

## **APPENDIX E**

**Detailed hydrologic modeling results for the GDM or No Action,  
18.5 ft, Isolation, and Preferred Alternatives**



# SJMCA

Results represent hydrologic conditions under the Isolated Wetlands, 18.5 ft, and Preferred Alternatives. Results are the same for these three alternatives because under each, flow conditions into the SJMCA are the same. Results are similar to what would occur under the GDM Alternative if design considerations were made to allow for a 50/50 split of the discharges coming downstream from S-96B and S-96C between the SJMCA and the TFMCA.

## Six Mile STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

YEAR	MAX	MIN	RANGE	MEAN
1942	22.77	20.06	2.71	21.56
1943	23.34	19.50	3.84	21.34
1944	23.38	19.50	3.88	21.53
1945	22.96	19.50	3.46	21.21
1946	22.45	19.50	2.95	21.23
1947	23.91	19.91	4.00	21.95
1948	23.22	19.55	3.67	21.37
1949	22.98	19.50	3.48	21.26
1950	23.30	19.50	3.80	21.03
1951	22.22	19.61	2.61	21.41
1952	22.67	19.50	3.17	21.40
1953	23.77	19.50	4.27	21.66
1954	22.69	19.51	3.18	21.33
1955	22.39	19.50	2.89	21.19
1956	24.48	19.50	4.98	21.26
1957	22.40	20.30	2.10	21.52
1958	22.36	19.50	2.86	21.29
1959	22.92	20.80	2.12	21.71
1960	23.56	20.02	3.54	21.80
1961	22.35	19.50	2.85	21.00
1962	22.75	19.50	3.25	20.99
1963	22.46	19.50	2.96	21.10
1964	22.50	19.55	2.95	21.24
1965	22.37	19.50	2.87	20.93
1966	22.54	19.66	2.88	21.36
1967	21.57	19.50	2.07	20.69
1968	22.94	19.50	3.44	21.26
1969	22.38	19.86	2.52	21.40
1970	22.34	19.50	2.84	21.04
1971	22.28	19.50	2.78	21.01
1972	22.88	19.50	3.38	21.23
1973	22.56	19.50	3.06	21.44
1974	23.07	19.50	3.57	21.11
1975	22.36	19.50	2.86	21.08
1976	22.34	19.50	2.84	21.11
1977	22.30	19.50	2.80	20.87
1978	22.70	19.55	3.15	21.18
1979	23.04	19.58	3.46	21.51
1980	22.11	19.50	2.61	20.88
1981	21.91	19.50	2.41	20.63
1982	22.72	19.50	3.22	21.27
1983	22.36	19.50	2.86	21.51
1984	22.30	19.50	2.80	20.93
1985	22.68	19.50	3.18	20.90
1986	22.29	19.50	2.79	20.89
1987	21.97	19.50	2.47	20.83
1988	22.04	19.50	2.54	20.75

1989	21.95	19.50	2.45	20.83
1990	22.18	19.50	2.68	20.88
1991	22.55	20.14	2.41	21.41
1992	22.17	19.50	2.67	20.80
1993	22.46	19.50	2.96	21.04
1994	23.14	19.50	3.64	21.04
1995	22.85	19.50	3.35	21.43
1996	21.74	19.86	1.88	21.04
1997	22.41	19.50	2.91	20.93
1998	22.56	19.50	3.06	21.45

MEAN ANNUAL STAGE = 21.19

MEAN ANNUAL RANGE = 3.03

**Six Mile** STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

Stage Duration Data for Station Elevations.  
1- 1-1942 through 31-12-1998  
Total of 20819 Days

Maximum Elevation was 24.48feet  
Minimum Elevation was 19.50 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
215	19.50	20819	100.00	1.69
216	19.60	19434	93.35	1.59
217	19.70	19161	92.04	1.49
218	19.80	18954	91.04	1.39
219	19.90	18639	89.53	1.29
220	20.00	18417	88.46	1.19
221	20.10	18222	87.53	1.09
222	20.20	18130	87.08	0.99
223	20.30	18054	86.72	0.89
224	20.40	17972	86.32	0.79
225	20.50	17815	85.57	0.69
226	20.60	17127	82.27	0.59
227	20.70	16480	79.16	0.49
228	20.80	15935	76.54	0.39
229	20.90	15427	74.10	0.29
230	21.00	15017	72.13	0.19
231	21.10	14657	70.40	0.09
232	21.20	14302	68.70	-0.01
233	21.30	9558	45.91	-0.11
234	21.40	7065	33.94	-0.21
235	21.50	5705	27.40	-0.31
236	21.60	4834	23.22	-0.41
237	21.70	4164	20.00	-0.51
238	21.80	3569	17.14	-0.61
239	21.90	3113	14.95	-0.71
240	22.00	2686	12.90	-0.81
241	22.10	2338	11.23	-0.91
242	22.20	2016	9.68	-1.01
243	22.30	1534	7.37	-1.11
244	22.40	1032	4.96	-1.21
245	22.50	687	3.30	-1.31
246	22.60	485	2.33	-1.41
247	22.70	371	1.78	-1.51
248	22.80	296	1.42	-1.61
249	22.90	224	1.08	-1.71
250	23.00	171	0.82	-1.81
251	23.10	136	0.65	-1.91
252	23.20	100	0.48	-2.01
253	23.30	70	0.34	-2.11
254	23.40	46	0.22	-2.21
255	23.50	37	0.18	-2.31
256	23.60	25	0.12	-2.41
257	23.70	18	0.09	-2.51
258	23.80	12	0.06	-2.61
259	23.90	8	0.04	-2.71
260	24.00	5	0.02	-2.81
261	24.10	4	0.02	-2.91
262	24.20	4	0.02	-3.01
263	24.30	3	0.01	-3.11
264	24.40	1	0.00	-3.21

**Six Mile**

MONTHLY DATA - STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	21.27	21.28	21.40	21.44	21.33	22.30	22.39	22.32	21.49	21.21	21.14	21.12
1943	20.95	20.73	21.11	19.96	19.66	20.21	22.12	22.21	22.49	23.02	22.16	21.38
1944	21.26	21.09	21.06	20.34	19.53	21.14	22.20	22.51	22.57	22.79	22.47	21.38
1945	21.39	21.20	20.78	19.85	19.54	20.34	22.31	22.02	22.26	22.01	21.47	21.32
1946	21.25	21.21	21.19	19.62	20.29	21.02	21.75	21.93	22.31	21.52	21.33	21.27
1947	21.20	21.33	21.51	21.49	21.04	22.14	22.40	22.39	22.41	23.42	22.56	21.52
1948	21.39	21.33	21.27	20.03	20.94	20.64	21.06	21.76	21.96	22.83	21.83	21.34
1949	21.32	21.25	21.00	19.82	19.55	21.28	21.93	21.87	22.48	22.03	21.31	21.25
1950	21.26	21.13	21.00	19.88	19.83	19.80	21.13	21.43	21.43	21.99	22.01	21.41
1951	21.27	21.32	21.12	21.30	21.51	20.75	21.73	21.91	21.45	21.52	21.59	21.41
1952	21.28	21.31	21.41	21.35	21.31	20.08	21.65	21.94	21.52	21.90	21.69	21.35
1953	21.26	21.29	21.19	20.93	20.14	21.47	21.46	21.87	22.67	23.21	22.57	21.83
1954	21.37	21.26	21.23	19.83	20.35	22.29	21.92	21.36	21.57	21.73	21.66	21.39
1955	21.31	21.28	21.20	20.34	20.47	20.74	21.33	21.21	21.90	21.87	21.38	21.30
1956	21.27	21.15	20.63	19.73	19.71	20.17	21.71	21.79	21.80	22.98	22.72	21.45
1957	21.31	21.25	21.31	21.09	21.77	21.64	21.79	22.09	21.91	21.55	21.23	21.25
1958	21.67	21.70	21.65	21.73	21.31	19.74	21.41	21.62	21.27	21.28	21.24	20.89
1959	21.10	21.18	21.47	21.76	21.48	22.19	22.31	21.69	21.85	21.89	22.11	21.43
1960	21.29	21.39	21.89	21.82	21.36	21.63	22.06	22.08	22.18	22.91	21.67	21.31
1961	21.32	21.23	21.08	20.46	20.00	20.94	21.40	21.34	21.48	21.09	21.02	20.60
1962	20.60	20.62	20.82	19.94	19.77	20.06	21.38	22.20	22.40	21.63	21.28	21.21
1963	20.96	21.14	21.16	19.62	19.99	20.46	21.43	21.45	21.58	22.24	21.68	21.43
1964	21.48	21.53	21.30	19.96	21.04	20.51	21.18	21.77	22.15	21.46	21.28	21.25
1965	21.00	20.89	20.92	19.83	19.50	20.30	21.42	21.64	21.26	21.44	21.63	21.36
1966	21.37	21.39	21.56	20.36	20.83	21.96	21.60	22.15	21.60	21.37	21.17	20.91
1967	20.67	20.98	20.63	19.60	19.52	20.50	21.33	21.32	21.19	21.10	20.60	20.81
1968	20.61	20.79	20.57	19.68	20.40	22.41	22.52	22.31	21.43	21.55	21.45	21.31
1969	21.25	21.19	21.52	21.21	21.62	20.72	20.79	21.88	21.29	21.60	22.03	21.71
1970	21.82	21.53	21.37	20.66	20.13	20.42	21.10	21.32	21.33	21.30	20.93	20.61
1971	20.58	21.17	20.76	19.64	19.82	20.90	21.98	21.60	21.56	21.33	21.48	21.32
1972	21.23	21.28	21.04	19.94	21.07	22.08	21.89	21.59	21.49	20.93	20.91	21.33
1973	21.18	21.25	20.95	20.77	20.27	21.99	22.26	22.32	22.15	21.54	21.31	21.24
1974	21.12	20.79	20.54	19.58	19.72	20.55	22.55	22.36	22.01	21.57	21.25	21.23
1975	20.92	20.97	20.93	19.65	19.97	21.69	22.13	22.17	21.22	21.26	21.23	20.83
1976	20.71	20.56	20.54	19.57	20.72	22.13	22.00	21.73	21.59	21.29	21.23	21.22
1977	21.15	20.93	20.80	19.56	19.63	20.22	21.09	21.40	21.81	21.28	21.20	21.37
1978	21.27	21.28	21.32	20.03	20.33	21.61	21.88	22.21	21.26	21.21	20.92	20.81
1979	21.58	21.42	21.30	20.11	21.62	21.50	21.37	21.45	22.69	22.41	21.36	21.26
1980	21.25	21.31	21.10	20.01	20.61	20.31	21.14	20.78	21.45	20.71	20.91	21.00
1981	20.63	20.98	20.73	19.59	19.65	19.50	20.72	21.15	21.53	21.16	21.18	20.73
1982	20.73	20.86	20.91	20.25	20.18	22.39	22.21	22.04	21.75	21.33	21.31	21.24
1983	21.28	21.63	22.02	21.61	20.62	21.58	21.44	22.06	21.54	21.52	21.40	21.45
1984	21.44	21.27	21.24	19.81	19.67	19.86	21.71	21.48	21.23	20.96	21.17	21.26
1985	21.01	20.67	20.59	20.09	19.81	20.15	21.18	21.42	21.93	21.56	21.23	21.17
1986	21.17	20.83	20.66	19.56	19.55	20.51	21.77	21.59	21.48	21.15	21.26	21.07
1987	21.01	21.01	21.11	19.99	19.51	19.54	20.86	21.25	21.43	21.22	21.64	21.40
1988	21.28	21.25	21.32	19.89	19.53	19.77	21.36	21.50	20.93	20.53	20.93	20.69
1989	20.82	20.70	20.97	19.67	19.57	20.23	21.24	21.28	21.45	21.44	21.30	21.26
1990	21.17	21.11	20.89	19.77	19.63	19.88	21.72	21.60	21.07	21.36	21.27	21.12
1991	21.10	21.24	21.26	21.35	21.47	21.54	22.22	21.90	21.27	21.28	21.22	21.01
1992	20.74	20.92	20.61	19.66	19.50	21.07	21.32	21.54	21.29	21.04	21.05	20.83
1993	21.16	21.21	21.46	22.10	21.01	20.50	20.52	20.92	21.12	21.20	20.66	20.59
1994	20.71	21.04	20.69	19.72	19.56	21.27	21.14	21.21	21.51	21.41	22.05	22.12
1995	21.60	21.40	21.38	21.16	20.79	20.20	21.17	22.00	22.50	22.19	21.42	21.27
1996	21.28	21.06	21.22	20.76	21.18	21.27	21.24	20.94	20.87	21.15	20.55	20.93
1997	20.83	20.60	20.63	20.07	20.23	19.89	21.08	21.86	21.53	21.10	21.59	21.70
1998	21.83	22.10	22.04	21.66	21.15	20.62	21.07	21.68	21.62	21.23	21.31	21.11
MEAN	21.16	21.15	21.11	20.34	20.36	20.89	21.60	21.73	21.69	21.63	21.43	21.22
MAX	21.83	22.10	22.04	22.10	21.77	22.41	22.55	22.51	22.69	23.42	22.72	22.12
MIN	20.58	20.56	20.54	19.56	19.50	19.50	20.52	20.78	20.87	20.53	20.55	20.59

# Six Mile

1 MONTHLY MAX STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	21.36	21.53	21.52	22.07	21.93	22.77	22.51	22.52	21.98	21.34	21.24	21.30
1943	21.23	21.20	21.28	21.21	20.06	21.31	22.68	22.63	22.86	23.34	22.75	21.53
1944	21.30	21.22	21.35	21.27	19.75	22.08	22.78	22.84	22.81	23.38	23.08	21.55
1945	21.69	21.25	21.20	20.84	19.82	22.47	22.57	22.30	22.96	22.53	21.72	21.38
1946	21.29	21.34	21.33	20.57	21.36	22.02	22.25	22.40	22.45	21.96	21.37	21.32
1947	21.22	21.62	21.65	21.68	21.71	22.73	22.67	22.54	23.90	23.91	23.13	21.99
1948	21.57	21.50	21.36	21.20	21.95	21.45	21.38	22.15	22.91	23.22	22.41	21.40
1949	21.36	21.29	21.22	21.13	20.35	22.39	22.37	22.94	22.98	22.94	21.37	21.35
1950	21.33	21.28	21.31	21.23	21.23	21.21	21.34	21.72	21.98	23.30	22.48	21.59
1951	21.33	21.44	21.24	22.17	22.17	21.71	22.07	22.22	21.66	21.99	22.06	21.61
1952	21.34	21.36	21.67	21.79	21.79	21.43	22.31	22.38	22.24	22.67	22.14	21.43
1953	21.30	21.43	21.38	21.39	21.31	22.12	21.93	22.85	22.89	23.77	22.95	22.50
1954	21.42	21.31	21.27	20.72	22.23	22.69	22.30	21.79	22.12	22.30	22.27	21.48
1955	21.38	21.33	21.29	21.24	21.64	21.69	21.60	21.70	22.39	22.37	21.53	21.33
1956	21.32	21.24	20.88	20.55	20.88	21.21	22.18	22.27	22.13	24.48	23.28	21.75
1957	21.35	21.37	21.36	21.43	22.16	22.17	22.13	22.34	22.40	22.15	21.26	21.36
1958	22.36	22.00	21.98	22.19	21.54	20.79	22.01	22.03	21.42	21.61	21.38	21.33
1959	21.31	21.28	21.86	22.05	21.95	22.77	22.43	22.22	22.42	22.92	22.49	21.65
1960	21.37	21.52	22.83	22.17	21.92	22.62	22.81	22.78	23.56	23.47	22.34	21.38
1961	21.53	21.26	21.30	21.35	21.83	22.04	21.64	22.35	22.34	21.26	21.25	20.69
1962	20.69	20.86	21.26	20.93	20.36	21.20	22.08	22.46	22.75	22.33	21.40	21.24
1963	21.20	21.39	21.37	20.31	21.27	21.72	21.77	22.09	22.46	22.46	22.12	21.62
1964	21.58	21.73	21.41	21.26	21.44	21.60	21.57	22.45	22.50	21.76	21.34	21.32
1965	21.21	21.26	21.33	21.28	19.50	21.24	22.37	22.08	21.52	21.72	22.07	21.41
1966	21.47	21.66	22.00	21.27	22.25	22.28	21.96	22.54	22.09	21.50	21.25	21.23
1967	20.87	21.26	21.20	20.61	19.71	21.41	21.57	21.47	21.43	21.43	20.81	21.24
1968	20.74	21.26	20.86	20.69	21.64	22.94	22.81	22.46	22.13	22.06	21.54	21.37
1969	21.30	21.23	22.01	21.43	21.88	21.47	21.65	22.21	21.47	22.21	22.38	22.16
1970	22.34	21.86	21.49	21.40	21.76	21.75	21.32	21.68	21.64	21.60	21.26	20.71
1971	20.69	21.51	21.21	20.51	21.21	21.73	22.28	22.10	22.00	21.47	21.76	21.41
1972	21.26	21.34	21.27	21.24	22.08	22.88	22.29	21.97	22.21	21.26	21.62	21.67
1973	21.44	21.38	21.26	21.55	22.02	22.25	22.56	22.39	22.48	22.00	21.43	21.29
1974	21.22	20.93	20.73	20.12	20.84	22.32	23.07	22.51	22.29	22.10	21.29	21.32
1975	21.21	21.25	21.23	20.18	21.23	22.12	22.33	22.36	21.45	21.45	21.40	21.00
1976	21.06	20.69	20.85	20.11	21.75	22.34	22.26	22.30	22.19	21.52	21.31	21.27
1977	21.31	21.22	21.26	20.13	20.66	21.23	21.30	21.92	22.30	21.42	21.62	21.60
1978	21.30	21.34	21.48	21.20	21.76	22.02	22.63	22.70	21.38	21.31	21.22	21.50
1979	22.05	21.55	21.37	21.22	22.35	21.96	21.71	21.83	23.04	23.03	21.53	21.30
1980	21.38	21.42	21.31	21.25	21.48	21.38	21.47	21.41	22.11	21.01	21.32	21.24
1981	20.83	21.28	21.29	20.53	20.40	19.55	21.22	21.47	21.91	21.33	21.37	20.86
1982	21.20	21.20	21.34	21.28	22.70	22.72	22.36	22.39	22.22	21.78	21.38	21.27
1983	21.46	22.04	22.36	21.86	21.39	22.16	22.10	22.28	22.04	21.99	21.55	21.72
1984	21.80	21.30	21.28	20.96	20.42	21.23	22.30	22.03	21.30	21.27	21.61	21.41
1985	21.21	20.75	21.13	21.25	21.23	21.34	21.84	21.76	22.68	22.38	21.27	21.27
1986	21.23	21.08	21.04	20.17	19.91	21.38	22.29	22.15	21.96	21.42	21.45	21.24
1987	21.21	21.22	21.32	21.30	19.65	19.88	21.29	21.63	21.83	21.32	21.97	21.49
1988	21.33	21.28	21.47	21.24	19.83	21.21	22.04	21.88	21.24	20.62	21.35	21.12
1989	21.32	21.13	21.43	20.15	19.97	21.37	21.35	21.52	21.95	21.66	21.36	21.30
1990	21.25	21.39	21.29	20.74	20.69	20.67	22.18	22.07	21.34	21.53	21.36	21.23
1991	21.32	21.45	21.41	22.19	21.87	21.80	22.55	22.46	21.57	21.36	21.24	21.20
1992	20.85	21.23	20.91	20.14	19.54	22.12	22.17	22.12	21.59	21.37	21.34	21.22
1993	21.38	21.31	22.36	22.46	21.59	21.72	20.91	21.24	21.26	21.45	20.93	20.76
1994	20.94	21.27	21.21	20.28	19.95	21.49	21.46	21.46	22.10	21.64	23.14	22.47
1995	21.95	21.44	21.46	21.43	21.36	21.86	21.54	22.70	22.85	22.72	21.55	21.33
1996	21.38	21.22	21.65	21.65	21.74	21.74	21.74	21.23	21.22	21.30	20.66	21.36
1997	21.24	20.67	21.01	21.21	21.30	20.89	21.46	22.41	22.26	21.44	22.33	22.14
1998	22.32	22.56	22.50	22.37	21.92	21.58	21.43	22.24	22.12	21.34	21.58	21.22
MAX	22.36	22.56	22.83	22.46	22.70	22.94	23.07	22.94	23.90	24.48	23.28	22.50

**Six Mile**

1 MONTHLY MINIMUM STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	21.15	21.20	21.32	20.79	20.06	21.74	22.29	22.18	21.22	20.97	20.91	20.80
1943	20.74	20.56	20.61	19.50	19.50	19.58	21.24	21.71	22.29	22.52	21.56	21.30
1944	21.22	20.82	20.66	19.77	19.50	19.50	19.50	21.50	22.30	22.35	22.41	21.58
1945	21.26	21.03	20.54	19.50	19.50	19.50	22.06	21.64	21.59	21.41	21.33	21.27
1946	21.23	21.11	20.99	19.50	19.50	19.64	21.23	21.36	22.16	21.27	21.30	21.23
1947	21.13	21.06	21.39	21.31	19.91	21.33	22.27	22.29	21.44	23.13	22.10	21.38
1948	21.32	21.24	21.21	19.62	19.66	19.55	19.84	21.27	21.38	22.41	21.39	21.30
1949	21.27	21.22	20.68	19.50	19.50	19.63	21.47	21.35	22.33	21.38	21.26	21.22
1950	21.21	20.81	20.65	19.50	19.50	19.50	20.09	21.22	21.05	21.22	21.63	21.33
1951	21.23	21.23	20.82	19.73	21.23	19.61	21.33	21.43	21.23	21.35	21.29	21.33
1952	21.23	21.27	21.25	21.18	20.11	19.50	19.84	21.46	21.22	21.30	21.44	21.28
1953	21.23	21.22	20.95	20.00	19.50	19.92	21.21	21.45	22.53	22.54	22.24	21.43
1954	21.31	21.24	21.15	19.57	19.51	21.63	21.37	21.23	21.22	21.41	21.38	21.35
1955	21.25	21.25	21.02	19.72	19.50	19.51	21.21	20.75	21.58	21.40	21.31	21.27
1956	21.24	20.91	20.49	19.50	19.50	19.53	21.22	21.36	21.56	21.81	21.83	21.36
1957	21.28	21.22	21.26	20.30	21.26	21.22	21.39	21.64	21.45	21.27	21.21	21.13
1958	21.30	21.48	21.47	21.39	20.53	19.50	21.24	21.35	21.18	20.93	20.98	20.61
1959	20.80	20.91	21.23	21.51	21.20	21.56	22.21	21.20	21.21	21.27	21.71	21.35
1960	21.23	21.23	21.28	21.49	20.02	20.33	21.68	21.53	21.28	22.37	21.39	21.24
1961	21.22	21.13	20.71	19.62	19.50	19.54	21.24	20.69	21.21	20.79	20.70	20.55
1962	20.55	20.54	20.48	19.50	19.50	19.50	20.00	21.94	22.25	21.23	21.21	21.08
1963	20.82	20.74	20.71	19.50	19.50	19.83	21.22	21.21	21.20	21.53	21.42	21.36
1964	21.40	21.41	21.23	19.55	19.95	19.62	20.69	21.35	21.60	21.32	21.25	21.21
1965	20.75	20.65	20.56	19.50	19.50	19.50	19.93	21.30	21.12	21.29	21.39	21.33
1966	21.31	21.27	21.30	19.75	19.66	21.54	21.33	21.50	21.34	21.26	20.94	20.69
1967	20.58	20.55	20.48	19.50	19.50	19.50	21.21	21.18	20.72	20.73	20.53	20.53
1968	20.56	20.54	20.48	19.50	19.50	21.56	22.37	22.20	21.27	21.22	21.38	21.24
1969	21.22	21.05	20.90	20.59	21.35	19.86	19.96	21.52	21.12	21.35	21.62	21.45
1970	21.44	21.37	21.31	19.83	19.50	19.50	19.93	21.22	21.22	21.10	20.65	20.55
1971	20.55	20.55	20.50	19.50	19.50	19.50	21.56	21.22	21.24	21.21	21.36	21.25
1972	21.21	21.23	20.76	19.50	19.57	21.38	21.27	20.89	20.85	20.57	20.55	21.21
1973	20.75	21.20	20.73	19.72	19.50	21.43	21.94	22.27	21.55	21.32	21.24	21.22
1974	20.88	20.70	20.48	19.50	19.50	19.50	22.29	22.24	21.52	21.29	21.22	21.20
1975	20.72	20.63	20.56	19.50	19.50	21.33	21.74	21.50	20.82	21.05	21.02	20.72
1976	20.59	20.54	20.48	19.50	19.50	21.70	21.64	21.31	21.27	21.21	21.12	21.20
1977	20.86	20.67	20.49	19.50	19.50	19.52	19.85	21.10	21.33	21.21	21.21	21.24
1978	21.24	21.23	21.23	19.55	19.55	21.25	21.42	21.40	21.02	20.91	20.68	20.61
1979	21.24	21.36	21.22	19.58	19.69	21.24	21.22	21.21	21.29	21.58	21.29	21.22
1980	21.21	21.23	20.79	19.58	19.50	19.50	20.80	20.53	20.97	20.54	20.52	20.63
1981	20.57	20.56	20.48	19.50	19.50	19.50	19.80	20.60	21.27	20.92	20.86	20.63
1982	20.58	20.60	20.57	19.71	19.50	22.20	22.00	21.63	21.40	21.21	21.21	21.21
1983	21.20	21.27	21.75	21.39	19.50	20.75	20.86	21.88	21.21	21.22	21.33	21.28
1984	21.30	21.24	21.21	19.50	19.50	19.50	21.29	21.28	20.91	20.69	20.72	21.21
1985	20.77	20.56	20.48	19.50	19.50	19.50	20.02	21.23	21.37	21.23	21.21	20.92
1986	20.96	20.64	20.51	19.50	19.50	19.50	21.23	21.22	21.20	20.87	21.07	20.79
1987	20.78	20.75	20.67	19.52	19.50	19.50	19.88	20.66	21.23	20.98	21.37	21.33
1988	21.25	21.23	21.21	19.50	19.50	19.50	19.83	21.23	20.57	20.50	20.51	20.56
1989	20.55	20.56	20.52	19.50	19.50	19.50	20.95	21.01	21.28	21.29	21.25	21.23
1990	20.99	20.75	20.56	19.50	19.50	19.50	21.24	21.24	20.76	21.19	21.22	20.89
1991	20.77	20.99	20.91	20.14	20.82	21.26	21.69	21.55	21.06	21.22	21.20	20.78
1992	20.65	20.62	20.50	19.50	19.50	19.50	20.59	20.84	20.95	20.57	20.56	20.58
1993	20.71	20.99	20.82	21.52	19.65	19.50	19.85	20.45	20.62	20.82	20.55	20.54
1994	20.57	20.60	20.51	19.50	19.50	19.83	20.77	20.69	21.24	21.25	21.25	21.63
1995	21.43	21.34	21.32	20.21	19.73	19.50	20.86	21.21	22.30	21.57	21.34	21.23
1996	21.22	20.77	20.67	19.86	20.03	20.28	20.52	20.61	20.54	20.69	20.50	20.55
1997	20.58	20.55	20.48	19.50	19.54	19.50	19.92	21.46	21.20	20.74	20.76	21.36
1998	21.55	21.67	21.59	21.32	19.74	19.50	19.78	21.21	21.25	21.13	20.98	20.93
MIN	20.55	20.54	20.48	19.50	19.50	19.50	19.78	20.45	20.54	20.50	20.50	20.53

**Six Mile**

STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	22.77	22.56	22.42	22.31	22.26	21.22	20.91	20.56	19.50
1944	23.34	23.22	23.08	22.75	22.41	21.71	21.28	20.66	19.50
1945	23.38	23.23	23.07	22.51	22.41	22.30	21.35	20.71	19.50
1946	22.96	22.48	22.35	22.30	21.64	21.59	21.31	21.05	19.50
1947	22.45	22.34	22.29	22.23	21.54	21.27	21.23	21.06	19.64
1948	23.91	23.73	23.42	23.17	22.45	21.44	21.44	21.24	19.62
1949	23.22	23.04	22.90	22.66	21.75	21.38	21.27	20.15	19.50
1950	22.98	22.62	22.41	22.33	21.61	21.35	21.22	20.69	19.50
1951	23.30	22.77	22.50	21.66	21.40	21.23	21.05	20.49	19.50
1952	22.22	22.08	21.76	21.74	21.43	21.23	21.23	21.23	19.61
1953	22.67	22.55	22.19	21.54	21.46	21.25	21.22	20.67	19.50
1954	23.77	23.43	23.31	22.87	22.53	21.69	21.37	21.21	19.51
1955	22.69	22.40	22.20	21.85	21.42	21.30	21.22	21.22	19.50
1956	22.39	22.33	21.86	21.60	21.40	21.28	21.20	20.65	19.50
1957	24.48	23.89	23.39	22.87	21.83	21.51	21.35	21.22	19.53
1958	22.40	22.26	22.08	21.64	21.59	21.39	21.21	21.13	20.53
1959	22.05	21.79	21.71	21.54	21.24	20.93	20.61	20.61	19.50
1960	22.92	22.64	22.46	22.30	21.75	21.27	21.23	21.20	20.02
1961	23.56	23.37	23.16	22.55	21.69	21.28	21.28	20.71	19.50
1962	22.35	21.98	21.62	21.29	20.79	20.69	20.55	20.48	19.50
1963	22.75	22.52	22.30	22.28	22.01	21.22	20.93	20.15	19.50
1964	22.46	22.41	22.41	22.20	21.42	21.36	21.26	21.20	19.55
1965	22.50	22.35	22.05	21.80	21.35	21.27	20.97	20.56	19.50
1966	22.37	22.12	21.70	21.50	21.34	21.31	21.27	21.12	19.50
1967	22.54	22.38	22.24	21.83	21.37	21.33	20.94	20.55	19.50
1968	21.64	21.44	21.32	21.25	21.21	20.72	20.53	20.53	19.50
1969	22.94	22.57	22.48	22.42	22.31	21.30	21.22	20.99	20.59
1970	22.38	22.14	21.85	21.71	21.50	21.40	21.31	20.49	19.50
1971	21.75	21.46	21.31	21.24	21.22	21.10	20.55	20.09	19.50
1972	22.28	22.22	21.96	21.68	21.35	21.21	21.21	21.21	19.50
1973	22.88	22.57	22.28	21.97	21.29	20.86	20.55	20.55	19.50
1974	22.56	22.42	22.38	22.27	22.27	21.53	21.24	20.70	19.50
1975	23.07	22.71	22.41	22.29	22.24	21.34	21.20	20.63	19.50
1976	22.36	22.30	22.26	22.24	21.74	20.82	20.82	20.54	19.50
1977	22.34	22.27	22.18	21.70	21.64	21.28	21.12	20.67	19.50
1978	22.30	22.21	21.68	21.40	21.24	21.23	20.83	20.70	19.52
1979	22.70	22.57	22.32	22.16	21.42	21.02	20.68	20.61	19.58
1980	23.04	22.86	22.78	22.62	21.53	21.26	21.21	21.21	19.50
1981	22.11	21.68	21.42	21.07	20.59	20.53	20.52	20.48	19.50
1982	22.70	21.59	21.54	21.27	21.21	20.78	20.59	20.41	19.50
1983	22.72	22.44	22.24	22.20	22.00	21.40	21.21	21.20	19.50
1984	22.28	22.11	21.95	21.91	21.28	21.25	21.22	20.86	19.50
1985	22.30	21.77	21.72	21.32	21.28	20.71	20.69	20.48	19.50
1986	22.68	22.41	22.34	21.40	21.33	21.23	20.92	20.17	19.50
1987	22.29	22.13	21.64	21.45	21.23	20.87	20.87	20.67	19.50
1988	21.97	21.70	21.48	21.45	21.34	21.23	20.98	20.51	19.50
1989	22.04	21.72	21.63	21.42	21.21	20.55	20.50	19.98	19.50
1990	21.95	21.55	21.42	21.34	21.28	21.23	21.01	20.56	19.50
1991	22.19	21.90	21.77	21.37	21.26	20.77	20.77	20.76	19.50
1992	22.55	22.42	22.20	21.99	21.57	21.06	21.06	20.62	19.50
1993	22.46	22.37	22.29	21.79	21.11	20.82	20.58	20.56	19.50
1994	21.72	21.58	21.26	21.03	20.62	20.55	20.54	19.99	19.50
1995	23.14	22.78	22.49	21.98	21.45	21.34	21.25	20.69	19.73
1996	22.85	22.62	22.55	22.30	22.07	21.34	21.22	20.67	19.50
1997	21.74	21.55	21.31	21.30	20.59	20.52	20.50	20.48	19.50
1998	22.56	22.43	22.21	21.67	21.59	21.55	21.32	20.74	19.50
MEAN	22.62	22.37	22.17	21.90	21.54	21.19	21.02	20.70	19.56
MAX	24.48	23.89	23.42	23.17	22.53	22.30	21.44	21.24	20.59
MIN	21.64	21.44	21.26	21.03	20.59	20.52	20.50	19.98	19.50
STDV	0.56	0.55	0.54	0.51	0.45	0.33	0.29	0.34	0.21
SKEW	0.86	0.64	0.42	0.36	0.37	-0.03	-0.62	0.19	4.31

