.91	5.82	5.71	4.58	3.00	2.07	
22	1972	1.77	1.47	1.63	2.08	2.70	3.43	4.39	4.95	4.42	3.27	2.20	1.78	
23	1973	1.48	1.40	1.47	2.10	2.83	3.78	4.78	5.50	4.97	4.39	2.91	2.16	
24	1974	1.78	1.57	1.78	2.10	2.87	3.57	5.21	6.23	5.65	4.32	2.81	2.01	
25	1975	1.71	1.62	1.62	2.04	2.50	3.13	4.31	5.06	4.88	4.05	2.83	2.08	
26	1976	1.67	1.55	1.74	2.00	2.47	3.47	4.81	4.76	4.68	3.32	2.31	1.96	
27	1977	1.59	1.54	1.72	2.32	2.99	4.03	4.68	5.28	5.03	3.84	2.57	2.03	
28	1978	1.61	1.57	1.59	NA	N.A	N.A.	N.A	N.A.	N.A.	NA	N.A	N.A.	1979 N.A.
29	1980	N.A.	N.A	N.A.	2.00	2.79	3.58	4.50	5.63	5.35	4.00	2.64	1.98	
30	1981	1.62	1.51	1.60	NA	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
ANNUAL AVG =		1.55	1.46	1.58	1.68	2.55	3.43	4.785	5.50	5.23	4.15	2.62	1.88	

Extreme Monthly Runoff(Mirpur, Tongi, Demra).

(X $10^6 m^3$)

YEAR	TONGI	MIRPUR	DEMRA	REMARKS
1964	470	1190		
65	323	1113	348	
66	484	1200	441	
67	232	688	399	
68	430	1210	475	
69	277	804	N.A.	
1970	526	1060	N.A.	
71	N.A.	N.A.	N.A.	
72	189	883	N.A.	
73	N.A.	1020	N.A.	
74	410	1600	N.A.	
75	N.A.	764	N.A.	
76	N.A.	696	N.A.	
77	128	937	328	
78	101	718	183	
79	65	998	294	
1980	508	1580	451	
81	N.A.	869	295	
82	N.A.	647	140	
83	N.A.	N.A.	N.A.	
84	N.A.	N.A.	N.A.	
85	N.A.	N.A.	N.A.	

SOURCE : B.W.D.B NA : Not Available

Data on Water-level Frequency

Station : MILL BARRAK (42)

NO	Water-level / YEAR	5,5 (m)	6.0 (m)	6.5 (m)	7.0 (m)	REMARKS
2	1954	79 days	48 days	40 days	1 day	7.056
		JUL - 6 Sep 22	JUL 30 - Sep 15	Aug 3 - Sep 11	Sep 5	
1	1955	45 days	33 days	23 days	8 days	7.087
		JUL 27 - Sep 9	Aug 2 - Sep 3	Aug 5 - Aug 27	Aug 14 - Aug 21	
5	1958	32 days	15 days	1 day		6.447
		Aug 18 - Sep 18	Aug 26 - Sep 9	Sep 5		
4	1970	42 days	28 days	1 day		6.507
		Jul 24 - Sep 3	Jul 29 - Aug 25	Aug 5		
3	1974	62 days	24 days	8 days	1 day	6.614
		Jul 23 - Sep 22	Aug 1 - Aug 24	Aug 9 - Aug 16	Aug 10	
6	1980	29 days	13 days	1 day		6.931
		Aug 16 - Sep 13	Aug 22 - Sep 3	Aug 25		
7	1968	33 days	14 days	1 day		6.390
		Jul 19 - Aug 20	Jul 28 - Aug 10	Aug 2		
8	1948	41 days	19 days			6.309
		Jul 22 - Aug 31	Aug 6 - Aug 24			
9	1971	43 days	21 days			6.233
		Aug 8 - Sep 19	Aug 21 - Sep 10			
10	1960	24 days	4 days			6.100
		Sep 10 - Oct 3	Sep 24 - Sep 27			
	Number	10	10	7	3	65.15
	Total days	430	219	75	10	
	Mean days	43	22	11	3	6.52 m

Data on Water-level Frequency

STATION : MIRPUR (302)

NO	Water-level / YEAR	5,5 (m)	6.0 (m)	6.5 (m)	7.0 (m)	REMARKS
2	1954	87 days	62 days	47 days	40 days	7.600
		Jul 4 - Sep 28	Jul - 20 - Sep 19	Jul. 29 - Sep 13	Aug. 3 - Sep 11	
1	1955	51 days	42 days	29 days	22 days	7.620
		Jul 24 - Sep 12	Jul 28 - Sep 7	Aug 3 - Aug 31	Aug 5 - Aug 26	
4	1958	42 days	28 days	17 days	9 days	7.130
		Aug 16 Sep 26	Aug 20 - Sep 16	Aug 26 Sep 11	Aug 29 - Sep 6	
6	1970	50 days	34 days	28 days	8 days	7.130
		Jul 22 - Sep 9	Jul - 26 - Aug 28	Jul 28 - Aug 24	Aug 3 - Aug 10	
7	1974	73 days	34 days	21 days	1 day	7.060
		Jul 20 - Sep 30	Jul 26 - Aug 28	Aug 3 - Aug 23	Aug 15	
8	1980	54 days	26 days	21 days	1 day	6.980
		Jul 28 - Sep 19	Aug 19 - Sep 13	Aug 21 - Sep 10	Aug 25	
3	1962	87 days	38 days	5 days	1 day	7.530
		Jul 10 - Oct 4	Aug 20 - Sep 26	Sep 18 - Sep 22	Sep 11	
5	1964	83 days	47 days	41 days	6 days	7.130
		Jul 19 - Oct 9	Jul 29 - Sep 13	Aug 4 - Sep 13	Aug 10 - Aug 15	
9	1966	89 days	19 days	32 days	1 day	6.935
		Jul 10 - Oct 6	Jul 26 - Aug 13	Aug 23 - Sep 23	Sep - 6	
10	1965	8 days	45 days	5 days		6.730
		Jul 30 - Aug 6	Aug 14 - Sep 27	Aug 26 - Aug 30		
	Number	10	10	10	9	
	Total days	624	375	246	89	
	Mean	62	38	25	10	

Data on Water-level Frequency

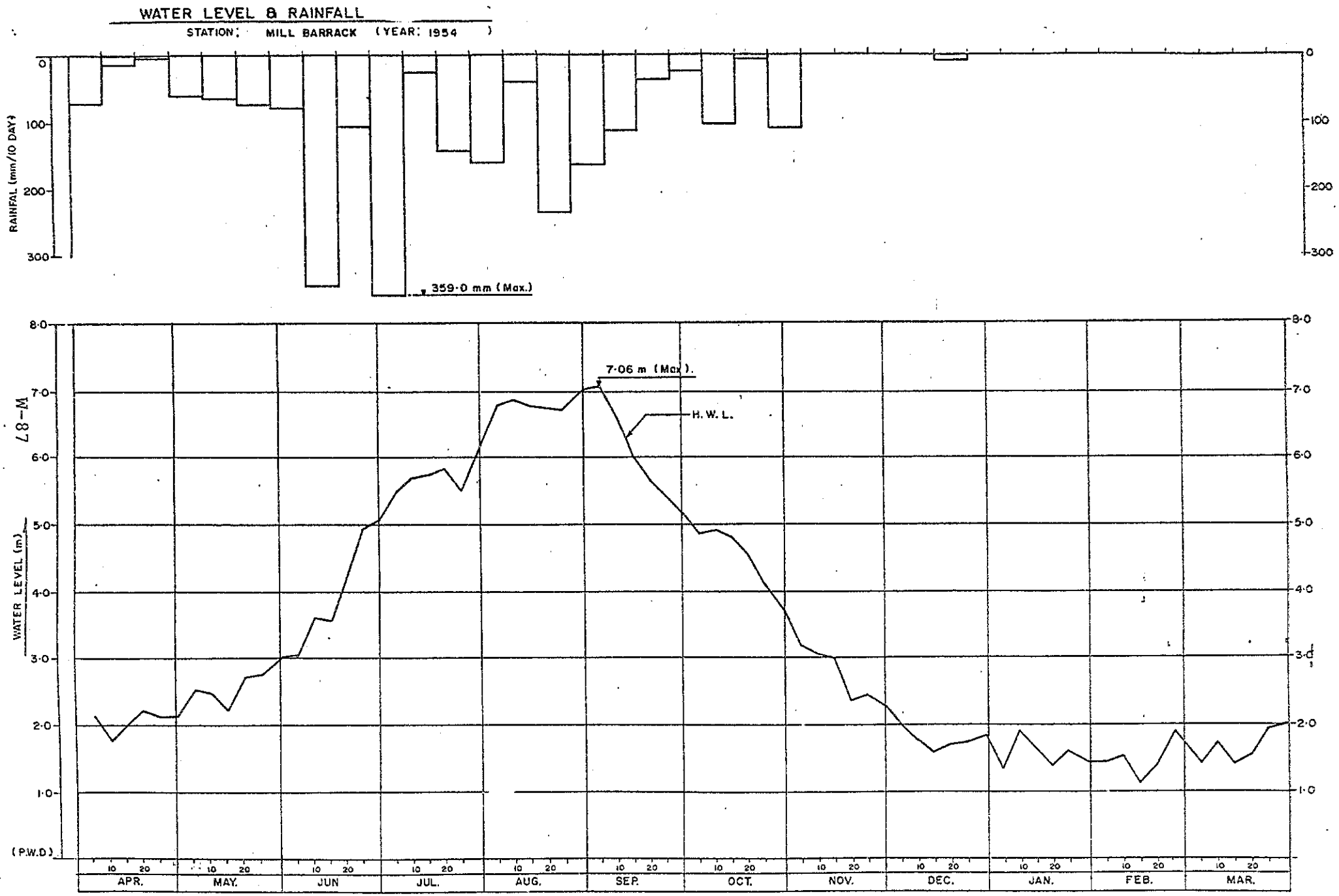
STATION : TONGI (299)

NO	Water-level / YEAR	5,5 (m)	6.0 (m)	6.5 (m)	7.0 (m)	REMARKS
2	1970	50 days	37 days	26 days	1 day	6·965
		Jul 23 – Sep 10	Jul 26 – Aug 31	Jul 31 – Aug 25	Aug 5	
3	1974	60 days	59 days	21 days	1 day	6·935
		Jul 13 – Sep 30	Jul 24 – Sep 20	Aug 3 – Aug	Aug 15	
1	1962	69 days	37 days	24 days	10 days	7·150
		Jul 29 – Oct 5	Aug 21 – Sep 26	Aug 25 – Sep 17	Aug 29 – Sep 7	
8	1963	65 days	44 days			6·930
		Jul 21 – Sep 23	Aug 4 – Sep 16			
4	1964	78 days	33 days	14 days		6·875
		Jul 19 – Oct 4	Jul 30 – Aug 31	Aug 7 – Aug 20		
5	1966	43 days	27 days	19 days		6·66
		Aug 17 – Sep 28	Aug 28 – Sep 23	Sep 3 – Sep 16		
7	1968	60 days	22 days	5 days		6·575
		Jul 10 – Sep 7	Jul 27 – Aug 17	Aug 1 – Aug 5		
6	1971	79 days	38 days	5 days		6·600
		Jul 18 – Oct 1	Aug 12 – Sep 18	Sep 5 – Sep 9		
		8	8	7	3	
	Total days	524	297	109	12	
	Mean	66	37	15	4	

Data on Water-level Frequency

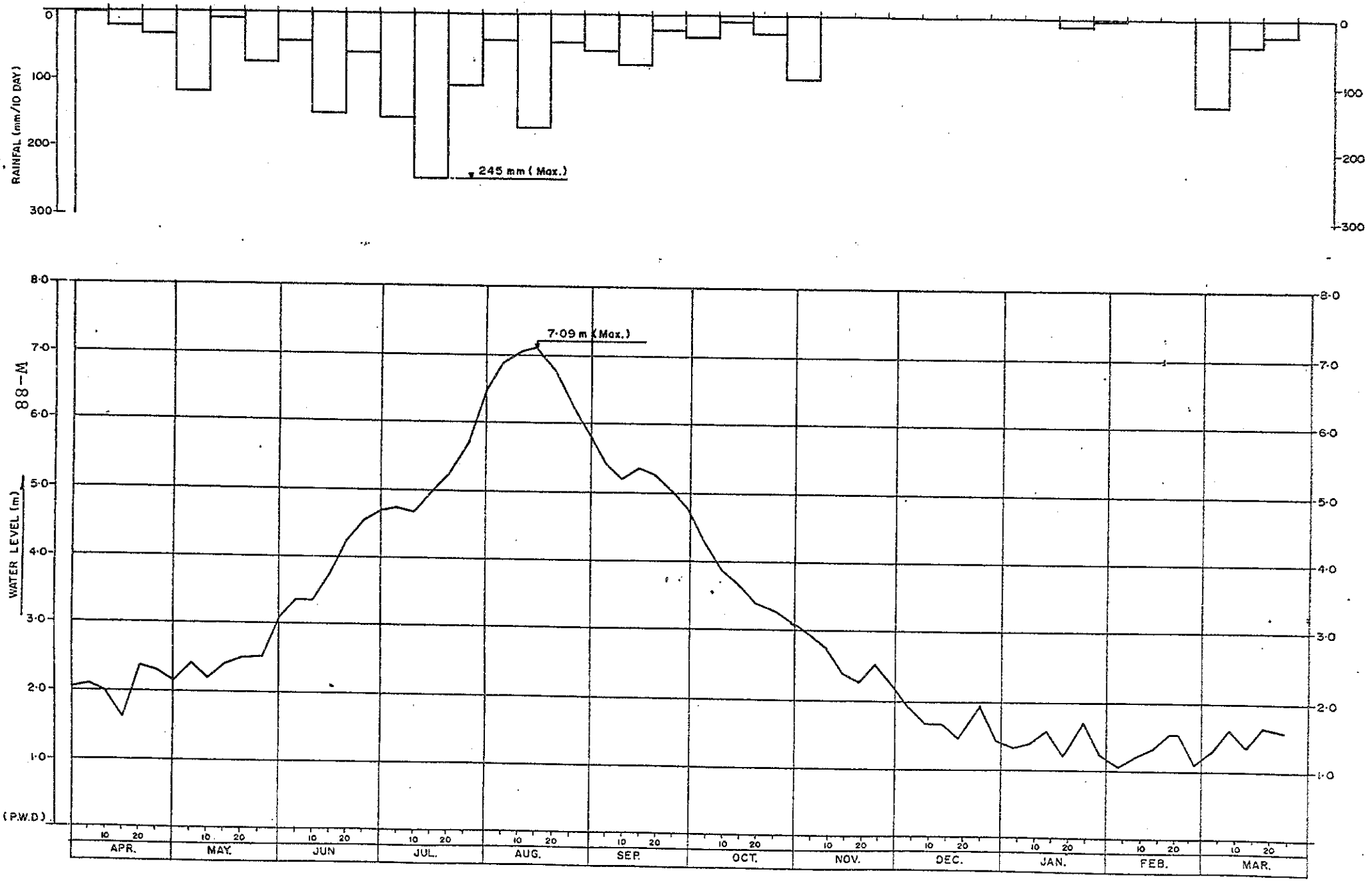
STATION : DEMRA (7.5)

