Water-Data Report 2013

05284000 MILLE LACS LAKE AT COVE BAY NEAR ONAMIA, MN

Upper Mississippi Basin
Rum Subbasin

LOCATION.--Lat 46°06′36″, long 93°37′08″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.21, T.42 N., R.26 W., Mille Lacs County, MN, Hydrologic Unit 07010207, in Minnesota Department of Natural Resources boathouse at Cove Bay boat landing, 3.6 mi northeast of Onamia.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1931 to current year. Month-end records for the period October 1939 to September 1953 published in WSP 1278 (fragmentary 1940-41). Published as "at Wealthwood" prior to October 1939, and as "at Garrison" October 1939 to September 1987 (gage heights collected at Wealthwood October 1939 to September 1941, but converted to gage datum at Garrison for publication).

GAGE.--Water-stage recorder. Datum of gage is 1,240.40 ft above sea level (NGVD of 1929, levels by Minnesota Department of Natural Resources). Gage readings have been converted to elevations above sea level. Prior to Oct. 1, 1941, non-recording gage at Wealthwood, 17 mi north of present site, at various datums; gage readings were converted to elevations (adjustment of 1912). Oct. 1, 1941 to Sept. 30, 1958, water-stage recorder at Garrison, 16 mi northwest of present site at datum 1,240.50 ft (adjustment of 1912). To convert these readings to NGVD of 1929, subtract 0.10 ft. Oct. 1, 1958 to Sept. 30, 1987, water-stage recorder at Garrison at present datum.

REMARKS.--Record good to fair. Water level affected by fixed-crest spillway constructed in 1953 at outlet of Ogechie Lake, 2.7 mi downstream from outlet of Mille Lacs Lake, with crest at elevation 10.10 ft., gage datum. Water level subject to fluctuation caused by seiche.

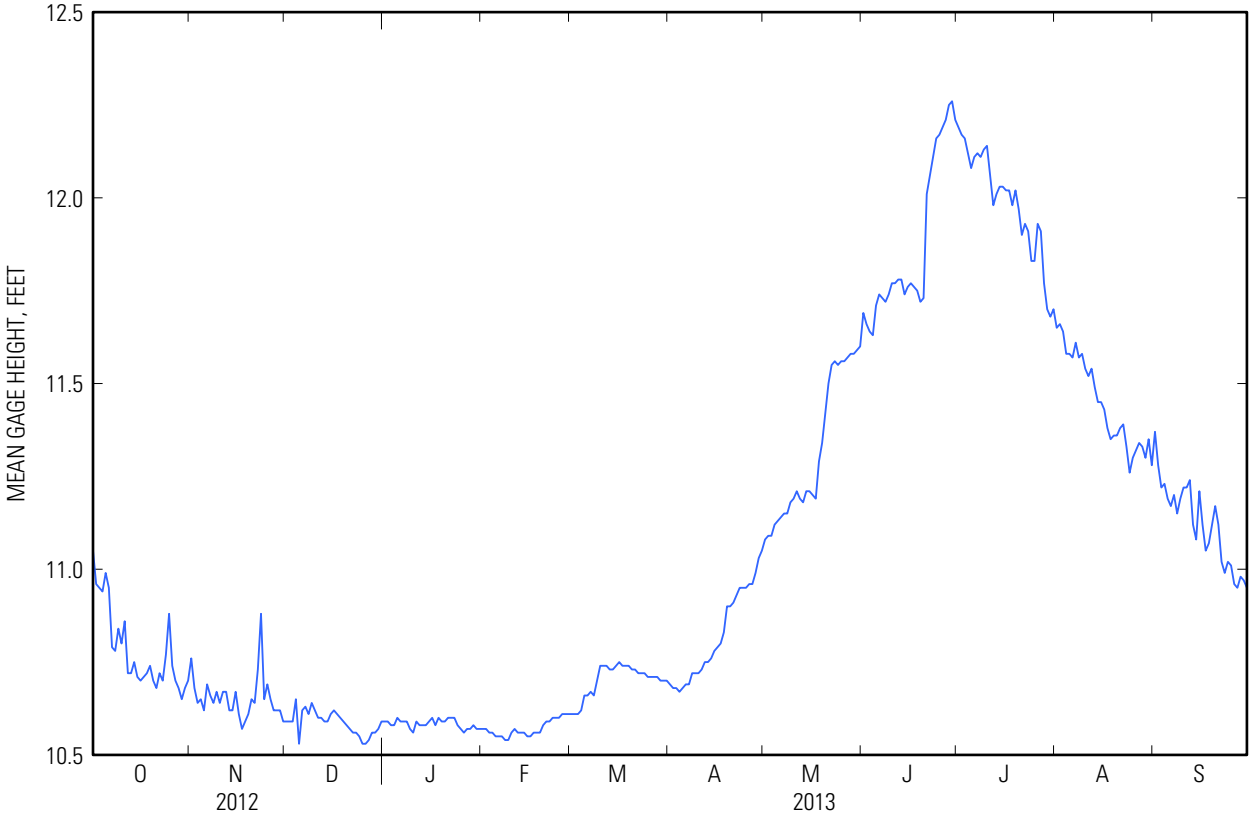
EXTREMES FOR PERIOD OF RECORD.--Maximum gage-height, 13.64 ft, July 21, 2002, affected by seiche action; maximum daily-mean, 13.03 ft, Aug. 22, 1972; minimum gage-height observed, 5.34 ft (present datum) Oct. 16-19, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height, 12.70 ft, June 28; maximum daily-mean gage-height, 12.26 ft, June 29, affected by seiche; minimum instantaneous gage-height, 10.22 ft, November 11, due in part to seiche; minimum daily-mean gage-height, 10.53 ft, December 5 and December 25-26, due in part to seiche.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 05284000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05284000.2013.pdf