**Six Mile**

STAGE IN SIXMILE MARSH, FT NGVD, 07/06/01

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	19.50	19.50	19.56	20.05	20.52	21.28	21.28	21.33	22.86
1944	19.50	19.50	19.50	19.64	21.20	21.35	21.38	22.78	23.34
1945	19.50	19.50	19.50	19.50	20.84	21.20	21.69	22.57	23.38
1946	19.50	19.50	19.50	19.63	21.22	21.34	21.37	22.09	22.53
1947	19.91	21.20	21.21	21.21	21.28	21.42	21.65	22.73	23.90
1948	19.55	19.82	20.06	20.77	21.30	21.57	21.95	22.15	23.82
1949	19.50	19.50	19.50	19.59	20.85	21.28	21.36	22.39	23.22
1950	19.50	19.50	19.60	20.06	21.23	21.31	21.31	21.35	22.94
1951	19.61	20.12	21.02	21.21	21.36	21.44	22.17	22.21	23.30
1952	19.50	19.69	20.06	21.21	21.36	21.67	21.79	22.06	22.38
1953	19.50	19.60	20.02	21.20	21.37	21.43	21.43	22.12	22.89
1954	19.51	19.73	19.86	20.06	21.24	21.35	22.47	22.69	23.77
1955	19.50	19.55	19.66	20.68	21.29	21.38	21.64	21.69	22.39
1956	19.50	19.50	19.68	20.40	20.66	21.08	21.31	22.18	22.37
1957	20.30	21.21	21.24	21.30	21.36	21.37	22.16	22.34	24.48
1958	19.50	19.55	19.88	20.79	21.32	22.03	22.19	22.36	22.36
1959	20.61	20.68	20.75	21.21	21.31	21.38	21.86	22.77	22.77
1960	20.02	21.24	21.25	21.33	21.46	22.21	22.81	22.83	23.52
1961	19.50	19.50	19.77	19.99	21.30	21.35	21.53	22.04	23.47
1962	19.50	19.50	19.58	20.11	20.36	21.02	21.26	21.26	22.75
1963	19.50	19.50	19.50	19.60	21.04	21.38	21.39	21.77	22.46
1964	19.55	19.58	19.68	21.21	21.32	21.60	21.60	21.82	22.50
1965	19.50	19.50	19.50	19.50	19.67	21.32	21.33	21.52	22.37
1966	19.66	19.76	19.84	20.18	21.36	22.00	22.00	22.28	22.54
1967	19.50	19.50	19.50	19.50	19.97	21.22	21.26	21.50	21.57
1968	19.50	19.50	19.50	20.49	20.69	21.24	21.26	22.94	22.94
1969	19.86	19.96	20.46	21.23	21.29	21.54	22.01	22.01	22.21
1970	19.50	19.52	19.61	19.95	21.34	21.73	21.76	22.34	22.38
1971	19.50	19.50	19.50	19.50	20.71	21.29	21.51	21.74	22.28
1972	19.50	19.58	19.98	20.33	21.27	21.34	21.44	22.88	22.88
1973	19.50	19.63	19.93	21.21	21.34	21.46	21.67	22.25	22.56
1974	19.50	19.50	19.50	19.76	20.50	20.93	21.28	22.38	23.07
1975	19.50	19.53	19.77	19.95	21.21	21.25	21.32	22.12	22.36
1976	19.50	19.50	19.50	19.60	20.53	20.93	21.23	22.34	22.34
1977	19.50	19.50	19.50	19.50	20.50	21.26	21.30	21.31	22.30
1978	19.55	19.61	19.81	20.98	21.29	21.48	21.62	22.02	22.70
1979	19.58	19.65	19.84	20.80	21.24	22.05	22.05	22.35	23.04
1980	19.50	19.56	19.84	20.05	21.25	21.42	21.42	21.48	23.02
1981	19.50	19.50	19.50	19.50	20.40	21.22	21.29	21.30	21.91
1982	19.50	19.50	19.50	20.06	21.20	21.26	21.34	22.72	22.72
1983	19.50	19.67	21.21	21.24	21.34	21.46	22.28	22.36	22.36
1984	19.50	19.50	19.58	19.82	20.42	21.27	21.74	21.99	22.30
1985	19.50	19.50	19.50	19.86	20.94	21.24	21.26	21.61	22.68
1986	19.50	19.50	19.50	19.50	19.91	21.04	21.23	22.05	22.38
1987	19.50	19.50	19.50	19.54	19.65	21.29	21.32	21.32	21.83
1988	19.50	19.50	19.50	19.52	19.95	21.47	21.47	21.97	22.04
1989	19.50	19.50	19.51	19.97	19.99	21.35	21.43	21.43	21.95
1990	19.50	19.50	19.50	19.56	20.69	21.24	21.39	21.62	22.18
1991	20.14	20.89	21.00	21.20	21.26	21.45	21.53	22.19	22.55
1992	19.50	19.50	19.50	19.54	20.01	21.21	21.23	22.12	22.17
1993	19.50	19.57	19.85	20.68	20.91	21.38	22.45	22.46	22.46
1994	19.50	19.50	19.50	19.74	20.28	21.26	21.27	21.49	22.10
1995	19.50	19.70	19.81	21.26	21.43	21.46	21.86	22.51	23.14
1996	19.86	20.00	20.68	21.20	21.23	21.45	21.65	21.74	22.72
1997	19.50	19.51	19.95	20.58	21.01	21.24	21.30	21.36	22.41
1998	19.50	19.55	20.03	21.29	21.58	21.92	22.37	22.56	22.56
MEAN	19.58	19.71	19.88	20.31	20.92	21.39	21.62	22.07	22.69
MAX	20.61	21.24	21.25	21.33	21.58	22.21	22.81	22.94	24.48
MIN	19.50	19.50	19.50	19.50	19.65	20.93	21.23	21.26	21.57

**Six Mile**

WEEKLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSON (FT)	>24.5	24.0-24.5	23.5-24.0	23.0-23.5	22.5-23.0	<22.5
> 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.6 - 1.8	0.00	0.00	0.00	0.00	0.00	0.08
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.31
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.00	0.00	1.01
.75 - 1.0	0.00	0.00	0.00	0.00	1.31	1.64
.50 - .75	0.00	75.00	0.00	5.36	4.96	4.38
.25 - .50	0.00	25.00	68.97	20.54	35.51	16.87
.00 - .25	0.00	0.00	31.03	74.11	58.22	75.71

**Six Mile**

MONTHLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSON (FT)	>25.0	24.0-25.0	23.5-24.0	23.0-23.5	22.5-23.0	<22.5
> 2.0	0.00	0.00	0.00	0.00	0.00	0.07
1.8 - 2.0	0.00	50.00	0.00	0.00	0.00	0.41
1.6 - 1.8	0.00	25.00	0.00	1.67	0.00	2.22
1.4 - 1.6	0.00	25.00	10.71	17.50	6.67	2.47
1.2 - 1.4	0.00	0.00	3.57	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	32.14	19.17	17.78	4.33
.75 - 1.0	0.00	0.00	14.29	45.83	11.11	7.66
.50 - .75	0.00	0.00	35.71	11.67	13.06	12.84
.25 - .50	0.00	0.00	3.57	1.67	27.50	21.30
.00 - .25	0.00	0.00	0.00	2.50	23.89	48.70

**Mulberry Mound**

STAGE IN MULBERRY MARSH, FT NGVD, 07/06/01

YEAR	MAX	MIN	RANGE	MEAN <sup>c</sup>
1942	20.52	18.66	1.86	19.44
1943	21.36	17.58	3.78	19.20
1944	21.39	17.27	4.12	19.44
1945	20.95	17.00	3.95	19.06
1946	20.27	17.50	2.77	19.13
1947	22.03	18.44	3.59	19.87
1948	21.16	17.71	3.45	19.30
1949	20.90	17.00	3.90	19.11
1950	21.09	17.54	3.55	18.91
1951	19.84	18.05	1.79	19.29
1952	20.59	17.79	2.80	19.30
1953	21.82	17.78	4.04	19.59
1954	20.45	17.64	2.81	19.21
1955	20.10	17.64	2.46	19.10
1956	22.46	17.36	5.10	19.10
1957	20.14	18.69	1.45	19.40
1958	19.97	17.74	2.23	19.21
1959	20.67	18.94	1.73	19.56
1960	21.71	18.66	3.05	19.69
1961	19.95	17.59	2.36	18.94
1962	20.77	17.33	3.44	18.82
1963	20.26	17.00	3.26	18.98
1964	20.46	17.70	2.76	19.12
1965	19.99	17.00	2.99	18.76
1966	20.32	17.75	2.57	19.24
1967	19.62	17.00	2.62	18.53
1968	20.94	17.57	3.37	19.09
1969	20.07	17.99	2.08	19.28
1970	19.98	17.57	2.41	18.94
1971	19.94	17.00	2.94	18.83
1972	20.68	17.74	2.94	19.14
1973	20.32	17.78	2.54	19.31
1974	20.86	17.00	3.86	18.92
1975	20.09	17.55	2.54	18.97
1976	20.21	17.00	3.21	18.92
1977	19.98	17.00	2.98	18.73
1978	20.62	17.74	2.88	19.09
1979	21.01	17.76	3.25	19.42
1980	19.62	17.64	1.98	18.80
1981	19.51	17.00	2.51	18.39
1982	20.37	17.59	2.78	19.16
1983	19.98	17.87	2.11	19.36
1984	19.87	17.53	2.34	18.86
1985	20.44	17.54	2.90	18.75
1986	19.90	17.00	2.90	18.73
1987	19.62	17.00	2.62	18.69
1988	19.59	17.00	2.59	18.62
1989	19.90	17.00	2.90	18.74
1990	19.79	17.00	2.79	18.78
1991	20.36	18.52	1.84	19.30
1992	19.76	17.00	2.76	18.61
1993	20.15	17.86	2.29	18.88
1994	20.97	17.00	3.97	18.93
1995	20.65	17.77	2.88	19.33
1996	19.54	17.94	1.60	18.92
1997	20.14	17.78	2.36	18.75
1998	20.35	17.86	2.49	19.32

MEAN ANNUAL STAGE = 19.07

MEAN ANNUAL RANGE = 2.84

# Mulberry Mound

STAGE IN MULBERRY MARSH, FT NGVD, 07/06/01

Stage Duration Data for Station Elevations.  
1- 1-1942 through 31-12-1998  
Total of 20819 Days

Maximum Elevation was 22.46feet  
Minimum Elevation was 17.00 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
190	17.00	20819	100.00	2.07
191	17.10	20531	98.62	1.97
192	17.20	20510	98.52	1.87
193	17.30	20483	98.39	1.77
194	17.40	20448	98.22	1.67
195	17.50	20417	98.07	1.57
196	17.60	19969	95.92	1.47
197	17.70	19462	93.48	1.37
198	17.80	18995	91.24	1.27
199	17.90	18434	88.54	1.17
200	18.00	17924	86.09	1.07
201	18.10	17742	85.22	0.97
202	18.20	17516	84.13	0.87
203	18.30	17224	82.73	0.77
204	18.40	16885	81.10	0.67
205	18.50	16470	79.11	0.57
206	18.60	16061	77.15	0.47
207	18.70	15660	75.22	0.37
208	18.80	15236	73.18	0.27
209	18.90	14759	70.89	0.17
210	19.00	14237	68.38	0.07
211	19.10	13621	65.43	-0.03
212	19.20	12570	60.38	-0.13
213	19.30	8065	38.74	-0.23
214	19.40	5448	26.17	-0.33
215	19.50	4096	19.67	-0.43
216	19.60	3274	15.73	-0.53
217	19.70	2752	13.22	-0.63
218	19.80	2353	11.30	-0.73
219	19.90	2044	9.82	-0.83
220	20.00	1733	8.32	-0.93
221	20.10	1377	6.61	-1.03
222	20.20	1058	5.08	-1.13
223	20.30	802	3.85	-1.23
224	20.40	607	2.92	-1.33
225	20.50	489	2.35	-1.43
226	20.60	382	1.83	-1.53
227	20.70	312	1.50	-1.63
228	20.80	260	1.25	-1.73
229	20.90	214	1.03	-1.83
230	21.00	173	0.83	-1.93
231	21.10	148	0.71	-2.03
232	21.20	124	0.60	-2.13
233	21.30	105	0.50	-2.23
234	21.40	76	0.37	-2.33
235	21.50	56	0.27	-2.43
236	21.60	48	0.23	-2.53
237	21.70	37	0.18	-2.63
238	21.80	21	0.10	-2.73
239	21.90	17	0.08	-2.83
240	22.00	13	0.06	-2.93
241	22.10	7	0.03	-3.03
242	22.20	5	0.02	-3.13
243	22.30	4	0.02	-3.23
244	22.40	3	0.01	-3.33
245	22.50	0	0.00	-3.43

# Mulberry Mound

07/06/01

## MONTHLY DATA - STAGE IN MULBERRY MARSH, FT NGVD,

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	19.26	19.23	19.34	19.27	19.26	20.01	20.18	20.09	19.42	19.12	19.07	19.08
1943	18.82	18.65	19.09	18.10	17.65	17.68	19.69	19.96	20.32	21.01	20.06	19.30
1944	19.24	19.00	18.97	18.57	17.67	18.55	19.97	20.37	20.43	20.69	20.47	19.31
1945	19.34	19.16	18.61	17.82	17.48	17.70	20.10	19.73	20.20	19.90	19.38	19.28
1946	19.24	19.19	19.17	17.92	17.70	18.99	19.56	19.67	20.11	19.45	19.29	19.25
1947	19.17	19.30	19.38	19.32	19.01	19.95	20.23	20.20	20.20	21.65	20.55	19.42
1948	19.33	19.28	19.23	18.14	18.73	18.89	18.89	19.52	19.71	20.83	19.68	19.29
1949	19.27	19.24	18.85	18.06	17.33	18.45	19.67	19.62	20.35	20.02	19.27	19.25
1950	19.24	19.13	18.98	18.21	17.65	17.73	18.41	19.20	19.33	19.94	19.81	19.32
1951	19.24	19.29	18.95	19.19	19.37	18.77	19.47	19.63	19.39	19.43	19.43	19.33
1952	19.26	19.28	19.33	19.14	19.21	18.32	19.21	19.66	19.48	19.81	19.54	19.29
1953	19.25	19.28	19.06	19.08	18.12	19.12	19.33	19.65	20.64	21.29	20.52	19.70
1954	19.30	19.25	19.19	18.03	17.88	20.08	19.75	19.28	19.41	19.54	19.48	19.31
1955	19.27	19.25	19.04	18.46	18.20	18.70	19.26	19.15	19.65	19.70	19.30	19.26
1956	19.25	19.11	18.32	17.80	17.62	17.60	19.34	19.51	19.57	20.87	20.79	19.36
1957	19.27	19.25	19.29	19.09	19.50	19.44	19.54	19.82	19.75	19.43	19.22	19.24
1958	19.51	19.51	19.48	19.48	19.23	18.04	19.05	19.44	19.25	19.26	19.26	18.97
1959	19.17	19.22	19.38	19.46	19.31	19.92	20.06	19.55	19.63	19.74	19.94	19.34
1960	19.25	19.34	19.78	19.55	19.24	19.48	19.83	19.97	20.00	21.04	19.56	19.26
1961	19.29	19.18	18.96	18.66	17.83	18.95	19.35	19.17	19.45	18.98	19.06	18.40
1962	18.36	18.32	18.46	18.21	17.64	17.60	18.99	19.95	20.24	19.56	19.26	19.16
1963	18.96	19.20	19.16	17.87	17.41	17.99	19.34	19.30	19.55	20.06	19.57	19.35
1964	19.37	19.42	19.26	18.20	18.48	18.67	18.61	19.59	20.00	19.37	19.26	19.24
1965	18.94	18.84	18.87	18.16	17.25	17.49	18.78	19.47	19.22	19.32	19.46	19.30
1966	19.33	19.34	19.41	18.47	18.27	19.79	19.46	19.96	19.47	19.32	19.13	18.96
1967	18.51	18.96	18.44	17.82	17.11	17.78	19.32	19.26	19.20	19.09	18.36	18.55
1968	18.42	18.55	18.44	17.75	17.75	20.26	20.34	20.09	19.41	19.46	19.34	19.26
1969	19.24	19.12	19.42	18.98	19.38	19.04	18.53	19.64	19.28	19.48	19.78	19.51
1970	19.60	19.38	19.31	18.73	17.93	18.57	18.74	19.24	19.30	19.31	18.91	18.36
1971	18.29	19.05	18.68	17.85	17.46	18.21	19.66	19.44	19.41	19.30	19.36	19.29
1972	19.22	19.28	18.91	18.16	18.58	19.85	19.70	19.40	19.39	18.99	18.92	19.29
1973	19.21	19.24	18.77	18.90	18.00	19.68	19.98	20.07	19.93	19.46	19.27	19.25
1974	19.02	18.61	18.15	17.74	17.44	17.86	20.36	20.17	19.79	19.43	19.23	19.21
1975	18.87	18.88	18.98	17.85	17.62	19.32	19.82	19.94	19.23	19.26	19.18	18.67
1976	18.50	18.26	18.14	17.73	18.19	19.83	19.71	19.50	19.58	19.23	19.17	19.22
1977	19.18	18.95	18.77	17.76	17.10	17.75	18.50	19.28	19.63	19.28	19.22	19.36
1978	19.25	19.27	19.28	18.08	18.03	19.39	19.65	20.14	19.25	19.23	18.88	18.61
1979	19.48	19.32	19.25	18.10	19.31	19.38	19.32	19.36	20.66	20.34	19.31	19.24
1980	19.24	19.28	19.00	18.22	18.18	18.19	19.07	18.69	19.31	18.60	18.73	19.09
1981	18.61	18.94	18.40	17.86	17.26	17.08	17.63	18.63	19.41	19.13	19.15	18.60
1982	18.58	18.70	18.91	18.52	17.94	20.20	20.02	19.77	19.54	19.28	19.27	19.24
1983	19.23	19.48	19.74	19.39	18.49	19.35	19.36	19.74	19.41	19.40	19.32	19.36
1984	19.34	19.25	19.21	18.06	17.64	17.59	19.37	19.39	19.25	18.88	19.14	19.24
1985	18.95	18.52	18.20	18.06	17.68	17.77	18.81	19.33	19.77	19.54	19.21	19.15
1986	19.15	18.86	18.38	17.75	17.07	17.77	19.53	19.44	19.38	19.20	19.21	19.02
1987	19.01	18.93	19.10	18.24	17.62	17.07	17.87	19.12	19.36	19.22	19.46	19.31
1988	19.26	19.24	19.31	18.15	17.38	17.37	18.76	19.39	18.93	18.21	18.90	18.59
1989	18.64	18.69	18.92	17.82	17.58	17.63	18.97	19.25	19.36	19.41	19.26	19.26
1990	19.14	19.11	18.83	17.88	17.33	17.59	19.24	19.46	19.13	19.32	19.24	19.09
1991	19.06	19.20	19.26	18.20	19.31	19.36	19.94	19.74	19.24	19.26	19.17	18.89
1992	18.54	18.69	18.36	17.78	17.18	18.22	19.26	19.37	19.24	19.04	18.86	18.83
1993	18.98	19.18	19.31	18.87	18.91	18.72	17.99	18.61	19.10	19.10	18.54	18.25
1994	18.48	18.93	18.61	17.80	17.46	18.82	19.14	19.19	19.39	19.37	19.99	19.96
1995	19.43	19.32	19.31	19.01	18.78	18.19	19.14	19.73	20.36	20.11	19.32	19.25
1996	19.27	18.96	19.10	18.77	18.58	19.22	19.19	18.95	18.57	19.17	18.31	18.88
1997	18.80	18.45	18.23	17.90	18.06	17.87	18.50	19.67	19.43	19.06	19.46	19.52
1998	19.61	19.86	19.78	19.49	18.99	18.76	18.80	19.48	19.48	19.23	19.28	19.11
MEAN	19.09	19.08	18.98	18.41	18.11	18.62	19.30	19.54	19.59	19.57	19.35	19.15
MAX	19.61	19.86	19.78	19.87	19.50	20.26	20.36	20.37	20.66	21.65	20.79	19.96
MIN	18.29	18.26	18.14	17.73	17.07	17.07	17.63	18.61	18.57	18.21	18.31	18.25

**Mulberry Mound**  
07/06/01

1 MONTHLY MAX STAGE IN MULBERRY MARSH, FT NGVD,

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	19.32	19.40	19.48	19.58	19.44	20.52	20.42	20.33	19.93	19.29	19.24	19.26
1943	19.07	19.03	19.32	19.15	17.80	17.91	20.57	20.39	20.64	21.36	20.80	19.42
1944	19.28	19.20	19.36	19.29	17.92	19.59	20.65	20.78	20.63	21.39	21.21	19.44
1945	19.61	19.24	18.95	18.15	17.76	20.08	20.43	20.09	20.95	20.33	19.62	19.30
1946	19.28	19.41	19.39	18.78	18.17	19.51	19.89	20.16	20.27	19.93	19.34	19.28
1947	19.23	19.50	19.47	19.40	19.43	20.66	20.52	20.31	21.90	22.03	21.33	19.88
1948	19.47	19.36	19.36	19.08	19.45	19.27	19.28	19.76	20.77	21.16	20.23	19.34
1949	19.28	19.32	19.18	18.71	17.66	20.11	19.94	20.78	20.81	20.90	19.31	19.36
1950	19.30	19.33	19.36	19.26	17.81	17.87	18.83	19.42	19.56	21.09	20.41	19.43
1951	19.27	19.41	19.22	19.80	19.81	19.39	19.70	19.84	19.56	19.75	19.70	19.45
1952	19.37	19.32	19.52	19.39	19.42	19.34	19.93	20.08	19.99	20.59	20.21	19.33
1953	19.28	19.41	19.30	19.44	18.76	19.68	19.54	20.63	20.79	21.82	21.08	20.35
1954	19.34	19.29	19.29	18.87	19.56	20.45	20.06	19.41	19.68	19.90	19.82	19.36
1955	19.34	19.28	19.24	19.18	19.28	19.37	19.39	19.49	20.10	20.08	19.43	19.30
1956	19.32	19.26	18.79	17.98	17.70	17.76	19.83	19.87	19.79	22.46	21.55	19.69
1957	19.34	19.40	19.35	19.34	19.79	19.81	19.78	20.09	20.14	19.79	19.25	19.38
1958	19.97	19.86	19.69	19.80	19.37	18.97	19.58	19.70	19.39	19.52	19.40	19.30
1959	19.30	19.34	19.61	19.59	19.48	20.51	20.21	19.93	20.15	20.67	20.42	19.51
1960	19.30	19.42	20.54	19.99	19.91	20.18	20.53	20.59	21.71	21.71	20.23	19.30
1961	19.49	19.27	19.25	19.23	19.08	19.53	19.50	19.87	19.95	19.14	19.28	18.68
1962	18.46	18.47	19.20	19.04	17.71	17.73	19.67	20.31	20.77	20.24	19.37	19.24
1963	19.14	19.48	19.33	18.60	17.84	19.29	19.43	19.60	20.23	20.26	19.85	19.51
1964	19.44	19.55	19.36	19.25	19.25	19.28	19.38	20.34	20.46	19.53	19.30	19.35
1965	19.18	19.23	19.29	19.25	17.64	17.89	19.99	19.74	19.31	19.47	19.77	19.36
1966	19.43	19.63	19.61	19.26	19.89	20.06	19.82	20.32	19.74	19.46	19.23	19.23
1967	18.60	19.27	19.05	18.42	17.53	19.35	19.62	19.37	19.49	19.43	18.67	18.89
1968	18.58	19.20	19.05	17.99	18.24	20.94	20.55	20.23	20.02	19.84	19.40	19.29
1969	19.33	19.24	19.94	19.30	19.48	19.52	19.35	19.87	19.47	19.80	20.07	19.75
1970	19.98	19.49	19.44	19.35	19.36	19.41	19.29	19.38	19.73	19.67	19.24	18.48
1971	18.42	19.35	19.21	18.38	17.60	19.31	19.94	19.89	19.56	19.42	19.49	19.39
1972	19.25	19.34	19.24	18.93	19.64	20.68	20.19	19.73	19.81	19.31	19.35	19.40
1973	19.36	19.32	19.11	19.55	19.38	19.90	20.32	20.24	20.20	19.83	19.33	19.35
1974	19.21	18.77	18.51	17.97	17.58	19.59	20.86	20.48	20.04	19.69	19.27	19.36
1975	19.16	19.24	19.22	18.48	17.76	19.79	20.05	20.09	19.56	19.49	19.39	18.89
1976	18.66	18.45	18.44	17.96	19.52	20.03	19.93	19.88	20.21	19.32	19.33	19.27
1977	19.33	19.22	19.24	18.18	17.52	17.83	19.24	19.47	19.98	19.45	19.76	19.73
1978	19.30	19.33	19.43	19.05	18.49	19.57	20.53	20.62	19.44	19.37	19.22	19.50
1979	19.81	19.40	19.32	19.03	19.99	19.70	19.43	19.50	21.01	20.98	19.46	19.30
1980	19.41	19.43	19.29	18.99	19.26	19.16	19.24	19.12	19.62	18.98	19.27	19.36
1981	19.07	19.25	18.82	18.65	17.54	17.51	17.93	19.45	19.51	19.29	19.31	18.87
1982	18.79	18.90	19.28	19.24	19.99	20.37	20.15	20.08	19.77	19.58	19.33	19.28
1983	19.43	19.69	19.98	19.56	19.28	19.65	19.72	19.98	19.68	19.65	19.44	19.49
1984	19.50	19.30	19.26	18.97	17.72	17.74	19.87	19.64	19.37	19.26	19.60	19.37
1985	19.20	18.62	18.43	18.37	17.86	17.96	19.55	19.45	20.44	20.31	19.28	19.31
1986	19.30	19.09	18.57	18.13	17.51	19.12	19.90	19.71	19.55	19.42	19.41	19.29
1987	19.27	19.12	19.33	19.28	17.72	17.50	18.51	19.38	19.62	19.42	19.62	19.37
1988	19.28	19.29	19.51	19.19	17.69	17.57	19.59	19.53	19.31	18.40	19.23	18.76
1989	19.39	19.18	19.32	18.24	17.70	17.87	19.27	19.33	19.50	19.90	19.29	19.36
1990	19.24	19.37	19.28	18.36	17.65	17.69	19.75	19.79	19.29	19.41	19.31	19.24
1991	19.30	19.39	19.42	19.81	19.50	19.47	20.36	20.35	19.49	19.33	19.22	19.07
1992	18.65	18.89	18.74	18.03	17.59	19.59	19.74	19.76	19.41	19.38	19.28	19.23
1993	19.34	19.28	19.93	20.15	19.34	19.39	18.37	19.31	19.29	19.28	19.04	18.31
1994	18.59	19.25	19.23	18.11	17.70	19.31	19.35	19.34	19.63	19.59	20.97	20.39
1995	19.54	19.37	19.45	19.30	19.23	19.41	19.40	20.27	20.65	20.54	19.41	19.27
1996	19.43	19.23	19.54	19.45	19.38	19.47	19.45	19.35	18.99	19.33	18.77	19.25
1997	19.13	18.70	18.38	18.25	18.41	17.95	19.37	20.14	19.83	19.36	20.07	19.78
1998	19.96	20.35	20.20	20.14	19.51	19.29	19.37	19.81	19.69	19.36	19.67	19.24
MAX	19.98	20.35	20.54	20.15	19.99	20.94	20.86	20.78	21.90	22.46	21.55	20.39

# Mulberry Mound

07/06/01

1 MONTHLY MINIMUM STAGE IN MULBERRY MARSH, FT NGVD,

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	19.20	19.05	19.27	18.85	18.83	19.43	20.04	19.94	19.23	18.86	18.78	18.66
1943	18.63	18.39	18.40	17.81	17.58	17.61	17.96	19.56	20.12	20.37	19.45	19.26
1944	19.21	18.71	18.39	17.93	17.40	17.27	19.46	20.08	20.20	20.20	19.47	19.26
1945	19.24	19.00	18.27	17.70	17.00	17.00	19.80	19.49	19.56	19.33	19.28	19.24
1946	19.22	19.09	18.92	17.59	17.50	18.15	19.26	19.34	19.97	19.24	19.26	19.21
1947	19.07	19.12	19.30	19.24	18.44	19.30	20.07	20.06	19.42	21.32	19.95	19.30
1948	19.27	19.23	19.09	17.82	17.71	17.98	17.97	19.22	19.30	20.26	19.31	19.26
1949	19.24	19.20	18.47	17.67	17.00	17.55	19.39	19.30	20.12	19.32	19.23	19.20
1950	19.17	18.84	18.60	17.74	17.54	17.58	17.61	18.67	19.06	19.20	19.46	19.28
1951	19.22	19.23	18.66	18.05	19.20	18.06	19.18	19.38	19.22	19.28	19.24	19.27
1952	19.22	19.25	19.22	18.89	18.78	17.80	17.79	19.36	19.22	19.29	19.34	19.25
1953	19.22	19.20	18.79	18.61	17.78	17.85	19.18	19.37	20.46	20.45	20.12	19.33
1954	19.26	19.23	19.00	17.78	17.64	19.52	19.34	19.19	19.18	19.36	19.30	19.28
1955	19.23	19.24	18.77	17.89	17.64	17.94	19.13	18.82	19.44	19.35	19.26	19.24
1956	19.23	18.83	18.00	17.65	17.52	17.36	17.79	19.30	19.43	19.51	19.79	19.29
1957	19.25	19.18	19.24	18.69	19.25	19.09	19.30	19.48	19.38	19.24	19.15	19.11
1958	19.28	19.37	19.34	19.28	19.04	17.74	17.77	19.28	19.08	18.93	19.12	18.55
1959	18.94	19.05	19.22	19.38	19.05	19.37	19.92	19.12	19.16	19.24	19.55	19.28
1960	19.22	19.23	19.24	19.33	18.66	18.99	19.51	19.48	19.27	20.20	19.31	19.23
1961	19.21	19.02	18.51	17.93	17.59	17.99	19.24	18.61	19.17	18.77	18.72	18.24
1962	18.27	18.19	18.00	17.73	17.54	17.33	17.74	19.51	19.96	19.19	19.16	19.04
1963	18.77	18.87	18.74	17.58	17.00	17.82	19.19	19.10	19.12	19.44	19.34	19.29
1964	19.31	19.33	19.16	17.70	17.82	17.96	17.97	19.28	19.47	19.26	19.23	19.18
1965	18.65	18.54	18.35	17.65	17.00	17.00	17.85	19.27	19.08	19.25	19.30	19.28
1966	19.27	19.24	19.25	17.84	17.75	19.46	19.32	19.46	19.30	19.23	18.93	18.60
1967	18.38	18.31	18.02	17.55	17.00	17.00	19.17	19.05	18.85	18.62	18.13	18.13
1968	18.31	18.16	18.03	17.57	17.59	18.77	20.16	19.91	19.25	19.21	19.29	19.23
1969	19.19	18.97	18.85	18.61	19.23	18.23	17.99	19.35	19.18	19.31	19.46	19.34
1970	19.33	19.29	19.25	17.91	17.57	17.87	17.87	19.16	19.22	19.15	18.50	18.26
1971	18.21	18.19	18.21	17.57	17.00	17.33	19.37	19.22	19.28	19.19	19.28	19.23
1972	19.18	19.22	18.49	17.79	17.74	19.33	19.25	19.00	18.96	18.51	18.38	19.22
1973	18.93	19.12	18.46	17.97	17.78	19.38	19.66	20.00	19.45	19.28	19.22	19.21
1974	18.79	18.49	17.99	17.54	17.00	17.51	19.76	20.00	19.41	19.25	19.18	19.09
1975	18.61	18.52	18.62	17.63	17.55	17.85	19.50	19.45	18.80	19.09	18.91	18.49
1976	18.39	18.16	17.98	17.52	17.00	19.50	19.47	19.27	19.25	19.10	18.98	19.12
1977	18.93	18.65	18.31	17.53	17.00	17.51	17.73	19.06	19.30	19.15	18.89	19.24
1978	19.23	19.23	19.16	17.74	17.77	18.94	19.40	19.36	19.02	19.03	18.47	18.37
1979	19.24	19.29	19.14	17.76	17.83	19.23	19.23	19.24	19.28	19.50	19.26	19.21
1980	19.14	19.20	18.63	17.77	17.64	17.83	18.72	18.33	18.77	18.29	18.12	18.72
1981	18.37	18.41	18.06	17.55	17.00	17.00	17.00	17.94	19.26	18.95	18.86	18.40
1982	18.41	18.48	18.50	17.97	17.59	19.96	19.77	19.44	19.37	19.12	19.13	19.18
1983	19.11	19.28	19.52	19.31	17.87	18.59	19.00	19.52	19.24	19.24	19.28	19.25
1984	19.26	19.23	19.09	17.68	17.53	17.54	17.81	19.26	19.04	18.51	18.51	19.16
1985	18.64	18.36	18.00	17.87	17.57	17.54	17.96	19.22	19.33	19.23	19.10	18.90
1986	18.99	18.57	18.19	17.52	17.00	17.00	19.17	19.24	19.17	18.98	18.98	18.71
1987	18.79	18.68	18.67	17.71	17.51	17.00	17.48	18.64	18.80	18.95	19.23	19.27
1988	19.23	19.22	19.11	17.69	17.00	17.00	17.42	19.23	18.39	18.04	18.03	18.37
1989	18.23	18.42	18.37	17.70	17.43	17.00	17.92	19.04	19.27	19.26	19.23	19.22
1990	18.98	18.75	18.37	17.67	17.00	17.53	17.79	19.26	18.87	19.22	19.20	18.85
1991	18.69	18.97	18.94	18.52	18.96	19.26	19.41	19.48	19.05	19.22	19.06	18.64
1992	18.42	18.35	18.11	17.60	17.00	17.00	18.62	18.61	18.93	18.45	18.33	18.45
1993	18.45	19.00	18.78	19.35	18.11	17.86	17.87	18.06	18.69	18.70	18.29	18.17
1994	18.25	18.50	18.18	17.66	17.00	17.52	18.85	18.67	19.23	19.23	19.23	19.47
1995	19.34	19.28	19.26	18.44	18.25	17.77	18.76	18.93	20.07	19.43	19.27	19.21
1996	19.19	18.61	18.41	17.94	17.95	18.80	18.55	18.43	18.26	18.82	18.08	18.15
1997	18.46	18.34	18.04	17.80	17.84	17.78	17.82	19.36	19.16	18.69	18.68	19.31
1998	19.41	19.53	19.44	19.26	18.29	17.90	17.86	19.13	19.28	19.04	18.93	18.94
MIN	18.21	18.16	17.98	17.52	17.00	17.00	17.00	17.94	18.26	18.04	18.03	18.13

# Mulberry Mound

STAGE IN MULBERRY MARSH, FT NGVD, 07/06/01

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	20.52	20.37	20.23	20.06	20.02	19.23	18.78	18.39	17.58
1944	21.36	21.28	21.11	20.61	20.17	19.56	19.24	18.39	17.50
1945	21.39	21.31	21.16	20.42	20.20	20.08	19.28	18.45	17.00
1946	20.95	20.53	20.26	20.07	19.56	19.49	19.26	19.03	17.00
1947	20.27	20.16	20.04	19.97	19.46	19.25	19.22	19.07	18.15
1948	22.03	21.94	21.70	21.36	20.26	19.42	19.37	19.23	17.71
1949	21.16	21.07	20.91	20.59	19.49	19.30	19.24	18.35	17.00
1950	20.90	20.63	20.33	20.12	19.44	19.30	19.20	18.60	17.54
1951	21.09	20.77	20.41	19.53	19.31	19.22	19.06	18.05	17.58
1952	19.84	19.68	19.55	19.52	19.36	19.22	19.22	19.22	18.06
1953	20.59	20.47	19.98	19.41	19.36	19.24	19.22	18.73	17.78
1954	21.82	21.59	21.47	20.89	20.45	19.48	19.29	19.12	17.64
1955	20.45	20.22	19.93	19.75	19.37	19.26	19.18	19.18	17.64
1956	20.10	19.98	19.64	19.48	19.35	19.24	19.11	18.28	17.52
1957	22.46	22.14	21.62	20.94	19.53	19.37	19.28	19.18	17.36
1958	20.14	19.98	19.78	19.49	19.43	19.28	19.11	19.11	19.04
1959	19.70	19.55	19.50	19.38	19.24	19.05	18.55	18.55	17.74
1960	20.67	20.51	20.28	20.06	19.55	19.24	19.22	19.12	18.66
1961	21.71	21.46	21.36	20.51	19.59	19.27	19.26	18.98	17.59
1962	19.95	19.68	19.40	19.27	18.77	18.61	18.26	18.00	17.54
1963	20.77	20.50	20.13	20.01	19.87	19.17	18.86	17.96	17.00
1964	20.26	20.19	20.17	20.06	19.34	19.29	19.24	19.10	17.70
1965	20.46	20.27	20.00	19.74	19.31	19.24	18.84	18.24	17.00
1966	19.99	19.82	19.52	19.41	19.28	19.27	19.24	18.51	17.00
1967	20.32	20.19	20.02	19.58	19.32	19.32	18.93	18.31	17.00
1968	19.62	19.44	19.28	19.22	19.17	18.79	18.13	18.10	17.21
1969	20.94	20.58	20.38	20.21	20.11	19.25	19.21	18.93	18.61
1970	20.07	19.96	19.70	19.54	19.40	19.31	19.25	18.50	17.57
1971	19.73	19.49	19.26	19.23	19.22	19.02	18.26	18.05	17.00
1972	19.94	19.92	19.69	19.48	19.27	19.19	19.19	18.77	17.33
1973	20.68	20.42	20.08	19.68	19.27	19.00	18.38	18.38	17.78
1974	20.32	20.25	20.16	20.02	19.98	19.43	19.22	18.49	17.00
1975	20.86	20.65	20.26	20.05	20.00	19.26	19.09	18.52	17.51
1976	20.09	20.03	19.98	19.95	19.52	18.80	18.80	18.16	17.00
1977	20.21	19.95	19.86	19.52	19.47	19.26	18.98	18.65	17.00
1978	19.98	19.88	19.55	19.30	19.23	19.19	18.89	18.13	17.51
1979	20.62	20.45	20.17	19.86	19.40	19.02	18.47	18.37	17.76
1980	21.01	20.91	20.74	20.65	19.46	19.24	19.23	19.14	17.64
1981	19.62	19.49	19.35	18.98	18.60	18.33	18.12	18.06	17.00
1982	19.99	19.47	19.43	19.26	19.14	18.59	18.40	17.94	17.00
1983	20.37	20.26	20.03	19.99	19.77	19.37	19.12	19.11	17.87
1984	19.98	19.89	19.66	19.62	19.25	19.24	19.24	19.00	17.53
1985	19.87	19.64	19.58	19.29	19.26	18.51	18.51	18.00	17.54
1986	20.44	20.32	20.20	19.33	19.31	19.22	18.90	17.97	17.00
1987	19.90	19.73	19.47	19.39	19.24	18.98	18.71	18.67	17.00
1988	19.62	19.52	19.38	19.36	19.27	19.22	18.95	17.92	17.00
1989	19.59	19.49	19.45	19.37	19.21	18.23	18.03	17.87	17.00
1990	19.90	19.49	19.34	19.27	19.26	19.22	19.04	18.26	17.00
1991	19.81	19.66	19.50	19.32	19.22	18.87	18.74	18.69	17.53
1992	20.36	20.21	20.04	19.69	19.48	19.05	19.05	18.35	17.00
1993	20.15	20.10	19.97	19.54	19.00	18.78	18.45	18.33	17.00
1994	19.39	19.34	19.24	18.82	18.69	18.28	18.17	17.89	17.00
1995	20.97	20.74	20.39	19.98	19.34	19.28	19.23	18.67	17.52
1996	20.65	20.57	20.41	20.07	19.92	19.27	19.19	18.41	17.77
1997	19.47	19.36	19.30	19.25	18.61	18.26	18.08	18.08	17.80
1998	20.35	20.18	19.96	19.53	19.44	19.41	19.26	18.68	17.78
MEAN	20.42	20.24	20.04	19.77	19.44	19.13	18.92	18.52	17.46
MAX	22.46	22.14	21.70	21.36	20.45	20.08	19.37	19.23	19.04
MIN	19.39	19.34	19.24	18.82	18.60	18.23	18.03	17.87	17.00
STDV	0.66	0.65	0.62	0.52	0.38	0.34	0.39	0.42	0.46
SKEW	0.97	0.92	1.03	0.87	0.47	-0.84	-0.94	0.22	1.19