NO	Water-level / YEAR	5,5 ~ (m)	6.0 ~ (m)	6.5 ~ (m)	7.0 ~ (m)	REMARKS
5	1970	45 days	21 days	1 day		6·230
		Jul 24 – Sep 6	Aug 3 – Aug 23	Aug 10		
1	1974	69 days	28 days	7 days	1 day	6·570
		Jul 19 – Sep 25	Jul 29 – Aug 25	Aug 9 – Aug 15	Aug 10	
7	1980	59 days	12 days	1 day		6·220
		Jul 29 – Sep 15	Aug 23 – Sep 3	Aug 31		
4	1962	39 days	20 days	3 days		6·280
		Aug 19 – Sep 26	Aug 28 – Sep 16	Sep 2 – Sep 4		
2	1964	55 days	14 days	1 day		6·386
		Jul 25 – Sep 17	Aug 6 – Aug 19	Aug 12		
6	1966	33 days	18 days	1 day		6·225
		Aug 23 – Sep 24	Sep 1 – Sep 18	Sep 5		
8	1968	32 days	7 days			6·070
		Jul 18 – Aug 18	Jul 30 – Aug 5			
9	1971	39 days	11 days			6·020
		Aug 9 – Sep 16	Aug 28 – Sep 7			
10	1982	2 days	1 day			5·990
		Aug 8 – Aug 9	Sep 11			
3	1984	82 days	10 days	1 day		6·320
		Jul 17 – Oct 6	Sep 21 – Oct 1	Sep 27		
	Number	10	10	7	1	
	Total days	455	142	14	1	
	Mean	46	14	2	1	


WATER LEVEL & RAINFALL
STATION: MILL BARRACK (YEAR: 1954)
RAINFAL (mm/10 DAY)
0
100
200
300
359·0 mm (Max.)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
(P.W.D)
WATER LEVEL (m)
L8-M
7·06 m (Max).
H. W. L.
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.

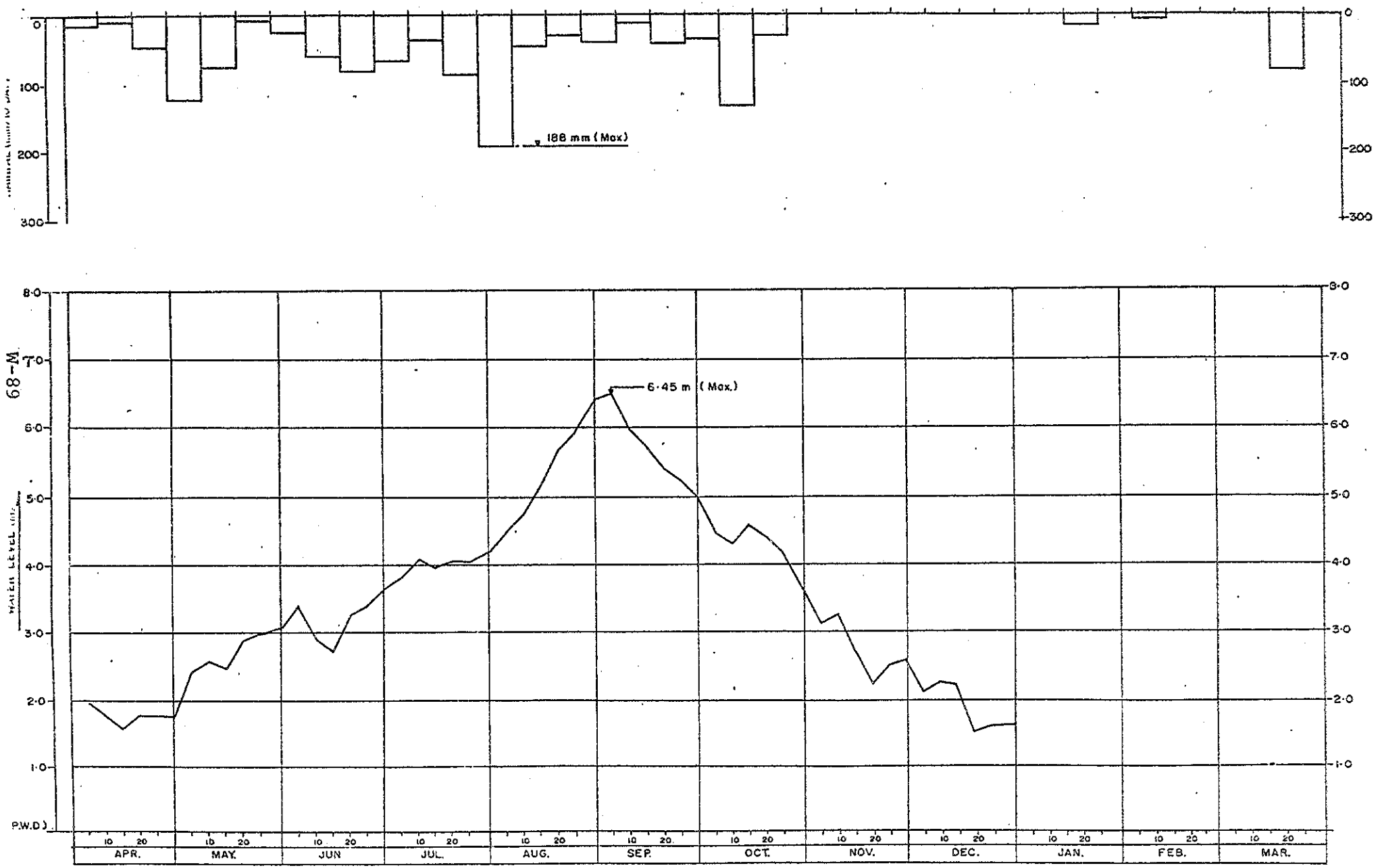
WATER LEVEL & RAINFALL

STATION: 42 MILL BARRACK (YEAR: 1955-56)



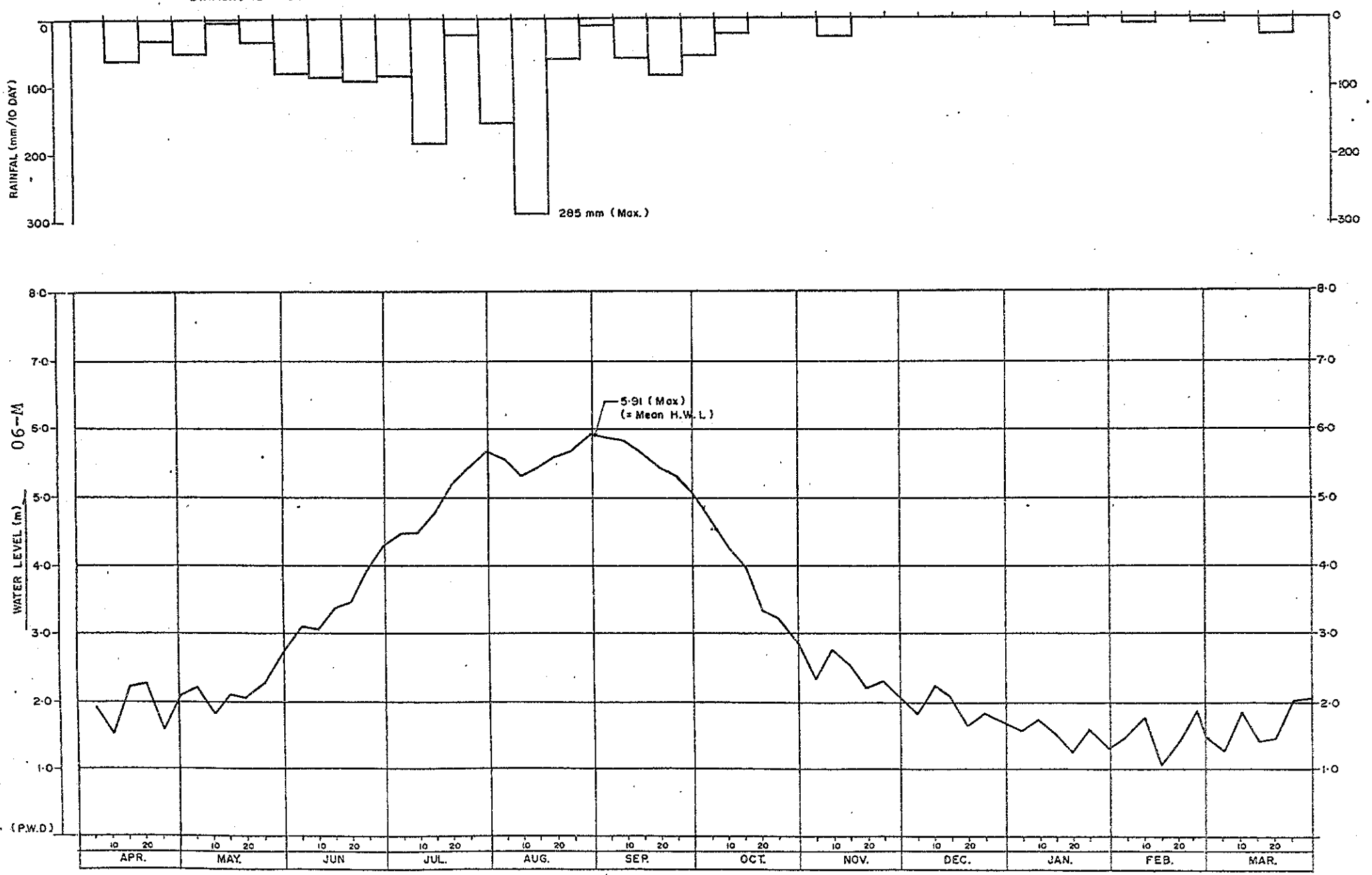
WATER LEVEL & RAINFALL

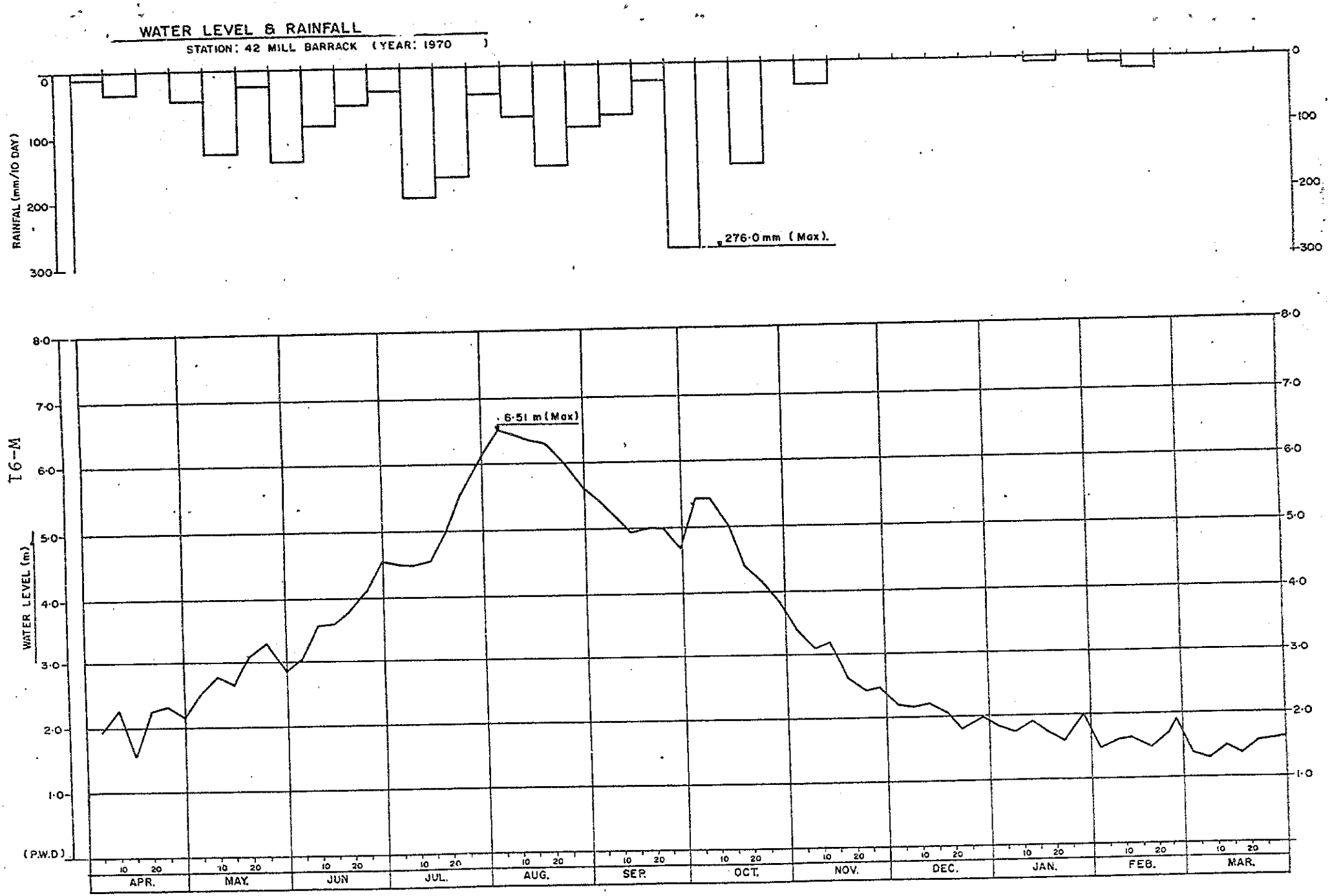
STATION: 42 MILL BARRACK (YEAR: 1958)



