

Water-Data Report 2009

**05073500 UPPER RED LAKE AT WASKISH, MN**

Lower Red Basin  
Red Lakes Subbasin

LOCATION.--Lat 48°10'32", long 94°30'51" referenced to North American Datum of 1927, in SW ¼ NE ¼ NE ¼ sec.8, T.154 N., R.30 W., Beltrami County, MN, Hydrologic Unit 09020302, on east side of Upper Red Lake, near mouth of Tamarac River, on Minnesota Department of Natural Resources property, 500 feet west of State Highway 72 bridge on north edge of Waskish.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1921 to September 1929, fragmentary gage height record in files of Minnesota Department of Natural Resources, April 1930 to September 1933, published as "Red Lake at Waskish", May 1940 to July 1946, October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,100.00 ft above sea level, adjustment of 1912. October 1921 to September 1929, non-recording gage at datum 1,170.00 ft (no winter readings). April 1930 to September 1933, non-recording gage at datum 1,100.00 ft (some winter readings). May 1940 to July 1946, non-recording gage at datum 1,170.00 ft.

REMARKS.--Records good. Water level subject to fluctuation caused by seiche and the stage of the Tamarac River.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 78.34 ft (present datum), June 28, 1943; minimum recorded, 72.10 ft, Oct. 17, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 76.86 ft, June 27; maximum daily, 76.44 ft, June 28; minimum gage height, 73.14 ft, Oct. 11; minimum daily, 73.40 ft, Oct. 5.