# Mulberry Mound

STAGE IN MULBERRY MARSH, FT NGVD, 07/06/01

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	17.58	17.61	17.63	17.63	17.83	19.26	19.32	19.32	20.64
1944	17.27	17.37	17.54	17.71	18.58	19.36	19.36	20.78	21.36
1945	17.00	17.00	17.00	17.33	17.78	19.10	19.61	20.43	21.39
1946	17.50	17.54	17.58	17.72	18.44	19.41	19.41	19.64	20.33
1947	18.44	18.75	18.87	19.23	19.26	19.39	19.50	20.66	21.90
1948	17.71	17.77	17.84	17.99	19.25	19.45	19.45	19.76	22.03
1949	17.00	17.00	17.30	17.58	17.87	19.24	19.32	20.11	21.16
1950	17.54	17.57	17.64	17.77	17.87	18.83	19.36	19.36	20.90
1951	18.05	18.48	18.67	19.06	19.30	19.41	19.81	19.82	21.09
1952	17.79	17.82	17.91	18.84	19.37	19.52	19.52	19.70	20.08
1953	17.78	17.84	17.86	18.58	19.32	19.41	19.44	19.68	20.79
1954	17.64	17.68	17.69	17.83	19.03	19.29	20.32	20.45	21.82
1955	17.64	17.70	17.78	18.17	19.24	19.28	19.34	19.39	20.10
1956	17.36	17.52	17.54	17.60	17.72	18.54	19.32	19.83	20.08
1957	18.69	19.08	19.23	19.28	19.34	19.40	19.79	20.09	22.46
1958	17.74	17.78	17.87	18.34	19.27	19.70	19.80	19.97	19.97
1959	18.55	18.74	18.90	19.23	19.30	19.34	19.61	20.51	20.51
1960	18.66	18.86	19.25	19.28	19.38	19.83	20.54	20.54	21.52
1961	17.59	17.68	17.76	17.95	19.23	19.27	19.49	19.53	21.71
1962	17.33	17.51	17.55	17.65	17.73	18.95	19.20	19.28	20.77
1963	17.00	17.00	17.51	17.65	17.89	19.32	19.43	19.48	20.24
1964	17.70	17.78	17.88	18.09	19.25	19.36	19.46	19.83	20.46
1965	17.00	17.00	17.00	17.45	17.79	19.29	19.29	19.36	19.99
1966	17.75	17.79	17.80	17.94	19.29	19.63	20.06	20.32	20.32
1967	17.00	17.00	17.00	17.44	17.69	19.05	19.27	19.46	19.62
1968	17.57	17.64	17.67	17.73	17.99	18.89	19.20	20.94	20.94
1969	17.99	18.00	18.20	19.24	19.30	19.40	19.87	19.94	19.94
1970	17.57	17.65	17.74	17.96	19.29	19.41	19.41	19.98	20.07
1971	17.00	17.33	17.54	17.60	17.83	19.24	19.35	19.51	19.94
1972	17.74	17.78	17.82	17.96	18.97	19.34	19.39	20.68	20.68
1973	17.78	17.88	17.97	17.99	19.31	19.38	19.40	19.91	20.32
1974	17.00	17.37	17.52	17.58	17.71	18.54	19.25	19.83	20.86
1975	17.55	17.58	17.62	17.66	18.12	19.24	19.36	19.79	20.09
1976	17.00	17.51	17.57	17.73	18.00	18.54	19.14	20.03	20.21
1977	17.00	17.00	17.00	17.51	17.82	18.88	19.24	19.33	19.98
1978	17.74	17.77	17.83	18.42	18.94	19.43	19.47	19.76	20.62
1979	17.76	17.83	17.87	18.18	19.26	19.81	19.81	19.99	21.01
1980	17.64	17.71	17.72	17.90	18.99	19.26	19.28	19.43	20.98
1981	17.00	17.00	17.00	17.25	17.53	17.98	19.23	19.36	19.51
1982	17.59	17.63	17.73	18.08	18.79	19.25	19.28	20.37	20.37
1983	17.87	17.93	18.14	19.23	19.29	19.43	19.98	19.98	19.98
1984	17.53	17.55	17.56	17.70	17.72	19.24	19.44	19.65	19.87
1985	17.54	17.60	17.66	17.68	17.96	18.43	19.00	19.55	20.44
1986	17.00	17.00	17.00	17.00	17.68	18.72	19.30	19.69	20.31
1987	17.00	17.00	17.00	17.48	17.68	18.82	19.33	19.33	19.62
1988	17.00	17.00	17.00	17.56	17.61	19.40	19.51	19.59	19.62
1989	17.00	17.43	17.55	17.61	17.77	19.09	19.32	19.39	19.50
1990	17.00	17.00	17.29	17.58	17.68	19.06	19.37	19.50	19.90
1991	18.52	18.81	18.90	19.14	19.24	19.39	19.42	19.81	20.36
1992	17.00	17.00	17.00	17.52	17.76	18.79	18.89	19.59	19.76
1993	17.86	17.89	17.90	18.04	18.58	19.34	20.05	20.15	20.15
1994	17.00	17.26	17.51	17.66	17.86	19.24	19.25	19.33	19.63
1995	17.77	17.83	17.91	18.86	19.23	19.41	19.45	20.39	20.97
1996	17.94	17.99	18.21	18.56	19.27	19.43	19.47	19.54	20.54
1997	17.78	17.82	17.86	17.95	18.38	18.41	18.97	19.25	20.14
1998	17.86	17.91	17.97	19.20	19.29	19.54	20.14	20.35	20.35
MEAN	17.55	17.65	17.75	18.05	18.53	19.20	19.47	19.84	20.50
MAX	18.69	19.08	19.25	19.28	19.38	19.83	20.54	20.94	22.46
MIN	17.00	17.00	17.00	17.00	17.53	17.98	18.89	19.25	19.50

**Mulberry Mound**

## WEEKLY WATER LEVEL RECESSON RATES IN PERCENTAGE

## INITIAL STAGE

RECESSON (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.6-20.0	<19.6
> 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.6 - 1.8	0.00	0.00	0.00	0.00	0.00	0.00
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.00
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.00	0.00	0.01
.75 - 1.0	0.00	0.00	0.00	0.57	0.00	0.74
.50 - .75	0.00	36.36	4.65	7.43	1.20	2.75
.25 - .50	0.00	45.45	34.88	34.38	45.62	7.91
.00 - .25	0.00	18.18	60.47	57.62	53.19	88.59

**Mulberry Mound**

## MONTHLY WATER LEVEL RECESSON RATES IN PERCENTAGE

## INITIAL STAGE

RECESSON (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.6-20.0	<19.6
> 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.8 - 2.0	0.00	45.45	10.91	0.09	0.00	0.00
1.6 - 1.8	0.00	18.18	21.82	0.35	0.00	0.12
1.4 - 1.6	0.00	0.00	11.82	2.26	0.00	1.85
1.2 - 1.4	0.00	9.09	1.82	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	24.55	9.98	0.83	2.81
.75 - 1.0	0.00	9.09	16.36	26.91	2.97	6.63
.50 - .75	0.00	18.18	8.18	20.83	23.54	12.96
.25 - .50	0.00	0.00	3.64	20.49	51.71	21.26
.00 - .25	0.00	0.00	0.91	19.10	20.95	54.37

**Big Bend Marsh**

STAGE IN BBM, FT NGVD, 07/06/01

YEAR	MAX	MIN	RANGE	MEAN
1942	20.15	16.35	3.80	18.03
1943	20.52	15.35	5.17	17.68
1944	20.84	15.83	5.01	18.34
1945	21.46	15.28	6.18	17.81
1946	19.86	15.65	4.21	17.80
1947	21.66	17.32	4.34	18.95
1948	20.61	17.09	3.52	17.98
1949	20.80	15.36	5.44	17.76
1950	20.20	15.52	4.68	17.27
1951	19.59	16.14	3.45	17.96
1952	20.58	17.23	3.35	18.07
1953	21.36	16.31	5.05	18.45
1954	19.61	16.39	3.22	17.98
1955	19.33	16.29	3.04	17.64
1956	22.41	15.15	7.26	17.59
1957	19.83	17.26	2.57	18.11
1958	19.16	16.75	2.41	17.90
1959	20.24	16.84	3.40	18.43
1960	21.43	17.38	4.05	18.69
1961	18.53	15.25	3.28	17.07
1962	20.84	15.11	5.73	16.99
1963	19.59	15.37	4.22	17.52
1964	19.57	15.78	3.79	17.78
1965	19.31	15.28	4.03	16.94
1966	20.01	17.26	2.75	18.13
1967	18.25	15.15	3.10	16.37
1968	20.00	15.16	4.84	17.42
1969	19.70	15.98	3.72	17.98
1970	19.36	15.26	4.10	17.38
1971	19.13	15.18	3.95	17.03
1972	20.27	15.82	4.45	17.74
1973	19.82	15.55	4.27	17.97
1974	19.68	15.07	4.61	17.21
1975	19.28	15.61	3.67	17.27
1976	20.37	15.06	5.31	17.25
1977	18.53	15.28	3.25	16.80
1978	20.47	16.09	4.38	17.80
1979	21.10	16.88	4.22	18.20
1980	17.77	15.19	2.58	16.72
1981	18.01	15.01	3.00	16.11
1982	19.68	15.33	4.35	17.53
1983	19.59	16.98	2.61	18.15
1984	18.56	15.97	2.59	17.43
1985	19.97	15.10	4.87	17.02
1986	18.43	15.27	3.16	16.88
1987	18.31	15.10	3.21	17.06
1988	18.04	15.06	2.98	16.62
1989	18.70	15.22	3.48	16.80
1990	19.13	15.34	3.79	17.06
1991	19.93	17.03	2.90	18.06
1992	18.48	15.23	3.25	16.64
1993	19.26	15.18	4.08	16.81
1994	20.04	15.20	4.84	17.03
1995	20.71	17.17	3.54	18.17
1996	18.09	15.19	2.90	17.14
1997	19.12	15.16	3.96	16.98
1998	19.76	17.12	2.64	18.16

MEAN ANNUAL STAGE = 17.54

MEAN ANNUAL RANGE = 3.90

**Big Bend Marsh**

STAGE DURATION IN BBM, FT NGVD, 07/06/01

Stage Duration Data for Station Elevations.  
1- 1-1942 through 31-12-1998  
Total of 20819 Days

Maximum Elevation was 22.41feet  
Minimum Elevation was 15.01 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
170	15.00	20819	100.00	2.54
171	15.10	20791	99.87	2.44
172	15.20	20663	99.25	2.34
173	15.30	20310	97.56	2.24
174	15.40	19919	95.68	2.14
175	15.50	19529	93.80	2.04
176	15.60	19217	92.31	1.94
177	15.70	18881	90.69	1.84
178	15.80	18578	89.24	1.74
179	15.90	18237	87.60	1.64
180	16.00	17954	86.24	1.54
181	16.10	17650	84.78	1.44
182	16.20	17375	83.46	1.34
183	16.30	17146	82.36	1.24
184	16.40	16952	81.43	1.14
185	16.50	16744	80.43	1.04
186	16.60	16533	79.41	0.94
187	16.70	16315	78.37	0.84
188	16.80	16125	77.45	0.74
189	16.90	15939	76.56	0.64
190	17.00	15760	75.70	0.54
191	17.10	15566	74.77	0.44
192	17.20	14749	70.84	0.34
193	17.30	13699	65.80	0.24
194	17.40	12050	57.88	0.14
195	17.50	10581	50.82	0.04
196	17.60	9261	44.48	-0.06
197	17.70	8161	39.20	-0.16
198	17.80	7372	35.41	-0.26
199	17.90	6682	32.10	-0.36
200	18.00	6068	29.15	-0.46
201	18.10	5507	26.45	-0.56
202	18.20	4957	23.81	-0.66
203	18.30	4485	21.54	-0.76
204	18.40	4131	19.64	-0.86
205	18.50	3813	18.32	-0.96
206	18.60	3534	16.97	-1.06
207	18.70	3300	15.85	-1.16
208	18.80	3076	14.77	-1.26
209	18.90	2913	13.51	-1.36
210	19.00	2598	12.48	-1.46
211	19.10	2383	11.45	-1.56
212	19.20	2113	10.15	-1.66
213	19.30	1881	9.04	-1.76
214	19.40	1609	7.73	-1.86
215	19.50	1374	6.60	-1.96
216	19.60	1138	5.47	-2.06
217	19.70	960	4.61	-2.16
218	19.80	798	3.83	-2.26
219	19.90	676	3.25	-2.36
220	20.00	564	2.71	-2.46
221	20.10	472	2.27	-2.56
222	20.20	403	1.94	-2.66
223	20.30	337	1.62	-2.76
224	20.40	275	1.32	-2.86

**Big Bend Marsh (CONT.)** (07/06/01)

225	20.50	217	1.04	-2.96
226	20.60	170	0.82	-3.06
227	20.70	140	0.67	-3.16
228	20.80	107	0.51	-3.26
229	20.90	83	0.40	-3.36
230	21.00	68	0.33	-3.46
231	21.10	60	0.29	-3.56
232	21.20	49	0.24	-3.66
233	21.30	38	0.18	-3.76
234	21.40	28	0.13	-3.86
235	21.50	19	0.09	-3.96
236	21.60	13	0.06	-4.06
237	21.70	9	0.04	-4.16
238	21.80	9	0.04	-4.26
239	21.90	7	0.03	-4.36
240	22.00	7	0.03	-4.46
241	22.10	6	0.03	-4.56
242	22.20	4	0.02	-4.66
243	22.30	3	0.01	-4.76
244	22.40	1	0.00	-4.86
245	22.50	0	0.00	-4.96

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# Big Bend Marsh

1 MONTHLY DATA - STAGE IN BBM, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.20	16.96	17.58	17.79	17.83	19.18	19.58	19.44	18.55	17.57	17.34	17.26
1943	16.11	15.61	16.33	17.08	16.24	16.21	18.11	19.10	19.85	20.25	19.34	17.85
1944	17.46	17.29	16.74	17.32	17.05	17.15	19.14	20.02	20.03	20.15	19.80	17.87
1945	17.86	17.39	16.74	15.95	15.79	16.09	19.01	19.03	20.25	19.63	18.25	17.67
1946	17.44	17.29	17.27	16.41	16.40	17.69	18.23	18.89	19.62	18.95	17.83	17.55
1947	17.35	17.66	18.23	18.13	17.79	19.14	19.98	19.71	19.88	21.14	20.02	18.30
1948	17.77	17.71	17.50	17.36	17.66	17.54	17.19	17.98	18.33	20.21	18.82	17.69
1949	17.56	17.46	17.14	16.68	15.64	16.77	18.58	18.27	19.92	19.91	17.74	17.46
1950	17.49	17.37	16.91	17.19	16.41	16.49	15.80	16.64	17.53	18.40	19.10	17.95
1951	17.47	17.58	17.00	17.53	18.24	17.66	18.05	18.75	18.52	18.61	18.09	17.94
1952	17.50	17.58	17.84	17.79	17.75	17.56	17.96	18.29	18.68	19.23	18.93	17.66
1953	17.47	17.55	16.99	17.62	17.45	17.85	17.70	18.36	20.41	20.90	19.97	19.14
1954	17.74	17.49	17.36	17.03	17.04	19.20	19.26	17.77	17.86	18.85	18.35	17.83
1955	17.54	17.53	17.34	17.43	17.38	17.42	17.49	16.92	18.28	18.97	17.89	17.49
1956	17.45	17.29	15.68	15.80	15.96	15.83	17.75	17.89	18.71	20.48	20.14	18.08
1957	17.56	17.44	17.61	17.69	18.35	18.39	18.36	19.25	19.41	18.44	17.41	17.40
1958	18.18	18.58	18.55	18.53	17.97	17.42	17.39	17.96	17.62	17.68	17.66	17.26
1959	17.20	17.33	17.74	18.68	18.01	19.24	19.48	18.67	18.66	18.76	19.46	17.95
1960	17.52	17.73	18.62	18.95	18.27	18.17	19.12	19.63	19.42	20.57	18.60	17.57
1961	17.60	17.33	16.37	17.07	16.70	17.58	17.83	17.35	18.15	16.98	16.50	15.48
1962	15.27	15.25	15.38	16.64	15.95	15.77	17.16	18.73	19.69	18.95	17.60	17.39
1963	17.30	17.43	17.39	16.39	15.81	16.68	17.56	17.30	18.01	19.41	18.80	18.18
1964	18.26	18.34	17.62	17.40	17.36	17.29	16.59	18.01	19.38	18.14	17.54	17.45
1965	16.77	15.90	16.02	16.92	15.63	16.13	16.51	18.15	17.49	17.63	18.47	17.65
1966	17.70	17.83	18.25	17.51	17.47	19.15	18.57	19.45	18.79	18.09	17.42	17.33
1967	16.44	16.28	15.73	15.76	15.42	16.35	17.67	17.37	17.18	17.23	15.60	15.38
1968	15.34	15.40	15.46	15.62	16.18	19.22	19.72	19.47	18.35	18.62	18.00	17.52
1969	17.41	16.73	17.81	17.67	17.98	17.92	17.42	18.35	17.76	18.83	19.21	18.53
1970	18.75	18.15	17.68	17.80	17.38	17.53	17.22	17.08	17.36	17.67	16.65	15.39
1971	15.25	16.71	16.39	15.95	15.63	16.39	17.99	18.05	17.98	18.06	18.34	17.65
1972	17.37	17.55	16.79	16.75	17.61	18.93	19.20	18.12	18.23	17.44	17.36	17.54
1973	17.28	17.34	16.09	17.48	17.27	18.33	19.26	19.49	19.42	18.51	17.66	17.45
1974	16.91	15.62	15.20	15.58	15.62	16.24	19.18	19.39	19.32	18.51	17.45	17.39
1975	16.55	15.84	16.09	16.03	15.97	17.91	18.90	19.18	17.96	17.75	17.62	17.28
1976	16.30	15.29	15.17	15.53	16.78	18.80	19.01	18.42	19.12	17.72	17.41	17.36
1977	17.19	16.34	15.95	15.73	15.39	16.37	15.96	16.91	18.25	17.77	17.63	18.05
1978	17.59	17.59	17.68	17.35	17.37	17.92	18.41	19.88	17.87	17.58	17.35	16.93
1979	18.22	17.92	17.51	17.25	18.15	18.21	17.96	17.89	20.12	19.75	17.88	17.50
1980	17.47	17.43	16.81	16.77	16.87	17.19	16.55	15.93	17.28	16.13	15.67	16.60
1981	16.15	16.22	15.49	15.80	15.46	15.41	15.14	16.08	17.81	17.07	16.97	15.77
1982	15.43	15.48	16.25	17.24	16.74	19.02	19.31	19.23	18.67	17.93	17.51	17.42
1983	17.29	18.48	19.13	18.39	17.59	17.96	17.93	18.46	18.35	18.27	18.08	17.89
1984	17.99	17.49	17.38	17.27	16.75	16.67	17.88	17.91	17.49	17.34	17.32	17.61
1985	17.17	15.77	15.25	16.47	16.24	16.34	16.96	17.57	18.59	18.95	17.50	17.39
1986	17.30	16.37	15.41	15.62	15.37	16.42	17.98	18.03	17.95	17.52	17.56	16.99
1987	17.15	16.78	17.06	17.42	17.33	16.35	15.36	16.45	17.79	17.59	17.86	17.59
1988	17.24	17.20	17.62	17.37	16.44	15.57	16.46	17.76	17.06	15.45	15.72	15.56
1989	15.86	16.42	16.61	16.11	16.20	16.06	16.89	17.22	17.58	17.97	17.32	17.28
1990	16.92	16.56	16.79	16.09	15.58	16.12	17.58	18.05	17.60	18.43	17.59	17.34
1991	17.22	17.39	17.46	18.11	18.23	18.39	19.32	19.37	18.22	18.27	17.39	17.28
1992	16.03	15.59	15.39	15.75	15.47	16.61	17.77	17.92	17.70	17.50	17.26	16.62
1993	16.03	17.05	17.21	19.10	17.78	17.61	16.67	15.60	17.05	16.63	15.82	15.22
1994	15.31	15.79	15.94	15.80	15.73	17.16	17.34	17.14	17.70	18.04	18.74	19.58
1995	18.29	17.90	17.89	17.71	17.52	17.51	17.52	18.34	19.70	20.17	18.04	17.46
1996	17.54	16.71	17.06	17.69	17.43	17.75	17.73	17.50	17.25	17.30	15.77	15.88
1997	15.74	15.44	15.21	16.18	17.04	17.08	16.30	18.33	18.20	17.58	18.07	18.53
1998	18.69	19.24	19.11	18.73	17.88	17.48	17.39	17.89	18.40	18.06	17.75	17.36
MEAN	17.13	17.00	16.89	17.04	16.85	17.38	17.87	18.17	18.46	18.41	17.85	17.38
MAX	18.75	19.24	19.13	19.10	18.35	19.24	19.98	20.02	20.41	21.14	20.14	19.58
MIN	15.25	15.25	15.17	15.53	15.37	15.41	15.14	15.60	17.05	15.45	15.60	15.22

# Big Bend Marsh

1 MONTHLY MAX STAGE IN BBM, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.29	17.47	17.80	18.21	18.08	20.14	20.15	19.79	19.52	18.06	17.40	17.42
1943	16.88	15.90	17.17	17.19	16.76	16.94	19.71	19.63	20.23	20.52	19.96	18.47
1944	17.53	17.37	17.23	17.41	17.33	18.13	20.62	20.78	20.25	20.84	20.53	18.62
1945	18.26	17.57	17.30	16.32	16.26	18.79	19.40	19.25	21.46	20.34	18.78	18.03
1946	17.53	17.43	17.55	16.80	17.31	18.00	19.32	19.44	19.86	19.84	17.99	17.82
1947	17.39	18.01	18.61	18.26	18.20	20.79	20.58	20.05	21.56	21.66	20.77	19.37
1948	18.11	18.03	17.68	17.39	17.99	17.64	17.28	18.47	20.01	20.61	19.53	17.91
1949	17.62	17.55	17.36	17.06	16.10	18.98	18.96	19.80	20.68	20.80	18.30	17.68
1950	17.67	17.50	17.47	17.48	17.12	17.11	16.01	17.43	17.85	20.20	19.78	18.47
1951	17.59	17.74	17.39	18.67	18.92	17.94	18.55	19.07	18.89	19.59	18.92	18.63
1952	17.62	17.64	18.21	18.13	17.97	17.96	18.53	18.86	19.30	20.58	20.41	17.91
1953	17.51	17.72	17.36	17.99	17.61	18.37	18.13	19.69	20.80	21.36	20.43	20.12
1954	18.04	17.57	17.45	17.16	17.74	19.61	19.57	18.32	18.69	19.18	18.99	18.30
1955	17.62	17.61	17.46	17.52	17.54	17.79	17.81	17.49	18.94	19.33	18.89	17.57
1956	17.50	17.46	16.75	16.29	16.27	16.25	18.34	18.47	19.39	22.41	21.07	19.11
1957	17.64	17.66	17.68	17.78	18.86	18.89	19.01	19.46	19.83	19.53	17.55	17.63
1958	18.97	19.14	19.16	19.13	18.82	17.57	17.68	18.33	17.78	18.09	17.95	17.42
1959	17.41	17.52	18.37	18.89	18.45	20.24	19.87	19.30	19.73	20.08	20.04	18.66
1960	17.73	17.91	20.04	19.93	19.40	19.16	20.26	20.35	21.40	21.43	19.85	17.78
1961	17.87	17.52	16.84	17.33	17.25	17.87	18.05	18.10	18.53	17.61	16.93	15.97
1962	15.31	15.30	15.86	16.98	16.25	16.15	18.17	19.19	20.84	20.21	17.71	17.50
1963	17.34	17.79	17.74	16.75	16.73	17.39	17.72	17.92	19.39	19.59	19.30	19.02
1964	18.55	18.88	18.06	17.58	17.43	17.40	17.50	19.40	19.57	18.63	17.73	17.62
1965	17.31	16.21	17.05	17.20	16.23	17.06	18.44	18.52	17.70	18.26	19.31	17.73
1966	18.00	18.46	18.72	17.70	18.44	19.43	19.46	20.01	19.64	18.42	17.63	17.40
1967	17.25	16.87	16.60	15.89	15.58	17.55	18.25	17.45	17.68	17.75	16.27	15.50
1968	15.44	15.83	15.82	16.12	16.70	19.96	20.00	19.66	19.33	19.76	18.55	17.68
1969	17.53	17.21	18.98	18.08	18.22	18.36	17.70	18.69	18.23	19.39	19.70	18.95
1970	19.36	18.63	18.00	18.20	17.60	17.87	17.30	17.32	17.89	18.33	17.24	15.73
1971	15.30	17.34	17.23	16.12	15.78	17.30	18.53	18.29	18.69	18.69	19.13	17.84
1972	17.46	17.64	17.36	17.22	18.29	20.27	19.96	18.74	18.92	17.59	17.56	17.83
1973	17.66	17.65	17.03	18.02	17.44	18.89	19.77	19.82	19.58	19.26	18.05	17.57
1974	17.41	16.04	15.38	15.81	15.84	17.54	19.68	19.54	19.67	19.59	17.59	17.54
1975	17.27	16.20	16.32	16.18	16.67	18.31	19.21	19.28	18.92	18.28	18.00	17.34
1976	17.22	15.51	15.27	15.66	18.21	18.98	19.16	18.95	20.37	18.22	17.54	17.47
1977	17.42	16.80	16.43	15.82	15.56	16.69	16.42	17.49	18.53	18.14	18.18	18.51
1978	17.75	17.68	17.93	17.42	17.56	18.18	19.79	20.47	18.43	17.74	17.51	17.71
1979	18.68	18.40	17.65	17.36	18.87	18.71	18.43	18.16	21.10	20.39	18.73	17.60
1980	17.65	17.62	17.41	17.02	17.34	17.33	17.14	16.49	17.77	17.15	16.62	17.19
1981	17.14	16.77	16.08	15.93	15.61	15.54	15.42	17.60	18.01	17.61	17.24	16.39
1982	15.54	15.58	17.08	17.33	17.60	19.39	19.68	19.51	19.01	18.99	17.56	17.49
1983	17.63	19.45	19.59	18.86	18.07	18.32	18.49	18.78	18.87	19.15	19.10	18.34
1984	18.53	17.57	17.52	17.32	17.21	17.15	18.56	18.56	17.69	17.55	18.05	18.03
1985	17.35	16.40	15.36	17.11	16.79	17.14	17.83	17.72	19.92	19.97	17.70	17.50
1986	17.45	16.92	15.75	15.73	15.50	17.45	18.43	18.35	18.22	17.78	17.85	17.32
1987	17.25	17.11	17.47	17.55	17.46	17.24	15.98	17.25	18.31	17.87	18.03	17.94
1988	17.30	17.23	18.04	17.69	17.18	15.69	17.87	17.99	17.38	16.06	15.94	15.76
1989	17.23	17.19	17.19	16.43	16.44	17.02	17.12	17.42	17.70	18.70	17.62	17.45
1990	17.31	17.41	17.41	16.25	15.85	17.01	18.22	18.53	17.79	19.13	17.98	17.38
1991	17.33	17.57	17.73	16.12	16.11	18.93	19.80	19.93	18.78	18.93	17.53	17.33
1992	17.11	15.73	15.67	16.07	15.78	17.89	18.24	18.48	18.01	17.72	17.37	17.30
1993	17.25	17.26	18.48	19.26	18.72	17.84	17.38	16.77	17.25	17.12	16.62	15.30
1994	15.36	16.57	16.66	16.14	16.05	17.63	17.59	17.40	18.29	18.32	20.04	19.88
1995	18.66	18.18	18.18	17.88	17.65	17.95	17.96	19.02	20.08	20.71	19.11	17.57
1996	17.78	17.30	17.89	18.03	17.72	18.09	18.05	17.72	17.31	17.51	16.85	16.28
1997	15.86	15.71	15.30	17.06	17.18	17.21	17.20	18.91	18.83	17.96	18.86	19.12
1998	19.42	19.76	19.73	19.48	18.34	17.59	17.65	18.21	19.17	19.00	18.22	17.41
MAX	19.42	19.76	20.04	19.93	19.40	20.79	20.62	20.78	21.56	22.41	21.07	20.12

**Big Bend Marsh**

1 MONTHLY MINIMUM STAGE IN BBM, FT NGVD, 07/06/01

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.06	16.35	17.40	17.50	17.64	18.00	19.28	19.19	17.77	17.36	17.27	16.96
1943	15.63	15.37	15.35	16.76	15.99	15.89	16.31	18.79	19.59	19.90	18.52	17.54
1944	17.37	17.13	16.01	17.23	16.20	15.83	18.20	19.42	19.73	19.61	18.76	17.55
1945	17.52	17.30	15.65	15.64	15.40	15.28	18.72	18.82	19.01	18.41	17.77	17.49
1946	17.38	17.15	16.78	15.90	15.65	17.31	17.74	18.53	19.37	17.75	17.67	17.40
1947	17.32	17.32	17.90	17.99	17.50	17.98	19.51	19.49	19.02	20.68	19.44	17.79
1948	17.59	17.50	17.34	17.33	17.31	17.33	17.09	17.13	17.83	19.56	17.91	17.55
1949	17.49	17.37	16.34	16.13	15.36	15.76	18.13	17.85	19.69	18.36	17.48	17.37
1950	17.34	17.19	16.14	16.75	15.94	15.92	15.61	15.52	17.21	17.12	18.57	17.61
1951	17.37	17.37	16.15	16.14	17.74	17.45	17.48	18.54	17.93	17.84	17.50	17.63
1952	17.37	17.51	17.44	17.58	17.59	17.34	17.23	17.91	18.08	18.12	17.95	17.49
1953	17.39	17.38	16.31	17.22	17.30	17.29	17.46	17.93	19.79	20.32	19.51	18.09
1954	17.57	17.41	17.17	16.70	16.39	17.90	18.46	17.51	17.44	18.35	17.82	17.63
1955	17.45	17.47	17.27	17.37	17.29	17.18	17.20	16.29	17.55	18.46	17.53	17.45
1956	17.39	16.87	15.15	15.18	15.64	15.52	15.98	17.54	18.19	18.79	19.25	17.65
1957	17.48	17.33	17.50	17.57	17.65	17.83	17.80	18.98	18.81	17.58	17.35	17.26
1958	17.60	18.11	18.22	18.07	17.59	17.34	17.29	17.65	17.41	17.37	17.42	16.75
1959	16.84	17.17	17.27	18.43	17.77	18.04	19.20	17.65	17.58	17.71	18.72	17.65
1960	17.38	17.39	17.48	18.26	17.55	17.73	18.47	18.92	18.08	19.68	17.80	17.43
1961	17.37	16.95	15.83	16.44	15.97	17.28	17.61	16.75	17.67	16.36	16.02	15.25
1962	15.23	15.19	15.11	15.93	15.64	15.51	15.50	18.05	18.89	17.66	17.46	17.32
1963	17.19	16.74	16.79	15.86	15.37	16.41	17.34	16.85	17.21	18.90	18.22	17.88
1964	18.03	17.94	17.38	17.23	17.27	17.19	15.78	17.44	18.75	17.72	17.45	17.32
1965	15.96	15.57	15.43	16.29	15.30	15.28	15.49	17.73	17.34	17.37	17.75	17.58
1966	17.54	17.54	17.68	17.35	17.30	18.52	18.14	18.56	18.21	17.66	17.33	17.26
1967	15.60	15.37	15.20	15.44	15.30	15.30	17.23	17.16	16.88	16.34	15.21	15.15
1968	15.27	15.18	15.16	15.20	15.83	16.76	19.35	19.20	17.92	17.70	17.70	17.39
1969	17.24	16.24	15.98	17.52	17.56	17.57	17.23	17.62	17.55	18.18	18.62	18.06
1970	18.00	17.72	17.57	17.43	17.28	17.20	17.09	16.81	17.22	17.22	15.78	15.26
1971	15.20	15.18	15.47	15.63	15.42	15.49	17.33	17.59	17.59	17.63	17.67	17.48
1972	17.33	17.36	15.82	16.23	17.23	18.09	18.22	17.59	17.50	17.30	17.27	17.27
1973	17.00	17.12	15.55	15.93	17.11	17.36	18.91	19.32	19.14	17.96	17.42	17.36
1974	16.09	15.38	15.07	15.11	15.44	15.47	17.71	19.21	19.03	17.61	17.35	17.30
1975	15.77	15.61	15.80	15.83	15.76	17.02	18.23	19.02	17.43	17.42	17.34	17.23
1976	15.53	15.18	15.06	15.10	15.41	18.25	18.81	17.99	18.23	17.37	17.31	17.18
1977	16.72	15.91	15.50	15.51	15.28	15.45	15.63	16.27	17.36	17.51	17.38	17.74
1978	17.48	17.47	17.42	17.29	17.15	17.15	18.08	18.58	17.52	17.45	17.25	16.09
1979	17.61	17.66	17.33	17.08	16.88	17.87	17.65	17.59	17.78	18.86	17.57	17.37
1980	17.33	17.19	15.96	16.37	16.42	17.06	16.03	15.44	15.44	15.38	15.19	16.07
1981	15.43	15.42	15.21	15.45	15.33	15.31	15.01	15.34	17.48	16.51	16.39	15.36
1982	15.33	15.39	15.45	17.13	16.13	17.90	19.12	19.04	18.37	17.39	17.38	17.29
1983	16.98	17.58	18.66	18.11	17.36	17.45	17.45	17.77	17.99	17.69	17.66	17.55
1984	17.58	17.43	17.30	17.16	15.97	16.33	17.17	17.36	17.27	17.14	16.58	17.35
1985	16.49	15.37	15.10	15.31	15.86	15.63	16.04	17.41	17.77	17.73	17.36	17.30
1986	17.01	15.80	15.28	15.31	15.27	15.27	17.35	17.60	17.52	17.41	17.31	16.37
1987	16.95	16.46	16.07	17.32	17.25	15.62	15.10	15.45	16.79	17.21	17.24	17.31
1988	17.18	17.15	17.00	17.17	15.50	15.39	15.06	17.41	16.15	15.15	15.14	15.35
1989	15.22	15.59	15.61	15.84	15.86	15.66	16.60	16.64	17.40	17.43	17.17	17.09
1990	16.37	15.98	15.82	15.83	15.34	15.68	16.86	17.71	17.44	17.78	17.39	17.28
1991	17.03	17.15	17.15	17.57	17.86	18.03	18.82	18.90	17.76	17.55	17.32	17.13
1992	15.41	15.34	15.23	15.27	15.31	15.32	17.30	17.30	17.39	17.27	17.16	15.72
1993	15.50	16.69	16.08	18.67	17.43	17.39	15.57	15.28	16.45	16.03	15.32	15.18
1994	15.20	15.34	15.31	15.33	15.41	15.65	17.02	16.65	17.27	17.62	17.59	18.68
1995	18.04	17.69	17.66	17.56	17.43	17.37	17.17	17.18	19.10	19.32	17.58	17.37
1996	17.32	15.87	15.50	17.40	17.37	17.55	17.32	17.29	17.14	16.96	15.20	15.19
1997	15.53	15.31	15.16	15.34	16.60	16.65	15.86	17.25	17.66	17.35	17.33	17.98
1998	18.39	18.80	18.54	18.00	17.46	17.36	17.12	17.20	17.75	17.43	17.39	17.31
MIN	15.20	15.18	15.06	15.10	15.27	15.27	15.01	15.28	15.44	15.15	15.14	15.15