WATER LEVEL & RAINFALL

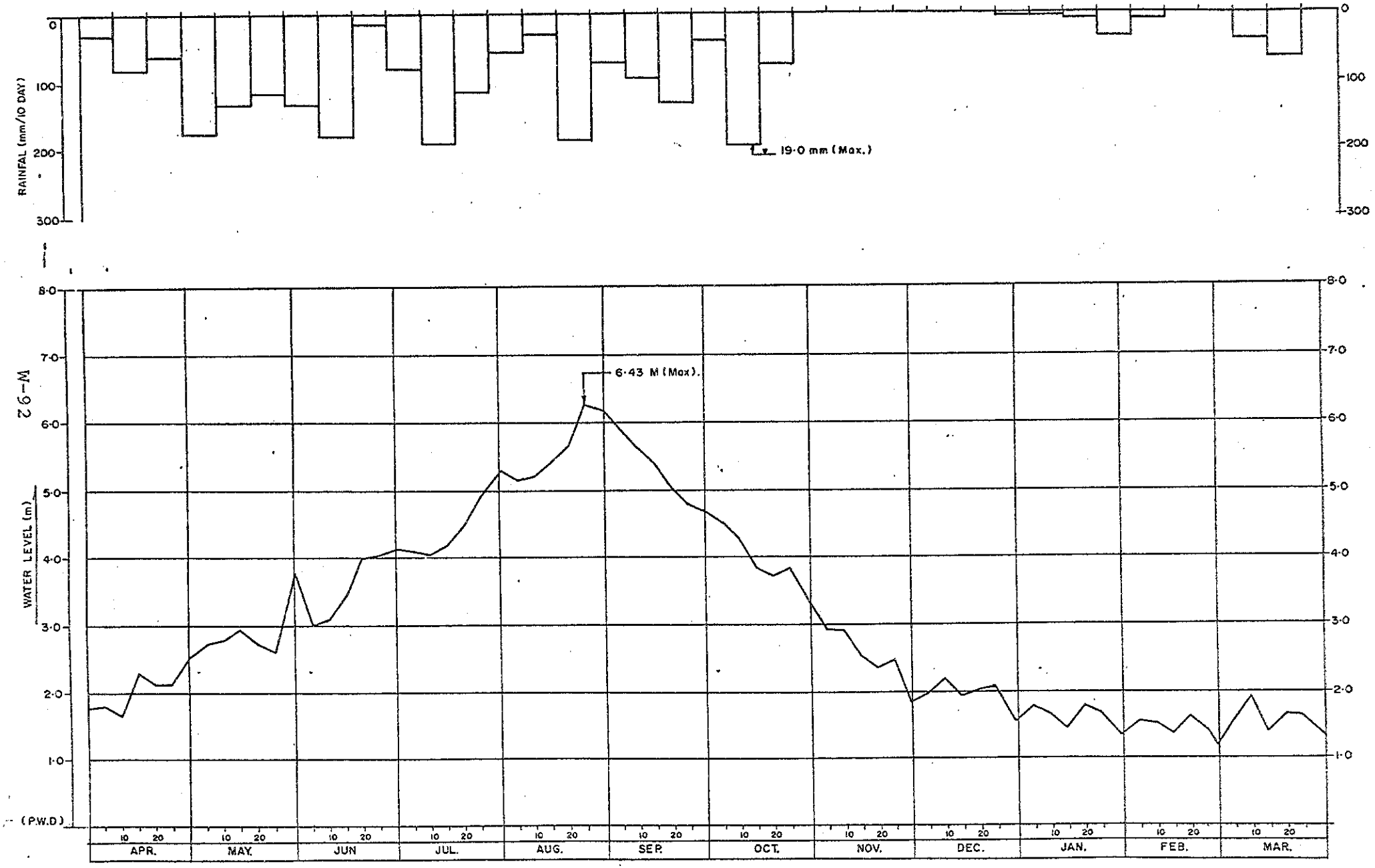
STATION: 42 MILL BARRACK (YEAR: 1969-70)

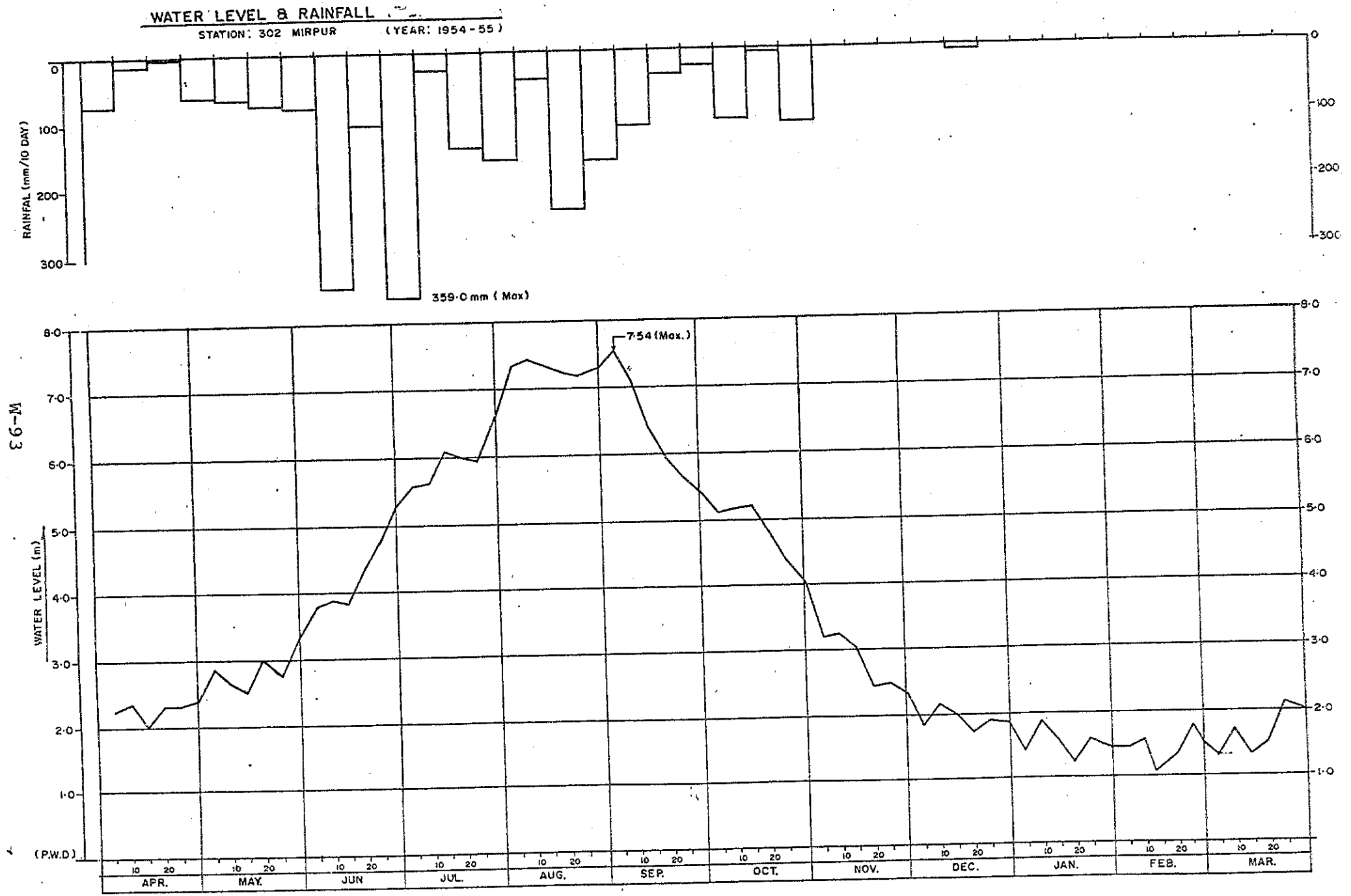



WATER LEVEL & RAINFALL
STATION: 42 MILL BARRACK (YEAR: 1970)
RAINFAL (mm/10 DAY)
0
100
200
300
276·0 mm (Max).
WATER LEVEL (m)
(P.W.D)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
6·51 m (Max)
T6-M
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.

WATER LEVEL & RAINFALL

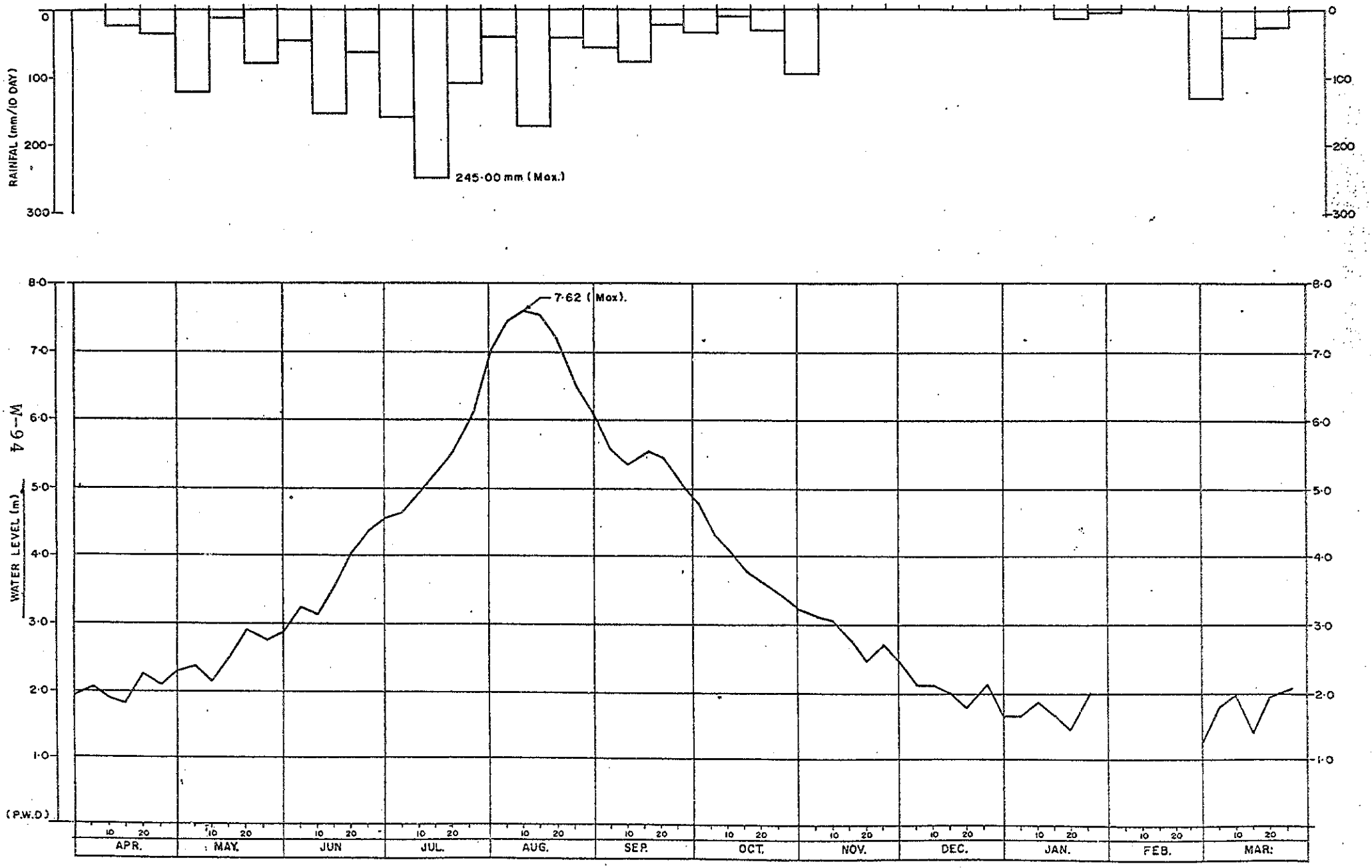
STATION: 42 MILL BARRACK (YEAR: 1980-81)




WATER LEVEL & RAINFALL
STATION: 302 MIRPUR (YEAR: 1954-55)
RAINFAL (mm/10 DAY)
0
100
200
300
359·0 mm (Max)
WATER LEVEL (m)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
(P.W.D.)
7·54 (Max.)
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.
W-93

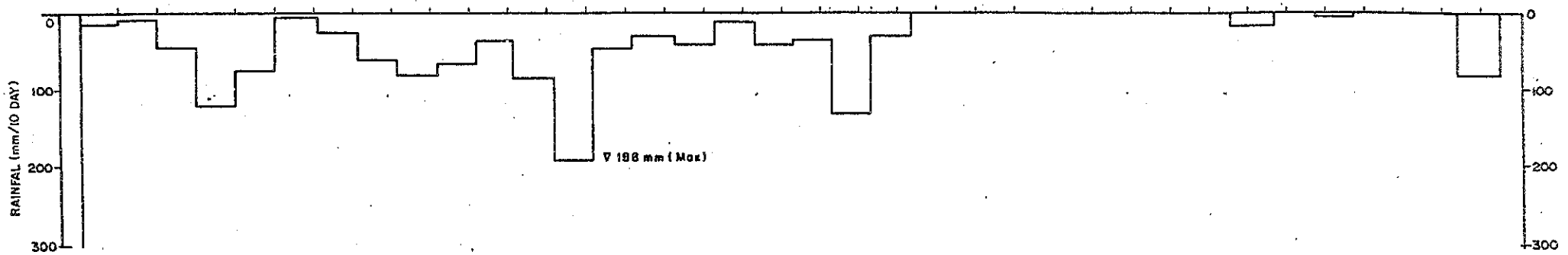
WATER LEVEL & RAINFALL

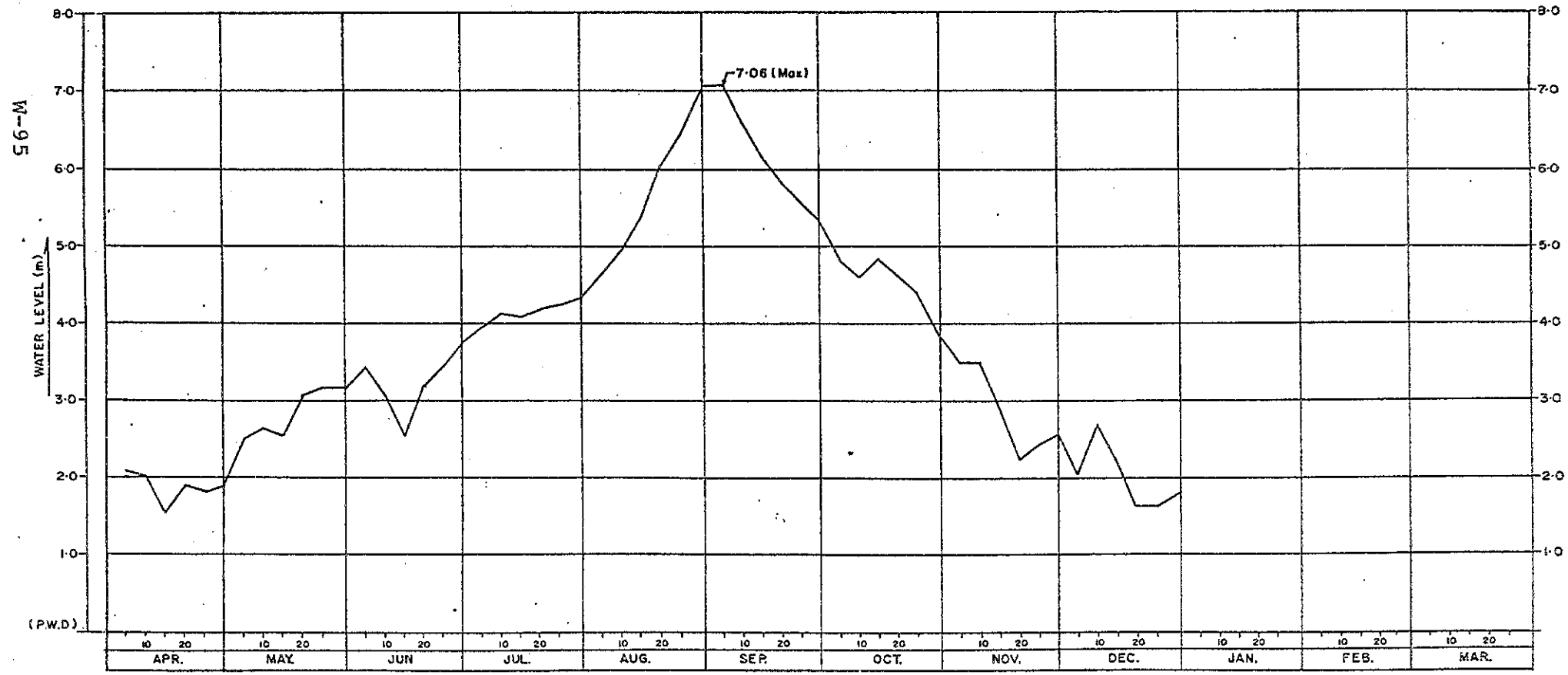
STATION: 302 MIRPUR (YEAR: 1955-56)