05284000 MILLE LACS LAKE AT COVE BAY NEAR ONAMIA, MN—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.05	10.76	10.59	10.59	10.57	10.61	10.69	11.08	11.69	12.19	11.65	11.37
2	10.96	10.68	10.59	10.59	10.57	10.61	10.68	11.09	11.66	12.17	11.66	11.28
3	10.95	10.64	10.59	10.58	10.56	10.61	10.68	11.09	11.64	12.16	11.64	11.22
4	10.94	10.65	10.65	10.58	10.56	10.62	10.67	11.12	11.63	12.12	11.58	11.23
5	10.99	10.62	10.53	10.60	10.55	10.66	10.68	11.13	11.71	12.08	11.58	11.19
6	10.95	10.69	10.62	10.59	10.55	10.66	10.69	11.14	11.74	12.11	11.57	11.17
7	10.79	10.66	10.63	10.59	10.55	10.67	10.69	11.15	11.73	12.12	11.61	11.20
8	10.78	10.64	10.61	10.59	10.54	10.66	10.72	11.15	11.72	12.11	11.57	11.15
9	10.84	10.67	10.64	10.57	10.54	10.70	10.72	11.18	11.74	12.13	11.58	11.19
10	10.80	10.64	10.62	10.56	10.56	10.74	10.72	11.19	11.77	12.14	11.54	11.22
11	10.86	10.67	10.60	10.59	10.57	10.74	10.73	11.21	11.77	12.06	11.52	11.22
12	10.72	10.67	10.60	10.58	10.56	10.74	10.75	11.19	11.78	11.98	11.54	11.24
13	10.72	10.62	10.59	10.58	10.56	10.73	10.75	11.18	11.78	12.01	11.49	11.12
14	10.75	10.62	10.59	10.58	10.56	10.73	10.76	11.21	11.74	12.03	11.45	11.08
15	10.71	10.67	10.61	10.59	10.55	10.74	10.78	11.21	11.76	12.03	11.45	11.21
16	10.70	10.61	10.62	10.60	10.55	10.75	10.79	11.20	11.77	12.02	11.43	11.12
17	10.71	10.57	10.61	10.58	10.56	10.74	10.80	11.19	11.76	12.02	11.38	11.05
18	10.72	10.59	10.60	10.60	10.56	10.74	10.83	11.29	11.75	11.98	11.35	11.07
19	10.74	10.61	10.59	10.59	10.56	10.74	10.90	11.34	11.72	12.02	11.36	11.12
20	10.70	10.65	10.58	10.59	10.58	10.73	10.90	11.42	11.73	11.97	11.36	11.17
21	10.68	10.64	10.57	10.60	10.59	10.73	10.91	11.50	12.01	11.90	11.38	11.12
22	10.72	10.73	10.56	10.60	10.59	10.72	10.93	11.55	12.06	11.93	11.39	11.02
23	10.70	10.88	10.56	10.60	10.60	10.72	10.95	11.56	12.11	11.91	11.33	10.99
24	10.77	10.65	10.55	10.58	10.60	10.72	10.95	11.55	12.16	11.83	11.26	11.02
25	10.88	10.69	10.53	10.57	10.60	10.71	10.95	11.56	12.17	11.83	11.30	11.01
26	10.74	10.65	10.53	10.56	10.61	10.71	10.96	11.56	12.19	11.93	11.32	10.96
27	10.70	10.62	10.54	10.57	10.61	10.71	10.96	11.57	12.21	11.91	11.34	10.95
28	10.68	10.62	10.56	10.57	10.61	10.71	10.99	11.58	12.25	11.77	11.33	10.98
29	10.65	10.62	10.56	10.58	---	10.70	11.03	11.58	12.26	11.70	11.30	10.97
30	10.68	10.59	10.57	10.57	---	10.70	11.05	11.59	12.21	11.68	11.35	10.95
31	10.70	---	10.59	10.57	---	10.70	---	11.60	---	11.70	11.28	---
Mean	10.78	10.65	10.59	10.58	10.57	10.70	10.82	11.32	11.87	11.99	11.45	11.12
Max	11.05	10.88	10.65	10.60	10.61	10.75	11.05	11.60	12.26	12.19	11.66	11.37
Min	10.65	10.57	10.53	10.56	10.54	10.61	10.67	11.08	11.63	11.68	11.26	10.95

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