# Big Bend Marsh

STAGE IN BBM, FT NGVD, 07/06/01

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	20.15	20.08	19.75	19.35	19.28	17.77	17.27	15.35	15.35
1944	20.52	20.46	20.32	19.90	19.62	18.79	17.46	16.01	15.89
1945	20.84	20.70	20.53	19.86	19.61	19.42	17.70	17.15	15.40
1946	21.46	20.81	20.32	19.67	18.97	18.72	17.57	17.15	15.28
1947	19.86	19.79	19.62	19.43	18.83	17.75	17.52	17.32	17.31
1948	21.66	21.54	21.27	20.68	19.72	19.02	18.30	17.50	17.31
1949	20.61	20.55	20.36	19.73	18.43	17.73	17.46	17.09	15.36
1950	20.80	20.52	20.25	19.69	18.97	17.85	17.37	16.20	15.76
1951	20.20	20.04	19.61	18.77	17.86	17.37	17.12	16.14	15.52
1952	19.59	19.29	18.73	18.54	18.11	17.74	17.50	17.37	17.37
1953	20.58	20.41	19.98	18.38	18.12	17.91	17.47	17.23	16.31
1954	21.36	21.15	21.08	20.38	20.16	18.50	17.69	17.37	16.39
1955	19.61	19.52	19.31	19.27	18.32	17.52	17.44	17.44	17.27
1956	19.33	19.23	18.96	18.46	18.11	17.45	17.15	16.29	15.15
1957	22.41	22.01	21.32	20.24	18.79	17.89	17.54	17.33	15.52
1958	19.83	19.73	19.41	18.98	18.81	17.94	17.35	17.26	17.26
1959	18.89	18.72	18.64	18.45	17.77	17.37	17.29	16.75	16.75
1960	20.24	20.12	19.79	19.49	18.98	17.65	17.58	17.38	17.38
1961	21.43	21.12	20.80	20.19	18.80	18.08	17.73	16.84	15.83
1962	18.53	18.34	17.94	17.76	17.32	16.75	16.02	15.19	15.11
1963	20.84	20.45	19.88	19.35	18.89	17.46	17.28	16.67	15.37
1964	19.59	19.54	19.47	19.28	18.22	17.88	17.48	17.21	16.41
1965	19.57	19.49	19.30	19.10	17.93	17.45	16.50	15.57	15.30
1966	19.31	19.06	18.54	17.97	17.59	17.54	17.50	17.34	15.28
1967	20.01	19.88	19.49	18.95	18.21	18.14	17.33	15.37	15.20
1968	18.25	18.04	17.71	17.23	17.23	16.88	15.21	15.15	15.15
1969	20.00	19.90	19.83	19.47	19.35	17.81	17.64	16.18	15.98
1970	19.70	19.60	19.31	18.68	18.28	18.00	17.57	17.50	17.23
1971	18.33	18.12	17.74	17.23	17.22	16.81	15.78	15.18	15.18
1972	19.13	18.91	18.66	18.07	17.64	17.59	17.45	16.68	15.49
1973	20.27	20.07	19.62	19.09	18.09	17.54	17.27	17.00	15.55
1974	19.82	19.73	19.62	19.37	19.32	18.30	17.41	15.38	15.07
1975	19.68	19.54	19.36	19.28	19.06	17.68	17.30	15.61	15.47
1976	19.28	19.19	19.14	19.12	18.49	17.43	17.32	15.18	15.06
1977	20.37	19.96	19.09	18.81	18.60	17.99	17.31	15.91	15.28
1978	18.53	18.44	18.27	17.94	17.53	17.47	17.38	17.29	15.45
1979	20.47	20.17	19.80	19.23	18.09	17.52	17.25	16.09	16.09
1980	21.10	20.79	20.37	20.11	18.61	17.59	17.57	17.19	15.96
1981	17.77	17.68	17.47	17.06	16.03	15.44	15.21	15.19	15.19
1982	18.01	17.98	17.88	17.48	16.91	15.74	15.33	15.33	15.01
1983	19.68	19.55	19.38	19.12	19.04	18.37	17.38	16.98	16.98
1984	19.15	19.05	18.62	18.41	17.99	17.69	17.55	17.43	15.97
1985	18.56	18.53	18.30	17.73	17.32	17.18	16.58	15.35	15.10
1986	19.97	19.90	19.62	18.56	17.75	17.41	17.30	15.63	15.27
1987	18.43	18.28	18.11	18.06	17.52	17.41	16.92	16.07	15.27
1988	18.31	18.10	17.88	17.82	17.30	17.21	17.09	16.62	15.10
1989	17.99	17.89	17.85	17.65	17.23	15.59	15.22	15.14	15.06
1990	18.70	18.40	17.99	17.47	17.43	17.12	16.64	15.98	15.34
1991	19.13	19.01	18.48	17.97	17.59	17.44	17.15	17.03	15.68
1992	19.93	19.80	19.59	19.33	18.82	17.77	17.32	15.34	15.23
1993	19.26	19.23	19.16	18.72	17.55	17.30	16.76	15.50	15.32
1994	17.84	17.76	17.63	17.39	16.03	15.31	15.28	15.18	15.18
1995	20.04	19.91	19.73	19.66	18.08	17.69	17.59	17.27	15.65
1996	20.71	20.49	20.41	19.57	19.19	17.57	17.32	15.87	15.50
1997	18.09	17.92	17.84	17.66	17.34	17.15	15.20	15.19	15.16
1998	19.76	19.63	19.41	18.80	18.54	18.39	17.97	17.33	15.86
MEAN	19.70	19.54	19.26	18.82	18.22	17.57	17.09	16.38	15.75
MAX	22.41	22.01	21.32	20.68	20.16	19.42	18.30	17.50	17.38
MIN	17.77	17.68	17.47	17.06	16.03	15.31	15.20	15.14	15.01
STDV	1.06	1.02	0.99	0.90	0.87	0.77	0.76	0.86	0.73
SKEW	0.13	0.02	0.00	-0.15	-0.21	-0.90	-1.58	-0.16	1.22

**Big Bend Marsh**

STAGE IN BBM, FT NGVD, 07/06/01

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	15.35	15.43	15.55	15.86	16.38	17.19	17.19	17.53	20.23
1944	15.83	16.13	16.52	17.13	17.35	17.41	17.73	20.21	20.78
1945	15.28	15.29	15.32	15.54	16.32	17.32	18.26	19.40	21.46
1946	15.65	15.84	15.94	16.26	17.16	17.55	17.76	18.98	20.34
1947	17.32	17.34	17.35	17.37	17.54	18.01	18.61	20.79	21.56
1948	17.09	17.17	17.22	17.25	17.60	17.99	17.99	18.47	21.66
1949	15.36	15.41	15.56	15.90	16.69	17.42	17.62	18.98	20.68
1950	15.52	15.63	15.77	15.95	16.47	17.13	17.48	17.68	20.80
1951	16.14	16.28	16.67	17.28	17.67	17.78	18.92	18.97	20.20
1952	17.23	17.35	17.41	17.58	17.64	18.21	18.21	18.82	19.59
1953	16.31	16.72	17.05	17.23	17.69	17.72	17.99	18.37	20.80
1954	16.39	16.65	16.94	17.13	17.26	17.58	19.40	19.61	21.36
1955	16.29	16.62	16.87	17.23	17.52	17.54	17.67	17.99	19.18
1956	15.15	15.22	15.33	15.82	16.27	16.33	17.50	18.34	19.39
1957	17.33	17.37	17.42	17.58	17.66	17.78	18.86	19.45	22.41
1958	17.26	17.31	17.36	17.39	17.57	18.33	19.13	19.16	19.53
1959	16.75	17.12	17.20	17.34	17.41	17.54	18.43	20.24	20.24
1960	17.38	17.41	17.44	17.63	17.82	19.27	20.04	20.08	21.16
1961	15.83	16.18	16.40	16.68	17.33	17.51	17.87	18.05	21.43
1962	15.11	15.16	15.23	15.29	15.30	15.93	16.98	17.17	20.84
1963	15.37	15.46	15.66	16.08	16.73	17.52	17.74	17.79	20.21
1964	15.78	16.01	16.37	17.22	17.40	17.52	18.31	19.13	19.59
1965	15.28	15.29	15.34	15.68	16.28	17.20	17.20	17.92	18.63
1966	17.30	17.31	17.36	17.41	17.71	18.72	18.72	19.45	20.01
1967	15.20	15.34	15.42	15.53	15.89	16.87	17.28	18.25	18.42
1968	15.15	15.18	15.23	15.31	15.50	15.83	16.12	19.96	20.00
1969	15.98	16.18	16.52	17.12	17.52	18.00	18.69	18.98	19.76
1970	16.81	16.87	17.13	17.21	17.30	17.87	18.20	19.36	19.70
1971	15.18	15.20	15.22	15.28	15.43	17.23	17.34	17.76	18.53
1972	15.82	16.19	16.48	17.00	17.29	17.64	17.87	20.27	20.27
1973	15.55	15.74	15.87	16.63	17.55	17.82	17.83	18.91	19.82
1974	15.07	15.10	15.15	15.31	15.60	15.84	17.47	19.00	19.68
1975	15.61	15.78	15.89	16.03	16.18	16.32	17.54	19.08	19.59
1976	15.06	15.10	15.14	15.26	15.39	16.41	17.43	18.98	20.37
1977	15.28	15.30	15.36	15.47	15.82	16.69	16.69	17.47	18.53
1978	17.15	17.23	17.33	17.42	17.56	17.93	18.09	18.51	20.47
1979	16.09	16.42	17.03	17.25	17.52	18.68	18.68	18.87	21.10
1980	15.44	15.61	15.82	16.32	16.88	17.34	17.34	17.65	20.37
1981	15.01	15.05	15.08	15.28	15.44	15.82	16.68	17.19	18.01
1982	15.33	15.37	15.40	15.53	15.56	16.68	17.24	19.39	19.68
1983	16.98	17.14	17.16	17.39	17.53	17.81	18.87	19.59	19.59
1984	15.97	16.28	16.53	17.15	17.21	17.43	17.89	18.56	19.15
1985	15.10	15.14	15.24	15.36	15.90	17.11	17.25	17.96	19.92
1986	15.27	15.28	15.31	15.40	15.73	16.38	17.45	18.43	19.97
1987	15.10	15.22	15.39	15.52	16.14	17.32	17.55	17.55	18.31
1988	15.06	15.18	15.62	15.67	16.41	17.74	17.99	18.04	18.04
1989	15.14	15.18	15.28	15.49	15.94	17.10	17.19	17.23	17.70
1990	15.34	15.42	15.55	15.74	16.04	17.16	17.41	18.13	18.70
1991	17.03	17.17	17.25	17.32	17.38	17.57	18.50	19.13	19.93
1992	15.23	15.31	15.32	15.51	15.70	16.07	17.28	18.24	18.93
1993	15.28	15.48	15.60	15.69	17.20	17.37	18.67	19.26	19.26
1994	15.18	15.20	15.20	15.28	15.36	16.57	16.66	17.63	18.29
1995	17.17	17.32	17.43	17.48	17.65	17.96	18.18	19.88	20.08
1996	15.50	15.76	16.01	17.15	17.61	17.85	18.03	18.09	20.71
1997	15.16	15.19	15.21	15.29	15.61	16.28	17.06	17.21	18.91
1998	17.12	17.25	17.36	17.53	17.65	18.21	19.48	19.76	19.76
MEAN	15.89	16.02	16.16	16.41	16.75	17.35	17.89	18.69	19.89
MAX	17.38	17.41	17.44	17.63	17.82	19.27	20.04	20.79	22.41
MIN	15.01	15.05	15.08	15.26	15.30	15.82	16.12	17.17	17.70

**Big Bend Marsh**  
PERCENTAGE

WEEKLY WATER LEVEL RECESSON RATES IN

INITIAL STAGE

RECESSON (FT)	>22.0	21.0-22.0	20.0-21.0	19.0-20.0	18.8-19.0	<18.8
> 2.0	0.00	0.00	0.00	0.08	0.39	0.04
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.03
1.6 - 1.8	0.00	0.00	0.00	0.00	0.00	0.02
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.03
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	1.07	0.63	0.00	0.01
.75 - 1.0	57.14	10.00	1.34	9.39	2.72	0.14
.50 - .75	28.57	16.00	10.43	14.68	30.74	3.03
.25 - .50	0.00	48.00	51.60	27.07	28.02	18.68
.00 - .25	14.29	26.00	35.56	48.15	38.13	78.03

**Big Bend Marsh**  
PERCENTAGE

MONTHLY WATER LEVEL RECESSON RATES IN

INITIAL STAGE

RECESSON (FT)	>22.0	21.0-22.0	20.0-21.0	19.0-20.0	18.8-19.0	<18.8
> 2.0	100.00	5.00	27.32	4.12	0.00	0.07
1.8 - 2.0	0.00	6.67	10.08	8.48	0.00	0.51
1.6 - 1.8	0.00	13.33	7.96	12.60	0.47	1.49
1.4 - 1.6	0.00	15.00	5.31	12.21	13.02	2.51
1.2 - 1.4	0.00	21.67	3.71	0.00	0.00	0.00
1.0 - 1.2	0.00	16.67	11.94	9.25	15.81	5.70
.75 - 1.0	0.00	16.67	11.14	11.59	23.26	10.00
.50 - .75	0.00	3.33	8.22	10.81	16.74	15.13
.25 - .50	0.00	1.67	7.69	15.09	15.35	24.74
.00 - .25	0.00	0.00	6.63	15.86	15.35	39.85

**TFMCA**

**TFMCA GDM Run**

Stage in TFMCA ft, NGVD (7/06/01)

YEAR	MAX	MIN	RANGE	MEAN
1942	20.44	17.12	3.32	18.99
1943	20.37	16.82	3.55	18.52
1944	20.53	17.37	3.16	19.20
1945	20.86	16.50	4.36	19.00
1946	20.62	17.22	3.40	19.05
1947	20.56	18.54	2.02	19.95
1948	20.33	17.88	2.45	19.25
1949	20.52	17.30	3.22	19.05
1950	20.39	16.80	3.59	18.11
1951	20.54	17.88	2.66	19.59
1952	20.49	18.50	1.99	19.63
1953	20.53	17.95	2.58	19.21
1954	20.43	17.81	2.62	19.40
1955	20.40	17.63	2.77	19.02
1956	20.75	16.55	4.20	18.55
1957	20.47	18.35	2.12	19.60
1958	20.42	18.16	2.26	19.28
1959	20.53	17.53	3.00	19.60
1960	20.61	18.85	1.76	19.88
1961	19.16	16.89	2.27	17.77
1962	20.56	15.63	4.93	17.80
1963	20.43	16.94	3.49	18.35
1964	20.41	17.16	3.25	18.97
1965	20.43	16.54	3.89	18.12
1966	20.56	18.47	2.09	19.65
1967	18.44	16.29	2.15	17.21
1968	20.52	15.94	4.58	18.46
1969	20.50	17.72	2.78	19.35
1970	20.42	16.93	3.49	18.58
1971	20.51	15.88	4.63	17.90
1972	20.40	17.68	2.72	19.03
1973	20.47	17.08	3.39	18.78
1974	20.56	16.12	4.44	18.26
1975	20.37	16.71	3.66	18.64
1976	20.56	16.36	4.20	18.66
1977	20.28	16.25	4.03	17.86
1978	20.45	18.16	2.29	19.33
1979	20.50	17.97	2.53	19.44
1980	19.01	16.62	2.39	17.42
1981	16.99	15.21	1.78	16.25
1982	20.43	16.35	4.08	18.32
1983	20.44	18.17	2.27	19.70
1984	20.32	17.44	2.88	18.34
1985	20.43	16.72	3.71	18.01
1986	19.58	16.18	3.40	18.02
1987	18.67	16.89	1.78	17.79
1988	17.88	16.66	1.22	17.22
1989	18.42	16.04	2.38	16.77
1990	20.52	16.18	4.34	17.96
1991	20.49	17.90	2.59	19.53
1992	19.55	16.20	3.35	17.92
1993	20.36	16.63	3.73	17.95
1994	20.47	15.92	4.55	17.67
1995	20.58	18.27	2.31	19.66
1996	19.29	17.10	2.19	18.42
1997	20.37	16.46	3.91	18.04
1998	20.43	18.14	2.29	19.49

MEAN ANNUAL STAGE = 18.62  
MEAN ANNUAL RANGE = 3.07

**TFMCA GDM Run** Stage-Duration in TFMCA(07/06/01)

Stage Duration Data for Station Elevations.  
 1- 1-1942 through 31-12-1998  
 Total of 20819 Days

Maximum Elevation was 20.86feet  
 Minimum Elevation was 15.21 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
172	15.20	20819	100.00	3.42
173	15.30	20783	99.83	3.32
174	15.40	20759	99.71	3.22
175	15.50	20745	99.64	3.12
176	15.60	20736	99.60	3.02
177	15.70	20712	99.49	2.92
178	15.80	20682	99.34	2.82
179	15.90	20671	99.29	2.72
180	16.00	20639	99.14	2.62
181	16.10	20558	98.75	2.52
182	16.20	20435	98.16	2.42
183	16.30	20254	97.29	2.32
184	16.40	20080	96.45	2.22
185	16.50	19852	95.36	2.12
186	16.60	19540	93.86	2.02
187	16.70	19179	92.12	1.92
188	16.80	18765	90.13	1.82
189	16.90	18332	88.05	1.72
190	17.00	17914	86.05	1.62
191	17.10	17460	83.87	1.52
192	17.20	17046	81.88	1.42
193	17.30	16568	79.58	1.32
194	17.40	16096	77.31	1.22
195	17.50	15687	75.35	1.12
196	17.60	15272	73.36	1.02
197	17.70	14900	71.57	0.92
198	17.80	14489	69.60	0.82
199	17.90	14032	67.40	0.72
200	18.00	13604	65.34	0.62
201	18.10	13211	63.46	0.52
202	18.20	12846	61.70	0.42
203	18.30	12418	59.65	0.32
204	18.40	11975	57.52	0.22
205	18.50	11546	55.46	0.12
206	18.60	11093	53.28	0.02
207	18.70	10658	51.19	-0.08
208	18.80	10203	49.01	-0.18
209	18.90	9758	46.87	-0.28
210	19.00	9295	44.65	-0.38
211	19.10	8766	42.11	-0.48
212	19.20	8304	39.89	-0.58
213	19.30	7802	37.48	-0.68
214	19.40	7349	35.30	-0.78
215	19.50	6859	32.95	-0.88
216	19.60	6383	30.66	-0.98
217	19.70	5940	28.53	-1.08
218	19.80	5497	26.40	-1.18
219	19.90	4989	23.96	-1.28
220	20.00	4356	20.92	-1.38
221	20.10	3550	17.05	-1.48
222	20.20	2696	12.95	-1.58
223	20.30	1451	6.97	-1.68
224	20.40	488	2.34	-1.78
225	20.50	71	0.34	-1.88
226	20.60	7	0.03	-1.98
227	20.70	3	0.01	-2.08
228	20.80	1	0.00	-2.18

**TFMCA GDM Run**

AVERAGE MONTHLY STAGE FT, NGVD (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.31	17.29	18.07	18.68	18.91	19.89	20.25	20.25	20.20	19.66	18.91	18.35
1943	17.82	17.36	17.24	17.14	17.05	16.98	17.95	20.03	20.32	20.13	20.20	19.92
1944	19.31	18.61	18.05	17.95	17.91	17.87	19.69	20.30	20.30	20.31	20.18	19.90
1945	19.60	18.97	18.29	17.58	17.06	16.84	18.84	20.26	20.48	20.33	20.10	19.62
1946	19.00	18.50	18.16	17.51	17.53	18.20	19.07	20.25	20.33	20.28	20.06	19.69
1947	19.02	18.99	20.10	20.07	19.66	19.91	20.34	20.33	20.39	20.27	20.26	20.06
1948	19.84	19.69	19.23	18.79	19.16	18.65	18.14	18.17	19.12	20.18	20.14	19.85
1949	19.79	19.20	18.49	17.99	17.61	17.78	18.94	18.84	20.25	20.37	19.89	19.40
1950	19.16	18.59	18.15	17.76	17.36	17.16	17.03	16.85	17.34	17.97	20.07	19.95
1951	19.27	19.02	18.36	18.95	19.94	19.33	19.90	20.23	20.22	20.13	19.86	19.82
1952	19.16	19.49	19.95	20.02	19.67	19.01	18.77	19.25	20.24	20.27	20.17	19.53
1953	18.95	18.64	18.16	18.54	18.74	18.49	18.75	19.07	20.33	20.31	20.26	20.24
1954	19.77	19.18	18.60	17.98	18.10	19.52	20.28	19.62	19.52	20.28	20.06	19.89
1955	19.53	19.62	19.04	19.19	18.91	18.34	18.33	17.85	18.47	20.16	19.72	19.18
1956	19.04	18.48	17.79	17.21	16.94	16.64	17.66	18.34	20.00	20.31	20.18	19.94
1957	19.41	18.83	19.00	19.62	20.07	19.86	20.06	20.33	20.36	19.94	19.12	18.55
1958	19.22	20.16	20.18	20.20	19.74	18.91	18.49	18.86	19.27	19.18	18.86	18.37
1959	18.06	17.85	18.20	20.16	19.83	20.25	20.28	20.12	20.21	20.09	20.27	19.83
1960	19.26	19.27	19.85	20.24	19.84	19.50	20.12	20.29	20.31	20.27	20.05	19.52
1961	18.98	18.46	17.87	17.59	17.33	17.74	17.80	17.66	18.01	17.62	17.28	17.00
1962	16.86	16.71	16.54	16.42	16.03	15.83	16.69	18.90	20.35	20.22	19.80	19.18
1963	18.56	18.35	18.13	17.43	17.12	17.17	17.75	17.51	17.95	19.98	20.20	20.07
1964	20.14	20.09	19.59	18.78	18.32	17.76	17.31	17.68	19.87	19.95	19.35	18.82
1965	18.19	17.75	17.35	17.27	16.91	16.75	17.36	18.72	18.50	19.12	20.08	19.42
1966	19.38	19.56	19.86	19.31	18.88	19.94	20.16	20.29	20.26	20.01	19.41	18.78
1967	18.19	17.84	17.36	16.95	16.50	16.52	17.29	17.40	17.27	17.39	17.03	16.85
1968	16.71	16.59	16.46	16.11	16.40	19.18	20.29	20.28	20.07	20.20	19.91	19.27
1969	18.66	18.10	18.93	19.57	19.52	19.27	18.75	19.02	19.56	20.28	20.31	20.11
1970	20.24	20.01	19.77	19.95	19.22	18.53	18.22	17.63	17.29	17.82	17.37	17.02
1971	16.84	16.92	16.82	16.53	16.15	16.12	16.97	19.05	19.77	20.16	20.03	19.36
1972	18.70	18.47	18.13	17.88	18.65	19.69	20.28	20.06	20.00	19.35	18.79	18.37
1973	17.98	17.68	17.21	17.49	17.55	18.53	20.10	20.29	20.31	20.03	19.38	18.78
1974	18.24	17.68	17.14	16.71	16.40	16.34	18.37	20.13	20.37	19.99	19.17	18.57
1975	18.04	17.62	17.29	16.94	16.97	18.50	20.09	20.23	19.93	19.71	19.46	18.75
1976	18.15	17.61	17.12	16.69	17.00	19.22	20.30	20.12	20.26	19.77	19.06	18.53
1977	18.11	17.68	17.29	16.85	16.40	16.64	16.59	16.97	18.91	19.83	19.40	19.64
1978	19.79	19.58	19.53	18.84	18.53	18.75	19.73	20.29	19.97	19.61	18.98	18.36
1979	19.18	19.82	19.22	18.36	18.72	19.69	19.54	19.18	20.13	20.23	19.88	19.39
1980	18.83	18.36	17.84	17.60	17.61	17.33	17.11	16.97	17.02	16.88	16.74	16.83
1981	16.82	16.83	16.60	16.26	15.83	15.47	15.27	15.39	16.43	16.79	16.77	16.57
1982	16.49	16.42	16.47	16.55	16.79	18.73	20.27	20.32	20.21	19.76	19.08	18.61
1983	18.43	19.96	20.26	20.10	19.54	19.15	19.25	19.65	20.19	20.11	19.94	19.85
1984	19.85	19.29	18.90	18.37	17.94	17.57	17.79	17.85	17.98	18.13	17.86	18.55
1985	17.96	17.45	17.03	17.08	17.04	17.12	17.34	17.45	18.94	20.19	19.53	18.91
1986	18.41	17.95	17.42	16.93	16.46	16.72	18.24	18.91	19.14	19.17	18.72	18.14
1987	17.96	17.78	17.77	18.44	18.30	17.64	17.32	17.07	17.67	17.83	17.85	17.84
1988	17.42	17.29	17.58	17.61	17.31	16.92	17.01	17.45	17.45	17.03	16.88	16.75
1989	16.69	16.74	16.65	16.35	16.27	16.11	16.16	16.33	16.60	17.87	17.88	17.54
1990	17.33	17.18	17.11	16.79	16.35	16.45	17.44	18.62	19.72	20.23	19.47	18.78
1991	18.25	18.21	18.63	20.06	20.04	20.21	20.32	20.30	20.18	20.19	19.32	18.61
1992	18.02	17.56	17.12	16.79	16.39	16.83	18.63	19.01	19.39	18.99	18.37	17.90
1993	17.48	17.37	17.81	17.78	19.61	18.77	18.28	17.83	17.60	17.16	16.95	16.72
1994	16.65	16.67	16.61	16.32	16.10	16.83	17.67	17.60	18.44	19.27	19.45	20.32
1995	20.08	20.03	19.93	19.98	19.60	18.95	18.57	19.07	20.27	20.45	19.92	19.17
1996	18.74	18.16	18.28	19.16	18.80	18.62	19.03	18.89	18.44	18.16	17.53	17.20
1997	17.06	16.94	16.72	16.63	16.91	16.89	17.31	19.00	20.01	19.62	19.38	19.94
1998	20.17	20.26	20.25	20.18	19.75	18.89	18.43	18.35	19.50	20.01	19.45	18.78
MEAN	18.53	18.33	18.17	18.11	17.95	18.08	18.56	18.89	19.33	19.47	19.20	18.86
MAX	20.24	20.26	20.26	20.24	20.07	20.25	20.34	20.33	20.48	20.45	20.31	20.32
MIN	16.49	16.42	16.46	16.11	15.83	15.47	15.27	15.39	16.43	16.79	16.74	16.57

**TFMCA GDM Run**      MAXIMUM DAILY STAGE FT NGVD(07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.42	17.97	18.35	19.23	19.20	20.38	20.35	20.37	20.44	20.14	19.25	18.53
1943	18.09	17.60	17.33	17.27	17.18	17.11	19.33	20.37	20.37	20.31	20.34	20.08
1944	19.66	18.94	18.28	18.28	18.23	18.39	20.48	20.46	20.40	20.53	20.33	20.14
1945	19.86	19.30	18.62	17.92	17.32	17.59	19.95	20.39	20.86	20.48	20.41	19.98
1946	19.28	18.78	18.45	17.85	18.05	18.43	20.35	20.36	20.42	20.62	20.33	20.01
1947	19.35	19.51	20.34	20.21	20.13	20.53	20.47	20.43	20.56	20.39	20.36	20.23
1948	20.11	19.95	19.52	19.15	19.45	18.94	18.31	18.41	20.18	20.33	20.33	20.01
1949	20.08	19.45	18.87	18.19	18.00	18.94	19.13	19.75	20.52	20.47	20.09	19.71
1950	19.50	18.78	18.30	18.09	17.53	17.36	17.15	16.91	17.48	19.26	20.39	20.19
1951	19.65	19.23	18.73	20.00	20.34	19.62	20.26	20.40	20.43	20.54	20.37	20.11
1952	19.47	19.84	20.25	20.13	20.15	19.42	19.02	19.79	20.48	20.49	20.45	19.81
1953	19.22	18.83	18.41	19.18	19.12	18.73	19.02	19.97	20.50	20.51	20.53	20.44
1954	20.01	19.46	18.90	18.24	18.29	20.18	20.41	19.96	20.34	20.43	20.39	20.14
1955	19.90	19.81	19.44	19.43	19.32	18.61	18.73	18.10	19.36	20.40	20.18	19.40
1956	19.38	18.76	18.16	17.40	17.10	16.72	17.98	18.84	20.56	20.75	20.32	20.22
1957	19.75	19.09	19.13	20.05	20.21	20.06	20.40	20.43	20.45	20.47	19.46	18.82
1958	20.23	20.38	20.42	20.39	20.27	19.27	18.73	19.10	19.52	19.35	19.11	18.60
1959	18.25	17.98	19.70	20.30	20.11	20.53	20.34	20.39	20.44	20.34	20.39	20.08
1960	19.64	19.60	20.37	20.42	20.43	20.02	20.46	20.44	20.61	20.42	20.38	19.83
1961	19.16	18.72	18.14	17.72	17.56	17.99	17.91	17.85	18.22	17.92	17.39	17.13
1962	16.92	16.76	16.62	16.55	16.22	16.26	17.25	20.10	20.56	20.48	19.96	19.53
1963	18.82	18.48	18.38	17.79	17.32	17.43	17.86	17.80	19.15	20.41	20.43	20.27
1964	20.30	20.41	20.04	19.23	18.61	18.04	17.45	18.76	20.24	20.24	19.71	19.10
1965	18.47	17.93	17.59	17.37	17.16	16.93	18.42	18.95	18.66	20.31	20.43	19.64
1966	19.70	20.27	20.32	19.48	19.17	20.44	20.36	20.41	20.56	20.29	19.78	19.05
1967	18.44	17.94	17.68	17.16	16.70	17.00	17.37	17.52	17.50	17.54	17.16	16.92
1968	16.79	16.66	16.61	16.28	17.07	20.25	20.34	20.39	20.22	20.52	20.08	19.66
1969	18.91	18.34	19.89	19.75	19.62	19.47	19.06	19.31	20.31	20.50	20.48	20.34
1970	20.42	20.21	20.25	20.21	19.66	18.93	18.38	17.99	17.71	17.98	17.64	17.13
1971	16.95	17.03	16.95	16.71	16.29	16.29	18.17	19.36	20.21	20.43	20.51	19.63
1972	19.03	18.58	18.47	18.44	18.95	20.29	20.40	20.28	20.34	19.67	19.00	18.64
1973	18.13	17.87	17.44	17.81	17.75	19.42	20.35	20.34	20.47	20.38	19.77	19.00
1974	18.54	17.92	17.43	16.89	16.50	16.97	19.59	20.29	20.56	20.49	19.50	18.81
1975	18.32	17.75	17.47	17.11	17.25	19.47	20.25	20.37	20.26	20.07	19.71	19.10
1976	18.41	17.88	17.40	16.88	18.27	20.20	20.39	20.28	20.56	20.21	19.40	18.79
1977	18.35	17.88	17.46	17.06	16.61	16.78	16.68	17.12	20.28	20.11	19.71	20.10
1978	19.98	19.74	19.81	19.24	18.74	19.24	20.42	20.45	20.11	19.90	19.34	18.61
1979	20.24	20.15	19.60	18.76	19.54	19.87	19.79	19.34	20.50	20.33	20.07	19.71
1980	19.01	18.63	18.18	17.85	17.82	17.49	17.24	17.08	17.16	17.00	16.84	16.98
1981	16.92	16.92	16.75	16.47	16.04	15.67	15.35	15.74	16.99	16.90	16.89	16.67
1982	16.55	16.46	16.59	16.79	17.43	19.75	20.43	20.40	20.38	20.29	19.36	18.78
1983	18.89	20.44	20.43	20.18	20.05	19.33	19.48	20.29	20.36	20.44	20.35	20.29
1984	20.32	19.56	19.26	18.50	18.18	17.83	17.92	17.96	18.49	18.47	18.60	18.86
1985	18.23	17.65	17.21	17.36	17.18	17.42	17.43	17.67	20.16	20.43	19.84	19.18
1986	18.59	18.14	17.69	17.15	16.68	17.42	18.79	19.06	19.58	19.46	19.08	18.38
1987	18.10	17.92	18.04	18.67	18.52	17.96	17.47	17.21	18.03	18.02	18.15	18.11
1988	17.55	17.33	17.88	17.70	17.63	17.04	17.26	17.70	17.64	17.18	16.97	16.81
1989	16.92	16.84	16.78	16.47	16.37	16.23	16.22	16.57	16.91	18.42	18.16	17.61
1990	17.51	17.30	17.26	16.97	16.55	16.90	17.97	19.70	20.19	20.52	19.85	19.10
1991	18.44	18.48	19.57	20.37	20.38	20.40	20.38	20.49	20.40	20.49	19.70	18.93
1992	18.28	17.76	17.34	16.96	16.62	17.73	19.03	19.48	19.55	19.28	18.57	18.18
1993	17.60	17.52	18.99	20.36	20.19	19.19	18.46	18.06	17.79	17.33	17.07	16.83
1994	16.70	16.78	16.78	16.44	16.25	17.57	17.93	18.08	19.32	19.46	20.21	20.47
1995	20.26	20.35	20.18	20.17	20.06	19.10	18.94	19.88	20.37	20.58	20.19	19.54
1996	19.03	18.43	18.89	19.29	19.19	18.96	19.26	19.13	18.64	18.35	17.84	17.29
1997	17.11	17.02	16.86	17.05	17.03	17.12	17.86	19.85	20.29	20.04	19.70	20.37
1998	20.40	20.41	20.43	20.38	20.16	19.23	18.56	18.64	20.42	20.43	19.81	19.07
MAX	20.42	20.44	20.43	20.42	20.43	20.53	20.48	20.49	20.86	20.75	20.53	20.47