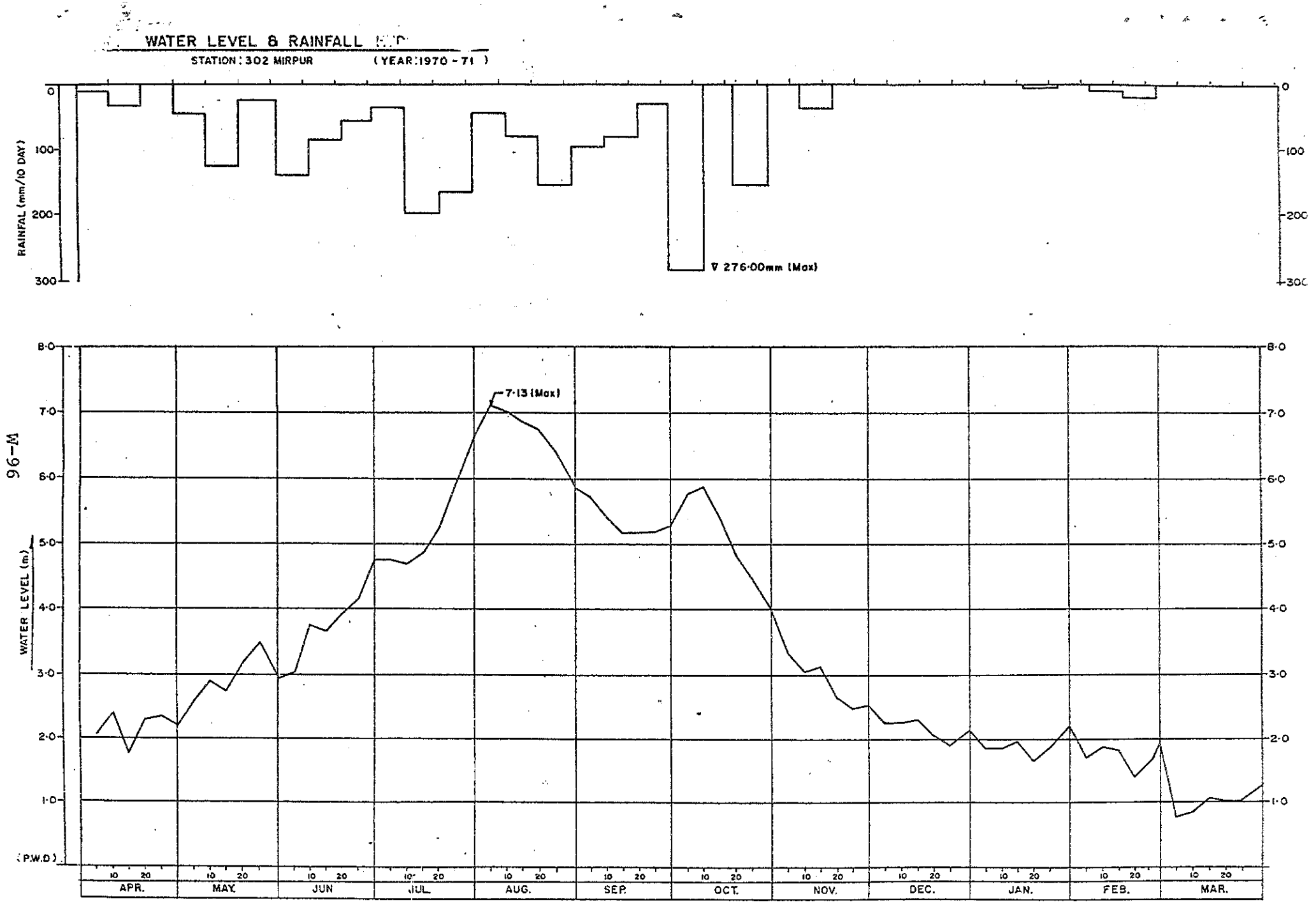
WATER LEVEL & RAINFALL [illegible]

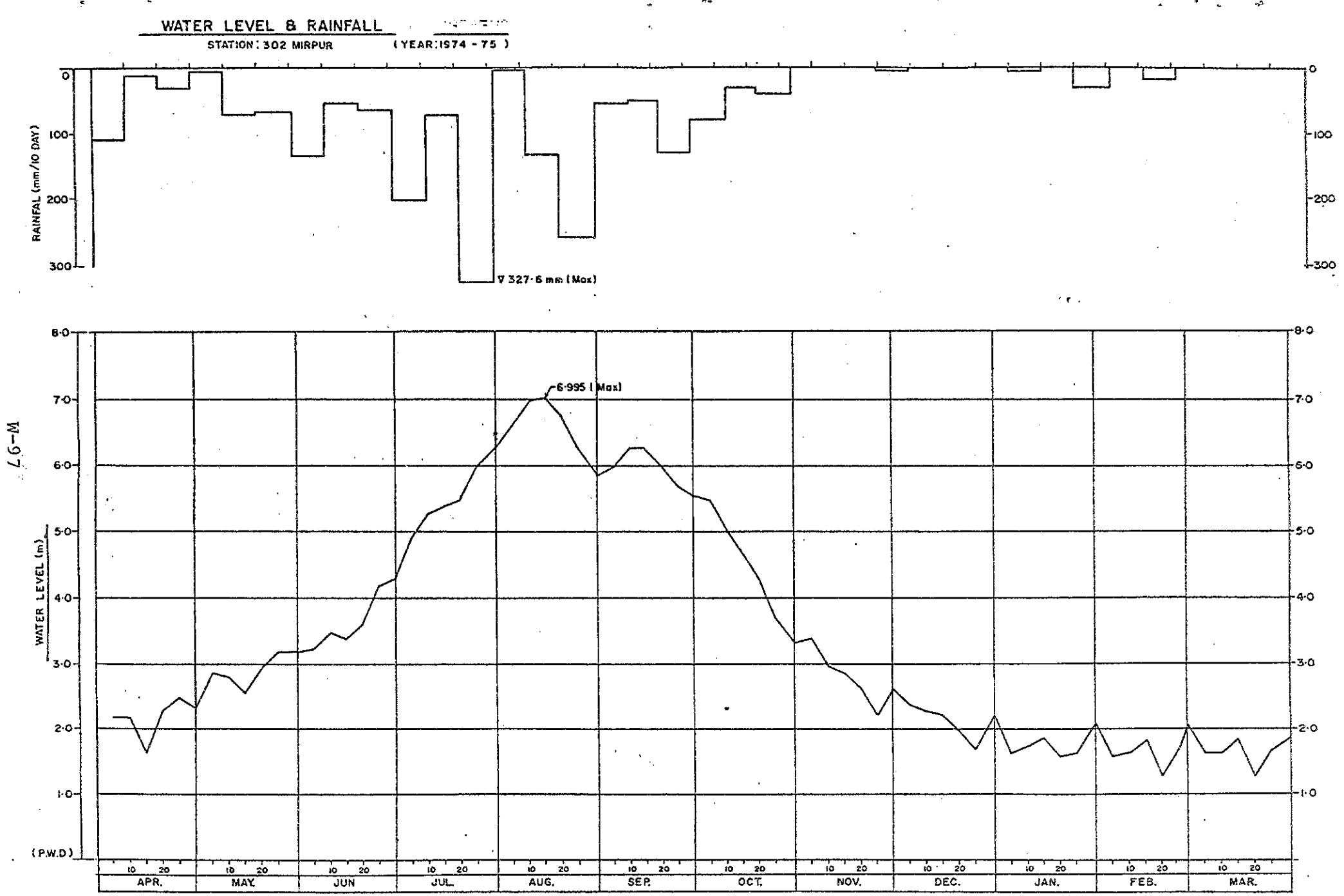
STATION : 302 MIRPUR (YEAR : 1958 - 59)





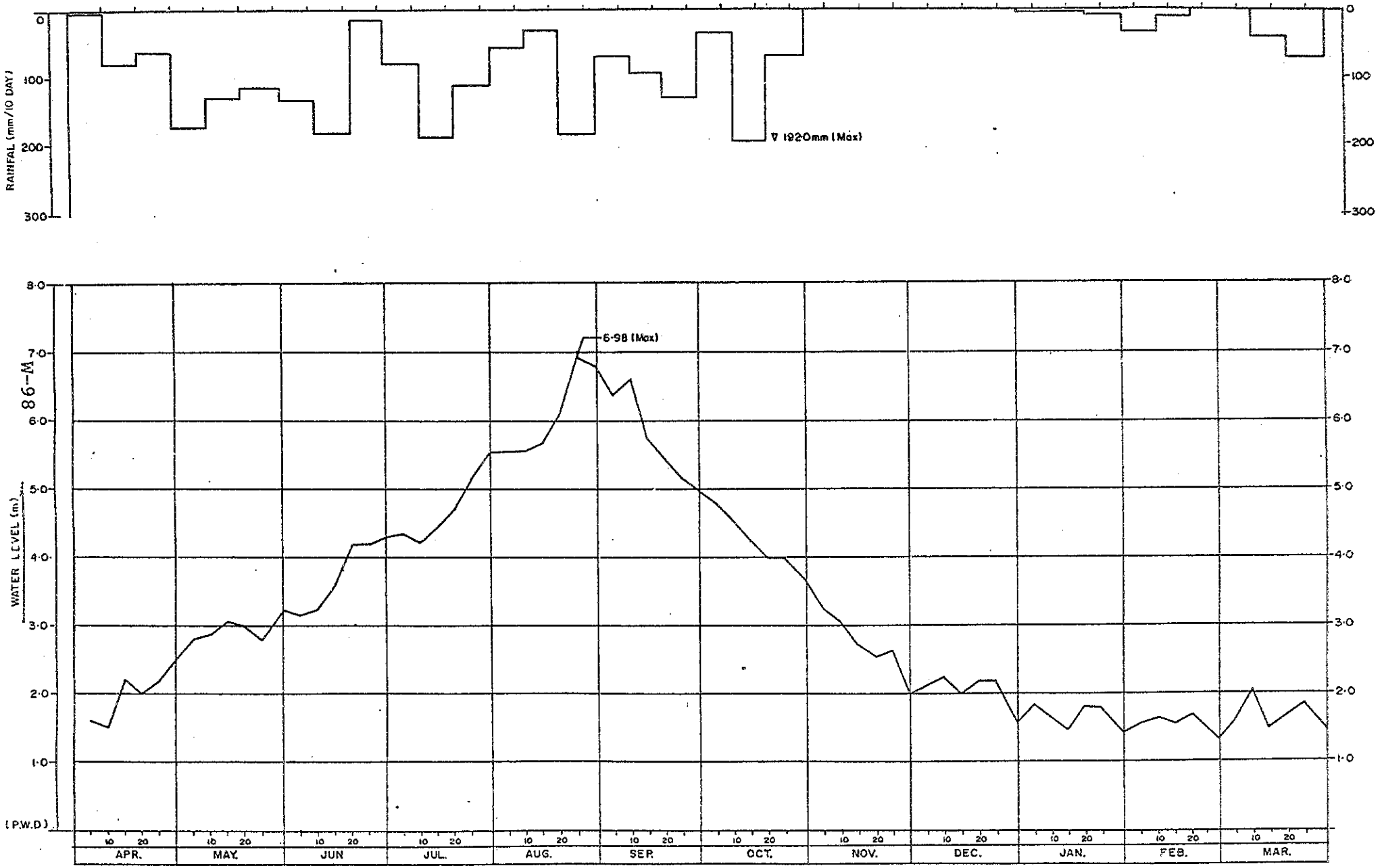
56-M


WATER LEVEL & RAINFALL
STATION : 302 MIRPUR
(YEAR : 1970 - 71)
RAINFAL (mm/10 DAY)
0
100
200
300
276·00mm (Max)
WATER LEVEL (m)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
(P.W.D)
7·13 (Max)
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.
96-M


WATER LEVEL & RAINFALL
STATION : 302 MIRPUR
(YEAR : 1974 - 75)
RAINFAL (mm/10 DAY)
0
100
200
300
327·6 mm (Max)
WATER LEVEL (m)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
(P.W.D)
6·995 (Max)
APR.
MAY
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.
10
20
W-97

