

Water-Data Report 2009

05140520 LAKE OF THE WOODS AT WARROAD, MN

Rainy Basin
Lake of the Woods Subbasin

LOCATION.--Lat 48°54'15", long 95°18'57" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.29, T.163 N., R.36 W., Roseau County, MN, Hydrologic Unit 09030009, on left bank of Warroad River in Warroad, 300 ft downstream from Canadian National railroad bridge, 1,000 ft downstream from bridge on State Highway 11, and 4,000 ft upstream from mouth of Warroad River.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April to September 1978, month-end elevations only. October 1978 to September 1985, daily-mean elevations; October 1985 to December 1994 and October 1997 to current year, daily-mean elevations (gage heights). Records collected prior to April 1978 are in reports of the Water Survey of Canada.

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

COOPERATION.--This station is one of the international gaging stations maintained by the United States under agreement with Canada.

REMARKS.--Records good. Runoff conditions from 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, 62.55 ft, June 27, 2001; maximum daily, 62.31 ft, Jul. 9, 2002; minimum gage height recorded, 55.94 ft, Sept. 4, 1980; minimum daily recorded, 56.52 ft, Apr. 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 61.71, May 25; maximum daily, 61.07 ft, June 8; minimum gage height, 58.11 ft, Mar. 21; minimum daily, 58.14 ft, Mar. 21.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	59.33	59.60	59.79	59.46	59.00	58.54	58.56	60.00	60.95	60.66	59.66	60.04
2	59.41	59.53	59.72	59.43	59.00	58.54	58.56	60.04	60.91	60.56	59.77	60.12
3	59.34	59.57	59.73	59.47	58.99	58.52	58.58	60.09	60.82	60.50	59.64	60.18
4	59.31	59.46	59.70	59.42	58.99	58.48	58.59	60.14	60.80	60.45	59.70	60.18
5	59.45	59.96	59.71	59.44	58.96	58.45	58.60	60.17	60.88	60.40	59.69	60.08
6	59.36	60.59	59.68	59.44	58.94	58.40	58.60	60.19	60.97	60.34	59.73	60.09
7	59.23	60.10	59.71	59.39	58.89	58.40	58.60	60.11	61.02	60.41	59.74	60.13
8	59.13	60.11	59.68	59.38	58.88	58.40	58.60	60.27	61.07	60.28	59.71	60.12
9	58.87	59.80	59.66	59.37	58.91	58.35	58.62	60.28	60.83	60.03	59.64	60.16
10	59.27	59.79	59.67	59.36	58.89	58.33	58.66	60.25	60.86	59.88	59.70	60.19
11	59.60	59.77	59.63	59.33	58.87	58.30	---	60.30	60.89	59.95	59.65	60.24
12	59.53	59.74	59.65	59.32	58.85	58.29	---	60.34	60.85	60.03	59.61	60.27
13	59.07	59.70	59.64	59.32	58.84	58.27	---	60.00	60.87	60.00	59.71	60.24
14	59.24	59.89	59.63	59.28	58.82	58.26	---	60.38	60.91	59.95	59.79	60.27
15	59.19	59.93	59.60	59.26	58.81	58.26	---	60.52	60.88	59.61	59.81	60.26
16	59.45	59.95	59.61	59.29	58.80	58.21	59.02	60.47	60.89	59.71	59.78	60.16
17	59.48	59.98	59.59	59.26	58.80	58.18	59.07	60.41	60.87	60.02	59.54	60.22
18	59.27	59.92	59.60	59.24	58.76	58.17	59.18	60.44	60.87	59.92	59.73	60.19
19	59.49	60.04	59.59	59.23	58.74	58.17	59.29	60.73	60.82	59.82	59.85	60.04
20	59.56	60.02	59.59	59.22	58.73	58.18	59.38	60.59	60.84	59.72	60.20	60.02
21	59.51	59.96	59.54	59.20	58.68	58.14	59.45	60.49	60.87	59.75	60.00	60.06
22	59.44	59.95	59.54	59.20	58.67	58.18	59.55	60.51	60.82	59.77	59.92	60.19
23	59.53	59.82	59.56	59.15	58.68	---	59.62	60.56	60.75	59.72	59.86	60.07
24	59.46	59.86	59.53	59.13	58.65	---	59.67	60.54	60.66	59.75	59.95	60.04
25	59.37	59.88	59.55	59.13	58.61	---	59.70	60.91	60.74	59.83	59.96	60.02
26	59.43	59.88	59.53	59.12	58.61	58.45	59.80	61.00	60.73	59.77	59.96	59.87
27	59.49	59.77	59.49	59.12	58.58	58.45	59.83	60.86	60.47	59.70	60.00	59.92
28	59.47	59.81	59.50	59.11	58.54	58.47	59.88	60.80	60.42	59.74	60.25	60.21
29	59.54	59.82	59.46	59.07	---	58.48	59.95	60.87	60.76	59.73	60.22	60.16
30	59.40	59.81	59.45	59.07	---	58.50	59.97	60.88	60.75	59.79	60.08	60.07
31	59.59	---	59.46	59.04	---	58.55	---	60.96	---	59.72	60.05	---
Mean	59.38	59.87	59.61	59.27	58.80	---	---	60.45	60.83	59.98	59.84	60.13
Max	59.60	60.59	59.79	59.47	59.00	---	---	61.00	61.07	60.66	60.25	60.27
Min	58.87	59.46	59.45	59.04	58.54	---	---	60.00	60.42	59.61	59.54	59.87

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