**TFMCA GDM Run**

MINIMUM DAILY STAGE FT, NGVD(07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.13	17.12	17.88	18.14	18.75	18.90	20.21	20.21	19.94	19.28	18.55	18.11
1943	17.60	17.16	17.14	17.05	16.97	16.82	17.01	19.37	20.27	19.98	20.03	19.69
1944	18.97	18.30	17.83	17.79	17.54	17.37	18.44	20.21	20.22	20.16	20.07	19.67
1945	19.32	18.65	17.95	17.34	16.81	16.50	17.66	19.99	20.29	20.08	19.93	19.28
1946	18.80	18.27	17.88	17.25	17.22	17.87	18.30	20.12	20.28	19.95	19.90	19.37
1947	18.74	18.54	19.48	19.97	19.37	19.25	20.27	20.27	20.24	20.16	20.14	19.96
1948	19.60	19.41	18.89	18.47	18.97	18.33	17.91	17.88	18.08	20.04	19.94	19.63
1949	19.47	18.90	18.15	17.75	17.30	17.39	18.78	18.53	19.79	20.11	19.71	19.18
1950	18.81	18.33	17.99	17.49	17.24	16.98	16.91	16.80	17.00	17.23	19.34	19.67
1951	18.91	18.76	18.04	17.88	19.65	19.15	19.28	20.05	19.95	19.77	19.35	19.49
1952	18.91	19.05	19.55	19.93	19.35	18.64	18.50	18.94	19.83	20.01	19.84	19.24
1953	18.66	18.43	17.99	17.95	18.30	18.22	18.55	18.68	20.01	20.15	20.05	20.03
1954	19.48	18.93	18.27	17.81	17.90	18.34	20.00	19.27	19.02	20.03	19.75	19.70
1955	19.22	19.47	18.75	18.91	18.56	18.16	17.97	17.63	17.72	19.47	19.36	19.04
1956	18.76	18.18	17.43	17.07	16.73	16.55	16.76	18.01	18.96	20.13	20.10	19.76
1957	19.12	18.65	18.74	18.98	19.92	19.59	19.56	20.26	20.20	19.49	18.82	18.35
1958	18.40	19.98	20.05	20.01	19.30	18.61	18.25	18.29	18.91	19.00	18.61	18.16
1959	17.91	17.69	17.53	19.81	19.62	19.87	20.26	19.74	19.71	19.75	20.08	19.62
1960	18.92	18.85	19.21	20.04	19.40	19.26	19.86	20.13	19.93	20.17	19.84	19.16
1961	18.74	18.17	17.61	17.43	17.09	17.55	17.68	17.48	17.86	17.37	17.15	16.89
1962	16.77	16.64	16.44	16.23	15.78	15.63	16.20	17.38	20.12	19.93	19.55	18.84
1963	18.34	18.18	17.81	17.13	16.94	17.04	17.58	17.31	17.44	19.21	20.00	19.91
1964	19.89	19.82	19.24	18.37	18.00	17.47	17.16	17.26	18.99	19.70	19.08	18.50
1965	17.92	17.59	17.13	17.17	16.65	16.54	16.73	18.49	18.33	18.62	19.67	19.16
1966	19.08	19.23	19.51	19.18	18.52	19.00	20.03	20.14	20.05	19.81	19.06	18.47
1967	17.93	17.71	17.09	16.72	16.31	16.29	17.01	17.25	17.17	17.17	16.88	16.80
1968	16.63	16.49	16.30	15.94	15.96	17.20	20.25	20.17	19.95	19.89	19.69	18.89
1969	18.36	17.85	17.72	19.46	19.38	19.08	18.57	18.68	19.19	20.01	20.12	19.95
1970	19.92	19.81	19.55	19.70	18.92	18.22	18.02	17.35	17.20	17.66	17.15	16.93
1971	16.74	16.70	16.67	16.31	15.99	15.88	16.23	18.30	19.01	19.87	19.59	19.06
1972	18.41	18.34	17.80	17.68	18.38	18.82	20.07	19.84	19.63	18.99	18.59	18.15
1973	17.88	17.46	17.08	17.08	17.33	17.68	19.48	20.26	20.23	19.78	19.02	18.56
1974	17.94	17.46	16.90	16.52	16.24	16.12	17.05	19.63	20.26	19.53	18.84	18.34
1975	17.77	17.50	17.13	16.76	16.71	17.37	19.58	20.12	19.63	19.41	19.12	18.43
1976	17.89	17.37	16.90	16.46	16.36	18.32	20.22	19.93	19.92	19.34	18.73	18.29
1977	17.87	17.49	17.07	16.63	16.25	16.29	16.49	16.62	17.20	19.63	19.10	19.25
1978	19.51	19.39	19.28	18.51	18.21	18.17	19.17	20.01	19.80	19.37	18.62	18.16
1979	18.25	19.55	18.80	18.08	17.97	19.55	19.26	18.98	18.99	20.08	19.74	19.04
1980	18.66	18.16	17.53	17.46	17.49	17.23	17.02	16.84	16.84	16.76	16.62	16.73
1981	16.74	16.73	16.48	16.06	15.66	15.33	15.21	15.23	15.66	16.71	16.66	16.48
1982	16.44	16.38	16.35	16.44	16.62	17.51	19.79	20.17	20.05	19.33	18.74	18.37
1983	18.17	18.73	20.12	20.00	19.10	19.06	19.00	19.08	20.02	19.83	19.69	19.45
1984	19.52	19.12	18.53	18.21	17.68	17.44	17.52	17.64	17.56	17.80	17.52	18.25
1985	17.67	17.23	16.91	16.83	16.89	16.72	17.26	17.27	17.77	19.86	19.17	18.58
1986	18.16	17.71	17.16	16.70	16.24	16.18	17.40	18.74	18.66	18.95	18.39	17.99
1987	17.84	17.63	17.49	18.01	17.99	17.42	17.14	16.89	16.89	17.59	17.63	17.57
1988	17.33	17.24	17.19	17.52	17.04	16.79	16.76	17.19	17.19	16.86	16.81	16.66
1989	16.53	16.64	16.49	16.27	16.16	16.04	16.12	16.05	16.46	16.86	17.61	17.46
1990	17.20	17.11	16.99	16.57	16.18	16.22	16.98	17.88	19.46	19.87	19.13	18.46
1991	18.03	17.98	17.90	19.43	19.85	19.87	20.24	20.17	20.03	19.73	18.96	18.30
1992	17.75	17.36	16.98	16.64	16.20	16.21	17.80	18.55	19.16	18.59	18.20	17.62
1993	17.33	17.25	17.10	19.11	19.19	18.47	18.06	17.65	17.35	17.06	16.84	16.63
1994	16.61	16.58	16.46	16.22	15.92	16.02	17.48	17.36	17.79	19.08	18.79	20.11
1995	19.93	19.75	19.69	19.65	19.13	18.77	18.27	18.29	19.94	20.24	19.56	18.82
1996	18.43	17.86	17.69	19.01	18.51	18.49	18.71	18.62	18.20	17.86	17.24	17.10
1997	17.03	16.87	16.62	16.46	16.80	16.68	17.01	17.84	19.76	19.25	18.97	19.43
1998	20.01	20.08	20.10	19.95	19.26	18.54	18.21	18.14	18.47	19.57	19.09	18.51
MIN	16.44	16.38	16.30	15.94	15.66	15.33	15.21	15.23	15.66	16.71	16.62	16.48

**TFMCA GDM Run** (07/06/01)

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	20.44	20.36	20.25	20.21	20.21	19.83	18.55	17.14	16.97
1944	20.37	20.31	20.30	20.29	20.13	19.94	19.06	17.80	16.82
1945	20.53	20.39	20.35	20.25	20.22	20.08	19.52	18.05	16.81
1946	20.86	20.51	20.42	20.37	20.24	19.93	18.94	17.81	16.50
1947	20.62	20.47	20.41	20.32	20.22	19.90	19.04	18.54	17.87
1948	20.56	20.42	20.35	20.29	20.27	20.24	20.05	19.32	18.47
1949	20.33	20.26	20.22	20.08	20.01	19.63	18.65	17.88	17.30
1950	20.52	20.44	20.35	20.34	20.02	19.18	18.54	17.99	17.24
1951	20.39	20.23	20.18	20.05	19.59	18.88	17.88	16.91	16.80
1952	20.54	20.43	20.22	20.11	20.02	19.69	19.35	18.91	18.91
1953	20.49	20.41	20.39	20.06	20.01	19.45	18.81	18.41	17.95
1954	20.53	20.44	20.36	20.31	20.13	20.04	19.05	18.47	17.81
1955	20.43	20.33	20.30	20.17	19.75	19.38	19.07	19.02	18.34
1956	20.40	20.29	20.23	20.07	19.39	18.85	18.09	17.63	16.75
1957	20.75	20.40	20.32	20.15	20.11	19.64	18.65	18.65	16.55
1958	20.47	20.37	20.36	20.26	20.20	19.56	18.82	18.35	18.35
1959	20.30	20.16	20.07	20.02	19.62	18.57	18.25	17.69	17.53
1960	20.53	20.35	20.29	20.27	20.23	19.71	19.71	18.85	18.85
1961	20.61	20.42	20.39	20.23	20.10	19.93	19.44	18.14	17.09
1962	18.22	18.12	17.94	17.86	17.58	17.48	17.15	16.62	15.78
1963	20.56	20.49	20.32	20.27	20.00	19.18	18.28	17.15	15.63
1964	20.43	20.25	20.20	20.05	19.91	19.82	19.23	17.44	17.04
1965	20.24	20.17	20.07	19.82	19.54	18.59	17.63	17.16	16.65
1966	20.43	20.33	20.19	19.79	19.37	19.08	19.08	18.33	16.54
1967	20.56	20.40	20.23	20.18	20.05	19.93	19.03	17.68	16.31
1968	17.54	17.50	17.47	17.30	17.21	17.17	16.80	16.46	15.94
1969	20.52	20.48	20.27	20.26	20.25	19.89	19.31	17.75	17.20
1970	20.50	20.40	20.37	20.17	20.01	19.92	19.56	19.05	18.57
1971	18.93	18.76	18.54	18.22	18.03	17.20	17.15	16.70	15.99
1972	20.51	20.41	20.34	20.11	19.87	19.06	18.41	17.68	15.88
1973	20.40	20.33	20.27	20.21	19.84	19.53	18.59	17.44	17.08
1974	20.47	20.32	20.29	20.26	20.25	19.74	18.74	17.43	16.24
1975	20.56	20.48	20.39	20.27	20.14	19.00	18.13	17.11	16.12
1976	20.37	20.26	20.23	20.18	20.10	19.41	18.78	17.37	16.36
1977	20.56	20.44	20.27	20.22	19.93	19.66	18.70	17.46	16.25
1978	20.28	20.07	19.90	19.78	19.39	19.25	19.10	17.12	16.29
1979	20.45	20.34	20.27	20.23	19.86	19.32	18.47	18.16	17.97
1980	20.50	20.43	20.29	20.14	19.97	19.04	18.98	18.16	17.46
1981	17.49	17.39	17.34	17.23	17.02	16.84	16.62	16.62	15.66
1982	17.43	16.92	16.87	16.75	16.71	16.46	16.35	15.66	15.21
1983	20.44	20.40	20.37	20.30	20.12	19.56	18.61	18.17	17.51
1984	20.44	20.42	20.21	20.02	19.83	19.46	19.35	19.00	17.68
1985	18.86	18.73	18.60	18.34	17.89	17.56	17.52	17.21	16.83
1986	20.43	20.41	20.25	19.88	19.45	18.50	17.67	17.26	16.24
1987	19.58	19.43	19.37	19.14	18.90	18.59	17.97	17.49	16.18
1988	18.15	18.03	18.02	17.81	17.59	17.48	17.19	16.89	16.89
1989	17.70	17.66	17.55	17.49	17.19	16.84	16.76	16.53	16.16
1990	18.42	18.32	18.23	17.95	17.48	17.15	16.94	16.28	16.04
1991	20.52	20.37	20.23	20.00	19.54	18.83	18.01	17.90	16.22
1992	20.49	20.46	20.34	20.29	20.24	20.03	18.96	17.36	16.21
1993	20.36	20.25	20.04	19.65	19.15	18.52	17.65	17.10	16.21
1994	19.19	18.98	18.80	18.47	18.06	17.40	16.84	16.58	15.92
1995	20.47	20.37	20.30	20.18	19.95	19.75	19.54	17.79	16.02
1996	20.58	20.51	20.44	20.30	20.12	19.08	18.43	17.86	17.69
1997	19.26	19.15	19.10	18.80	18.70	18.21	17.24	16.86	16.46
1998	20.43	20.32	20.26	20.13	20.10	20.01	19.43	18.97	16.68
MEAN	20.03	19.91	19.82	19.68	19.46	19.02	18.42	17.67	16.86
MAX	20.86	20.51	20.44	20.37	20.27	20.24	20.05	19.32	18.91
MIN	17.43	16.92	16.87	16.75	16.71	16.46	16.35	15.66	15.21
STDV	0.93	0.95	0.95	0.97	1.01	1.00	0.91	0.80	0.88
SKEW	-1.84	-1.88	-1.83	-1.70	-1.49	-1.06	-0.58	0.01	0.62

**TFMCA GDM Run** (07/06/01)

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	16.82	16.90	16.97	17.05	17.11	17.33	17.84	19.28	20.37
1944	17.37	17.46	17.62	17.96	18.25	18.28	19.43	20.34	20.48
1945	16.50	16.58	16.67	16.94	17.38	18.36	19.55	20.33	20.86
1946	17.22	17.29	17.38	17.39	18.01	18.43	18.97	20.36	20.48
1947	18.54	18.63	18.76	18.99	19.51	20.32	20.34	20.53	20.62
1948	17.88	17.94	18.07	18.20	18.41	19.21	19.45	20.11	20.39
1949	17.30	17.36	17.49	17.57	18.07	18.84	19.13	20.08	20.52
1950	16.80	16.88	16.89	16.90	17.15	17.39	18.09	19.50	20.47
1951	17.23	17.29	17.36	18.42	19.07	19.78	20.34	20.35	20.43
1952	18.50	18.66	18.73	18.98	19.12	19.94	20.25	20.25	20.54
1953	17.95	18.08	18.18	18.21	18.71	19.18	19.18	19.87	20.50
1954	17.81	17.88	17.97	18.11	18.28	19.23	20.16	20.41	20.53
1955	17.63	17.76	17.85	18.03	18.40	18.73	19.43	19.90	20.43
1956	16.55	16.62	16.66	16.72	17.08	17.83	18.37	19.40	20.56
1957	18.65	18.72	18.81	19.01	19.13	19.86	20.21	20.32	20.75
1958	18.25	18.38	18.42	18.63	18.97	19.52	20.39	20.42	20.47
1959	17.53	17.62	17.73	17.85	18.06	18.76	19.81	20.53	20.53
1960	18.85	18.95	19.08	19.36	19.60	20.29	20.39	20.43	20.61
1961	17.09	17.20	17.29	17.54	17.72	17.99	18.02	19.16	20.42
1962	15.63	15.71	15.74	15.94	16.26	16.61	16.86	17.39	20.56
1963	16.94	17.04	17.13	17.23	17.32	17.86	18.05	18.94	20.48
1964	17.16	17.22	17.30	17.44	17.61	18.61	19.71	20.41	20.43
1965	16.54	16.59	16.69	16.87	16.96	17.37	18.00	18.95	20.24
1966	18.52	18.67	18.87	19.07	19.39	20.32	20.32	20.44	20.56
1967	16.29	16.38	16.42	16.48	16.72	17.37	17.52	18.47	20.29
1968	15.94	16.04	16.09	16.11	16.46	16.69	16.92	20.25	20.39
1969	17.72	17.83	17.98	18.19	18.71	19.55	19.83	19.89	20.52
1970	17.20	17.26	17.28	17.37	17.96	18.86	20.21	20.42	20.50
1971	15.88	15.96	16.04	16.24	16.29	16.80	17.03	17.72	20.21
1972	17.68	17.77	17.85	17.90	18.45	18.68	19.47	20.40	20.51
1973	17.08	17.13	17.13	17.35	17.61	17.86	18.37	19.64	20.47
1974	16.12	16.20	16.23	16.37	16.55	17.35	18.29	19.71	20.56
1975	16.71	16.79	16.85	16.95	17.23	17.72	18.64	20.25	20.49
1976	16.36	16.45	16.54	16.71	17.00	17.91	18.88	20.20	20.56
1977	16.25	16.30	16.33	16.54	16.78	16.97	17.44	18.56	20.28
1978	18.17	18.27	18.39	18.73	18.86	19.68	19.83	20.10	20.45
1979	17.97	18.07	18.19	18.43	18.99	19.77	19.87	20.24	20.50
1980	16.84	16.89	16.94	17.00	17.13	17.45	17.85	19.01	20.33
1981	15.21	15.26	15.29	15.33	15.44	15.90	16.61	16.98	17.00
1982	16.35	16.39	16.43	16.46	16.55	16.59	16.87	19.79	20.43
1983	18.17	18.28	18.31	18.54	18.87	19.78	20.36	20.44	20.44
1984	17.44	17.50	17.53	17.75	17.90	17.96	18.50	20.32	20.44
1985	16.72	16.80	16.90	17.01	17.36	17.41	17.44	18.62	20.16
1986	16.18	16.23	16.28	16.44	16.86	17.55	18.48	19.06	20.43
1987	16.89	16.98	17.04	17.18	17.38	18.03	18.67	18.67	19.46
1988	16.76	16.80	16.84	16.95	17.17	17.66	17.70	17.88	18.15
1989	16.04	16.08	16.11	16.18	16.23	16.37	16.59	16.92	17.18
1990	16.18	16.26	16.28	16.37	16.66	17.11	17.36	18.02	20.19
1991	17.90	18.01	18.02	18.36	18.48	19.26	20.20	20.40	20.52
1992	16.20	16.25	16.30	16.47	16.80	17.38	18.24	19.28	20.49
1993	17.10	17.19	17.27	17.41	17.59	18.35	19.26	20.36	20.36
1994	15.92	16.02	16.06	16.18	16.34	16.78	16.78	17.57	19.32
1995	18.27	18.39	18.52	18.71	19.08	19.95	20.17	20.37	20.47
1996	17.69	17.81	17.92	18.23	18.66	19.25	19.29	19.29	20.58
1997	16.46	16.50	16.60	16.67	16.89	17.05	17.12	17.86	20.29
1998	18.14	18.26	18.35	18.41	18.61	19.62	20.38	20.43	20.43
MEAN	17.13	17.21	17.29	17.45	17.74	18.30	18.79	19.55	20.26
MAX	18.85	18.95	19.08	19.36	19.60	20.32	20.39	20.53	20.86
MIN	15.21	15.26	15.29	15.33	15.44	15.90	16.59	16.92	17.00

**TFMCA GDM Run** (07/06/01)

WEEKLY WATER LEVEL RECESSION RATES IN PERCENTAGE

INITIAL STAGE

RECESSION (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.12	0.06	0.00
1.8 - 2.0	0.00	0.00	0.00	0.04	0.00	0.04
1.6 - 1.8	0.00	0.00	0.00	0.04	0.03	0.03
1.4 - 1.6	0.00	0.00	0.00	0.00	0.03	0.03
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.00	0.09	0.00
.75 - 1.0	0.00	0.00	0.00	0.08	0.06	0.07
.50 - .75	0.00	0.00	0.00	0.00	0.06	0.01
.25 - .50	0.00	0.00	0.00	7.47	0.68	0.13
.00 - .25	0.00	0.00	0.00	92.25	98.98	99.69

**TFMCA GDM Run** (07/06/01)

MONTHLY WATER LEVEL RECESSION RATES IN PERCENTAGE

INITIAL STAGE

RECESSION (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.03	0.19	0.03
1.8 - 2.0	0.00	0.00	0.00	0.00	0.06	0.01
1.6 - 1.8	0.00	0.00	0.00	0.00	0.03	0.01
1.4 - 1.6	0.00	0.00	0.00	0.03	0.03	0.00
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.79	0.03	0.01
.75 - 1.0	0.00	0.00	0.00	7.28	7.36	0.31
.50 - .75	0.00	0.00	0.00	15.98	47.71	18.18
.25 - .50	0.00	0.00	0.00	29.71	28.72	44.25
.00 - .25	0.00	0.00	0.00	46.18	15.86	37.18

**TFMCA 18.5 FT Run** STAGE IN TFMCA FT, NGVD (07/06/01)

YEAR	MAX	MIN	RANGE	MEAN
1942	20.53	17.13	3.40	19.11
1943	20.46	17.13	3.33	18.76
1944	20.62	18.07	2.55	19.42
1945	20.93	16.76	4.17	19.14
1946	20.70	17.87	2.83	19.30
1947	20.64	18.56	2.08	19.99
1948	20.45	18.34	2.11	19.34
1949	20.60	17.91	2.69	19.29
1950	20.48	17.26	3.22	18.48
1951	20.61	18.15	2.46	19.66
1952	20.56	18.50	2.06	19.65
1953	20.61	18.21	2.40	19.36
1954	20.52	18.11	2.41	19.52
1955	20.49	18.25	2.24	19.18
1956	20.83	16.66	4.17	18.70
1957	20.55	18.42	2.13	19.64
1958	20.51	18.35	2.16	19.36
1959	20.62	18.37	2.25	19.81
1960	20.69	18.89	1.80	19.93
1961	19.19	17.61	1.58	18.33
1962	20.64	15.22	5.42	17.87
1963	20.52	17.44	3.08	18.74
1964	20.48	17.93	2.55	19.19
1965	20.52	17.06	3.46	18.47
1966	20.64	18.50	2.14	19.70
1967	18.48	16.69	1.79	17.55
1968	20.58	14.96	5.62	18.25
1969	20.58	18.11	2.47	19.49
1970	20.51	17.82	2.69	18.93
1971	20.59	16.04	4.55	18.17
1972	20.49	18.07	2.42	19.18
1973	20.55	18.00	2.55	19.21
1974	20.64	16.24	4.40	18.44
1975	20.46	17.16	3.30	18.89
1976	20.64	16.73	3.91	18.87
1977	20.33	16.55	3.78	18.15
1978	20.54	18.30	2.24	19.38
1979	20.56	18.24	2.32	19.56
1980	19.04	16.89	2.15	17.90
1981	17.02	13.81	3.21	15.39
1982	20.50	14.12	6.38	17.47
1983	20.54	18.36	2.18	19.75
1984	20.39	18.04	2.35	18.75
1985	20.51	17.21	3.30	18.47
1986	19.77	16.47	3.30	18.31
1987	19.24	17.69	1.55	18.44
1988	18.81	17.33	1.48	18.10
1989	18.05	15.18	2.87	16.70
1990	20.60	16.27	4.33	18.16
1991	20.57	18.37	2.20	19.68
1992	19.64	16.44	3.20	18.19
1993	20.46	17.07	3.39	18.43
1994	20.56	15.22	5.34	17.65
1995	20.66	18.37	2.29	19.70
1996	19.61	17.68	1.93	18.70
1997	20.44	16.53	3.91	18.13
1998	20.51	18.33	2.18	19.57

MEAN ANNUAL STAGE = 18.80  
MEAN ANNUAL RANGE = 2.95

**TFMCA 18.5 FT Run** STAGE DURATION IN TFMCA (07/06/01)

Stage Duration Data for Station Elevations.  
1- 1-1942 through 31-12-1998  
Total of 20819 Days

Maximum Elevation was 20.93feet  
Minimum Elevation was 13.81 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
158	13.80	20819	100.00	5.00
159	13.90	20787	99.85	4.90
160	14.00	20772	99.77	4.80
161	14.10	20758	99.71	4.70
162	14.20	20746	99.65	4.60
163	14.30	20722	99.53	4.50
164	14.40	20694	99.40	4.40
165	14.50	20660	99.24	4.30
166	14.60	20639	99.14	4.20
167	14.70	20625	99.07	4.10
168	14.80	20610	99.00	4.00
169	14.90	20601	98.95	3.90
170	15.00	20570	98.80	3.80
171	15.10	20540	98.66	3.70
172	15.20	20512	98.53	3.60
173	15.30	20477	98.36	3.50
174	15.40	20436	98.16	3.40
175	15.50	20404	98.01	3.30
176	15.60	20350	97.75	3.20
177	15.70	20315	97.58	3.10
178	15.80	20284	97.43	3.00
179	15.90	20230	97.17	2.90
180	16.00	20152	96.80	2.80
181	16.10	20086	96.48	2.70
182	16.20	20012	96.12	2.60
183	16.30	19935	95.75	2.50
184	16.40	19841	95.30	2.40
185	16.50	19743	94.83	2.30
186	16.60	19658	94.42	2.20
187	16.70	19551	93.91	2.10
188	16.80	19376	93.07	2.00
189	16.90	19176	92.11	1.90
190	17.00	19003	91.28	1.80
191	17.10	18786	90.23	1.70
192	17.20	18577	89.23	1.60
193	17.30	18354	88.16	1.50
194	17.40	18110	86.99	1.40
195	17.50	17845	85.71	1.30
196	17.60	17542	84.26	1.20
197	17.70	17247	82.84	1.10
198	17.80	16937	81.35	1.00
199	17.90	16511	79.31	0.90
200	18.00	16129	77.47	0.80
201	18.10	15696	75.39	0.70
202	18.20	15112	72.59	0.60
203	18.30	14516	69.72	0.50
204	18.40	13564	65.15	0.40
205	18.50	12390	59.51	0.30
206	18.60	11805	56.70	0.20
207	18.70	11345	54.49	0.10
208	18.80	10858	52.15	0.00
209	18.90	10369	49.81	-0.10
210	19.00	9882	47.47	-0.20
211	19.10	9308	44.71	-0.30
212	19.20	8762	42.09	-0.40
213	19.30	8273	39.74	-0.50

**TFMCA 18.5 FT Run (CONT.)** (07/06/01)

214	19.40	7734	37.15	-0.60
215	19.50	7209	34.63	-0.70
216	19.60	6724	32.30	-0.80
217	19.70	6259	30.06	-0.90
218	19.80	5794	27.83	-1.00
219	19.90	5299	25.45	-1.10
220	20.00	4672	22.44	-1.20
221	20.10	3917	18.81	-1.30
222	20.20	3175	15.25	-1.40
223	20.30	2549	12.24	-1.50
224	20.40	1320	6.34	-1.60
225	20.50	362	1.74	-1.70
226	20.60	41	0.20	-1.80
227	20.70	4	0.02	-1.90
228	20.80	2	0.01	-2.00
229	20.90	1	0.00	-2.10

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**TFMCA 18.5 FT Run** AVERAGE MONTHLY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.31	17.32	18.29	18.96	19.15	20.04	20.35	20.35	20.26	19.71	18.95	18.44
1943	18.19	17.94	17.84	17.67	17.44	17.23	18.05	20.04	20.41	20.09	20.23	19.96
1944	19.34	18.65	18.28	18.46	18.46	18.52	20.06	20.37	20.39	20.37	20.17	19.93
1945	19.62	18.99	18.39	17.95	17.46	17.11	18.98	20.34	20.54	20.41	20.17	19.66
1946	19.04	18.56	18.43	18.07	18.21	18.78	19.52	20.36	20.42	20.35	20.09	19.72
1947	19.05	19.01	20.17	20.10	19.66	19.94	20.42	20.42	20.47	20.24	20.26	20.10
1948	19.85	19.69	19.23	18.79	19.16	18.65	18.39	18.62	19.46	20.18	20.22	19.88
1949	19.81	19.21	18.53	18.26	18.13	18.44	19.51	19.33	20.39	20.44	19.93	19.44
1950	19.20	18.62	18.39	18.29	18.10	17.87	17.62	17.33	17.76	18.37	20.19	20.00
1951	19.30	19.04	18.44	19.20	20.02	19.38	19.93	20.31	20.30	20.18	19.89	19.85
1952	19.18	19.51	19.99	20.05	19.67	19.02	18.78	19.25	20.30	20.34	20.24	19.56
1953	18.97	18.66	18.35	18.94	19.08	18.77	18.98	19.27	20.40	20.32	20.26	20.32
1954	19.80	19.20	18.63	18.24	18.48	19.79	20.37	19.68	19.58	20.37	20.12	19.93
1955	19.56	19.65	19.07	19.21	18.93	18.47	18.55	18.35	19.03	20.35	19.78	19.23
1956	19.08	18.54	18.08	17.63	17.26	16.81	17.73	18.58	20.15	20.37	20.09	20.00
1957	19.44	18.87	19.03	19.64	20.08	19.86	20.09	20.42	20.44	20.01	19.17	18.61
1958	19.28	20.22	20.26	20.26	19.80	18.95	18.56	18.99	19.38	19.28	18.94	18.49
1959	18.43	18.44	18.96	20.34	19.88	20.32	20.37	20.21	20.29	20.16	20.36	19.88
1960	19.30	19.30	19.90	20.32	19.90	19.55	20.17	20.38	20.36	20.27	20.11	19.55
1961	19.01	18.51	18.17	18.13	18.08	18.48	18.47	18.40	18.60	18.30	18.09	17.77
1962	17.50	17.22	16.91	16.59	15.96	15.49	16.30	18.72	20.39	20.29	19.83	19.21
1963	18.59	18.53	18.42	18.01	17.68	17.62	18.29	18.29	18.74	20.30	20.28	20.13
1964	20.21	20.13	19.60	18.79	18.44	18.26	18.07	18.39	20.12	20.01	19.40	18.86
1965	18.35	18.17	17.96	17.93	17.51	17.20	17.68	19.03	18.77	19.34	20.16	19.47
1966	19.42	19.59	19.91	19.34	18.91	19.99	20.22	20.38	20.34	20.07	19.44	18.82
1967	18.36	18.26	18.00	17.57	17.01	16.83	17.47	17.62	17.50	17.66	17.30	17.00
1968	16.67	16.36	16.04	15.33	15.58	18.67	20.32	20.38	20.12	20.24	19.95	19.29
1969	18.68	18.30	19.26	19.79	19.70	19.42	18.89	19.14	19.66	20.35	20.40	20.17
1970	20.31	20.06	19.80	19.98	19.24	18.58	18.45	18.19	17.94	18.44	18.29	17.96
1971	17.66	17.61	17.44	17.03	16.44	16.20	16.98	19.08	19.80	20.22	20.10	19.42
1972	18.75	18.51	18.32	18.30	19.04	19.94	20.37	20.11	20.07	19.40	18.83	18.48
1973	18.44	18.40	18.14	18.37	18.41	19.32	20.35	20.38	20.40	20.07	19.40	18.79
1974	18.36	18.06	17.67	17.18	16.70	16.42	18.35	20.14	20.45	20.05	19.21	18.62
1975	18.28	18.11	17.92	17.50	17.39	18.89	20.27	20.33	19.99	19.73	19.48	18.77
1976	18.32	18.03	17.68	17.17	17.31	19.46	20.39	20.18	20.34	19.85	19.12	18.60
1977	18.41	18.26	18.03	17.53	16.97	16.99	16.75	16.96	18.92	19.87	19.43	19.66
1978	19.80	19.59	19.54	18.85	18.55	18.89	19.84	20.38	20.00	19.62	18.99	18.45
1979	19.34	19.87	19.26	18.46	18.98	19.91	19.71	19.33	20.20	20.28	19.92	19.42
1980	18.86	18.46	18.25	18.22	18.35	18.20	17.92	17.63	17.56	17.35	17.07	16.99
1981	16.83	16.64	16.24	15.61	14.86	14.29	13.89	13.98	15.36	15.98	15.82	15.34
1982	14.91	14.49	14.33	14.48	15.14	17.76	20.04	20.41	20.30	19.82	19.12	18.65
1983	18.60	20.08	20.36	20.13	19.54	19.15	19.25	19.65	20.25	20.18	20.01	19.90
1984	19.90	19.33	18.93	18.46	18.24	18.15	18.44	18.43	18.68	18.72	18.54	19.16
1985	18.53	18.21	17.86	17.80	17.61	17.59	17.86	17.98	19.41	20.27	19.57	18.95
1986	18.49	18.28	17.98	17.50	16.91	16.96	18.49	19.13	19.34	19.33	18.87	18.39
1987	18.44	18.39	18.47	19.05	18.81	18.24	18.12	17.90	18.34	18.44	18.53	18.49
1988	18.33	18.32	18.55	18.45	18.24	17.79	17.75	18.16	18.36	18.02	17.75	17.48
1989	17.27	17.20	16.99	16.51	16.21	15.78	15.55	15.61	16.03	17.48	17.92	17.91
1990	17.91	17.76	17.63	17.20	16.58	16.47	17.34	18.63	19.76	20.31	19.52	18.83
1991	18.43	18.57	19.11	20.26	20.09	20.27	20.41	20.40	20.25	20.26	19.37	18.66
1992	18.28	18.05	17.73	17.31	16.75	16.98	18.75	19.12	19.48	19.06	18.49	18.29
1993	18.11	18.15	18.59	20.21	19.68	18.83	18.40	18.20	18.26	17.94	17.57	17.23
1994	17.00	16.83	16.58	16.10	15.54	16.29	17.43	17.61	18.70	19.52	19.65	20.41
1995	20.14	20.06	19.98	19.99	19.60	18.95	18.59	19.17	20.35	20.53	19.96	19.18
1996	18.75	18.35	18.65	19.47	19.07	18.85	19.22	19.06	18.58	18.45	18.09	17.84
1997	17.60	17.35	17.01	16.72	16.85	16.74	17.16	19.03	20.04	19.63	19.39	19.98
1998	20.23	20.35	20.34	20.26	19.76	18.90	18.49	18.57	19.67	20.07	19.49	18.81
MEAN	18.68	18.52	18.42	18.35	18.15	18.25	18.71	19.06	19.50	19.60	19.33	18.98
MAX	20.31	20.35	20.36	20.34	20.09	20.32	20.42	20.42	20.54	20.53	20.40	20.41
MIN	14.91	14.49	14.33	14.48	14.86	14.29	13.89	13.98	15.36	15.98	15.82	15.34