WATER LEVEL & RAINFALL

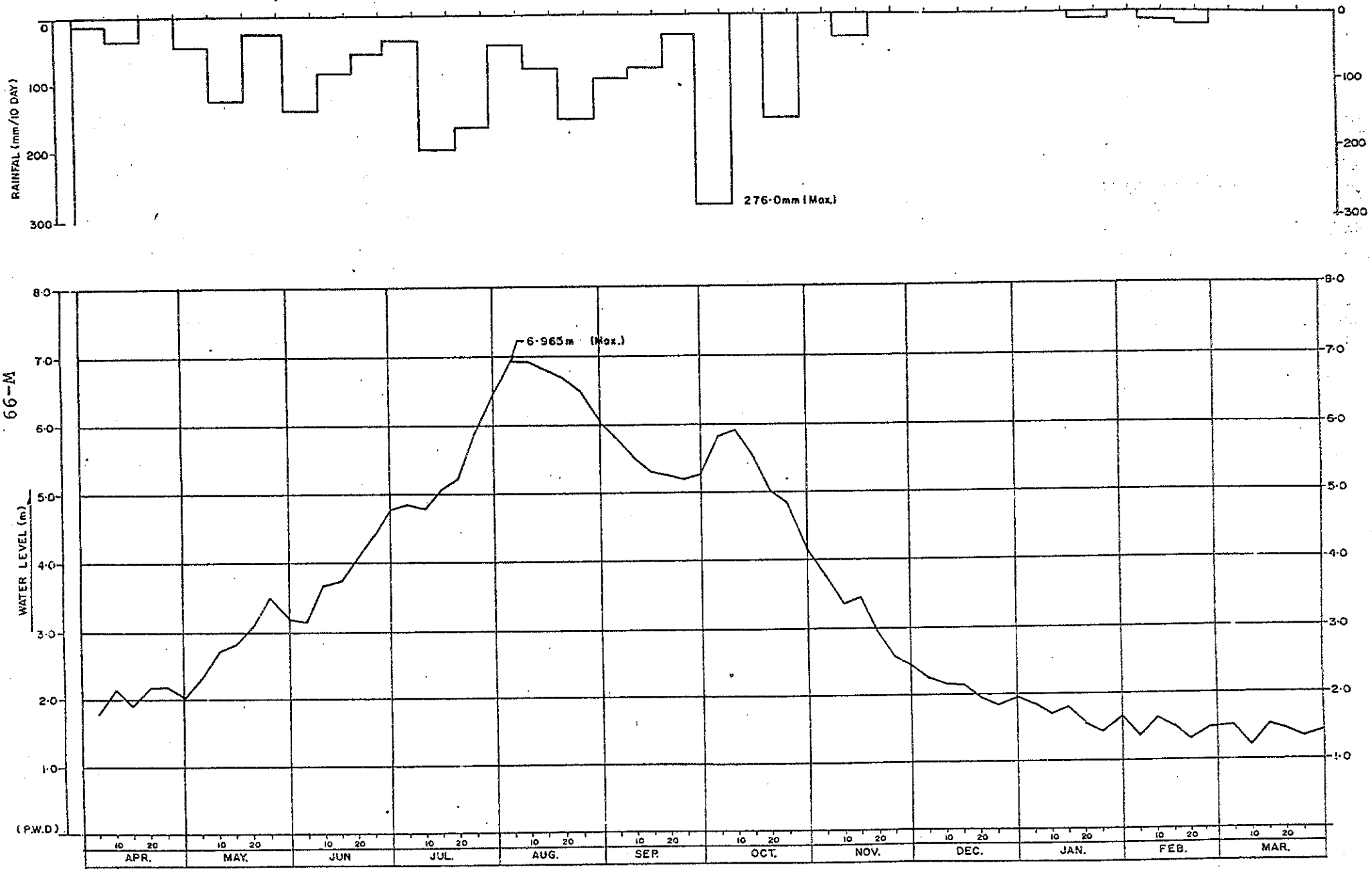
STATION : 302 MIRPUR (YEAR : 1980 - 81)



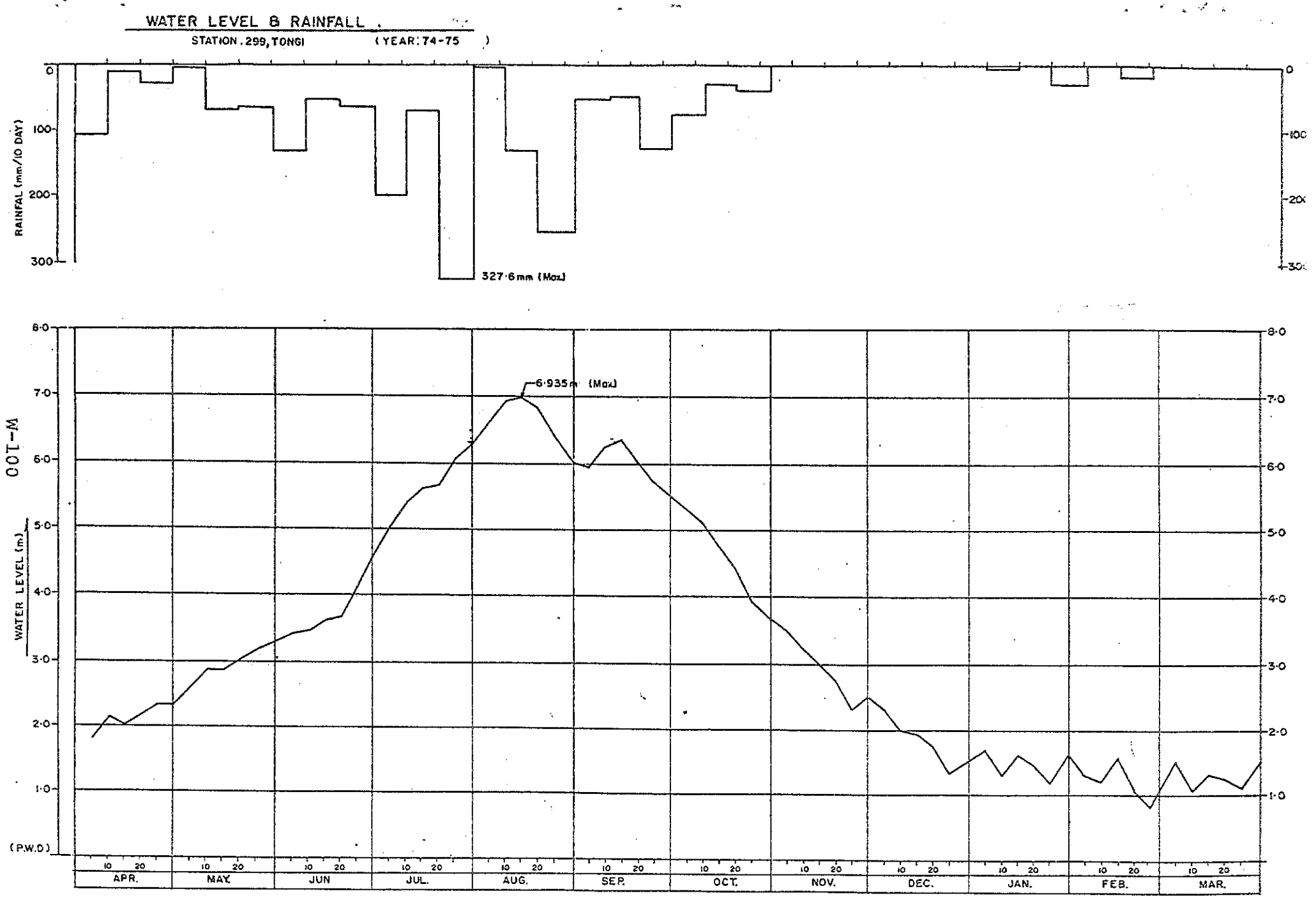
86-M

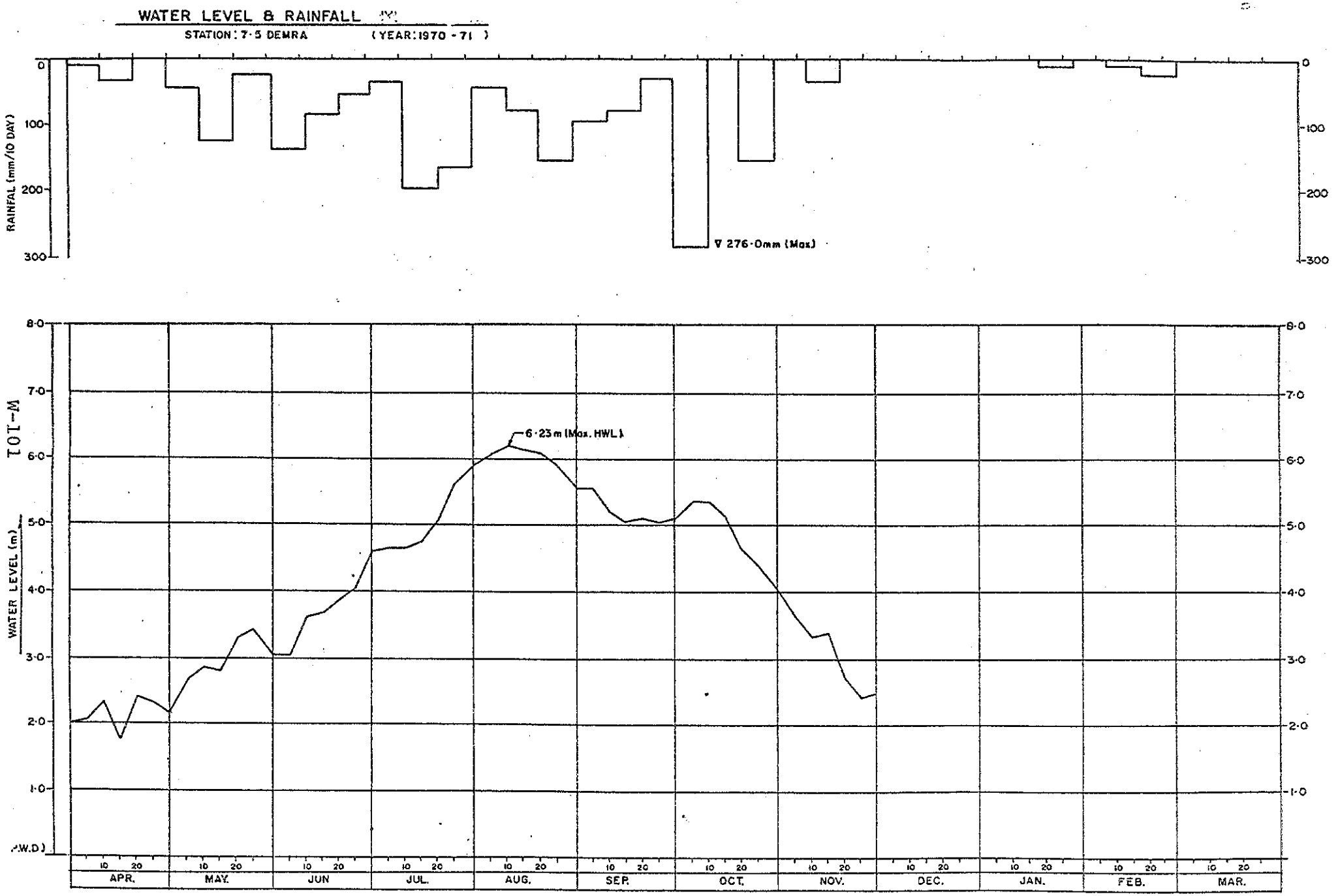
WATER LEVEL & RAINFALL

STATION : 299, TONGI (YEAR : 70 - 71)



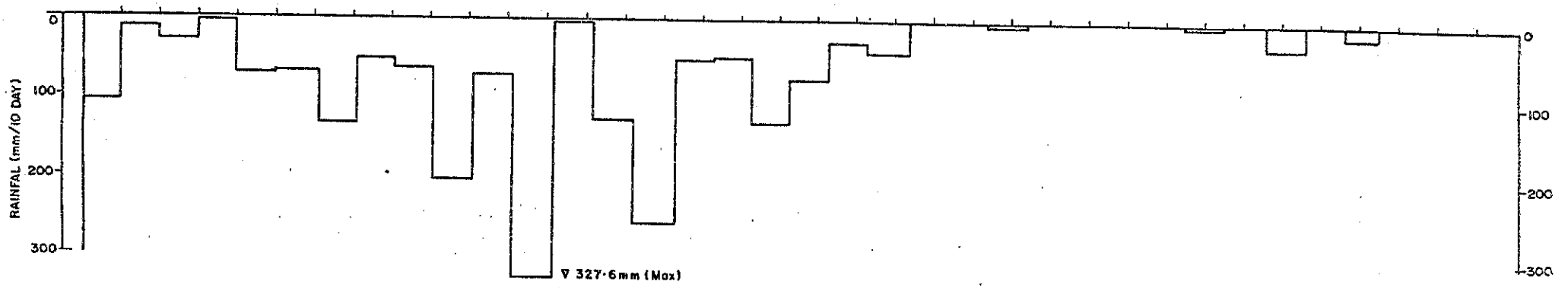
66-M

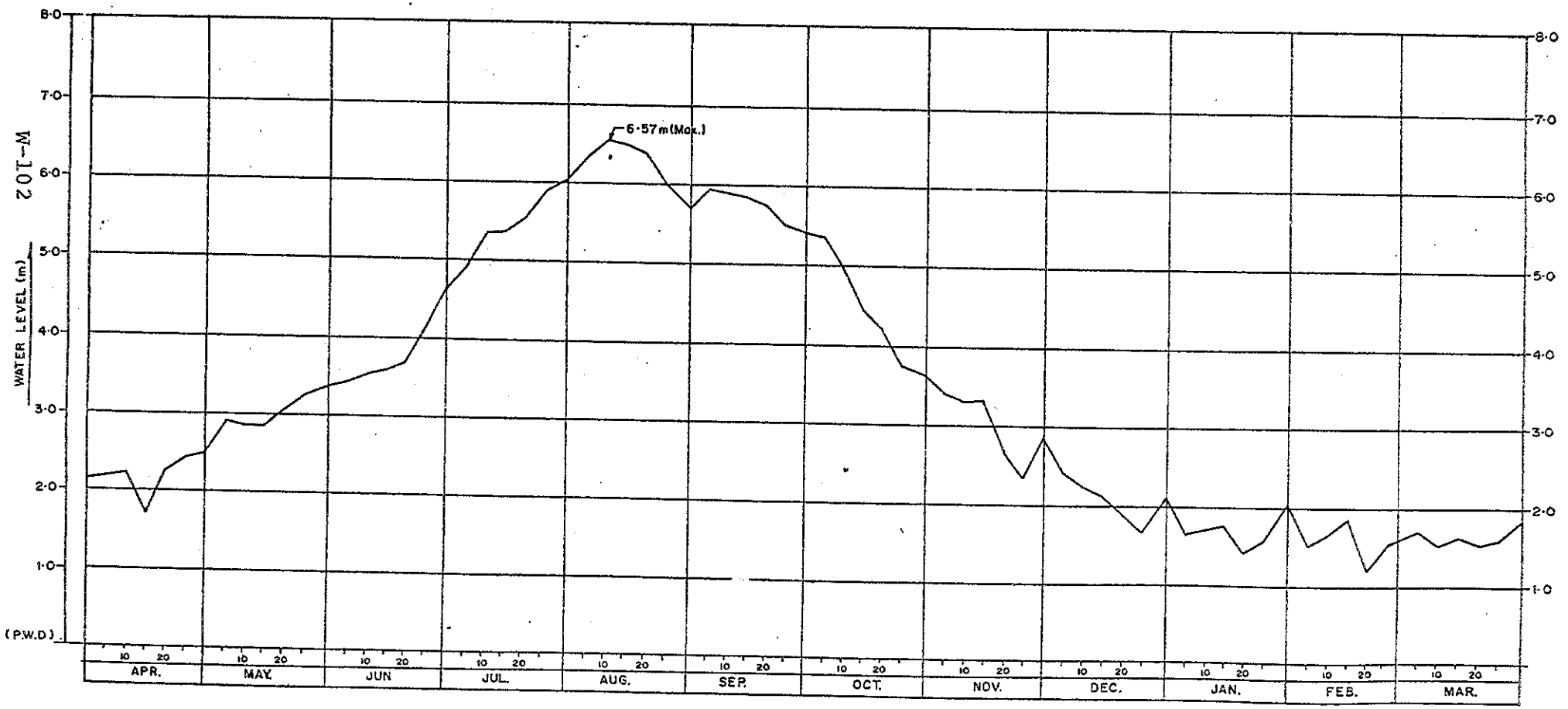

WATER LEVEL & RAINFALL
STATION . 299, TONGI
(YEAR: 74-75)
RAINFAL (mm/10 DAY)
0
100
200
300
327·6mm (Max.)
WATER LEVEL (m)
OOT-M
(P.W.D)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
6·935m (Max.)
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.

