

RAINY RIVER BASIN

05140520 LAKE OF THE WOODS AT WARROAD, MN

LOCATION.--Lat 4854'15", long 9518'57", in SW 1 / 4 SE 1 / 4 sec.29, T. 163 N., R. 36 W., Roseau County, Hydrologic Unit 09030009, on left bank of Warroad River in Warroad, 300 ft downstream from Canadian National railroad bridge, 1000 ft downstream from bridge on State Highway 11, and 4000 ft upstream from mouth of Warroad River.

DRAINAGE AREA.--27,200 mi².

PERIOD OF RECORD.--April to September 1978, month-end elevations gage heights. October 1978 to December 1994, October 1997 to current year; daily-mean gage heights.

GAGE.--Water-stage recorder. Datum at gage is 1,000.00 ft above sea level, Lake of the Woods datum.

REMARKS.--Runoff conditions of the Warroad River can affect water levels at this station. Water level subject to fluctuation caused by changes in direction and velocity of wind and resulting seiches.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 62.24 ft, July 5, 1989; maximum daily, 61.81 ft, July 6, 7, 1985; minimum, 57.22 ft, Nov. 22, 1990; minimum daily, 57.43 ft, Mar. 18, 19, 20, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 60.07 ft, July 3; maximum daily, 59.84 ft, July 3; minimum recorded, 57.98 ft, Oct. 9 (may have been lower on May 16, during period of missing record, minimum at Lake of the Woods at Springsteel Island was 57.69 ft on May 16); minimum daily, 58.19 ft, Feb. 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	58.95	59.04	58.90	58.63	58.31	58.30	58.27	58.56	59.59	59.66	59.41		59.17			
2	59.09	59.51	58.88	58.61	58.31	58.29	58.25	58.53	59.37	59.64	59.46	59.20				
3	59.02	59.32	58.86	58.60	58.29	58.30	58.25	58.47	59.15	59.84	59.49	59.20				
4	58.91	59.12	58.85	58.61	58.29	58.31	58.26	58.37	59.37	59.73	59.50	59.15				
5	59.00	59.08	58.84	58.60	58.28	58.32	58.28	58.34	59.37	59.73	59.47	59.11				
6	59.10	58.88	58.84	58.58	58.27	58.32	58.29	58.80	59.34	59.73	59.44	59.18				

7	59.15	58.95	58.84	58.57	58.27	58.33	58.31	58.80	59.30	59.71	59.43	59.21				
8	58.96	59.14	58.84	58.58	58.26	58.32	58.30	58.61	59.35	59.69	59.38	59.14				
9	58.47	59.11	58.82	58.53	58.25	58.32	58.29	58.54	59.35	59.69	59.32	58.96				
10	59.10	59.11	58.81	58.52	58.21	58.33	58.30	58.50	59.29	59.69	59.38	58.99				
11	59.09	59.05	58.79	58.54	58.21	58.33	58.32	58.42	59.40	59.62	59.36	59.08				
12	58.94	58.83	58.78	58.52	58.22	58.36	58.37	58.53	59.40	59.55	59.20	59.04				
13	58.74	59.53	58.78	58.52	58.21	58.34	58.28	58.48	59.33	59.54	59.25	59.04				
14	58.86	59.35	58.79	58.54	58.22	58.35	58.41	58.63	59.38	59.64	59.30	59.03				
15	59.16	59.03	58.76	58.53	58.21	58.37	58.48	58.67	59.42	59.67	59.28	59.02				
16	59.10	58.85	58.74	58.51	58.23	58.36	58.43	58.75	59.44	59.67	59.13	58.81				
17	59.04	59.06	58.78	58.47	58.23	58.36	58.42	59.04	59.47	59.60	59.44	58.94				
18	59.04	58.99	58.73	58.47	58.22	58.35	58.51	59.12	59.57	59.56	59.28	59.30				
19	59.13	58.99	58.73	58.47	58.21	58.34	58.52	58.95	59.50	59.56	59.20	59.37				
20	58.94	58.99	58.74	58.47	58.20	58.33	58.45	59.20	59.19	59.59	59.24	58.60				
21	59.25	59.00	58.74	58.46	58.21	58.32	58.45	59.31	59.34	59.45	59.26	58.95				
22	59.12	58.98	58.70	58.45	58.22	58.30	58.45	59.26	59.45	59.46	59.26	58.89				
23	59.34	58.96	58.69	58.42	58.19	58.29	58.46	59.27	59.57	59.53	59.11	58.73				
24	59.29	58.96	58.68	58.41	58.20	58.30	58.70	59.25	59.60	59.54	59.17	58.87				
25	59.08	58.92	58.66	58.45	58.24	58.29	58.66	59.35	59.61	59.52	59.14	58.75				
26	59.03	58.91	58.65	58.41	58.29	58.29	58.63	59.27	59.64	59.33	59.16	58.92				
27	58.83	58.94	58.69	58.38	58.29	58.30	58.42	59.22	59.64	59.41	59.23	58.77				
28	58.76	58.91	58.64	58.35	58.31	58.27	58.32	59.27	59.43	59.48	59.26	58.81				
29	58.94	58.89	58.65	58.35	---	58.28	58.39	59.40	59.54	59.50	59.27	58.86				
30	59.20	58.90	58.64	58.35	---	58.27	58.37	59.36	59.73	59.51	59.27	58.76				
31	59.08	---	58.64	58.33	---	58.28	---	59.41	---	59.48	59.20	---				
	59.02	59.04	58.76	58.49	58.24	58.32	58.39	58.89	59.44	59.59	59.30	58.99				
	59.34	59.53	58.90	58.63	58.31	58.37	58.70	59.41	59.73	59.84	59.50	59.37				
	58.47	58.83	58.64	58.33	58.19	58.27	58.25	58.34	59.15	59.33	59.11	58.60				