**TFMCA 18.5 FT Run** MAXIMUM DAILY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.42	18.03	18.63	19.49	19.45	20.48	20.44	20.46	20.53	20.23	19.30	18.57
1943	18.33	18.09	17.92	17.83	17.65	17.32	19.28	20.46	20.46	20.41	20.42	20.18
1944	19.69	18.97	18.37	18.83	18.75	18.98	20.62	20.54	20.49	20.62	20.41	20.23
1945	19.88	19.32	18.64	18.17	17.77	17.78	20.06	20.48	20.93	20.56	20.49	20.04
1946	19.33	18.81	18.59	18.30	18.72	19.01	20.52	20.46	20.50	20.70	20.39	20.05
1947	19.38	19.53	20.44	20.25	20.14	20.59	20.55	20.51	20.64	20.39	20.45	20.33
1948	20.11	19.95	19.52	19.15	19.45	18.94	18.45	18.85	20.36	20.45	20.42	20.04
1949	20.10	19.46	18.88	18.43	18.39	19.55	19.68	20.13	20.60	20.54	20.18	19.75
1950	19.53	18.81	18.54	18.46	18.21	18.11	17.78	17.43	17.89	19.46	20.48	20.27
1951	19.68	19.26	18.76	20.16	20.44	19.67	20.31	20.49	20.51	20.61	20.45	20.19
1952	19.49	19.86	20.33	20.22	20.15	19.43	19.02	19.80	20.55	20.56	20.53	19.84
1953	19.24	18.85	18.48	19.54	19.48	19.00	19.24	20.13	20.55	20.56	20.61	20.52
1954	20.05	19.49	18.92	18.39	18.68	20.31	20.51	20.03	20.43	20.52	20.47	20.22
1955	19.93	19.84	19.47	19.45	19.34	18.81	18.93	18.44	19.87	20.49	20.28	19.45
1956	19.42	18.80	18.32	17.82	17.47	16.99	18.11	19.07	20.64	20.83	20.38	20.31
1957	19.79	19.12	19.15	20.06	20.24	20.06	20.49	20.51	20.53	20.55	19.51	18.87
1958	20.28	20.46	20.51	20.47	20.36	19.31	18.78	19.21	19.63	19.44	19.20	18.68
1959	18.52	18.54	20.35	20.47	20.18	20.62	20.43	20.48	20.54	20.41	20.48	20.16
1960	19.69	19.64	20.46	20.51	20.52	20.06	20.55	20.53	20.69	20.50	20.46	19.86
1961	19.19	18.75	18.31	18.33	18.28	18.71	18.59	18.59	18.79	18.45	18.20	17.95
1962	17.62	17.33	17.07	16.81	16.28	15.96	16.92	19.99	20.64	20.56	19.99	19.56
1963	18.84	18.68	18.56	18.26	17.86	17.83	18.38	18.61	19.85	20.50	20.52	20.33
1964	20.40	20.48	20.06	19.24	18.65	18.40	18.21	19.28	20.46	20.31	19.76	19.14
1965	18.51	18.25	18.13	18.02	17.82	17.30	18.77	19.26	18.93	20.45	20.52	19.69
1966	19.73	20.33	20.38	19.51	19.20	20.53	20.45	20.50	20.64	20.35	19.82	19.08
1967	18.48	18.33	18.22	17.85	17.27	17.19	17.56	17.74	17.74	17.78	17.48	17.10
1968	16.85	16.48	16.29	15.68	16.38	19.95	20.43	20.48	20.32	20.58	20.12	19.68
1969	18.93	18.41	20.18	19.98	19.82	19.63	19.21	19.42	20.40	20.58	20.56	20.41
1970	20.51	20.28	20.31	20.26	19.68	18.95	18.55	18.37	18.34	18.56	18.43	18.11
1971	17.83	17.71	17.62	17.27	16.70	16.38	18.18	19.38	20.25	20.51	20.59	19.68
1972	19.08	18.62	18.55	18.86	19.31	20.48	20.49	20.35	20.43	19.72	19.04	18.68
1973	18.52	18.44	18.32	18.64	18.58	20.12	20.45	20.43	20.55	20.46	19.78	19.01
1974	18.55	18.19	17.92	17.40	16.91	16.98	19.53	20.37	20.64	20.57	19.55	18.86
1975	18.40	18.16	18.06	17.74	17.63	19.83	20.44	20.46	20.35	20.10	19.73	19.11
1976	18.43	18.19	17.92	17.41	18.54	20.34	20.48	20.36	20.64	20.32	19.46	18.85
1977	18.54	18.37	18.16	17.81	17.25	17.15	16.91	17.09	20.33	20.17	19.75	20.12
1978	20.00	19.76	19.82	19.25	18.75	19.38	20.51	20.54	20.15	19.91	19.35	18.62
1979	20.36	20.24	19.65	18.80	19.78	20.07	19.98	19.49	20.56	20.42	20.13	19.74
1980	19.04	18.65	18.42	18.51	18.48	18.32	18.12	17.82	17.71	17.54	17.16	17.07
1981	17.02	16.77	16.47	16.03	15.19	14.59	14.02	14.30	16.20	16.11	15.97	15.59
1982	15.10	14.69	14.54	15.01	16.15	18.98	20.50	20.48	20.47	20.38	19.41	18.82
1983	19.08	20.54	20.52	20.27	20.06	19.33	19.48	20.33	20.44	20.52	20.43	20.35
1984	20.39	19.60	19.30	18.58	18.34	18.28	18.56	18.50	19.13	19.10	19.27	19.50
1985	18.80	18.32	18.06	18.04	17.83	17.89	17.97	18.20	20.39	20.51	19.89	19.22
1986	18.63	18.35	18.15	17.78	17.20	17.61	19.04	19.28	19.77	19.63	19.24	18.51
1987	18.55	18.50	18.72	19.24	19.08	18.44	18.19	18.07	18.61	18.60	18.77	18.72
1988	18.37	18.35	18.81	18.54	18.50	17.96	17.98	18.40	18.48	18.19	17.89	17.61
1989	17.42	17.35	17.15	16.73	16.41	15.98	15.80	15.99	16.34	18.04	18.01	18.05
1990	18.00	17.86	17.82	17.43	16.91	16.84	17.87	19.75	20.23	20.60	19.90	19.15
1991	18.50	18.85	20.02	20.46	20.47	20.49	20.47	20.57	20.48	20.57	19.75	18.98
1992	18.40	18.18	17.93	17.52	17.08	17.84	19.16	19.58	19.64	19.36	18.64	18.41
1993	18.27	18.23	19.68	20.46	20.30	19.25	18.52	18.30	18.33	18.12	17.77	17.39
1994	17.11	16.91	16.84	16.32	15.89	17.16	17.58	18.18	19.60	19.73	20.32	20.56
1995	20.35	20.42	20.26	20.18	20.07	19.10	18.94	19.97	20.46	20.66	20.28	19.55
1996	19.04	18.49	19.23	19.61	19.48	19.16	19.45	19.29	18.79	18.58	18.29	17.97
1997	17.67	17.48	17.21	17.06	17.00	16.99	17.79	19.89	20.34	20.06	19.71	20.44
1998	20.48	20.50	20.51	20.47	20.17	19.23	18.62	18.89	20.51	20.51	19.85	19.10
MAX	20.51	20.54	20.52	20.51	20.52	20.62	20.62	20.57	20.93	20.83	20.61	20.56

**TFMCA 18.5 FT Run** MINIMUM DAILY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.13	17.14	18.02	18.46	18.98	19.12	20.32	20.31	19.97	19.32	18.59	18.34
1943	18.07	17.79	17.73	17.53	17.30	17.13	17.14	19.32	20.37	19.80	19.85	19.72
1944	18.99	18.39	18.18	18.27	18.18	18.07	19.03	20.31	20.32	20.11	19.97	19.69
1945	19.35	18.67	18.19	17.78	17.16	16.76	17.85	20.09	20.39	20.15	19.96	19.32
1946	18.84	18.42	18.32	17.87	17.88	18.52	18.81	20.25	20.37	19.98	19.92	19.40
1947	18.76	18.56	19.50	19.99	19.38	19.25	20.37	20.36	20.33	20.07	20.01	19.97
1948	19.61	19.41	18.89	18.47	18.97	18.37	18.36	18.34	18.48	19.94	19.98	19.66
1949	19.49	18.91	18.29	18.09	17.91	18.02	19.37	19.02	20.15	20.22	19.75	19.21
1950	18.84	18.41	18.26	18.14	18.01	17.63	17.45	17.26	17.41	17.70	19.52	19.71
1951	18.94	18.78	18.25	18.15	19.70	19.20	19.32	20.09	20.01	19.78	19.37	19.52
1952	18.93	19.07	19.56	19.94	19.35	18.64	18.50	18.94	19.84	20.04	19.87	19.26
1953	18.68	18.45	18.21	18.36	18.62	18.53	18.77	18.89	20.14	20.06	19.95	20.06
1954	19.51	18.95	18.36	18.11	18.30	18.72	20.07	19.32	19.07	20.10	19.80	19.73
1955	19.26	19.50	18.78	18.94	18.58	18.32	18.31	18.25	18.37	19.98	19.41	19.08
1956	18.80	18.34	17.84	17.46	17.01	16.66	16.83	18.16	19.19	20.13	19.89	19.80
1957	19.15	18.69	18.77	19.01	19.93	19.60	19.56	20.35	20.30	19.54	18.87	18.42
1958	18.47	20.00	20.12	20.02	19.35	18.65	18.39	18.44	19.03	19.09	18.69	18.35
1959	18.37	18.39	18.38	20.17	19.67	19.91	20.36	19.80	19.77	19.80	20.17	19.67
1960	18.96	18.89	19.24	20.11	19.45	19.30	19.88	20.23	19.98	20.11	19.87	19.19
1961	18.77	18.32	18.03	17.91	17.85	18.33	18.38	18.26	18.43	18.17	17.96	17.61
1962	17.35	17.09	16.81	16.30	15.56	15.22	15.80	17.07	20.03	19.96	19.58	18.87
1963	18.44	18.39	18.28	17.73	17.48	17.44	17.99	18.10	18.29	19.91	20.06	19.95
1964	19.92	19.85	19.25	18.41	18.30	18.14	17.93	18.03	19.49	19.75	19.12	18.53
1965	18.21	18.08	17.78	17.84	17.21	17.07	17.06	18.82	18.57	18.86	19.72	19.20
1966	19.13	19.27	19.55	19.21	18.55	19.03	20.07	20.23	20.10	19.85	19.09	18.50
1967	18.24	18.15	17.79	17.29	16.72	16.69	17.20	17.49	17.39	17.48	17.11	16.86
1968	16.49	16.25	15.71	15.05	14.96	16.54	20.01	20.27	19.98	19.90	19.70	18.91
1969	18.42	18.18	18.11	19.66	19.56	19.24	18.71	18.11	19.29	20.06	20.23	19.99
1970	19.96	19.84	19.58	19.72	18.94	18.35	18.34	18.01	17.85	18.40	18.12	17.82
1971	17.49	17.44	17.25	16.72	16.17	16.04	16.24	18.32	19.04	19.88	19.64	19.11
1972	18.45	18.43	18.11	18.07	18.78	19.17	20.14	19.88	19.68	19.03	18.63	18.39
1973	18.36	18.34	18.02	18.00	18.25	18.58	20.15	20.36	20.33	19.80	19.03	18.57
1974	18.20	17.93	17.42	16.93	16.43	16.24	17.07	19.57	20.36	19.58	18.88	18.41
1975	18.14	18.04	17.76	17.29	17.16	17.76	19.94	20.23	19.67	19.43	19.14	18.44
1976	18.20	17.88	17.43	16.89	16.73	18.59	20.32	19.97	19.97	19.41	18.78	18.44
1977	18.33	18.16	17.83	17.27	16.74	16.75	16.55	16.67	17.17	19.66	19.13	19.28
1978	19.53	19.40	19.29	18.52	18.32	18.30	19.30	20.07	19.81	19.38	18.63	18.33
1979	18.43	19.59	18.83	18.27	18.24	19.78	19.43	19.12	19.13	20.12	19.77	19.06
1980	18.68	18.36	18.07	18.05	18.26	18.11	17.79	17.44	17.43	17.17	16.99	16.89
1981	16.64	16.49	16.05	15.22	14.61	14.03	13.82	13.81	14.26	15.82	15.60	15.10
1982	14.69	14.30	14.12	14.29	14.90	16.26	19.02	20.27	20.12	19.37	18.79	18.43
1983	18.36	18.91	20.23	20.00	19.10	19.06	19.00	19.08	20.05	19.88	19.74	19.49
1984	19.57	19.16	18.56	18.36	18.04	18.06	18.18	18.33	18.34	18.41	18.27	18.82
1985	18.33	18.08	17.70	17.57	17.40	17.21	17.78	17.80	18.31	19.91	19.21	18.62
1986	18.36	18.16	17.80	17.22	16.58	16.47	17.59	18.96	18.87	19.11	18.52	18.29
1987	18.37	18.33	18.24	18.69	18.46	18.10	18.01	17.70	17.69	18.32	18.37	18.37
1988	18.29	18.27	18.24	18.38	17.97	17.63	17.52	17.91	18.20	17.81	17.62	17.33
1989	17.12	17.05	16.76	16.38	16.01	15.56	15.35	15.18	15.88	16.29	17.83	17.77
1990	17.80	17.68	17.45	16.93	16.34	16.27	16.84	17.77	19.50	19.92	19.17	18.50
1991	18.38	18.37	18.38	19.87	19.89	19.88	20.33	20.27	20.07	19.78	19.00	18.40
1992	18.14	17.95	17.54	17.10	16.45	16.44	17.91	18.67	19.24	18.67	18.42	18.14
1993	18.01	18.08	17.90	19.81	19.25	18.52	18.28	18.10	18.13	17.77	17.40	17.07
1994	16.88	16.73	16.34	15.91	15.22	15.27	17.15	17.35	18.08	19.33	19.02	20.19
1995	19.96	19.77	19.72	19.68	19.13	18.77	18.37	18.40	20.03	20.33	19.58	18.84
1996	18.45	18.19	18.09	19.32	18.76	18.73	18.89	18.78	18.38	18.30	17.89	17.68
1997	17.50	17.22	16.84	16.56	16.71	16.53	16.78	17.78	19.79	19.26	18.98	19.44
1998	20.05	20.16	20.18	19.98	19.26	18.54	18.36	18.33	18.71	19.61	19.13	18.54
MIN	14.69	14.30	14.12	14.29	14.61	14.03	13.82	13.81	14.26	15.82	15.60	15.10

**TFMCA 18.5 FT Run** (07/06/01)

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	20.53	20.45	20.34	20.32	20.32	19.91	18.59	17.78	17.30
1944	20.46	20.40	20.39	20.38	20.11	19.80	19.09	18.18	17.13
1945	20.62	20.47	20.44	20.34	20.31	19.99	19.58	18.41	17.16
1946	20.93	20.54	20.50	20.43	20.33	19.96	18.99	18.22	16.76
1947	20.70	20.54	20.50	20.41	20.33	19.92	19.16	18.56	18.52
1948	20.64	20.46	20.42	20.37	20.36	20.25	20.01	19.32	18.47
1949	20.45	20.35	20.28	20.11	19.94	19.66	18.74	18.34	17.91
1950	20.60	20.52	20.43	20.40	20.18	19.25	19.02	18.26	18.01
1951	20.48	20.34	20.29	20.14	19.65	18.93	18.15	17.34	17.26
1952	20.61	20.50	20.32	20.19	20.05	19.70	19.37	18.93	18.93
1953	20.56	20.47	20.46	20.13	20.04	19.47	18.81	18.43	18.21
1954	20.61	20.46	20.42	20.39	20.11	19.95	19.09	18.71	18.11
1955	20.52	20.42	20.39	20.31	19.80	19.42	19.11	19.07	18.58
1956	20.49	20.39	20.34	20.23	19.49	19.03	18.35	18.25	17.03
1957	20.83	20.49	20.41	20.23	19.99	19.71	18.71	18.69	16.66
1958	20.55	20.45	20.44	20.35	20.30	19.60	18.87	18.42	18.42
1959	20.47	20.38	20.29	20.17	19.72	18.66	18.39	18.35	18.35
1960	20.62	20.43	20.38	20.36	20.32	19.77	19.77	18.89	18.89
1961	20.69	20.50	20.43	20.32	20.11	19.98	19.47	18.31	17.85
1962	18.79	18.67	18.50	18.43	18.33	18.26	17.96	17.07	15.56
1963	20.64	20.51	20.39	20.36	19.99	19.18	18.39	17.66	15.22
1964	20.52	20.38	20.37	20.12	20.06	19.95	19.34	18.29	17.44
1965	20.46	20.36	20.26	19.91	19.71	18.65	18.18	17.93	17.21
1966	20.52	20.42	20.31	19.87	19.42	19.13	19.13	18.57	17.06
1967	20.64	20.48	20.33	20.28	20.10	19.98	19.07	18.15	16.72
1968	17.78	17.73	17.71	17.56	17.45	17.39	16.90	16.25	14.96
1969	20.58	20.55	20.36	20.36	20.24	19.90	19.23	18.11	16.54
1970	20.58	20.49	20.46	20.27	20.06	19.96	19.64	19.10	18.71
1971	18.95	18.78	18.56	18.40	18.34	17.85	17.85	17.44	16.17
1972	20.59	20.49	20.43	20.18	19.88	19.09	18.45	18.07	16.04
1973	20.49	20.43	20.36	20.32	19.88	19.61	18.63	18.32	18.00
1974	20.55	20.41	20.39	20.36	20.35	19.88	18.87	17.92	16.43
1975	20.64	20.56	20.47	20.37	20.15	19.05	18.31	17.65	16.24
1976	20.46	20.35	20.33	20.32	20.18	19.50	18.84	17.88	16.73
1977	20.64	20.52	20.38	20.32	19.97	19.76	18.78	18.15	16.74
1978	20.33	20.12	19.94	19.79	19.40	19.28	19.13	17.09	16.55
1979	20.54	20.42	20.36	20.31	19.90	19.35	18.50	18.33	18.24
1980	20.56	20.46	20.32	20.12	20.02	19.13	19.12	18.36	18.05
1981	18.32	18.24	18.21	18.11	17.79	17.43	16.99	16.47	14.61
1982	16.20	16.13	16.09	15.97	15.77	14.98	14.26	14.12	13.81
1983	20.54	20.48	20.45	20.38	20.12	19.35	18.58	18.36	16.26
1984	20.52	20.49	20.30	20.05	19.88	19.49	19.36	19.00	18.04
1985	19.50	19.37	19.24	18.94	18.44	18.33	18.27	18.06	17.40
1986	20.51	20.50	20.39	20.09	19.54	18.61	18.17	17.78	16.58
1987	19.77	19.62	19.54	19.33	19.08	18.81	18.29	18.24	16.47
1988	18.81	18.74	18.65	18.44	18.37	18.32	18.24	17.69	17.69
1989	18.48	18.43	18.38	18.34	18.06	17.79	17.52	17.05	16.01
1990	18.05	18.02	17.99	17.91	17.77	17.69	17.28	15.88	15.18
1991	20.60	20.46	20.33	20.12	19.89	18.88	18.37	18.37	16.27
1992	20.57	20.54	20.41	20.38	20.33	20.07	19.00	17.95	16.47
1993	20.46	20.39	20.29	20.03	19.40	18.59	18.13	17.90	16.44
1994	19.25	19.04	18.86	18.52	18.28	18.10	17.40	16.73	15.22
1995	20.56	20.45	20.39	20.29	20.00	19.77	19.54	18.08	15.27
1996	20.66	20.56	20.52	20.39	20.22	19.12	18.45	18.19	18.09
1997	19.45	19.34	19.28	19.01	18.89	18.38	17.89	17.21	16.56
1998	20.51	20.41	20.35	20.23	20.18	20.05	19.44	18.98	16.53
MEAN	20.15	20.03	19.95	19.82	19.59	19.14	18.59	17.98	16.98
MAX	20.93	20.56	20.52	20.43	20.36	20.25	20.01	19.32	18.93
MIN	16.20	16.13	16.09	15.97	15.77	14.98	14.26	14.12	13.81
STDV	0.92	0.91	0.91	0.92	0.93	0.93	0.90	0.88	1.17
SKEW	-2.37	-2.37	-2.31	-2.17	-1.98	-1.94	-2.20	-1.96	-0.40

**TFMCA 18.5 FT Run** (07/06/01)

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	17.13	17.19	17.29	17.32	17.44	17.90	18.18	19.32	20.46
1944	18.07	18.15	18.24	18.37	18.52	18.83	19.55	20.42	20.62
1945	16.76	16.86	17.00	17.28	17.77	18.44	19.61	20.41	20.93
1946	17.87	17.94	18.02	18.06	18.41	18.72	19.10	20.49	20.56
1947	18.56	18.65	18.78	19.02	19.53	20.38	20.44	20.59	20.70
1948	18.34	18.37	18.40	18.45	18.73	19.36	19.45	20.11	20.45
1949	17.91	17.97	18.05	18.19	18.43	18.99	19.68	20.10	20.60
1950	17.26	17.32	17.33	17.41	17.77	18.08	18.46	19.53	20.54
1951	17.70	17.76	17.80	18.48	19.13	19.90	20.44	20.44	20.51
1952	18.50	18.66	18.73	18.98	19.12	19.94	20.33	20.33	20.61
1953	18.21	18.29	18.34	18.48	18.82	19.34	19.54	19.96	20.56
1954	18.11	18.19	18.20	18.37	18.67	19.34	20.25	20.51	20.61
1955	18.25	18.33	18.38	18.44	18.74	18.93	19.45	19.93	20.52
1956	16.66	16.74	16.80	16.94	17.43	17.93	18.56	19.45	20.64
1957	18.69	18.75	18.84	19.04	19.15	19.90	20.24	20.38	20.83
1958	18.39	18.44	18.51	18.70	19.07	19.63	20.47	20.51	20.55
1959	18.35	18.39	18.42	18.49	18.52	18.87	20.39	20.62	20.62
1960	18.89	18.99	19.12	19.39	19.64	20.38	20.48	20.52	20.69
1961	17.85	17.97	18.05	18.21	18.33	18.70	18.71	19.19	20.50
1962	15.22	15.34	15.39	15.72	16.11	16.86	17.32	18.18	20.64
1963	17.44	17.52	17.58	17.83	17.86	18.38	18.61	19.03	20.56
1964	17.93	18.01	18.05	18.18	18.27	18.65	19.80	20.48	20.52
1965	17.06	17.13	17.22	17.30	17.51	18.02	18.27	19.26	20.31
1966	18.55	18.70	18.89	19.10	19.42	20.38	20.38	20.53	20.64
1967	16.69	16.78	16.82	16.94	17.21	17.65	17.85	18.50	20.35
1968	14.96	15.09	15.13	15.30	16.03	16.46	17.08	19.95	20.48
1969	18.11	18.17	18.25	18.37	18.79	19.73	20.05	20.18	20.58
1970	17.85	17.91	17.93	18.03	18.35	18.88	20.26	20.51	20.58
1971	16.04	16.12	16.22	16.38	16.50	17.35	17.71	18.43	20.25
1972	18.07	18.13	18.20	18.30	18.55	18.96	19.55	20.49	20.59
1973	18.00	18.07	18.09	18.26	18.42	18.52	18.68	20.15	20.55
1974	16.24	16.30	16.40	16.50	16.91	17.77	18.39	19.70	20.64
1975	17.16	17.26	17.33	17.48	17.72	18.15	18.69	20.35	20.57
1976	16.73	16.87	16.94	17.14	17.55	18.21	18.97	20.34	20.64
1977	16.55	16.67	16.75	16.89	17.04	17.17	18.16	18.61	20.33
1978	18.30	18.37	18.48	18.73	18.90	19.77	19.85	20.12	20.54
1979	18.24	18.30	18.35	18.56	19.01	19.93	20.07	20.36	20.56
1980	17.43	17.49	17.54	17.64	17.81	18.29	18.51	19.04	20.42
1981	13.81	13.87	13.90	14.02	14.09	14.87	16.20	17.03	17.54
1982	14.12	14.23	14.38	14.43	14.54	15.03	15.64	19.02	20.50
1983	18.36	18.40	18.46	18.60	18.94	19.89	20.43	20.54	20.54
1984	18.04	18.10	18.14	18.27	18.33	18.56	18.80	20.39	20.52
1985	17.21	17.30	17.40	17.59	17.87	18.00	18.12	19.17	20.39
1986	16.47	16.52	16.61	16.87	17.37	18.02	18.56	19.28	20.51
1987	17.69	17.77	17.85	18.01	18.18	18.60	19.24	19.24	19.63
1988	17.52	17.58	17.65	17.83	17.98	18.40	18.54	18.81	18.81
1989	15.18	15.32	15.40	15.56	15.82	16.10	16.73	17.42	18.19
1990	16.27	16.36	16.42	16.47	16.88	17.57	17.86	18.05	20.23
1991	18.37	18.41	18.44	18.50	18.85	19.37	20.41	20.49	20.60
1992	16.44	16.51	16.56	16.75	17.22	17.89	18.38	19.32	20.57
1993	17.90	18.01	18.09	18.17	18.27	18.55	19.81	20.46	20.46
1994	15.22	15.31	15.41	15.67	16.07	16.89	17.15	17.58	19.60
1995	18.37	18.42	18.53	18.77	19.08	19.99	20.18	20.46	20.56
1996	18.09	18.17	18.22	18.43	18.80	19.45	19.61	19.61	20.66
1997	16.53	16.63	16.70	16.78	16.99	17.06	17.56	18.23	20.34
1998	18.33	18.39	18.48	18.59	18.70	19.66	20.47	20.51	20.51
MEAN	17.36	17.44	17.51	17.67	17.95	18.51	19.02	19.69	20.38
MAX	18.89	18.99	19.12	19.39	19.64	20.38	20.48	20.62	20.93
MIN	13.81	13.87	13.90	14.02	14.09	14.87	15.64	17.03	17.54

**TFMCA 18.5 FT Run** (07/06/01)

WEEKLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSION(FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.11	0.03	0.00
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.01
1.6 - 1.8	0.00	0.00	0.00	0.08	0.03	0.01
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.01
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.08	0.03	0.06
.75 - 1.0	0.00	0.00	0.00	0.04	0.09	0.03
.50 - .75	0.00	0.00	0.00	0.00	0.06	0.01
.25 - .50	0.00	0.00	0.00	9.42	0.68	0.21
.00 - .25	0.00	0.00	0.00	90.28	99.08	99.65

**TFMCA 18.5 FT Run** (07/06/01)

MONTHLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSION(FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.03	0.06	0.03
1.8 - 2.0	0.00	0.00	0.00	0.00	0.03	0.00
1.6 - 1.8	0.00	0.00	0.00	0.03	0.09	0.03
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.02
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	1.18	0.06	0.00
.75 - 1.0	0.00	0.00	0.00	8.72	6.64	0.60
.50 - .75	0.00	0.00	0.00	18.54	48.62	10.00
.25 - .50	0.00	0.00	0.00	33.15	28.76	46.80
.00 - .25	0.00	0.00	0.00	38.35	15.73	42.52

**TFMCA ISOLATION Run**

TFMCA STAGE FT NGVD (07/06/01)

YEAR	MAX	MIN	RANGE	MEAN <sup>£</sup>
1942	19.48	17.31	2.17	18.71
1943	19.48	15.50	3.98	17.66
1944	19.57	17.10	2.47	18.49
1945	19.80	15.27	4.53	18.12
1946	19.63	16.72	2.91	18.38
1947	19.57	17.55	2.02	19.00
1948	19.47	17.41	2.06	18.54
1949	19.54	16.85	2.69	18.40
1950	19.49	15.83	3.66	17.54
1951	19.57	17.14	2.43	18.69
1952	19.52	17.55	1.97	18.76
1953	19.58	17.21	2.37	18.59
1954	19.50	17.03	2.47	18.55
1955	19.53	17.35	2.18	18.42
1956	19.69	15.37	4.32	17.79
1957	19.51	17.40	2.11	18.69
1958	19.50	17.42	2.08	18.54
1959	19.55	17.41	2.14	18.82
1960	19.60	17.90	1.70	18.95
1961	18.23	16.40	1.83	17.41
1962	19.57	14.50	5.07	17.11
1963	19.48	16.32	3.16	17.79
1964	19.51	16.92	2.59	18.20
1965	19.54	15.54	4.00	17.59
1966	19.59	17.45	2.14	18.75
1967	17.43	15.25	2.18	16.66
1968	19.56	14.50	5.06	17.63
1969	19.55	17.02	2.53	18.63
1970	19.47	16.66	2.81	17.96
1971	19.54	15.04	4.50	17.26
1972	19.54	17.07	2.47	18.25
1973	19.51	16.96	2.55	18.26
1974	19.57	15.18	4.39	17.43
1975	19.47	15.61	3.86	17.86
1976	19.55	15.23	4.32	17.82
1977	19.50	15.23	4.27	17.18
1978	19.50	17.25	2.25	18.52
1979	19.52	17.18	2.34	18.62
1980	18.07	15.61	2.46	16.87
1981	17.50	14.50	3.00	15.84
1982	19.48	15.64	3.84	17.66
1983	19.56	17.34	2.22	18.83
1984	19.42	17.13	2.29	17.91
1985	19.47	16.05	3.42	17.60
1986	19.38	15.06	4.32	17.48
1987	18.94	16.78	2.16	17.70
1988	18.07	15.80	2.27	17.14
1989	18.77	15.25	3.52	16.34
1990	19.54	15.33	4.21	17.51
1991	19.52	17.32	2.20	18.68
1992	19.40	15.09	4.31	17.34
1993	19.45	15.49	3.96	17.34
1994	19.51	15.04	4.47	17.12
1995	19.59	17.40	2.19	18.74
1996	19.16	16.61	2.55	18.04
1997	19.46	15.32	4.14	17.32
1998	19.52	17.37	2.15	18.59

MEAN ANNUAL STAGE = 17.96  
MEAN ANNUAL RANGE = 3.02

**TFMCA ISOLATION Run** TFMCA STAGE DURATION(07/06/01)

Stage Duration Data for Station Elevations.  
 1- 1-1942 through 31-12-1998  
 Total of 20819 Days

Maximum Elevation was 19.80feet  
 Minimum Elevation was 14.50 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
165	14.50	20819	100.00	3.46
166	14.60	20776	99.79	3.36
167	14.70	20773	99.78	3.26
168	14.80	20771	99.77	3.16
169	14.90	20768	99.76	3.06
170	15.00	20759	99.71	2.96
171	15.10	20679	99.33	2.86
172	15.20	20584	98.87	2.76
173	15.30	20438	98.17	2.66
174	15.40	20266	97.34	2.56
175	15.50	20014	96.13	2.46
176	15.60	19809	95.15	2.36
177	15.70	19628	94.28	2.26
178	15.80	19373	93.05	2.16
179	15.90	19108	91.78	2.06
180	16.00	19007	91.30	1.96
181	16.10	18773	90.17	1.86
182	16.20	18558	89.14	1.76
183	16.30	18382	88.29	1.66
184	16.40	18155	87.20	1.56
185	16.50	17950	86.22	1.46
186	16.60	17687	84.96	1.36
187	16.70	17462	83.88	1.26
188	16.80	17287	83.03	1.16
189	16.90	17063	81.96	1.06
190	17.00	16810	80.74	0.96
191	17.10	16358	78.57	0.86
192	17.20	15793	75.86	0.76
193	17.30	15198	73.00	0.66
194	17.40	14602	70.14	0.56
195	17.50	13457	64.64	0.46
196	17.60	12843	61.69	0.36
197	17.70	12328	59.22	0.26
198	17.80	11840	56.87	0.16
199	17.90	11429	54.90	0.06
200	18.00	11030	52.98	-0.04
201	18.10	10574	50.79	-0.14
202	18.20	10125	48.63	-0.24
203	18.30	9672	46.46	-0.34
204	18.40	9139	43.90	-0.44
205	18.50	8594	41.28	-0.54
206	18.60	8047	38.65	-0.64
207	18.70	7497	36.01	-0.74
208	18.80	6926	33.27	-0.84
209	18.90	6258	30.06	-0.94
210	19.00	5453	26.19	-1.04
211	19.10	4537	21.79	-1.14
212	19.20	3743	17.98	-1.24
213	19.30	2925	14.05	-1.34
214	19.40	1181	5.67	-1.44
215	19.50	158	0.76	-1.54
216	19.60	6	0.03	-1.64
217	19.70	1	0.00	-1.74
218	19.80	1	0.00	-1.84

**TFMCA ISOLATION Run** AVERAGE MONTHLY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	18.53	18.06	18.72	19.12	18.81	19.32	19.33	19.33	19.25	18.67	17.90	17.41
1943	17.11	16.72	16.51	16.28	16.00	15.92	17.29	19.33	19.38	19.07	19.25	18.97
1944	18.35	17.64	17.23	17.51	17.75	17.84	19.30	19.35	19.36	19.33	19.18	18.95
1945	18.69	18.04	17.39	16.82	16.07	15.78	18.59	19.37	19.48	19.37	19.14	18.62
1946	18.01	17.57	17.43	17.00	17.33	18.29	19.00	19.33	19.39	19.30	19.11	18.71
1947	18.05	18.16	19.27	19.11	18.64	18.96	19.38	19.38	19.42	19.21	19.26	19.10
1948	18.89	18.75	18.33	18.01	18.70	18.15	17.58	17.86	18.90	19.17	19.21	18.93
1949	18.89	18.27	17.56	17.26	17.14	17.63	19.01	18.73	19.39	19.39	18.95	18.50
1950	18.35	17.75	17.41	17.33	17.16	16.86	16.46	16.06	17.01	17.82	19.35	18.99
1951	18.31	18.14	17.50	18.43	19.00	18.38	19.07	19.31	19.25	19.14	18.89	18.83
1952	18.16	18.77	19.15	19.09	18.71	18.08	18.00	18.80	19.35	19.29	19.20	18.56
1953	17.98	17.72	17.37	18.17	18.53	18.32	18.69	18.97	19.40	19.27	19.26	19.28
1954	18.81	18.22	17.64	17.20	17.69	19.08	19.34	18.63	18.64	19.33	19.09	18.94
1955	18.65	18.87	18.29	18.70	18.48	17.85	17.96	17.50	18.42	19.36	18.72	18.24
1956	18.28	17.68	17.10	16.46	15.87	15.48	17.36	18.35	19.42	19.31	19.11	19.00
1957	18.48	17.90	18.27	19.03	19.12	18.90	19.14	19.38	19.40	18.94	18.09	17.55
1958	18.54	19.22	19.23	19.26	18.75	17.90	17.58	18.37	18.93	18.72	18.32	17.77
1959	17.49	17.48	18.14	19.32	18.88	19.34	19.35	19.17	19.28	19.13	19.33	18.87
1960	18.32	18.49	19.10	19.29	18.84	18.58	19.21	19.35	19.32	19.23	19.10	18.59
1961	18.05	17.54	17.13	17.14	17.20	17.79	17.67	17.48	17.79	17.40	17.13	16.66
1962	16.18	15.79	15.63	15.61	15.20	15.30	16.76	18.99	19.41	19.26	18.87	18.24
1963	17.60	17.55	17.46	16.96	16.60	16.60	17.48	17.50	17.95	19.36	19.25	19.11
1964	19.19	19.11	18.59	17.77	17.48	17.30	17.09	17.50	19.26	18.99	18.36	17.83
1965	17.31	17.05	16.70	16.76	16.23	15.87	16.91	18.90	18.59	19.13	19.11	18.43
1966	18.56	18.85	18.89	18.39	18.09	19.17	19.21	19.36	19.29	19.03	18.40	17.78
1967	17.28	17.13	16.73	16.04	15.40	15.81	16.96	17.19	17.08	17.23	16.77	16.28
1968	15.82	15.63	15.51	15.15	16.08	18.99	19.36	19.35	19.12	19.22	18.94	18.28
1969	17.66	17.26	18.38	18.92	18.98	18.69	18.13	18.55	19.12	19.31	19.36	19.15
1970	19.30	19.05	18.88	19.02	18.30	17.62	17.52	17.21	16.93	17.52	17.32	16.88
1971	16.39	16.27	16.01	15.55	15.22	15.65	17.06	19.08	19.20	19.23	19.03	18.34
1972	17.68	17.57	17.38	17.43	18.60	19.25	19.34	19.12	19.04	18.35	17.78	17.49
1973	17.45	17.45	17.15	17.44	17.59	18.78	19.37	19.36	19.37	19.04	18.36	17.75
1974	17.32	16.93	16.32	15.60	15.38	15.65	18.45	19.34	19.42	18.99	18.15	17.56
1975	17.25	17.00	16.67	16.01	16.22	18.49	19.34	19.32	18.94	18.71	18.53	17.82
1976	17.29	16.90	16.34	15.59	16.37	19.10	19.38	19.17	19.31	18.79	18.06	17.56
1977	17.40	17.20	16.87	16.11	15.39	16.12	15.84	16.51	18.72	18.87	18.42	18.75
1978	18.89	18.75	18.78	18.09	17.88	18.32	19.22	19.34	18.99	18.60	17.97	17.40
1979	18.50	18.87	18.28	17.45	18.21	19.12	18.76	18.40	19.23	19.27	18.94	18.46
1980	17.89	17.50	17.29	17.33	17.48	17.28	16.94	16.48	16.42	16.15	15.81	15.92
1981	15.83	15.82	15.49	15.22	14.72	14.75	14.91	15.37	16.82	17.30	17.16	16.75
1982	16.33	15.93	15.86	16.05	16.41	18.66	19.39	19.37	19.27	18.76	18.06	17.64
1983	17.69	19.26	19.31	19.14	18.55	18.22	18.54	18.97	19.24	19.15	18.97	18.92
1984	18.88	18.34	18.04	17.59	17.35	17.24	17.54	17.47	17.87	18.13	17.78	18.65
1985	17.91	17.35	16.91	16.84	16.66	16.70	17.13	17.26	18.85	19.23	18.50	17.89
1986	17.45	17.21	16.77	16.03	15.33	16.06	18.37	18.99	18.99	18.72	18.20	17.55
1987	17.54	17.49	17.67	18.60	18.43	17.63	17.32	17.04	17.63	17.74	17.66	17.67
1988	17.41	17.40	17.72	17.70	17.41	16.84	16.80	17.37	17.41	16.98	16.56	16.09
1989	15.83	15.86	15.69	15.39	15.53	15.47	15.78	16.14	16.60	18.11	18.03	17.55
1990	17.38	17.19	17.04	16.40	15.58	16.00	17.30	18.57	19.14	19.27	18.45	17.75
1991	17.38	17.69	18.31	19.29	19.06	19.28	19.38	19.36	19.23	19.21	18.30	17.59
1992	17.17	16.83	16.31	15.70	15.26	16.40	18.79	18.96	18.95	18.48	17.80	17.36
1993	17.12	17.20	17.81	19.35	18.61	17.76	17.41	17.15	17.18	16.74	16.14	15.64
1994	15.53	15.63	15.62	15.32	15.21	16.71	17.80	17.70	18.65	18.93	18.91	19.38
1995	19.14	19.10	18.96	19.05	18.62	17.98	17.63	18.51	19.38	19.48	18.95	18.17
1996	17.75	17.32	17.80	18.98	18.60	18.43	18.89	18.67	18.17	17.80	17.21	16.86
1997	16.45	16.01	15.56	15.67	16.45	16.34	16.96	18.89	19.11	18.64	18.49	19.10
1998	19.22	19.32	19.31	19.24	18.77	17.93	17.50	17.72	18.94	19.01	18.43	17.75
MEAN	17.77	17.61	17.49	17.43	17.30	17.54	18.07	18.39	18.73	18.72	18.40	18.03
MAX	19.30	19.32	19.31	19.35	19.12	19.34	19.39	19.38	19.48	19.48	19.36	19.38
MIN	15.53	15.63	15.49	15.15	14.72	14.75	14.91	15.37	16.42	16.15	15.81	15.64