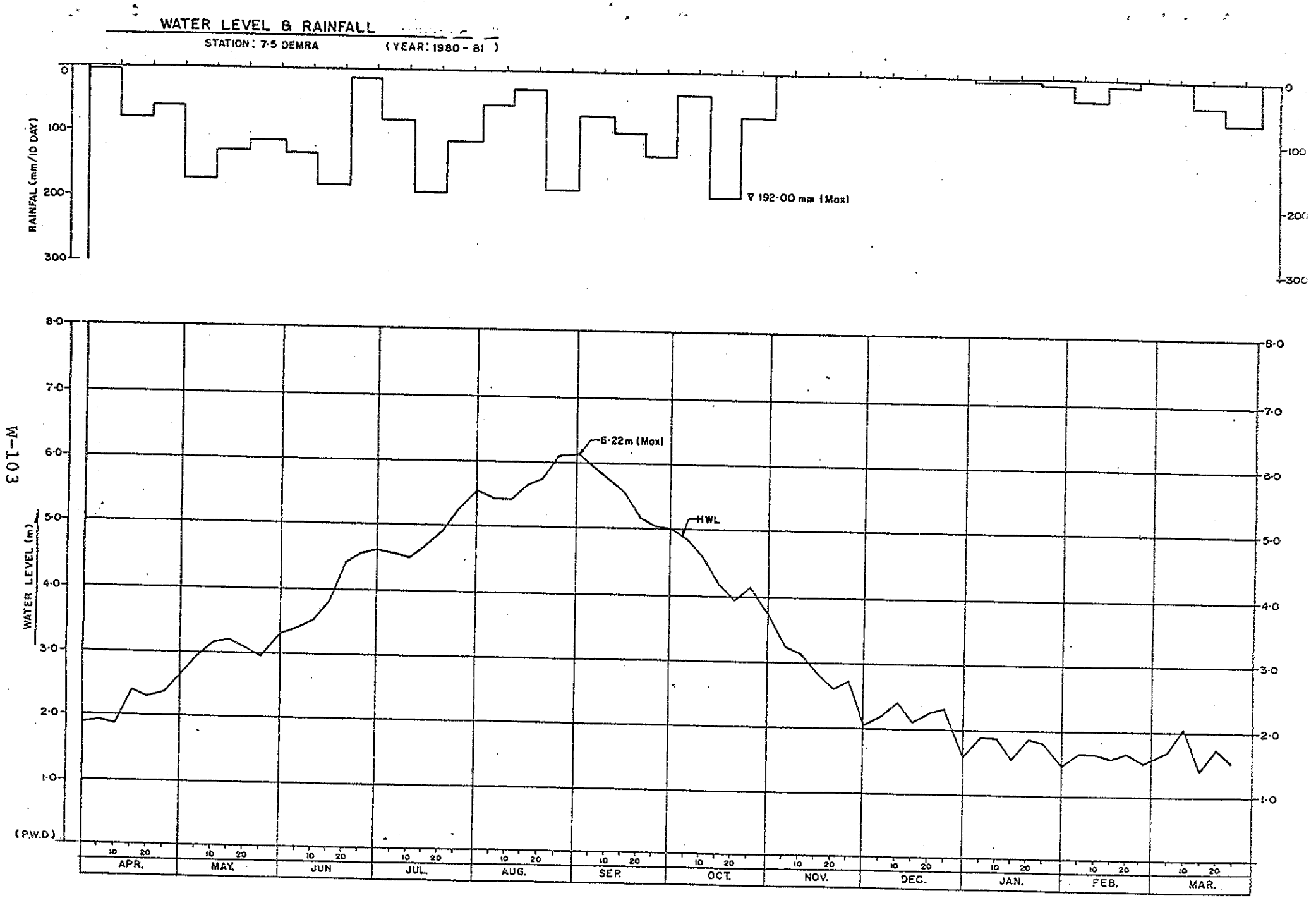

WATER LEVEL & RAINFALL
STATION : 7·5 DEMRA
(YEAR : 1970 - 71)
RAINFAL (mm/10 DAY)
0
100
200
300
▽ 276·0mm (Max)
WATER LEVEL (m)
TOT-M
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
P.W.D.
6·23 m (Max. HWL)
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.

WATER LEVEL & RAINFALL

STATION : 7-5 DEMRA (YEAR : 1974 - 75)



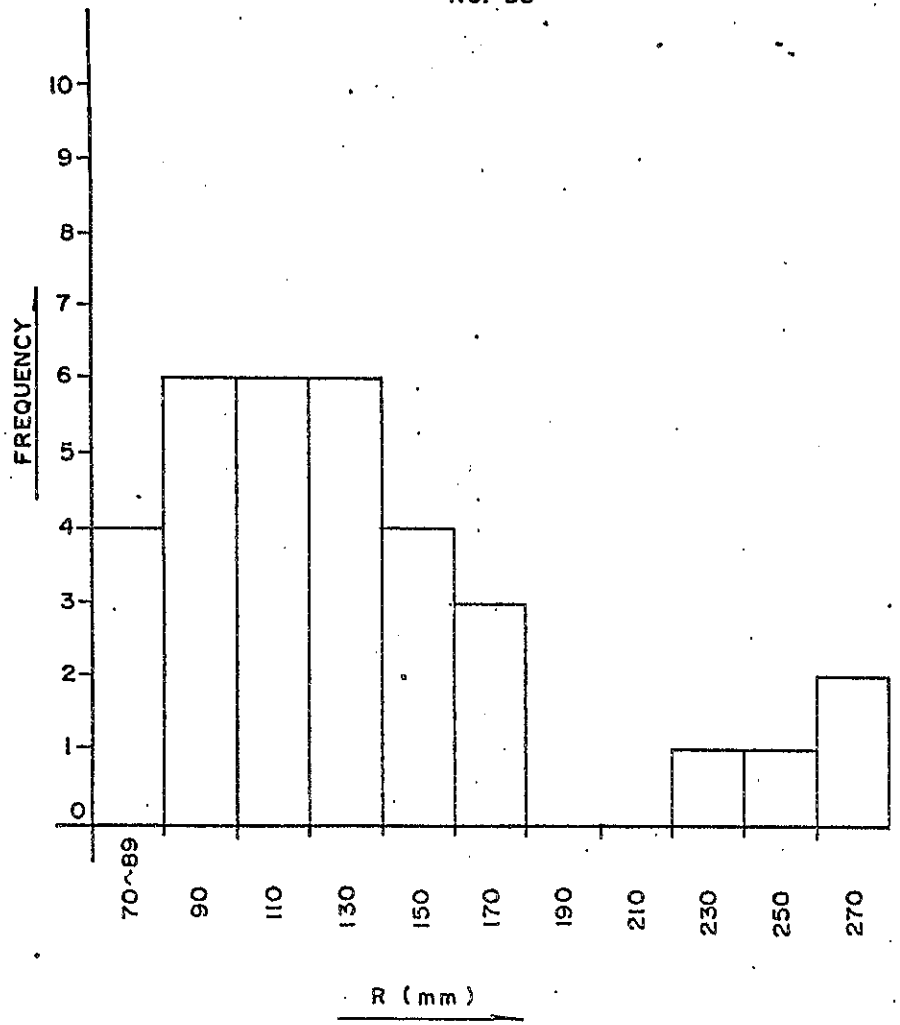



WATER LEVEL & RAINFALL
STATION: 7-5 DEMRA
(YEAR: 1980 - 81)
RAINFAL (mm/10 DAY)
0
100
200
300
192-00 mm (Max)
WATER LEVEL (m)
8·0
7·0
6·0
5·0
4·0
3·0
2·0
1·0
(P.W.D.)
6·22m (Max)
HWL
10 20
APR.
MAY.
JUN
JUL.
AUG.
SEP.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.
W-103

STUDY ON DISTRIBUTION

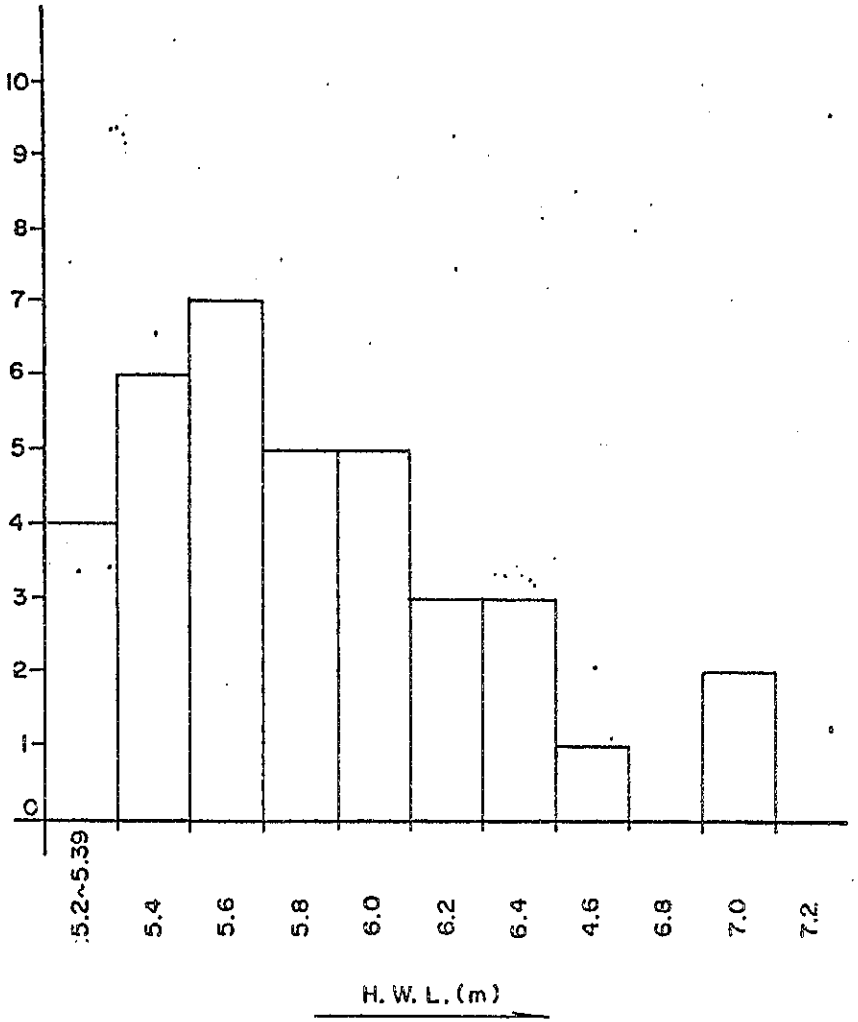
HISTOGRAM OF 1 DAY RAINFALL

SAMPLE :
STATION : DHAKA
NO. 33



HISTOGRAM OF H.W.L.

SAMPLE :
MILLBARRACK
NO. 36



W-104

DATA BOOK II-2 : FLOOD AND FLOOD DAMAGE SURVEY

Table of Contents

1. INTERVIEW SHEET OF FLOOD SURVEY

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY IN THE PEOPLE'S REPUBLIC OF BANGLADESH

Subject : Flood/Inundation Survey in Dhaka City
বিষয় :- ঢাকা শহরনগরীতে বন্যা/জলমগ্নতার জরিপ।
Execution Agency : JICA STUDY TEAM
in cooperation with DPHE

Date	Jan. Feb. ,1987
Name of Interviewer (ID No.)	

A. Survey Point
জরিপ স্থান

Address	ঠিকানা		
Ward No.	এলাকা নং	Point No.	

Note : Interviewer should mark each survey point and its number down on the map.
সাক্ষাৎকারী অবশ্যই জরিপ স্থান চিহ্নিত এবং তা মানচিত্রে প্রদর্শন করবেন

B. Questionnaire

1. What sort of land is this spot ?
এই স্থানটি কোন প্রকৃতির।

a. High Land Area উঁচু এলাকা।
b. Low Land Area নিচু এলাকা।
c. Very Low Land Area অতি নিচু এলাকা।

2. What sort of drainage facilities is this spot provided with ?
এই এলাকায় পানি নিষ্কাশনের কি ব্যবস্থা আছে।

(multiple choice)
a. Nothing কিছুই নাই
b. Open ditch খোলা নালা
c. Drainage pipe (underground) নিষ্কাশন পাইপ।

3. How flooded is this spot ?
এই এলাকায় কেমন বন্যা হয় ?

a. Completely free from flood/inundation
বন্যা/জলপ্লাবন হতে সম্পূর্ণ মুক্ত।
b. Flooded in every flood season
প্রতি বর্ষায় প্লাবিত হয় কি না।
c. Flooded in a very serious flood season only
কেবল মাত্র অতি বন্যায় হেসে থাকে কি।
d. Waterlogged owing to ordinary rainfall in rainy season
স্বাভাবিক বৃষ্টিতে পানি জমে কি।
e. Waterlogged owing to a heavy rainfall only in rainy season
অতি বৃষ্টিতে পানি জমে কি।

4. If you chose (b) to (e) above, please answer the following questions :

(4-A-1) What is the average depth of flood or waterlogging ?
স্বাভাবিক বন্যা বা জমা পানির গভিরতা কত?