## 05073500 UPPER RED LAKE AT WASKISH, MN—Continued

**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           | 73.66 | 73.67 | 73.87 | 74.00 | 74.09 | 74.07 | 74.64 | 75.46 | 75.76 | 75.60 | 75.72 | 75.24 |
| 2           | 73.69 | 73.71 | 73.87 | 74.01 | 74.09 | 74.06 | 74.67 | 75.52 | 75.81 | 75.62 | 75.38 | 75.18 |
| 3           | 73.56 | 73.70 | 73.87 | 74.00 | 74.07 | 74.06 | 74.68 | 75.49 | 75.84 | 75.61 | 75.49 | 75.15 |
| 4           | 73.57 | 73.74 | 73.87 | 74.06 | 74.06 | 74.06 | 74.69 | 75.46 | 75.94 | 75.66 | 75.44 | 75.16 |
| 5           | 73.40 | 73.69 | 73.86 | 74.04 | 74.06 | 74.06 | 74.69 | 75.49 | 75.87 | 75.63 | 75.41 | 75.19 |
| 6           | 73.47 | 73.48 | 73.87 | 74.04 | 74.06 | 74.07 | 74.70 | 75.53 | 75.67 | 75.62 | 75.32 | 75.18 |
| 7           | 73.75 | 73.73 | 73.85 | 74.06 | 74.08 | 74.05 | 74.70 | 75.70 | 75.62 | 75.53 | 75.26 | 75.12 |
| 8           | 73.89 | 73.76 | 73.86 | 74.05 | 74.06 | 74.05 | 74.72 | 75.55 | 75.58 | 75.55 | 75.30 | 75.11 |
| 9           | 74.37 | 73.99 | 73.87 | 74.04 | 74.05 | 74.06 | 74.77 | 75.55 | 75.88 | 75.66 | 75.43 | 75.19 |
| 10          | 73.58 | 73.86 | 73.88 | 74.05 | 74.10 | 74.11 | 74.74 | 75.61 | 75.84 | 75.85 | 75.34 | 75.13 |
| 11          | 73.42 | 73.86 | 73.89 | 74.06 | 74.13 | 74.15 | 74.75 | 75.58 | 75.78 | 75.74 | 75.34 | 75.14 |
| 12          | 73.65 | 73.90 | 73.87 | 74.06 | 74.14 | 74.11 | 74.77 | 75.56 | 75.79 | 75.49 | 75.36 | 75.07 |
| 13          | 74.30 | 74.17 | 73.87 | 74.05 | 74.13 | 74.10 | 74.77 | 76.08 | 75.82 | 75.48 | 75.30 | 75.09 |
| 14          | 74.07 | 74.02 | 73.92 | 74.06 | 74.12 | 74.10 | 74.79 | 75.82 | 75.75 | 75.41 | 75.26 | 75.07 |
| 15          | 74.13 | 73.96 | 73.96 | 74.06 | 74.11 | 74.08 | 74.83 | 75.76 | 75.77 | 75.97 | 75.37 | 75.08 |
| 16          | 73.79 | 73.90 | 73.93 | 74.04 | 74.10 | 74.09 | 74.86 | 75.93 | 75.72 | 75.84 | 75.52 | 75.10 |
| 17          | 73.73 | 73.95 | 73.94 | 74.06 | 74.10 | 74.10 | 74.92 | 75.79 | 75.76 | 75.44 | 75.85 | 75.06 |
| 18          | 73.86 | 73.90 | 73.94 | 74.06 | 74.11 | 74.10 | 74.96 | 75.74 | 75.79 | 75.37 | 75.57 | 75.00 |
| 19          | 73.78 | 73.89 | 73.93 | 74.06 | 74.11 | 74.08 | 75.00 | 75.42 | 75.84 | 75.40 | 75.33 | 75.11 |
| 20          | 73.69 | 73.83 | 73.95 | 74.06 | 74.10 | 74.07 | 75.06 | 75.65 | 75.81 | 75.45 | 75.23 | 75.07 |
| 21          | 73.65 | 73.84 | 73.99 | 74.06 | 74.11 | 74.08 | 75.10 | 75.80 | 75.73 | 75.49 | 75.28 | 75.03 |
| 22          | 73.70 | 73.85 | 73.96 | 74.06 | 74.11 | 74.08 | 75.12 | 75.77 | 75.77 | 75.44 | 75.30 | 74.95 |
| 23          | 73.71 | 73.86 | 73.97 | 74.08 | 74.08 | 74.19 | 75.14 | 75.74 | 75.82 | 75.44 | 75.35 | 74.99 |
| 24          | 73.81 | 73.87 | 73.98 | 74.07 | 74.08 | 74.28 | 75.19 | 75.73 | 75.88 | 75.56 | 75.34 | 75.02 |
| 25          | 74.00 | 73.86 | 73.97 | 74.07 | 74.11 | 74.42 | 75.21 | 75.47 | 75.82 | 75.45 | 75.36 | 74.95 |
| 26          | 74.20 | 73.86 | 73.97 | 74.06 | 74.09 | 74.47 | 75.13 | 75.66 | 75.71 | 75.45 | 75.29 | 75.05 |
| 27          | 73.98 | 73.88 | 74.00 | 74.05 | 74.09 | 74.48 | 75.30 | 75.70 | 76.10 | 75.55 | 75.36 | 75.23 |
| 28          | 73.90 | 73.87 | 73.98 | 74.06 | 74.09 | 74.51 | 75.29 | 75.87 | 76.44 | 75.52 | 75.16 | 75.03 |
| 29          | 73.72 | 73.86 | 74.01 | 74.08 | ---   | 74.53 | 75.25 | 75.83 | 75.73 | 75.48 | 75.10 | 74.69 |
| 30          | 73.80 | 73.86 | 74.01 | 74.06 | ---   | 74.55 | 75.44 | 75.85 | 75.60 | 75.42 | 75.21 | 74.67 |
| 31          | 73.70 | ---   | 74.00 | 74.08 | ---   | 74.57 | ---   | 75.72 | ---   | 75.50 | 75.23 | ---   |
| <b>Mean</b> | 73.79 | 73.84 | 73.93 | 74.05 | 74.09 | 74.19 | 74.93 | 75.67 | 75.81 | 75.56 | 75.36 | 75.07 |
| <b>Max</b>  | 74.37 | 74.17 | 74.01 | 74.08 | 74.14 | 74.57 | 75.44 | 76.08 | 76.44 | 75.97 | 75.85 | 75.24 |
| <b>Min</b>  | 73.40 | 73.48 | 73.85 | 74.00 | 74.05 | 74.05 | 74.64 | 75.42 | 75.58 | 75.37 | 75.10 | 74.67 |

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