**TFMCA ISOLATION Run** MAXIMUM DAILY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	18.76	18.69	19.04	19.40	19.18	19.46	19.41	19.43	19.48	19.21	18.25	17.52
1943	17.30	16.97	16.64	16.49	16.34	16.23	19.01	19.48	19.42	19.38	19.42	19.13
1944	18.71	17.98	17.35	18.14	18.12	18.51	19.57	19.48	19.45	19.54	19.41	19.21
1945	18.96	18.37	17.68	17.13	16.54	17.19	19.41	19.47	19.80	19.52	19.50	19.01
1946	18.28	17.83	17.60	17.28	18.07	18.60	19.54	19.44	19.46	19.63	19.43	19.03
1947	18.38	18.90	19.46	19.28	19.14	19.55	19.50	19.46	19.57	19.35	19.44	19.29
1948	19.25	19.00	18.64	18.64	19.05	18.47	17.76	18.17	19.47	19.43	19.41	19.12
1949	19.24	18.53	17.94	17.59	17.49	19.11	19.18	19.49	19.54	19.50	19.12	18.82
1950	18.70	17.96	17.54	17.48	17.31	17.17	16.69	16.17	17.18	19.17	19.49	19.26
1951	18.69	18.39	17.87	19.35	19.45	18.63	19.42	19.46	19.48	19.57	19.45	19.15
1952	18.46	19.25	19.42	19.22	19.26	18.50	18.45	19.29	19.52	19.52	19.49	18.82
1953	18.25	17.95	17.54	19.05	18.97	18.62	19.02	19.45	19.49	19.50	19.58	19.49
1954	19.04	18.50	17.94	17.46	17.96	19.41	19.49	18.97	19.46	19.50	19.46	19.18
1955	19.18	19.04	18.70	19.07	18.95	18.23	18.40	17.73	19.37	19.53	19.23	18.66
1956	18.64	17.99	17.38	16.74	16.23	15.64	17.79	19.04	19.58	19.69	19.41	19.30
1957	18.85	18.16	18.46	19.40	19.36	19.13	19.47	19.48	19.48	19.51	18.43	17.79
1958	19.43	19.46	19.50	19.45	19.34	18.26	17.80	18.76	19.26	18.92	18.61	18.04
1959	17.62	17.55	19.48	19.51	19.17	19.55	19.40	19.46	19.50	19.41	19.46	19.11
1960	18.71	18.97	19.59	19.48	19.47	19.27	19.52	19.50	19.60	19.48	19.43	18.89
1961	18.23	17.79	17.30	17.49	17.48	18.11	17.79	17.69	18.00	17.62	17.27	16.94
1962	16.40	15.86	15.89	15.83	15.35	16.35	17.48	19.48	19.57	19.52	19.02	18.59
1963	17.87	17.71	17.61	17.28	16.95	16.94	17.60	17.94	19.21	19.48	19.48	19.38
1964	19.39	19.47	19.07	18.23	17.73	17.43	17.22	18.67	19.51	19.34	18.73	18.11
1965	17.47	17.16	16.98	16.95	16.69	16.09	18.59	19.21	18.80	19.54	19.48	18.62
1966	19.02	19.46	19.46	18.50	18.39	19.47	19.38	19.48	19.59	19.39	18.79	18.05
1967	17.43	17.20	17.06	16.48	15.56	16.52	17.06	17.32	17.31	17.34	17.04	16.45
1968	16.05	15.82	15.73	15.32	17.21	19.47	19.41	19.45	19.29	19.56	19.14	18.67
1969	17.92	17.40	19.42	19.08	19.09	18.90	18.45	18.95	19.45	19.55	19.50	19.43
1970	19.47	19.28	19.41	19.31	18.76	18.02	17.67	17.40	17.41	17.70	17.48	17.11
1971	16.66	16.41	16.30	15.82	15.36	16.12	18.51	19.46	19.44	19.48	19.54	18.60
1972	18.01	17.74	17.68	18.29	18.97	19.54	19.46	19.35	19.43	18.67	18.01	17.64
1973	17.54	17.48	17.37	17.89	17.83	19.37	19.43	19.41	19.51	19.44	18.75	17.97
1974	17.52	17.12	16.70	15.85	15.58	16.84	19.44	19.42	19.57	19.51	18.48	17.79
1975	17.41	17.08	16.89	16.39	16.83	19.38	19.47	19.45	19.32	19.11	18.76	18.17
1976	17.45	17.13	16.71	15.87	18.22	19.45	19.46	19.38	19.55	19.29	18.40	17.79
1977	17.51	17.33	17.06	16.54	15.64	16.40	16.03	16.83	19.50	19.22	18.74	19.29
1978	19.10	18.98	19.13	18.49	18.13	19.03	19.50	19.49	19.18	18.91	18.33	17.58
1979	19.44	19.27	18.67	17.81	19.27	19.32	19.03	18.59	19.52	19.41	19.09	18.80
1980	18.07	17.69	17.48	17.76	17.72	17.40	17.20	16.77	16.66	16.45	16.00	16.15
1981	16.08	16.06	15.65	15.42	15.13	15.07	15.21	16.01	17.50	17.41	17.27	17.00
1982	16.50	16.12	16.11	16.41	17.27	19.37	19.48	19.46	19.45	19.34	18.35	17.84
1983	18.36	19.56	19.49	19.26	19.09	18.57	18.80	19.42	19.47	19.51	19.38	19.43
1984	19.42	18.61	18.41	17.79	17.47	17.41	17.69	17.57	18.57	18.54	18.72	19.04
1985	18.25	17.53	17.17	17.22	16.99	17.19	17.23	17.52	19.44	19.47	18.83	18.16
1986	17.56	17.31	17.04	16.46	15.55	17.27	19.07	19.24	19.38	19.07	18.58	17.82
1987	17.69	17.64	18.02	18.94	18.75	18.02	17.42	17.24	18.04	17.95	18.04	17.99
1988	17.45	17.43	18.07	17.83	17.77	17.07	17.14	17.67	17.55	17.21	16.78	16.32
1989	16.19	16.10	15.96	15.55	15.70	15.90	15.88	16.55	17.03	18.77	18.39	17.67
1990	17.47	17.27	17.24	16.76	15.93	16.67	17.97	19.45	19.39	19.54	18.84	18.08
1991	17.43	18.04	19.39	19.45	19.45	19.46	19.44	19.52	19.46	19.52	18.68	17.91
1992	17.34	17.04	16.62	15.98	15.46	17.73	19.32	19.40	19.21	18.83	18.04	17.57
1993	17.32	17.29	19.21	19.45	19.25	18.18	17.60	17.28	17.26	17.02	16.46	15.82
1994	15.60	15.90	15.89	15.40	15.34	17.80	18.12	18.32	19.42	19.34	19.39	19.51
1995	19.34	19.44	19.24	19.31	19.14	18.15	18.01	19.35	19.46	19.59	19.23	18.54
1996	18.05	17.47	18.63	19.14	19.05	18.84	19.16	18.96	18.39	18.03	17.44	17.05
1997	16.60	16.25	15.77	16.64	16.58	16.69	17.74	19.45	19.43	19.10	18.94	19.46
1998	19.46	19.47	19.48	19.45	19.23	18.22	17.62	18.19	19.52	19.47	18.79	18.04
MAX	19.47	19.56	19.59	19.51	19.47	19.55	19.57	19.52	19.80	19.69	19.58	19.51

**TFMCA ISOLATION RUN**

MINIMUM DAILY STAGE (07/06/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	18.26	17.83	18.53	18.72	18.62	18.81	19.30	19.30	18.95	18.28	17.53	17.31
1943	16.95	16.48	16.36	16.06	15.75	15.50	15.86	19.06	19.35	18.82	18.91	18.74
1944	18.01	17.36	17.10	17.21	17.35	17.22	18.58	19.30	19.27	19.07	18.98	18.75
1945	18.40	17.71	17.15	16.57	15.58	15.27	17.29	19.31	19.38	19.10	18.97	18.27
1946	17.82	17.41	17.30	16.72	16.82	17.85	18.35	19.18	19.35	18.98	18.95	18.41
1947	17.76	17.55	18.86	18.99	18.35	18.26	19.34	19.34	19.27	19.05	19.01	18.99
1948	18.61	18.47	17.99	17.54	18.49	17.79	17.42	17.41	17.78	18.94	18.99	18.69
1949	18.56	17.97	17.28	17.03	16.85	17.00	18.79	18.43	19.32	19.16	18.81	18.26
1950	17.98	17.46	17.28	17.17	17.06	16.52	16.19	15.83	16.33	17.01	19.22	18.72
1951	17.95	17.90	17.25	17.14	18.65	18.16	18.45	19.09	18.96	18.75	18.32	18.49
1952	17.90	18.11	18.77	18.98	18.37	17.69	17.55	18.40	19.02	19.00	18.85	18.27
1953	17.69	17.52	17.21	17.35	18.04	17.94	18.42	18.59	19.32	19.04	18.95	19.05
1954	18.52	17.97	17.36	17.03	17.36	18.04	19.01	18.30	18.05	19.04	18.73	18.76
1955	18.30	18.73	17.99	18.25	18.10	17.64	17.53	17.35	17.48	19.15	18.34	18.03
1956	18.00	17.40	16.77	16.22	15.48	15.37	16.13	17.84	19.16	19.09	18.91	18.86
1957	18.19	17.71	17.81	18.34	18.95	18.62	18.58	19.32	19.25	18.46	17.79	17.40
1958	17.48	19.01	19.06	19.05	18.29	17.60	17.42	17.48	18.54	18.49	18.06	17.53
1959	17.41	17.42	17.43	19.12	18.68	19.04	19.34	18.75	18.71	18.74	19.10	18.65
1960	17.98	17.90	18.57	19.06	18.38	18.30	18.95	19.15	18.93	19.05	18.90	18.22
1961	17.81	17.32	16.96	16.77	16.93	17.56	17.51	17.33	17.61	17.24	16.96	16.40
1962	15.88	15.69	15.41	15.37	15.01	14.50	16.19	17.63	19.32	18.95	18.62	17.89
1963	17.44	17.37	17.30	16.58	16.32	16.33	17.18	17.23	17.43	19.21	19.02	18.92
1964	18.89	18.82	18.23	17.39	17.33	17.18	16.92	17.04	18.92	18.72	18.09	17.49
1965	17.13	16.92	16.42	16.55	15.73	15.54	15.73	18.66	18.36	18.75	18.65	18.19
1966	18.11	18.50	18.51	18.26	17.70	18.33	19.06	19.22	19.06	18.81	18.06	17.45
1967	17.13	17.02	16.42	15.59	15.26	15.25	16.53	17.07	16.95	17.05	16.46	16.07
1968	15.66	15.45	15.33	14.50	15.19	17.39	19.34	19.23	18.98	18.91	18.70	17.90
1969	17.41	17.11	17.02	18.77	18.81	18.48	17.94	18.11	18.81	19.01	19.15	18.98
1970	18.95	18.85	18.65	18.80	18.00	17.38	17.36	17.01	16.81	17.44	17.12	16.66
1971	16.12	16.03	15.68	15.29	15.10	15.04	16.05	18.67	18.75	18.90	18.56	18.04
1972	17.43	17.48	17.13	17.07	18.25	18.79	19.09	18.85	18.63	17.99	17.58	17.43
1973	17.36	17.39	17.01	16.96	17.35	17.87	19.32	19.34	19.29	18.76	18.00	17.54
1974	17.13	16.72	15.88	15.39	15.28	15.18	17.00	19.30	19.34	18.51	17.81	17.42
1975	17.07	16.89	16.42	15.64	15.61	17.03	19.29	19.18	18.61	18.40	18.20	17.47
1976	17.14	16.66	15.93	15.33	15.23	18.29	19.31	18.95	18.95	18.34	17.72	17.42
1977	17.30	17.07	16.57	15.67	15.23	15.33	15.64	15.94	16.99	18.65	18.11	18.31
1978	18.60	18.47	18.53	17.78	17.56	17.50	18.93	19.02	18.81	18.36	17.60	17.25
1979	17.47	18.57	17.84	17.25	17.18	18.97	18.46	18.21	18.22	19.09	18.83	18.10
1980	17.72	17.39	17.09	17.06	17.35	17.19	16.77	16.19	16.17	15.84	15.61	15.74
1981	15.65	15.66	15.37	15.02	14.50	14.50	14.50	15.12	15.89	17.18	17.01	16.49
1982	16.11	15.77	15.64	15.86	16.16	17.39	19.31	19.23	19.08	18.31	17.72	17.43
1983	17.34	18.19	19.15	19.03	18.10	18.08	18.29	18.39	19.04	18.83	18.73	18.47
1984	18.52	18.16	17.65	17.41	17.13	17.15	17.25	17.37	17.35	17.73	17.40	18.27
1985	17.55	17.19	16.67	16.47	16.33	16.05	17.05	17.07	17.60	18.85	18.14	17.55
1986	17.33	17.06	16.49	15.58	15.13	15.06	17.25	18.71	18.60	18.46	17.83	17.40
1987	17.42	17.41	17.31	17.98	18.05	17.37	17.18	16.80	16.78	17.45	17.45	17.45
1988	17.37	17.36	17.32	17.58	17.09	16.59	16.41	17.07	17.22	16.69	16.34	15.80
1989	15.56	15.67	15.45	15.25	15.35	15.38	15.68	15.58	16.43	16.98	17.69	17.46
1990	17.26	17.11	16.79	16.01	15.33	15.49	16.68	17.69	18.89	18.86	18.10	17.44
1991	17.32	17.32	17.40	19.06	18.85	18.89	19.31	19.23	19.04	18.71	17.93	17.34
1992	17.00	16.65	16.02	15.48	15.09	15.10	17.81	18.63	18.66	18.07	17.59	17.18
1993	16.98	17.11	16.88	19.30	18.19	17.46	17.26	17.03	17.04	16.47	15.83	15.49
1994	15.48	15.45	15.42	15.19	15.04	15.21	17.54	17.43	17.97	18.69	18.33	19.12
1995	18.96	18.78	18.71	18.67	18.15	17.78	17.40	17.42	19.35	19.27	18.57	17.82
1996	17.44	17.13	17.01	18.79	18.25	18.27	18.48	18.37	17.90	17.45	16.98	16.61
1997	16.27	15.80	15.43	15.32	16.31	16.08	16.43	17.71	18.78	18.26	17.99	18.63
1998	19.03	19.10	19.12	18.98	18.26	17.57	17.40	17.37	18.01	18.55	18.07	17.48
MIN	15.48	15.45	15.33	14.50	14.50	14.50	14.50	15.12	15.89	15.84	15.61	15.49

**TFMCA ISOLATION Run** (07/06/01)

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	19.48	19.44	19.38	19.31	19.30	18.95	17.53	16.45	15.75
1944	19.48	19.36	19.36	19.35	19.29	18.82	18.25	17.10	15.50
1945	19.57	19.43	19.39	19.32	19.30	19.07	18.73	17.41	15.58
1946	19.80	19.47	19.45	19.39	19.31	18.97	18.10	17.29	15.27
1947	19.63	19.47	19.47	19.37	19.31	18.98	18.35	17.55	17.55
1948	19.57	19.40	19.38	19.35	19.34	19.21	19.01	18.38	17.54
1949	19.47	19.39	19.36	19.12	18.94	18.69	17.85	17.41	16.85
1950	19.54	19.49	19.39	19.36	19.31	18.43	18.26	17.28	17.00
1951	19.49	19.40	19.30	19.22	18.89	17.93	17.14	16.17	15.83
1952	19.57	19.48	19.30	19.13	19.06	18.69	18.32	17.90	17.90
1953	19.52	19.46	19.42	19.07	19.00	18.56	17.98	17.49	17.21
1954	19.58	19.43	19.38	19.33	19.21	18.95	18.59	17.94	17.03
1955	19.50	19.41	19.35	19.31	18.80	18.48	18.24	18.05	17.99
1956	19.53	19.41	19.32	19.15	18.57	18.03	17.41	17.35	15.50
1957	19.69	19.45	19.41	19.27	19.10	18.89	18.02	17.71	15.37
1958	19.51	19.41	19.40	19.32	19.25	18.58	17.79	17.40	17.40
1959	19.51	19.41	19.36	19.12	18.72	18.01	17.42	17.41	17.41
1960	19.59	19.40	19.35	19.35	19.29	18.71	18.71	17.90	17.90
1961	19.60	19.45	19.40	19.30	19.05	18.93	18.50	17.30	16.77
1962	18.11	17.93	17.73	17.61	17.51	17.33	16.96	15.66	15.01
1963	19.57	19.45	19.36	19.35	19.32	18.53	17.45	16.90	14.50
1964	19.48	19.37	19.35	19.25	19.02	18.92	18.32	17.39	16.33
1965	19.51	19.36	19.26	19.03	18.75	17.75	17.12	16.92	15.73
1966	19.54	19.46	19.37	19.03	18.68	18.36	18.11	18.11	15.54
1967	19.59	19.43	19.33	19.26	19.06	19.00	18.06	17.02	15.26
1968	17.34	17.30	17.28	17.13	16.95	16.95	16.13	15.45	14.50
1969	19.56	19.50	19.35	19.35	19.34	18.91	18.53	17.09	17.02
1970	19.55	19.45	19.41	19.24	19.02	18.95	18.83	18.39	17.94
1971	18.02	17.83	17.61	17.44	17.36	16.81	16.81	16.03	15.10
1972	19.54	19.45	19.38	19.17	18.90	18.60	17.60	17.07	15.04
1973	19.54	19.40	19.33	19.31	18.97	18.66	17.58	17.36	16.96
1974	19.51	19.39	19.36	19.34	19.33	18.93	17.97	16.70	15.28
1975	19.57	19.50	19.43	19.35	19.30	18.30	17.41	16.49	15.18
1976	19.47	19.34	19.31	19.29	19.18	18.61	17.98	16.66	15.23
1977	19.55	19.45	19.35	19.31	19.10	18.95	17.72	17.05	15.23
1978	19.50	19.43	19.25	18.88	18.50	18.31	18.11	16.83	15.33
1979	19.50	19.38	19.33	19.31	18.95	18.50	17.56	17.25	17.18
1980	19.52	19.43	19.38	19.10	19.04	18.21	18.21	17.39	17.06
1981	17.40	17.31	17.29	17.19	16.77	16.17	15.61	15.61	14.50
1982	17.50	17.43	17.40	17.27	17.15	16.40	15.79	15.64	14.50
1983	19.56	19.44	19.41	19.35	19.31	18.81	17.65	17.34	17.34
1984	19.51	19.47	19.27	19.05	18.87	18.59	18.47	18.13	17.13
1985	19.04	18.88	18.71	18.38	17.79	17.40	17.35	17.15	16.33
1986	19.47	19.47	19.37	19.23	18.61	17.60	17.22	16.77	15.13
1987	19.38	19.11	19.03	18.91	18.60	18.33	17.40	17.31	15.06
1988	18.07	17.99	17.87	17.72	17.51	17.43	17.32	16.78	16.78
1989	17.67	17.59	17.48	17.44	17.12	16.64	16.34	15.56	15.25
1990	18.77	18.63	18.50	18.15	17.52	17.22	16.81	15.65	15.33
1991	19.54	19.43	19.28	19.11	18.89	17.96	17.32	17.32	15.49
1992	19.52	19.50	19.38	19.35	19.31	19.04	17.93	16.65	15.11
1993	19.45	19.38	19.32	19.30	18.66	18.07	17.24	16.88	15.10
1994	18.18	17.98	17.79	17.46	17.26	17.03	15.83	15.45	15.04
1995	19.51	19.43	19.35	19.34	18.97	18.78	18.59	17.97	15.21
1996	19.59	19.51	19.47	19.36	19.35	18.36	17.44	17.13	17.01
1997	19.16	19.01	18.93	18.60	18.48	17.91	16.98	15.77	15.32
1998	19.48	19.39	19.31	19.17	19.12	19.03	18.63	17.99	16.08
MEAN	19.26	19.14	19.06	18.93	18.73	18.29	17.69	17.04	16.04
MAX	19.80	19.51	19.47	19.39	19.35	19.21	19.01	18.39	17.99
MIN	17.34	17.30	17.28	17.13	16.77	16.17	15.61	15.45	14.50
STDV	0.63	0.63	0.65	0.67	0.72	0.75	0.78	0.78	1.06
SKEW	-2.07	-2.05	-1.93	-1.75	-1.44	-1.16	-0.79	-0.54	0.38

**TFMCA ISOLATION Run** (07/06/01)

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	15.50	15.67	15.76	16.00	16.23	16.57	17.14	18.42	19.48
1944	17.10	17.18	17.26	17.33	17.51	18.14	18.68	19.42	19.57
1945	15.27	15.35	15.43	15.79	16.63	17.54	18.79	19.41	19.80
1946	16.72	16.86	17.02	17.11	17.41	18.03	18.60	19.50	19.54
1947	17.55	17.65	17.78	18.02	18.68	19.43	19.46	19.55	19.63
1948	17.41	17.43	17.48	17.72	18.12	18.97	19.05	19.25	19.47
1949	16.85	16.93	17.06	17.22	17.59	18.07	19.11	19.24	19.54
1950	15.83	16.08	16.10	16.16	16.69	17.18	17.48	18.70	19.50
1951	17.01	17.07	17.11	17.57	18.29	18.98	19.45	19.45	19.49
1952	17.55	17.72	17.81	18.12	18.45	19.26	19.42	19.42	19.57
1953	17.21	17.30	17.35	17.54	17.92	18.51	19.05	19.08	19.52
1954	17.03	17.11	17.14	17.37	17.85	18.45	19.38	19.49	19.58
1955	17.35	17.44	17.50	17.68	18.15	18.40	19.07	19.18	19.50
1956	15.37	15.44	15.51	15.64	16.16	17.26	17.99	18.66	19.58
1957	17.71	17.78	17.90	18.13	18.41	19.01	19.40	19.41	19.69
1958	17.40	17.45	17.55	17.67	18.08	18.86	19.45	19.50	19.51
1959	17.41	17.44	17.46	17.54	17.59	18.24	19.48	19.55	19.55
1960	17.90	18.01	18.14	18.49	18.82	19.36	19.52	19.59	19.60
1961	16.77	16.89	16.98	17.18	17.37	17.77	18.11	18.23	19.48
1962	14.50	15.01	15.02	15.13	15.46	15.89	16.35	17.29	19.57
1963	16.32	16.44	16.55	16.75	16.95	17.54	17.68	18.10	19.52
1964	16.92	17.02	17.08	17.22	17.31	17.73	18.99	19.47	19.51
1965	15.54	15.63	15.82	16.09	16.30	16.95	17.30	18.73	19.34
1966	17.70	17.87	18.10	18.39	18.50	19.46	19.46	19.47	19.59
1967	15.25	15.34	15.40	15.50	15.87	16.95	17.20	17.45	19.39
1968	14.50	15.07	15.17	15.27	15.51	15.82	16.76	19.47	19.47
1969	17.02	17.09	17.19	17.34	17.80	19.05	19.38	19.42	19.56
1970	16.81	16.89	16.93	17.02	17.41	17.95	19.31	19.47	19.55
1971	15.04	15.11	15.20	15.36	15.59	16.16	16.44	17.50	19.46
1972	17.07	17.14	17.22	17.35	17.68	18.08	18.78	19.54	19.54
1973	16.96	17.05	17.08	17.29	17.47	17.54	17.89	19.37	19.51
1974	15.18	15.26	15.31	15.55	15.66	16.68	17.49	19.02	19.57
1975	15.61	15.75	15.83	16.05	16.67	17.08	17.64	19.41	19.51
1976	15.23	15.31	15.41	15.72	16.27	17.21	18.20	19.45	19.55
1977	15.23	15.28	15.36	15.55	16.36	16.40	17.06	17.74	19.50
1978	17.50	17.62	17.77	18.10	18.16	19.13	19.13	19.29	19.50
1979	17.18	17.25	17.33	17.55	18.02	19.27	19.32	19.44	19.52
1980	16.17	16.27	16.32	16.49	16.76	17.36	17.76	18.07	19.41
1981	14.50	14.50	15.02	15.06	15.10	15.21	15.73	16.15	17.50
1982	15.64	15.71	15.87	16.07	16.11	16.43	17.04	19.37	19.48
1983	17.34	17.40	17.46	17.61	17.90	18.97	19.47	19.56	19.56
1984	17.13	17.19	17.24	17.39	17.46	17.69	17.93	19.42	19.51
1985	16.05	16.19	16.33	16.63	17.18	17.22	17.29	18.75	19.44
1986	15.06	15.11	15.18	15.35	16.01	17.11	17.54	18.97	19.47
1987	16.78	16.89	17.00	17.16	17.38	17.88	18.71	18.94	19.07
1988	16.41	16.50	16.59	16.90	17.14	17.67	17.83	18.07	18.07
1989	15.25	15.31	15.38	15.50	15.68	15.90	16.01	16.48	17.21
1990	15.33	15.41	15.56	15.65	16.21	17.06	17.41	18.10	19.45
1991	17.32	17.37	17.40	17.43	17.96	18.35	19.45	19.46	19.54
1992	15.09	15.14	15.22	15.34	15.77	16.77	17.38	19.32	19.52
1993	16.88	17.02	17.09	17.21	17.26	17.77	19.30	19.45	19.45
1994	15.04	15.13	15.19	15.33	15.39	15.90	15.90	17.80	19.42
1995	17.40	17.45	17.58	17.84	18.15	19.14	19.31	19.46	19.51
1996	17.01	17.10	17.17	17.41	17.83	18.52	19.14	19.16	19.59
1997	15.32	15.38	15.45	15.53	15.85	16.64	16.69	17.59	19.45
1998	17.37	17.43	17.51	17.62	17.80	18.77	19.45	19.48	19.52
MEAN	16.39	16.49	16.58	16.77	17.10	17.74	18.26	18.90	19.41
MAX	17.90	18.01	18.14	18.49	18.82	19.46	19.52	19.59	19.80
MIN	14.50	14.50	15.02	15.06	15.10	15.21	15.73	16.15	17.21

**TFMCA ISOLATION Run** (07/06/01)

WEEKLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSON (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.00	0.10	0.01
1.8 - 2.0	0.00	0.00	0.00	0.00	0.03	0.01
1.6 - 1.8	0.00	0.00	0.00	0.00	0.03	0.05
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.02
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.00	0.03	0.01
.75 - 1.0	0.00	0.00	0.00	0.00	0.10	0.07
.50 - .75	0.00	0.00	0.00	0.00	0.00	0.19
.25 - .50	0.00	0.00	0.00	0.00	11.50	0.69
.00 - .25	0.00	0.00	0.00	0.00	88.21	98.95

**TFMCA ISOLATION Run** (07/06/01)

MONTHLY WATER LEVEL RECESSON RATES IN PERCENTAGE

INITIAL STAGE

RECESSON (FT)	>23.0	22.0-23.0	21.0-22.0	20.0-21.0	19.0-20.0	<19.0
> 2.0	0.00	0.00	0.00	0.00	0.03	0.08
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.03
1.6 - 1.8	0.00	0.00	0.00	0.00	0.03	0.02
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.01
1.2 - 1.4	0.00	0.00	0.00	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.00	0.00	1.44	0.08
.75 - 1.0	0.00	0.00	0.00	0.00	8.30	5.57
.50 - .75	0.00	0.00	0.00	0.00	16.91	30.23
.25 - .50	0.00	0.00	0.00	0.00	32.74	38.14
.00 - .25	0.00	0.00	0.00	0.00	40.56	25.83

**TFMCA PREFERRED ALTERNATIVE** TFMCA STAGE FT NGVD (10/01/01)

YEAR	MAX	MIN	RANGE	MEAN
1942	20.59	17.36	3.23	19.30
1943	20.53	17.46	3.07	19.01
1944	20.70	18.50	2.20	19.62
1945	20.99	17.07	3.92	19.31
1946	20.76	18.33	2.43	19.54
1947	20.70	18.92	1.78	20.09
1948	20.53	18.78	1.75	19.57
1949	20.67	18.19	2.48	19.46
1950	20.57	17.77	2.80	18.86
1951	20.67	18.46	2.21	19.76
1952	20.63	18.82	1.81	19.77
1953	20.68	18.70	1.98	19.64
1954	20.58	18.45	2.13	19.67
1955	20.61	18.74	1.87	19.40
1956	20.89	17.08	3.81	18.96
1957	20.62	18.80	1.82	19.76
1958	20.57	18.85	1.72	19.64
1959	20.68	18.93	1.75	19.99
1960	20.75	19.00	1.75	20.00
1961	19.31	18.14	1.17	18.77
1962	20.71	15.81	4.90	18.23
1963	20.58	17.97	2.61	19.12
1964	20.59	18.39	2.20	19.41
1965	20.60	17.36	3.24	18.75
1966	20.71	18.77	1.94	19.79
1967	18.83	17.06	1.77	17.89
1968	20.64	15.24	5.40	18.44
1969	20.66	18.51	2.15	19.66
1970	20.57	18.20	2.37	19.18
1971	20.65	16.47	4.18	18.50
1972	20.65	18.60	2.05	19.47
1973	20.62	18.57	2.05	19.53
1974	20.70	16.70	4.00	18.76
1975	20.56	17.64	2.92	19.18
1976	20.70	17.07	3.63	19.09
1977	20.52	17.07	3.45	18.52
1978	20.60	18.63	1.97	19.55
1979	20.63	18.52	2.11	19.70
1980	19.15	17.45	1.70	18.42
1981	17.56	13.85	3.71	15.80
1982	20.57	13.96	6.61	17.61
1983	20.67	18.82	1.85	19.87
1984	20.45	18.46	1.99	19.12
1985	20.58	17.69	2.89	18.84
1986	20.07	16.90	3.17	18.67
1987	19.73	18.18	1.55	18.94
1988	19.32	17.86	1.46	18.63
1989	18.43	15.86	2.57	17.21
1990	20.66	16.65	4.01	18.45
1991	20.64	18.66	1.98	19.83
1992	19.96	16.78	3.18	18.53
1993	20.53	17.55	2.98	18.80
1994	20.63	15.80	4.81	18.04
1995	20.72	18.84	1.88	19.83
1996	19.98	18.19	1.79	19.06
1997	20.51	17.06	3.45	18.48
1998	20.61	18.77	1.84	19.75

MEAN ANNUAL STAGE = 19.07

MEAN ANNUAL RANGE = 2.67

**TFMCA PREFERRED ALTERNATIVE** TFMCA STAGE DURATION(10/01/01)

Stage Duration Data for Station Elevations.  
 1- 1-1942 through 31-12-1998  
 Total of 20819 Days

Maximum Elevation was 20.99feet  
 Minimum Elevation was 13.85 feet during Period Requested

Obs	Elevation	Days	Exceedence Percent	Average Depth
158	13.80	20819	100.00	5.27
159	13.90	20813	99.97	5.17
160	14.00	20784	99.83	5.07
161	14.10	20771	99.77	4.97
162	14.20	20763	99.73	4.87
163	14.30	20753	99.68	4.77
164	14.40	20741	99.63	4.67
165	14.50	20726	99.55	4.57
166	14.60	20705	99.45	4.47
167	14.70	20668	99.27	4.37
168	14.80	20655	99.21	4.27
169	14.90	20648	99.18	4.17
170	15.00	20637	99.13	4.07
171	15.10	20622	99.05	3.97
172	15.20	20592	98.91	3.87
173	15.30	20568	98.79	3.77
174	15.40	20538	98.65	3.67
175	15.50	20517	98.55	3.57
176	15.60	20502	98.48	3.47
177	15.70	20488	98.41	3.37
178	15.80	20475	98.35	3.27
179	15.90	20451	98.23	3.17
180	16.00	20419	98.08	3.07
181	16.10	20369	97.84	2.97
182	16.20	20292	97.47	2.87
183	16.30	20225	97.15	2.77
184	16.40	20172	96.89	2.67
185	16.50	20097	96.53	2.57
186	16.60	20044	96.28	2.47
187	16.70	19987	96.00	2.37
188	16.80	19886	95.52	2.27
189	16.90	19802	95.12	2.17
190	17.00	19723	94.74	2.07
191	17.10	19622	94.25	1.97
192	17.20	19471	93.53	1.87
193	17.30	19258	92.50	1.77
194	17.40	19042	91.46	1.67
195	17.50	18810	90.35	1.57
196	17.60	18576	89.23	1.47
197	17.70	18377	88.27	1.37
198	17.80	18158	87.22	1.27
199	17.90	17906	86.01	1.17
200	18.00	17681	84.93	1.07
201	18.10	17396	83.56	0.97
202	18.20	17040	81.85	0.87
203	18.30	16602	79.74	0.77
204	18.40	16205	77.84	0.67
205	18.50	15757	75.69	0.57
206	18.60	15259	73.29	0.47
207	18.70	14676	70.49	0.37
208	18.80	14046	67.47	0.27
209	18.90	12983	62.36	0.17
210	19.00	11489	55.19	0.07
211	19.10	10501	50.44	-0.03
212	19.20	9902	47.56	-0.13

213	19.30	9363	44.97	-0.23
214	19.40	8746	42.01	-0.33
215	19.50	8117	38.99	-0.43
216	19.60	7528	36.16	-0.53
217	19.70	6979	33.52	-0.63
218	19.80	6458	31.02	-0.73
219	19.90	5898	28.33	-0.83
220	20.00	5334	25.62	-0.93
221	20.10	4632	22.25	-1.03
222	20.20	3882	18.65	-1.13
223	20.30	3273	15.72	-1.23
224	20.40	2355	11.31	-1.33
225	20.50	1006	4.83	-1.43
226	20.60	181	0.87	-1.53
227	20.70	19	0.09	-1.63
228	20.80	3	0.01	-1.73
229	20.90	1	0.00	-1.83