1. less than 1 foot ১ ফুটের নিচে
2. - 2 feet ২ " "
3. - 3 feet ৩ " "
4. - 4 feet ৪ " "
5. - 5 feet ৫ " "
6. more than 5 feet. Then how deep was it ? _____ feet
যদি ৫ ফুটের বেশী হয় তা হলে তা: গভিরতা কত।

(4-A-2) How many times does flood or waterlogging occur in a year on an average ?
স্বাভাবিকত: সচরাচর বছরে কত বার পানি জমে ?

_____ times

(4-A-3) How long is the average duration of flood or waterlogging per one time ?
প্রতিবার কত সময় পর্যন্ত বন্যার বা বদ্ধ পানি জমে থাকে

_____ hour(s), _____ day(s), _____ month(s)
ঘন্টা দিন মাস

(4-B-1) What was the maximum depth of flood or waterlogging in the past ?
অতিতে সবচাইতে বেশী কত পানি জমেছিল।

1. less than 1 foot এক ফুটের নিচে
2. - 2 feet ২ " "
3. - 3 feet ৩ " "
4. - 4 feet ৪ " "
5. - 5 feet ৫ " "
6. more than 5 feet. Then how deep was it ? _____ feet

(4-B-2) How long was the duration of the most serious flood or waterlogging in the past ? অতীতে সবচাইতে বড় বন্যায় কত সময় পর্যন্ত পানি জমা ছিল।

_____ hour(s), _____ day(s), _____ month(s)
ঘন্টা দিন মাস

5. What, do you think, is the cause of flood/inundation at this point ? এই এলাকায় বন্যার পানি জমার কারণ কি, আপনি বলতে পারেন ?

(multiple choice)

a. Lack of drainage facilities
নিষ্কাশন ব্যবস্থার অভাবে।

b. Poor cleaning works
ময়লা পরিষ্কারের জন্য।

c. Poor repairment works
নিম্ন মেরামতের জন্য

d. Insufficient capacity of each ditch/pipe
পাইপ/নালার যথেষ্ট ক্ষমতা কম থাকায়।

e. Poor water collecting system to ditch/pipe
নালা/পাইপের নিম্ন মান সংযোগ পদ্ধতির জন্য।

FLOOD SURVEY

(Ⓐ ZONE)

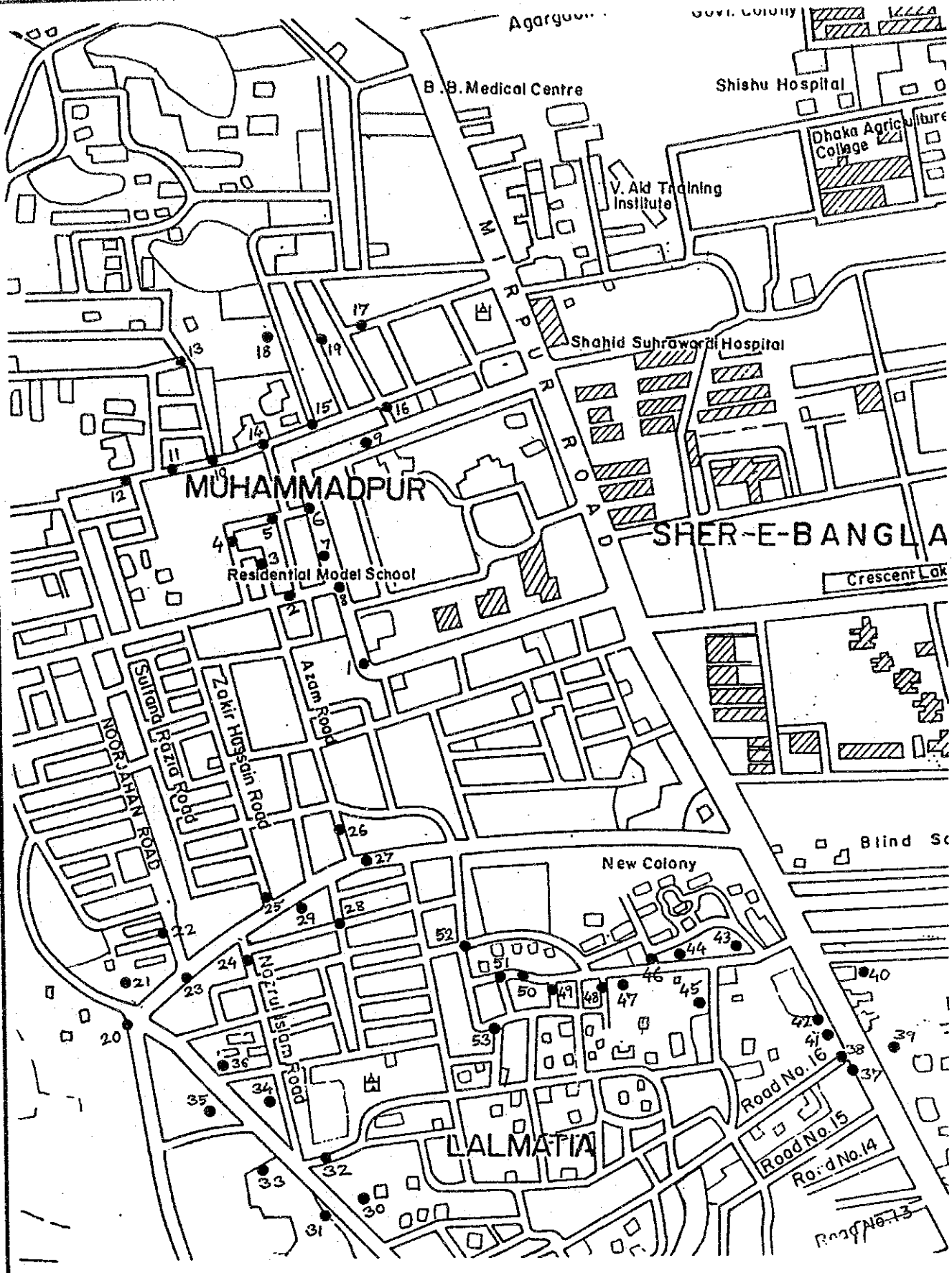


FIG.	Flood Survey Points in A Zone (1)

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH

JICA 1987A.D

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
1		✓			✓					✓		1	5 hr	5	2	24 hr	1980 1986	✓				
2			✓		✓					✓		1	4 hr	6	2	24 hr	1976. 1986	✓				
3																						
4		✓			✓					✓		1	4 hr	10	2	24 hr	1980 1986	✓				
5			✓	✓						✓		1	5 hr	10	3	24 hr		✓				
6			✓		✓						✓	1	3 hr	4	1	6 hr		✓				
7			✓		✓						✓	1	3 hr	3	1	6 hr		✓				
8		✓			✓						✓	1	3 hr	5	1	3 hr		✓				
9		✓			✓					✓		1		6	2	24 hr	1976, 1980 1986	✓				
10			✓	✓						✓		2	12 hr	10	3	3 days	1980 1986	✓				
11			✓		✓					✓		1	6 hr	6	2	12 hr	1976 1986	✓				
12			✓	✓						✓		1	3 hr	5	2	12 hr	1976 1986	✓				
13			✓	✓						✓		1	7 hr	10	3	3 days	1976 1986	✓				
14		✓		✓						✓		1	4 hr	6	2	12 hr	1980 1986	✓				
15		✓			✓					✓		1	3 hr	6	2	12 hr	1980 1986	✓				
16	✓				✓		✓					–	–	–	–	–	–	–				
17		✓			✓					✓		1		3	1	12 hr	1986	✓				
18			✓	✓						✓		1	3 hr	6	2	12 hr		✓				
19		✓			✓					✓		1	3 hr	4	2	9 hr	1976, 1980 1986	✓				

F-A-2

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
20		✓				✓				✓		1	3 hr	5	3	6 hr	-	✓				
21		✓			✓					✓		1	4 hr	6	3	24 hr	1976	✓				
22	✓				✓		✓					-	-	-	-	-	-					
23	✓					✓	✓					-	-	-	-	-	-					
24	✓				✓		✓					-	-	-	-	-	-					
25			✓			✓				✓		1	1 hr	5	2	3 hr	1986		✓			
26		✓		✓						✓		1	4 hr	6	1	4 hr	1986	✓				
27		✓				✓				✓		1	6 hr	7	2	3 Days	1980 1986		✓			
28		✓			✓					✓		1	3 hr	3	1	24 hr.	-	✓				
29		✓				✓				✓		1	4 hr	8	2	24 hr	1980 1986		✓			
30	✓					✓				✓		1	10 hr	30	1	12 hr	1986					
31	✓				✓					✓		3	4 hr	40	5	5 hr	1984					
32	✓				✓						✓	1	2 hr	25	1	3 hr	1983					
33	✓				✓						✓	1	3 hr	20	1	4 hr	1974					
34	✓				✓					✓		3	8 hr	50	3	12 hr	1982					
35			-		-			-				-	-	-	-	-	-					
36			-		-			-				-	-	-	-	-	-					

F-A-3

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
37	✓				✓					✓		2	10 hr	30	2	15 hr	1986		✓			
38	✓				✓					✓		2	4 hr	20	2	5 hr	1983					✓
39	✓				✓						✓	1	1 hr	15	1	2 hr	1974		✓			
40	✓				✓						✓	1	2 hr	25	1	3 hr	1986		✓			
41	✓				✓						✓	1	1 hr	20	1	2 hr	1984					✓
42	✓				✓					✓		3	3 hr	2	3	4 hr	1986				✓	
43	✓				✓		✓					—	—	—	—	—	—					
44	✓				✓		✓					—	—	—	—	—	—					
45	✓				✓		✓					—	—	—	—	—	—					
46	✓				✓		✓					—	—	—	—	—	—					
47	✓				✓						✓	1	1 hr	20	1	2 hr	1983		✓			
48	✓				✓		✓					—	—	—	—	—	—					
49	✓				✓		✓					—	—	—	—	—	—					
50	✓				✓		✓					—	—	—	—	—	—					
51	✓				✓		✓					—	—	—	—	—	—					
52	✓				✓		✓					—	—	—	—	—	—					
53	✓				✓		✓					—	—	—	—	—	—					

F-A-4

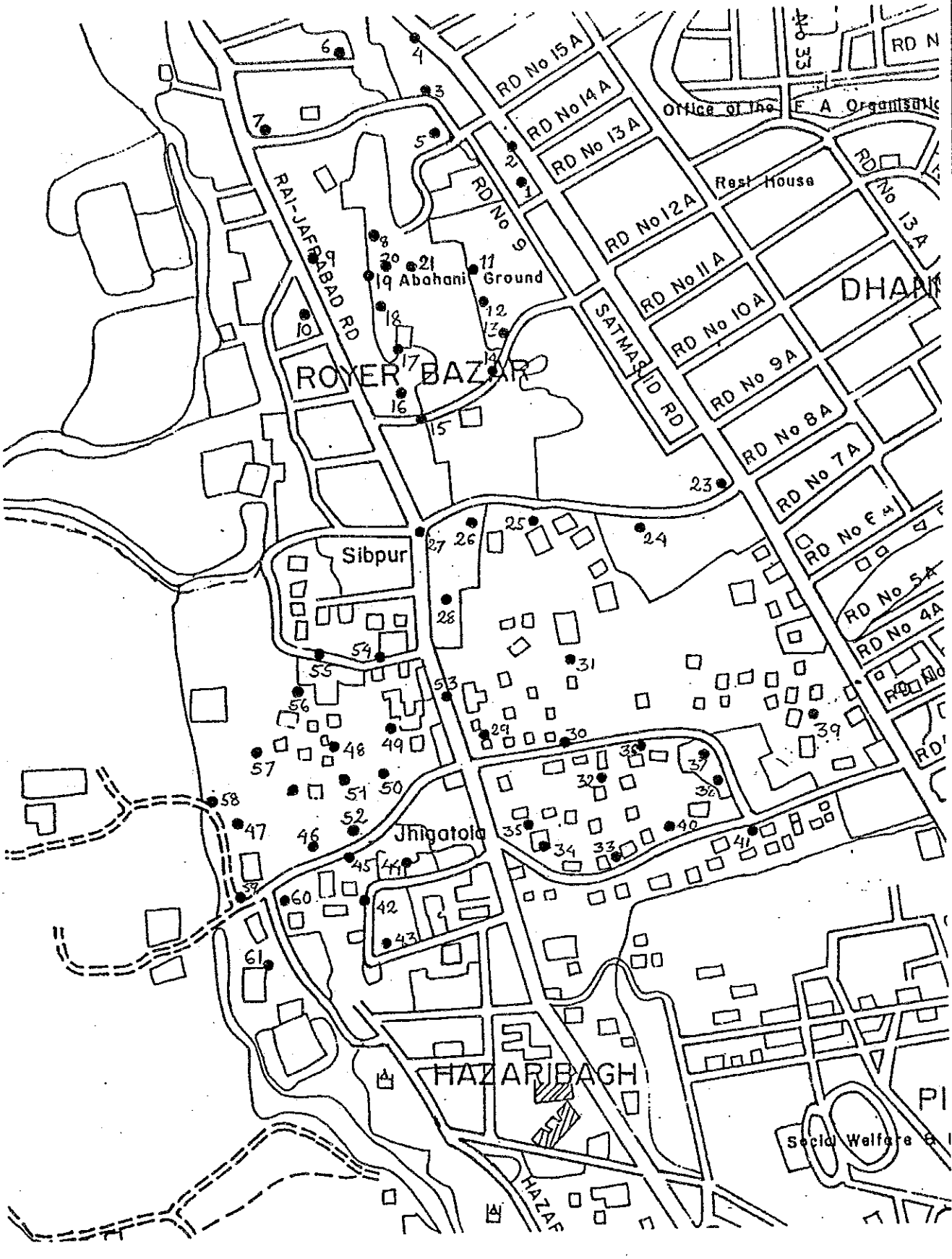


FIG.	Flood Survey Points in A Zone (2)

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH

JICA 1987A.D

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
1		✓			✓					✓		1	6 hr	4-5	2	24 hr	1976	✓				
2		✓			✓						✓	1	3-4 "	3-4	1	24 "	1986	✓				
3		✓			✓						✓	1	2-3 "	2-3	1	12 "	1985		✓			✓
4		✓				✓					✓	1	1-2 "	2-3	1	16 "	1986		✓		✓	
5		✓				✓					✓	1	6 "	3-4	1	24 "	1975		✓			✓
6		✓			✓					✓		1	6 "	4-5	2	24 "	1974	✓				
7		✓			✓					✓		1	8 "	4-5	2	24 "	1974	✓				
8						✓					✓	1	2-3 "	1-2	1	12 "	1974		✓			✓
9		✓				✓				✓		1	6 "	2-3	2	24 "	1986		✓			✓
10		✓			✓					✓		1	6 "	5-6	2	48 "	1974	✓				
11	✓				✓						✓	1	4 hr	20	2	24 hr	1974		✓		✓	
12	✓					✓				✓		1	10 "	16	2	12 "	1982			✓	✓	
13	✓					✓				✓		2	5 "	15	3	20 "	1974		✓	✓	✓	
14	✓					✓				✓		1	8 "	10	2	1 day	1976		✓	-	-	-
15	✓				✓					✓		1	6 "	12	2	2 "	1974		✓	-	-	✓
16	✓					✓				✓		1	10 "	20	2	1 "	1982		✓		✓	
17	✓					✓					✓	2	15 "	10	2	2 "	1986		✓		✓	
18	✓				✓						✓	1	10 "	20	2	2 "	1983				✓	
19	✓					✓				✓		1	5 "	10	2	1	1982			✓		✓

F-A-6

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
20	✓				✓					✓		2	15 hr	20	3	2 hr	1974		✓		✓	
21	✓					✓					—		—	—	—	—	—					
22	✓					✓					—		—	—	—	—	—					
23		✓		✓							✓	1	12 hr	3	2	18 hr	1986	✓				
24	✓				✓						✓	1	12 "	4	1	24 "	1986	✓	✓			
25		✓			✓					✓		2	12"	3	3	2 day	1978, 1986	✓				✓
26			✓			✓				✓		2	24	8	4	3 "	1986	✓	✓		✓	✓
27	✓					✓	✓	-	-	-		-	-	-	-	—	-	-	-		-	-
28	✓					✓	✓	-	-	-		—	—	—	—	—	—	—	—		—	—
29	✓				✓		✓	-	-	-		—	—	—	—	—	—	—	—			
30			✓		✓					✓		1	1 day-3 hr	7	2	3 day-12 hr	1984, 1986	✓				✓
31		✓				✓					✓	1	12 hr	6	3	2 day	1986		✓		✓	
32		✓				✓					✓	1	1 hr	5	2	16 hr	1978, 1986	✓				✓
33		✓				✓					✓	1	2 "	4	2	15 "	1980, 1986		✓			✓
34	✓				✓		✓					—	—	—	—	—	—					
35	✓				✓		✓					—	—	—	—	—	—					
36	✓				✓						✓	1	3 "	7	2	12 hr	1984, 1986	✓				✓
37		✓				✓					✓	1	6 "	6	1	12 "	—					✓
38	✓				✓						✓	1	1 "	6	1	9 "	1986	✓				
39		✓				✓					✓	1	3 "	5	1	6 "	1986		✓			
40		✓			✓						✓	2	2 "	5	2	24 "	1986	✓	✓			

F-A-7

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
41		✓				✓					✓	1	4 hr	3	1	6 hr	1986					✓
42	✓				✓					✓		1	2 hr	2	3	2 day	'86	✓	✓		✓	
43	✓				✓					✓		1	6 "	3	3	2 "	'84	✓			✓	
44	✓				✓					✓		1	1 "	6	3	10 hr	'86		✓		✓	
45																						
46		✓			✓					✓		1	2 "	10	3	2 day	'84	✓	✓		✓	
47		✓			✓					✓		1	3 "	8	3	3 "	'86	✓	✓		✓	
48		✓			✓					✓		1	2 "	10	3	2 "	–	✓	✓			
49		✓			✓					✓		1	3 "	12	3	4 "	'84	✓	✓		✓	
50		✓			✓					✓		1	3 "	10	3	3 "	'86	✓	✓		✓	
51		✓			✓					✓		2	3 "	12	3	3 "	'84	✓	✓		✓	
52		✓			✓					✓		2	3 "	10	4	4 "	'86	✓	✓		✓	
53		✓			✓					✓		1	2 "	8	2	1 "	'80	✓	✓		✓	
54		✓			✓					✓		1	1 "	6	3	1 "	'86	✓	✓		✓	
55		✓			✓					✓		1	1 "	4	2	2 "	–	✓	✓			
56	✓				✓					✓		1	3 "	5	1	2 hr	'86	✓	✓		✓	
57	✓				✓					✓		1	2 "	6	1	3 "	'84	✓	✓		✓	
58		✓			✓					✓		1	2 "	6	2	2 day	–	✓	✓		✓	
59		✓			✓					✓		1	2 "	8	2	1 "	–	✓	✓		✓	
60		✓			✓					✓		1	2 "	6	2	1 "	'84	✓	✓		✓	
61		✓			✓					✓		1	2 "	10	2	1 "	'86	✓	✓		✓	

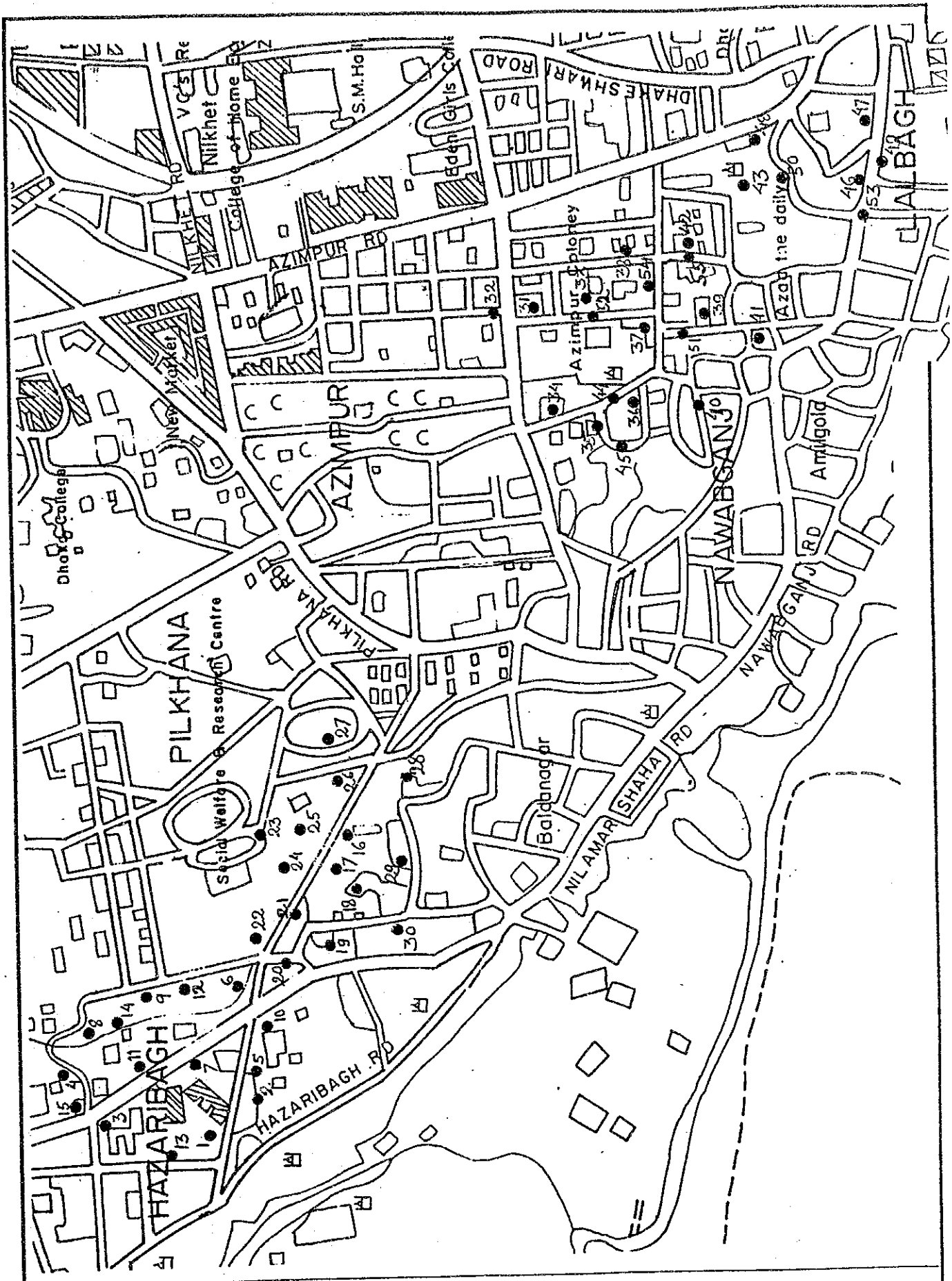


FIG. Flood Survey Points in A Zone (3)

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH

JICA 1987A.D

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Noth-ing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
1		✓			✓					✓		1	1 day	3 to 4	3	4 day	1985	✓				
2		✓			✓						✓	2	24 hr	2 to 3	3	4 to 5 day	1986	✓				
3	✓				✓						✓	1	12 hr	2	2	2 day	1984	✓				✓
4		✓			✓					✓		1	1 day	4 to 5	2	3 day	1984	✓	✓			
5		✓			✓						✓	2	2 day	5 to 6	3	4 day	1986	✓				✓
6	✓				✓						✓	1	12 hr	3	2	2 day	1985	✓	✓			
7		✓			✓					✓		1	2 day	2 to 3	2	3 day	1983	✓				
8		✓			✓					✓		1	6 hr	2 to 3	3	3 day	1982	✓				✓
9		✓		✓						✓		1	2 day	4 to 5	3	4 "	1986	✓				
10		✓			✓						✓	2	1 day	5 to 6	3	3 "	1984	✓	✓			
11		✓			✓					✓		1	2 day	3 to 4	3	3 "	1981	✓				✓
12		✓			✓						✓	2	6 hr	4	3	2 "	1986	✓				
13		✓			✓						✓	1	1 day	2 to 3	2	3 "	1985	✓				
14		✓			✓						✓	2	12 hr	4 to 5	3	4 "	1983	✓				
15		✓			✓					✓		1	24 hr	2 to 3	2	2 "	1986	✓	✓			
16		✓			✓					✓		1	2 hr	20	3	1 day	1986		✓			✓
17		✓			✓	✓				✓		2	6 "	20	3	1 day	1986		✓			✓
18		✓			✓	✓					✓	1	2 "	5	1	3 hr	1986		✓			✓
19	✓				✓						✓	1	1 "	3	1	2 "	1986		✓		✓	

F-A-10

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA

FIGURE No.

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Noth-ing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
20		✓			✓	✓					✓	1	2 hr	4	2	3 hr	'86				✓	✓
21		✓			✓					✓		1	3 "	6	2	4 "	'86		✓			
22		✓			✓						✓	2	3 "	4	2	4 "	'86		✓			
23					✓	✓					✓	1	1 "	3	1	2 "			✓			✓
24					✓						✓	1	2 "	2	1	2 "			✓			✓
25					✓	✓				✓		1	3 "	6	2	5 "			✓			✓
26					✓	✓					✓	1	2 "	3	1	2 "			✓			✓
27					✓	✓					✓	1	2 "	3	1	2 "	'86		✓			✓
28						✓					✓	1	2 "	3	2	3 "	'86		✓			✓
29					✓	✓					✓	1	2 "	3	1	2 "	'86		✓			✓
30					✓	✓					✓	1	1 "	3	1	1 "					✓	
												1.2	14.0	5	2.1	40						
31		✓				✓				✓	✓	2	24 hr	20	3	2 day	–		✓		✓	✓
32		✓				✓				✓	✓	2	1 day	20	3	2 "	–		✓		✓	✓
33		✓				✓				✓	✓	1	4 hr	12	2	7 hr	–		✓		✓	✓
34		✓				✓					✓	1	2 "	4	1	3 "	–		✓		✓	
35		✓			✓	✓					✓	1	1 "	3	1	1 "	–		✓			✓
36		✓				✓				✓	✓	1	3 "	10	2	4 "	–		✓		✓	✓
37		✓				✓					✓	1	2 "	4	1	4 "	–		✓			✓
38	✓					✓					✓	1	2 "	3	1	2 "	–		✓			✓
39		✓				✓					✓	1	1 "	3	1	2 "	–		✓			✓
40		✓				✓				✓	✓	1	4 "	6	2	6 "	–		✓		✓	✓

F-A-11

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT
IN DHAKA CITY, BANGLADESH
FLOOD AND INUNDATION SURVEY SUMMARY SHEET

NAME OF DRAINAGE AREA _____

FIGURE No._____

Point	Land Elevation			Drainage System			How Flooded or Waterlogged?					Annual Average Flood or Waterlogged Condition			Max. Flood or Waterlogged Condition			Main Cause of Flood or Waterlogged.				
No.	High	Low	Very Low	Nothing	Ditch	Pipe	a	b	c	d	e	Depth (feet)	Duration	Times	Depth (feet)	Duration	Date	a	b	c	d	e
41		✓			✓	✓					✓	1	2 hr	2	1	3 hr	–		✓			
42		✓			✓	✓					✓	1	2 "	3	1	2 "	–		✓			✓
43		✓			✓					✓	✓	1	24 "	24	3	12 "	–			✓	✓	
												1.2	4	9	1.7	4						
44	✓					✓					✓	1	1 hr	3	2	8 hr	–		✓		✓	✓
45		✓				✓				✓	✓	1	2 day	8	1	2 day	–		✓		✓	✓
46		✓			✓					✓		2	4 hr	20	3	8 hr	–			✓	✓	
47	✓				✓					✓		1	12 "	20	3	3 day	–		✓		✓	
48		✓			✓					✓	✓	1	1 "	10	2	5 hr	–		✓		✓	
49	✓				✓					✓	✓	1	3 "	3	2	8 "	–			✓	✓	
50		✓			✓					✓	✓	2	4 "	5	3	4 "	–				✓	✓
51	✓				✓					✓	✓	1	–	3	3	8 "	–			✓	✓	
52	✓				✓					✓	✓	1	2 "	3	2	8 "	–			✓	✓	✓
53		✓			✓					✓	✓	2	6 "	5	3	1 day	–			✓	✓	✓
54	✓				✓					✓	✓	1	4 "	3	2	8 hr	–			✓	✓	✓
55	✓				✓					✓	✓	1	5 "	3	2	8 "	–			✓	✓	

F-A-12