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**TFMCA PREFERRED ALTERNATIVE** AVERAGE MONTHLY STAGE (10/01/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.54	17.55	18.56	19.36	19.50	20.25	20.41	20.42	20.33	19.77	19.05	18.80
1943	18.54	18.29	18.20	18.03	17.79	17.56	18.38	20.25	20.48	20.15	20.30	20.02
1944	19.39	18.87	18.60	18.81	18.89	18.97	20.30	20.44	20.46	20.44	20.24	19.99
1945	19.68	19.08	18.70	18.26	17.77	17.41	19.29	20.44	20.61	20.48	20.23	19.72
1946	19.11	18.88	18.89	18.52	18.65	19.24	19.88	20.43	20.49	20.41	20.16	19.77
1947	19.13	19.34	20.32	20.17	19.72	20.00	20.48	20.48	20.53	20.31	20.33	20.16
1948	19.91	19.75	19.29	19.09	19.49	19.02	18.85	19.12	19.88	20.24	20.28	19.95
1949	19.87	19.26	18.78	18.56	18.41	18.74	19.83	19.60	20.49	20.50	20.00	19.49
1950	19.25	18.96	18.83	18.80	18.60	18.37	18.13	17.83	18.24	18.84	20.38	20.06
1951	19.35	19.13	18.74	19.50	20.10	19.43	20.01	20.38	20.37	20.24	19.95	19.91
1952	19.23	19.58	20.07	20.12	19.73	19.12	19.11	19.56	20.42	20.41	20.30	19.61
1953	19.08	19.04	18.85	19.41	19.50	19.20	19.36	19.60	20.49	20.38	20.33	20.38
1954	19.86	19.25	18.91	18.59	18.91	20.11	20.44	19.74	19.63	20.43	20.17	20.00
1955	19.62	19.71	19.15	19.37	19.11	18.89	19.03	18.86	19.52	20.45	19.84	19.28
1956	19.15	18.89	18.48	18.03	17.65	17.21	18.09	18.98	20.37	20.43	20.16	20.06
1957	19.49	19.02	19.30	19.86	20.15	19.93	20.16	20.48	20.51	20.06	19.21	18.93
1958	19.73	20.30	20.33	20.32	19.86	19.05	18.96	19.50	19.83	19.67	19.28	18.97
1959	19.00	19.00	19.48	20.42	19.94	20.39	20.44	20.27	20.35	20.23	20.43	19.94
1960	19.35	19.42	20.00	20.39	19.96	19.60	20.24	20.45	20.43	20.34	20.18	19.61
1961	19.08	18.86	18.56	18.52	18.47	18.94	19.01	18.94	19.11	18.82	18.60	18.29
1962	18.03	17.74	17.43	17.14	16.51	16.06	16.70	19.06	20.49	20.36	19.89	19.26
1963	18.89	18.94	18.94	18.53	18.21	18.15	18.79	18.79	19.23	20.44	20.35	20.19
1964	20.28	20.19	19.66	18.94	18.88	18.73	18.53	18.85	20.33	20.07	19.45	19.00
1965	18.70	18.51	18.30	18.25	17.84	17.51	17.99	19.35	19.08	19.68	20.23	19.52
1966	19.47	19.65	19.97	19.39	19.03	20.15	20.29	20.45	20.40	20.13	19.50	18.98
1967	18.71	18.61	18.35	17.92	17.35	17.18	17.81	17.96	17.84	18.00	17.63	17.32
1968	17.03	16.70	16.36	15.66	15.83	18.91	20.42	20.44	20.18	20.30	20.01	19.34
1969	18.95	18.71	19.59	19.91	19.82	19.53	19.06	19.37	19.86	20.42	20.46	20.23
1970	20.38	20.12	19.86	20.05	19.30	18.83	18.87	18.55	18.28	18.87	18.74	18.40
1971	18.12	18.06	17.90	17.47	16.91	16.64	17.37	19.45	20.06	20.30	20.17	19.46
1972	18.95	19.04	18.86	18.83	19.53	20.21	20.43	20.17	20.13	19.45	18.99	18.98
1973	18.98	18.99	18.72	18.95	18.97	19.80	20.46	20.45	20.47	20.14	19.44	19.02
1974	18.81	18.51	18.13	17.63	17.17	16.89	18.75	20.35	20.52	20.11	19.27	18.95
1975	18.77	18.59	18.40	18.00	17.87	19.35	20.41	20.40	20.05	19.79	19.53	18.94
1976	18.65	18.36	18.02	17.50	17.62	19.77	20.47	20.24	20.41	19.91	19.18	18.96
1977	18.90	18.75	18.51	18.03	17.47	17.46	17.24	17.39	19.30	19.96	19.51	19.73
1978	19.87	19.65	19.59	18.99	18.94	19.35	20.16	20.45	20.06	19.67	19.08	18.75
1979	19.75	19.96	19.34	18.72	19.28	20.10	19.81	19.41	20.27	20.35	19.98	19.47
1980	19.03	18.95	18.81	18.78	18.91	18.75	18.47	18.19	18.12	17.91	17.61	17.54
1981	17.40	17.24	16.84	16.25	15.46	14.79	14.04	14.11	15.69	16.21	16.07	15.58
1982	15.14	14.66	14.36	14.62	15.32	17.95	20.20	20.47	20.36	19.88	19.18	18.99
1983	19.10	20.34	20.43	20.20	19.60	19.20	19.30	19.71	20.31	20.24	20.07	19.96
1984	19.96	19.38	19.04	18.83	18.67	18.54	18.90	18.98	19.19	19.19	19.06	19.63
1985	19.00	18.70	18.35	18.28	18.11	18.07	18.33	18.44	19.79	20.34	19.62	19.05
1986	18.88	18.69	18.38	17.91	17.32	17.38	18.87	19.47	19.64	19.60	19.13	18.79
1987	18.88	18.93	19.02	19.56	19.26	18.73	18.60	18.38	18.86	18.98	19.07	19.01
1988	18.86	18.84	19.06	18.99	18.77	18.33	18.29	18.68	18.88	18.53	18.27	18.02
1989	17.80	17.72	17.51	17.08	16.76	16.35	16.19	16.20	16.49	17.89	18.30	18.29
1990	18.28	18.14	18.02	17.57	16.98	16.85	17.67	18.95	20.04	20.38	19.58	18.97
1991	18.75	18.94	19.50	20.36	20.15	20.33	20.48	20.46	20.31	20.32	19.42	18.89
1992	18.61	18.38	18.06	17.63	17.08	17.30	19.07	19.45	19.78	19.33	18.90	18.70
1993	18.51	18.55	19.00	20.39	19.73	18.99	18.86	18.68	18.74	18.41	18.06	17.71
1994	17.48	17.33	17.11	16.61	16.13	16.74	17.79	17.97	19.05	19.85	19.88	20.48
1995	20.21	20.13	20.03	20.05	19.66	19.09	18.95	19.60	20.47	20.60	20.02	19.24
1996	18.99	18.75	19.04	19.83	19.40	19.15	19.49	19.29	18.95	18.93	18.59	18.34
1997	18.11	17.86	17.52	17.25	17.33	17.23	17.60	19.44	20.18	19.70	19.46	20.05
1998	20.29	20.42	20.41	20.32	19.82	19.01	18.92	19.13	20.04	20.13	19.54	19.00
MEAN	18.94	18.83	18.74	18.68	18.48	18.58	19.02	19.34	19.73	19.77	19.48	19.19
MAX	20.38	20.42	20.43	20.42	20.15	20.39	20.48	20.48	20.61	20.60	20.46	20.48
MIN	15.14	14.66	14.36	14.62	15.32	14.79	14.04	14.11	15.69	16.21	16.07	15.58

**TEMCA PREFERRED ALTERNATIVE** MAXIMUM DAILY STAGE (10/01/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.66	18.25	18.90	19.86	19.83	20.57	20.51	20.53	20.59	20.30	19.35	18.89
1943	18.69	18.45	18.28	18.19	18.01	17.66	19.63	20.53	20.53	20.48	20.49	20.24
1944	19.75	19.02	18.70	19.23	19.15	19.41	20.70	20.61	20.56	20.68	20.48	20.29
1945	19.94	19.37	18.89	18.48	18.08	18.08	20.25	20.55	20.99	20.63	20.55	20.10
1946	19.38	18.99	18.98	18.76	19.17	19.48	20.63	20.53	20.57	20.76	20.46	20.11
1947	19.43	19.88	20.52	20.32	20.20	20.66	20.62	20.58	20.70	20.45	20.52	20.39
1948	20.18	20.01	19.58	19.51	19.78	19.25	18.93	19.36	20.48	20.53	20.48	20.11
1949	20.16	19.52	18.97	18.73	18.68	19.89	20.00	20.36	20.67	20.61	20.24	19.81
1950	19.59	19.03	19.00	18.96	18.72	18.61	18.29	17.94	18.37	19.92	20.57	20.34
1951	19.74	19.34	18.94	20.36	20.53	19.73	20.38	20.55	20.58	20.67	20.51	20.25
1952	19.54	19.94	20.40	20.29	20.22	19.48	19.35	20.10	20.63	20.63	20.60	19.90
1953	19.29	19.21	18.97	19.99	19.92	19.41	19.60	20.38	20.61	20.63	20.68	20.59
1954	20.11	19.54	19.01	18.74	19.17	20.46	20.58	20.09	20.50	20.58	20.54	20.29
1955	19.99	19.91	19.52	19.61	19.49	19.27	19.38	18.96	20.30	20.61	20.34	19.50
1956	19.48	19.00	18.72	18.22	17.88	17.37	18.45	19.51	20.70	20.89	20.45	20.38
1957	19.85	19.17	19.44	20.25	20.33	20.12	20.56	20.58	20.60	20.62	19.56	19.02
1958	20.49	20.55	20.57	20.54	20.43	19.36	19.02	19.70	20.09	19.85	19.56	19.03
1959	19.08	19.10	20.56	20.61	20.25	20.68	20.50	20.55	20.60	20.47	20.55	20.23
1960	19.74	19.76	20.53	20.57	20.59	20.13	20.62	20.60	20.75	20.57	20.53	19.92
1961	19.25	18.97	18.71	18.72	18.67	19.13	19.12	19.12	19.31	18.96	18.71	18.46
1962	18.15	17.86	17.59	17.34	16.84	16.35	17.27	20.25	20.71	20.63	20.05	19.61
1963	18.96	19.09	19.02	18.79	18.38	18.34	18.88	19.10	20.25	20.57	20.58	20.40
1964	20.47	20.54	20.12	19.29	19.00	18.87	18.68	19.75	20.59	20.38	19.82	19.18
1965	18.85	18.59	18.47	18.34	18.14	17.62	19.11	19.59	19.24	20.60	20.59	19.75
1966	19.79	20.40	20.45	19.57	19.31	20.60	20.51	20.57	20.71	20.42	19.88	19.13
1967	18.83	18.68	18.57	18.20	17.62	17.51	17.90	18.08	18.08	18.11	17.82	17.42
1968	17.18	16.83	16.63	16.05	16.59	20.19	20.50	20.55	20.39	20.64	20.18	19.73
1969	19.07	18.83	20.44	20.11	19.94	19.73	19.31	19.65	20.50	20.66	20.63	20.48
1970	20.57	20.35	20.38	20.33	19.74	19.01	18.95	18.78	18.68	18.93	18.89	18.55
1971	18.28	18.17	18.08	17.72	17.16	16.84	18.52	19.76	20.46	20.58	20.65	19.73
1972	19.12	19.16	19.10	19.39	19.79	20.65	20.56	20.41	20.50	19.77	19.11	19.03
1973	19.06	19.02	18.91	19.20	19.14	20.38	20.52	20.50	20.62	20.53	19.84	19.12
1974	18.96	18.64	18.37	17.86	17.36	17.37	19.95	20.46	20.70	20.63	19.61	19.02
1975	18.91	18.64	18.54	18.23	18.11	20.24	20.56	20.53	20.42	20.16	19.78	19.16
1976	18.77	18.52	18.25	17.75	18.86	20.51	20.55	20.43	20.70	20.38	19.51	19.05
1977	18.97	18.86	18.65	18.30	17.75	17.62	17.38	17.51	20.52	20.31	19.83	20.19
1978	20.07	19.82	19.88	19.31	19.10	19.82	20.60	20.60	20.21	19.97	19.40	18.94
1979	20.52	20.35	19.73	18.93	20.09	20.19	20.08	19.58	20.63	20.49	20.20	19.80
1980	19.15	19.05	18.98	19.07	19.04	18.87	18.67	18.37	18.26	18.09	17.70	17.62
1981	17.56	17.35	17.09	16.60	15.84	15.16	14.39	14.66	16.45	16.34	16.20	15.85
1982	15.31	14.91	14.71	15.21	16.30	19.22	20.57	20.55	20.54	20.45	19.46	19.11
1983	19.59	20.67	20.59	20.33	20.12	19.39	19.53	20.40	20.51	20.59	20.50	20.42
1984	20.45	19.66	19.35	18.98	18.79	18.68	19.05	19.05	19.62	19.59	19.77	20.00
1985	19.23	18.81	18.55	18.51	18.31	18.36	18.43	18.66	20.54	20.58	19.95	19.27
1986	18.97	18.76	18.55	18.19	17.60	18.00	19.41	19.63	20.07	19.93	19.48	18.90
1987	18.96	19.01	19.26	19.73	19.56	18.93	18.67	18.55	19.16	19.14	19.29	19.24
1988	18.89	18.87	19.32	19.11	19.05	18.49	18.50	18.92	19.01	18.70	18.41	18.14
1989	17.95	17.88	17.67	17.28	16.99	16.50	16.36	16.46	16.81	18.42	18.39	18.43
1990	18.37	18.24	18.20	17.81	17.28	17.19	18.19	20.08	20.38	20.66	19.96	19.19
1991	18.82	19.17	20.37	20.53	20.54	20.56	20.53	20.64	20.55	20.63	19.81	19.03
1992	18.74	18.51	18.26	17.86	17.39	18.14	19.48	19.90	19.96	19.64	18.96	18.86
1993	18.68	18.64	20.10	20.53	20.36	19.30	18.96	18.78	18.81	18.59	18.25	17.88
1994	17.59	17.41	17.35	16.86	16.42	17.51	17.94	18.52	19.95	20.08	20.42	20.63
1995	20.42	20.49	20.33	20.25	20.13	19.30	19.15	20.31	20.55	20.72	20.35	19.61
1996	19.16	18.91	19.61	19.98	19.82	19.44	19.73	19.54	19.11	19.04	18.79	18.47
1997	18.18	18.00	17.72	17.53	17.47	17.43	18.21	20.24	20.50	20.14	19.78	20.51
1998	20.55	20.56	20.58	20.54	20.24	19.28	19.04	19.46	20.61	20.58	19.90	19.14
MAX	20.57	20.67	20.59	20.61	20.59	20.68	20.70	20.64	20.99	20.89	20.68	20.63

**TMCA PREFERRED ALTERNATIVE** MINIMUM DAILY STAGE (10/01/01)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1942	17.36	17.36	18.24	18.85	19.31	19.45	20.38	20.38	20.03	19.37	18.84	18.70
1943	18.42	18.15	18.10	17.88	17.64	17.46	17.47	19.67	20.44	19.86	19.92	19.77
1944	19.04	18.71	18.50	18.59	18.63	18.51	19.46	20.38	20.38	20.17	20.03	19.75
1945	19.39	18.91	18.50	18.10	17.46	17.07	18.14	20.25	20.45	20.21	20.03	19.37
1946	18.97	18.77	18.78	18.33	18.34	18.97	19.23	20.33	20.44	20.05	19.98	19.45
1947	18.97	18.92	19.85	20.06	19.43	19.30	20.43	20.43	20.39	20.14	20.08	20.04
1948	19.66	19.46	18.99	18.79	19.28	18.86	18.80	18.78	18.98	20.00	20.04	19.71
1949	19.54	18.98	18.59	18.38	18.19	18.30	19.68	19.29	20.36	20.29	19.81	19.26
1950	18.96	18.86	18.70	18.64	18.51	18.14	17.96	17.77	17.92	18.18	19.97	19.76
1951	19.01	18.95	18.56	18.46	19.76	19.25	19.38	20.15	20.07	19.84	19.42	19.57
1952	18.99	19.13	19.64	20.01	19.40	18.90	18.82	19.25	20.13	20.11	19.93	19.31
1953	18.96	18.95	18.70	18.84	19.01	18.94	19.15	19.22	20.38	20.12	20.01	20.13
1954	19.56	19.00	18.75	18.45	18.65	19.21	20.13	19.37	19.12	20.16	19.84	19.79
1955	19.30	19.56	18.92	19.09	18.89	18.74	18.82	18.76	18.88	20.31	19.46	19.13
1956	18.97	18.74	18.23	17.87	17.39	17.08	17.21	18.50	19.63	20.19	19.95	19.86
1957	19.19	18.92	19.06	19.26	19.99	19.65	19.62	20.42	20.36	19.59	18.96	18.80
1958	18.99	20.07	20.18	20.09	19.40	18.89	18.88	18.98	19.49	19.45	19.02	18.85
1959	18.93	18.95	18.94	20.24	19.72	19.98	20.43	19.86	19.83	19.86	20.23	19.72
1960	19.03	19.00	19.36	20.17	19.50	19.35	19.95	20.29	20.04	20.17	19.93	19.24
1961	18.94	18.72	18.42	18.30	18.24	18.73	18.93	18.79	18.95	18.68	18.47	18.14
1962	17.88	17.61	17.35	16.86	16.16	15.81	16.22	17.41	20.26	20.02	19.64	18.97
1963	18.83	18.77	18.81	18.26	18.02	17.97	18.48	18.59	18.80	20.29	20.12	20.01
1964	19.98	19.91	19.30	18.69	18.76	18.60	18.39	18.49	19.96	19.81	19.16	18.86
1965	18.55	18.42	18.12	18.16	17.52	17.38	17.36	19.15	18.95	19.24	19.77	19.25
1966	19.17	19.31	19.60	19.26	18.77	19.26	20.13	20.30	20.17	19.91	19.14	18.84
1967	18.59	18.50	18.15	17.64	17.08	17.06	17.52	17.83	17.73	17.82	17.43	17.19
1968	16.85	16.59	16.07	15.35	15.24	16.76	20.22	20.34	20.04	19.97	19.76	18.98
1969	18.85	18.59	18.51	19.78	19.68	19.34	18.90	19.05	19.51	20.12	20.29	20.05
1970	20.02	19.90	19.63	19.78	19.00	18.69	18.78	18.36	18.20	18.80	18.56	18.27
1971	17.95	17.90	17.70	17.18	16.62	16.47	16.66	18.66	19.38	19.98	19.70	19.15
1972	18.86	18.97	18.65	18.60	19.29	19.62	20.20	19.94	19.73	19.07	18.89	18.94
1973	18.90	18.92	18.59	18.57	18.81	19.14	20.38	20.43	20.40	19.85	19.08	18.96
1974	18.65	18.38	17.88	17.38	16.91	16.70	17.45	19.98	20.43	19.63	18.99	18.85
1975	18.62	18.51	18.25	17.78	17.64	18.22	20.32	20.30	19.73	19.48	19.18	18.78
1976	18.53	18.21	17.77	17.22	17.07	18.92	20.39	20.03	20.03	19.46	18.94	18.87
1977	18.82	18.65	18.32	17.77	17.25	17.26	17.07	17.16	17.59	19.76	19.20	19.34
1978	19.59	19.45	19.34	18.83	18.76	18.73	19.73	20.14	19.87	19.42	18.85	18.63
1979	18.93	19.67	18.94	18.56	18.52	19.99	19.51	19.19	19.20	20.18	19.83	19.10
1980	18.97	18.84	18.62	18.61	18.81	18.66	18.35	18.01	18.00	17.72	17.52	17.45
1981	17.24	17.10	16.62	15.88	15.19	14.42	13.85	13.88	14.60	16.08	15.86	15.31
1982	14.91	14.35	13.96	14.34	15.08	16.42	19.26	20.33	20.18	19.43	18.94	18.91
1983	18.82	19.40	20.29	20.07	19.15	19.11	19.05	19.13	20.12	19.94	19.80	19.55
1984	19.62	19.21	18.83	18.68	18.47	18.46	18.57	18.89	18.86	18.92	18.79	19.26
1985	18.83	18.56	18.20	18.08	17.89	17.69	18.25	18.26	18.77	19.97	19.25	18.88
1986	18.78	18.56	18.21	17.63	17.02	16.90	17.98	19.28	19.18	19.36	18.90	18.69
1987	18.80	18.84	18.80	19.22	18.94	18.58	18.48	18.19	18.18	18.86	18.92	18.90
1988	18.81	18.80	18.76	18.91	18.50	18.18	18.07	18.43	18.72	18.33	18.15	17.86
1989	17.64	17.57	17.30	16.95	16.52	16.18	16.04	15.86	16.34	16.76	18.22	18.15
1990	18.18	18.07	17.83	17.30	16.72	16.65	17.19	18.10	19.80	19.98	19.22	18.81
1991	18.67	18.66	18.81	20.11	19.95	19.94	20.40	20.33	20.13	19.84	19.05	18.74
1992	18.46	18.27	17.88	17.41	16.78	16.78	18.20	19.00	19.53	18.96	18.85	18.55
1993	18.41	18.48	18.31	20.20	19.31	18.86	18.76	18.57	18.61	18.25	17.89	17.55
1994	17.37	17.25	16.88	16.43	15.82	15.88	17.50	17.70	18.42	19.65	19.29	20.25
1995	20.02	19.83	19.77	19.73	19.18	18.97	18.84	18.87	20.35	20.39	19.64	18.95
1996	18.88	18.58	18.48	19.67	19.07	19.03	19.14	19.01	18.82	18.81	18.39	18.19
1997	18.02	17.73	17.36	17.11	17.21	17.06	17.25	18.20	19.88	19.32	19.04	19.50
1998	20.11	20.22	20.25	20.05	19.32	18.83	18.77	18.88	19.26	19.67	19.17	18.93
MIN	14.91	14.35	13.96	14.34	15.08	14.42	13.85	13.88	14.60	16.08	15.86	15.31

**TFMCA PREFERRED ALTERNATIVE** (10/01/01)

HIGHEST VALUES EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING MAY 31

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	20.59	20.52	20.42	20.38	20.38	20.03	18.84	18.14	17.64
1944	20.53	20.46	20.45	20.45	20.23	19.86	19.23	18.50	17.46
1945	20.70	20.54	20.51	20.41	20.38	20.13	19.70	18.73	17.46
1946	20.99	20.60	20.57	20.50	20.40	20.03	19.09	18.63	17.07
1947	20.76	20.61	20.57	20.48	20.39	20.00	19.29	18.92	18.92
1948	20.70	20.52	20.49	20.44	20.43	20.31	20.08	19.37	18.79
1949	20.53	20.46	20.42	20.17	20.00	19.71	18.98	18.78	18.19
1950	20.67	20.59	20.50	20.46	20.35	19.37	19.26	18.70	18.30
1951	20.57	20.42	20.39	20.23	19.84	19.00	18.46	17.85	17.77
1952	20.67	20.57	20.38	20.26	20.12	19.76	19.42	18.99	18.99
1953	20.63	20.54	20.53	20.19	20.11	19.61	19.03	18.82	18.70
1954	20.68	20.53	20.49	20.46	20.24	20.01	19.26	18.94	18.45
1955	20.58	20.48	20.45	20.39	19.91	19.48	19.16	19.12	18.89
1956	20.61	20.45	20.40	20.31	19.66	19.13	18.76	18.74	17.41
1957	20.89	20.56	20.53	20.29	20.09	19.86	18.96	18.92	17.08
1958	20.62	20.52	20.51	20.42	20.36	19.69	18.96	18.80	18.80
1959	20.61	20.50	20.45	20.24	19.82	19.03	18.88	18.85	18.85
1960	20.68	20.50	20.44	20.43	20.38	19.83	19.83	19.00	19.00
1961	20.75	20.56	20.50	20.38	20.17	20.04	19.52	18.71	18.24
1962	19.31	19.17	19.01	18.95	18.83	18.79	18.47	17.59	16.16
1963	20.71	20.58	20.46	20.43	20.13	19.28	18.77	18.19	15.81
1964	20.58	20.47	20.44	20.32	20.12	20.01	19.42	18.69	17.97
1965	20.59	20.47	20.33	20.09	19.84	18.96	18.55	18.39	17.52
1966	20.60	20.51	20.45	20.00	19.48	19.17	19.17	18.95	17.36
1967	20.71	20.55	20.40	20.34	20.17	20.09	19.14	18.50	17.08
1968	18.11	18.07	18.05	17.90	17.79	17.73	17.23	16.59	15.24
1969	20.64	20.62	20.43	20.43	20.30	19.97	19.30	18.51	16.76
1970	20.66	20.56	20.52	20.33	20.12	20.02	19.73	19.29	18.90
1971	19.01	18.93	18.89	18.85	18.69	18.20	18.20	17.90	16.62
1972	20.65	20.56	20.49	20.26	19.98	19.36	18.86	18.60	16.47
1973	20.65	20.49	20.43	20.39	19.96	19.70	18.89	18.89	18.57
1974	20.62	20.48	20.45	20.43	20.42	20.00	19.08	18.37	16.91
1975	20.70	20.62	20.54	20.43	20.36	19.17	18.77	18.12	16.70
1976	20.56	20.42	20.40	20.38	20.30	19.71	18.99	18.21	17.07
1977	20.70	20.59	20.45	20.39	20.03	19.88	18.94	18.64	17.25
1978	20.52	20.35	20.11	19.87	19.46	19.34	19.20	17.51	17.07
1979	20.60	20.49	20.43	20.40	20.01	19.57	18.82	18.63	18.52
1980	20.63	20.53	20.39	20.18	20.09	19.20	19.19	18.84	18.61
1981	18.87	18.79	18.76	18.66	18.35	18.00	17.52	17.09	15.19
1982	16.45	16.37	16.32	16.18	16.05	15.21	14.45	13.96	13.85
1983	20.67	20.57	20.53	20.45	20.22	19.43	18.91	18.82	16.42
1984	20.59	20.56	20.37	20.12	19.94	19.55	19.41	19.05	18.47
1985	20.00	19.86	19.74	19.40	18.95	18.84	18.79	18.46	17.89
1986	20.58	20.57	20.48	20.29	19.64	18.88	18.61	18.25	17.02
1987	20.07	19.91	19.84	19.63	19.34	19.18	18.69	18.69	16.90
1988	19.32	19.24	19.16	18.96	18.91	18.86	18.76	18.18	18.18
1989	19.01	18.95	18.90	18.86	18.57	18.31	18.07	17.57	16.52
1990	18.43	18.40	18.37	18.29	18.15	18.08	17.66	16.34	15.86
1991	20.66	20.52	20.39	20.18	19.99	18.99	18.66	18.66	16.65
1992	20.64	20.60	20.48	20.45	20.40	20.13	19.05	18.27	16.81
1993	20.53	20.47	20.40	20.23	19.53	18.93	18.53	18.31	16.78
1994	19.30	19.09	18.94	18.86	18.76	18.57	17.89	17.25	15.82
1995	20.63	20.52	20.45	20.40	20.06	19.83	19.63	18.42	15.88
1996	20.72	20.63	20.59	20.46	20.38	19.45	18.88	18.58	18.48
1997	19.73	19.61	19.55	19.28	19.14	18.82	18.39	17.72	17.11
1998	20.58	20.48	20.41	20.30	20.25	20.11	19.50	19.04	17.06
MEAN	20.29	20.17	20.10	19.97	19.75	19.33	18.84	18.35	17.38
MAX	20.99	20.63	20.59	20.50	20.43	20.31	20.08	19.37	19.00
MIN	16.45	16.37	16.32	16.18	16.05	15.21	14.45	13.96	13.85
STDV	0.83	0.81	0.81	0.81	0.82	0.83	0.81	0.86	1.13
SKEW	-2.70	-2.73	-2.70	-2.60	-2.30	-2.49	-3.12	-2.89	-0.57

**TFMCA PREFERRED ALTERNATIVE** (10/01/01)

LOWEST VALUES NOT EXCEEDED CONTINUOUSLY FOR THE FOLLOWING NUMBER OF DAYS IN YEAR ENDING SEP 30

YEAR	1	7	14	30	60	120	183	274	1 YEAR
1943	17.46	17.52	17.63	17.66	17.79	18.25	18.52	19.43	20.53
1944	18.50	18.57	18.63	18.69	18.82	19.23	19.69	20.49	20.70
1945	17.07	17.17	17.29	17.59	18.08	18.76	19.69	20.48	20.99
1946	18.33	18.39	18.47	18.51	18.88	19.13	19.48	20.55	20.63
1947	18.92	18.97	19.01	19.13	19.72	20.46	20.52	20.66	20.76
1948	18.78	18.81	18.85	18.93	19.09	19.73	19.78	20.18	20.52
1949	18.19	18.25	18.34	18.48	18.73	19.05	19.95	20.16	20.67
1950	17.77	17.82	17.84	17.92	18.26	18.58	18.96	19.59	20.61
1951	18.18	18.24	18.27	18.79	19.26	20.01	20.53	20.53	20.58
1952	18.82	18.92	18.99	19.13	19.35	20.10	20.40	20.40	20.67
1953	18.70	18.78	18.83	18.97	19.19	19.64	19.99	20.05	20.63
1954	18.45	18.53	18.55	18.74	19.01	19.51	20.42	20.58	20.68
1955	18.74	18.79	18.84	18.95	19.22	19.38	19.61	19.99	20.58
1956	17.08	17.15	17.20	17.33	17.83	18.28	18.93	19.50	20.70
1957	18.92	18.96	19.00	19.17	19.44	19.98	20.33	20.45	20.89
1958	18.80	18.87	18.94	19.01	19.21	19.92	20.54	20.57	20.62
1959	18.85	18.92	18.97	19.03	19.08	19.20	20.56	20.68	20.68
1960	19.00	19.04	19.17	19.52	19.76	20.45	20.55	20.59	20.75
1961	18.24	18.36	18.44	18.60	18.72	18.96	19.13	19.31	20.57
1962	15.81	15.96	16.03	16.29	16.59	17.32	17.84	18.65	20.71
1963	17.97	18.05	18.11	18.34	18.38	18.88	19.09	19.15	20.63
1964	18.39	18.47	18.51	18.64	18.74	19.00	20.03	20.54	20.59
1965	17.36	17.44	17.53	17.62	17.84	18.34	18.61	19.48	20.38
1966	18.77	18.87	18.98	19.29	19.48	20.45	20.45	20.60	20.71
1967	17.06	17.13	17.16	17.27	17.55	18.01	18.20	18.84	20.42
1968	15.24	15.37	15.42	15.64	16.25	16.80	17.40	20.19	20.55
1969	18.51	18.57	18.66	18.77	18.99	19.85	20.25	20.44	20.64
1970	18.20	18.25	18.28	18.37	18.76	18.97	20.33	20.57	20.66
1971	16.47	16.56	16.67	16.84	16.99	17.78	18.17	18.87	20.46
1972	18.60	18.66	18.74	18.84	19.10	19.20	19.79	20.65	20.65
1973	18.57	18.65	18.66	18.84	19.01	19.06	19.16	20.39	20.62
1974	16.70	16.77	16.89	16.99	17.36	18.21	18.83	19.91	20.70
1975	17.64	17.75	17.81	17.98	18.21	18.63	19.02	20.50	20.63
1976	17.07	17.20	17.25	17.46	17.89	18.54	19.10	20.51	20.70
1977	17.07	17.17	17.24	17.36	17.48	17.66	18.63	18.97	20.52
1978	18.73	18.82	18.92	19.09	19.10	19.88	20.01	20.19	20.60
1979	18.52	18.57	18.64	18.81	19.10	20.18	20.19	20.52	20.63
1980	18.00	18.06	18.11	18.20	18.36	18.84	19.07	19.15	20.49
1981	13.85	13.94	13.97	14.09	14.52	15.42	16.60	17.57	18.09
1982	13.96	14.17	14.50	14.56	14.71	15.24	15.91	19.26	20.57
1983	18.82	18.88	18.94	19.00	19.11	20.05	20.50	20.67	20.67
1984	18.46	18.50	18.53	18.66	18.77	18.98	19.15	20.45	20.59
1985	17.69	17.79	17.89	18.08	18.34	18.46	18.61	19.61	20.54
1986	16.90	16.96	17.05	17.27	17.79	18.42	18.95	19.63	20.58
1987	18.18	18.25	18.33	18.49	18.66	19.10	19.63	19.73	19.93
1988	18.07	18.13	18.19	18.37	18.50	18.92	19.11	19.32	19.32
1989	15.86	16.01	16.08	16.20	16.38	16.58	17.28	17.95	18.70
1990	16.65	16.74	16.82	16.86	17.25	17.91	18.24	18.43	20.38
1991	18.66	18.71	18.77	18.82	19.07	19.47	20.52	20.56	20.66
1992	16.78	16.85	16.91	17.08	17.54	18.20	18.71	19.48	20.63
1993	18.31	18.41	18.49	18.58	18.68	18.96	20.20	20.53	20.53
1994	15.82	15.92	16.02	16.24	16.57	17.38	17.59	17.98	19.95
1995	18.84	18.91	18.95	19.06	19.30	20.13	20.33	20.55	20.63
1996	18.48	18.56	18.61	18.82	19.00	19.58	19.98	19.98	20.72
1997	17.06	17.15	17.21	17.26	17.43	17.53	18.07	18.72	20.50
1998	18.77	18.83	18.87	19.00	19.13	19.83	20.54	20.58	20.61
MEAN	17.76	17.84	17.91	18.06	18.31	18.83	19.32	19.88	20.49
MAX	19.00	19.04	19.17	19.52	19.76	20.46	20.56	20.68	20.99
MIN	13.85	13.94	13.97	14.09	14.52	15.24	15.91	17.57	18.09

**TFMCA PREFERRED ALTERNATIVE** (10/01/01)

WEEKLY WATER LEVEL RECESSION RATES IN PERCENTAGE

INITIAL STAGE

RECESSION (FT)	>23.0	21.0-23.0	20.0-21.0	19.5-20.0	19.0-19.5	<19.0
> 2.0	0.00	0.00	0.10	0.00	0.00	0.02
1.8 - 2.0	0.00	0.00	0.00	0.00	0.00	0.00
1.6 - 1.8	0.00	0.00	0.00	0.00	0.05	0.02
1.4 - 1.6	0.00	0.00	0.03	0.00	0.00	0.00
1.2 - 1.4	0.00	0.00	0.03	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	0.07	0.00	0.05	0.02
.75 - 1.0	0.00	0.00	0.07	0.06	0.00	0.10
.50 - .75	0.00	0.00	0.00	0.17	0.05	0.02
.25 - .50	0.00	0.00	8.78	0.72	0.91	0.11
.00 - .25	0.00	0.00	90.92	99.06	98.95	99.72

**TFMCA PREFERRED ALTERNATIVE** (10/01/01)

MONTHLY WATER LEVEL RECESSION RATES IN PERCENTAGE

INITIAL STAGE

RECESSION (FT)	>23.0	21.0-23.0	20.0-21.0	19.5-20.0	19.0-19.5	<19.0
> 2.0	0.00	0.00	0.00	0.11	0.00	0.02
1.8 - 2.0	0.00	0.00	0.03	0.00	0.00	0.02
1.6 - 1.8	0.00	0.00	0.00	0.00	0.00	0.00
1.4 - 1.6	0.00	0.00	0.00	0.00	0.00	0.00
1.2 - 1.4	0.00	0.00	0.03	0.00	0.00	0.00
1.0 - 1.2	0.00	0.00	1.18	0.06	0.06	0.04
.75 - 1.0	0.00	0.00	9.27	6.43	0.06	0.46
.50 - .75	0.00	0.00	19.94	50.20	11.01	9.56
.25 - .50	0.00	0.00	32.82	27.72	48.43	43.80
.00 - .25	0.00	0.00	36.73	15.48	40.45	46.10

