Water-Data Report 2012

05481630 Saylorville Lake near Saylorville, IA

Des Moines Basin
Middle Des Moines Subbasin

LOCATION.--Lat 41°42′13″, long 93°41′21″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.30, T.80 N., R.24 W., Polk County, IA, Hydrologic Unit 07100004, in control tower of Saylorville Dam on the Des Moines River, 3.2 mi northwest of Saylorville, 4.4 mi upstream from Beaver Creek, and 205.3 mi upstream from mouth.

DRAINAGE AREA.--5,823 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

REMARKS.--Reservoir is formed by earthfill dam completed in 1976. Storage began in April 1977. Release controlled at intake structure to forechamber of 22-ft diameter concrete conduit through dam. Ungated chute spillway 430 ft in length at right end of dam at elevation 884 ft, contents 570,000 acre-ft. Conservation pool at elevation 836 ft, contents 90,000 acre-ft, surface area 5,950 acres. Flood pool elevation at 890 ft, contents 586,000 acre-ft, surface area 16,700 acres. Reservoir is used for flood control, low-flow augmentation, conservation and recreation. Storage tables for water years 1985-1986 published as day second-ft instead of acre-ft storage. Prior to October 1, 2000, published as contents in acre-ft, and as elevation in ft thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed at 0600 hours, 892.03 ft, July 13, 1993; minimum elevation observed at 0600 hours, 832.61 ft, January 19, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed at 0600 hours, 837.25 ft, April 16; minimum elevation observed at 0600 hours, 834.61 ft, September 30.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 05481630, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/05481630.2012.pdf

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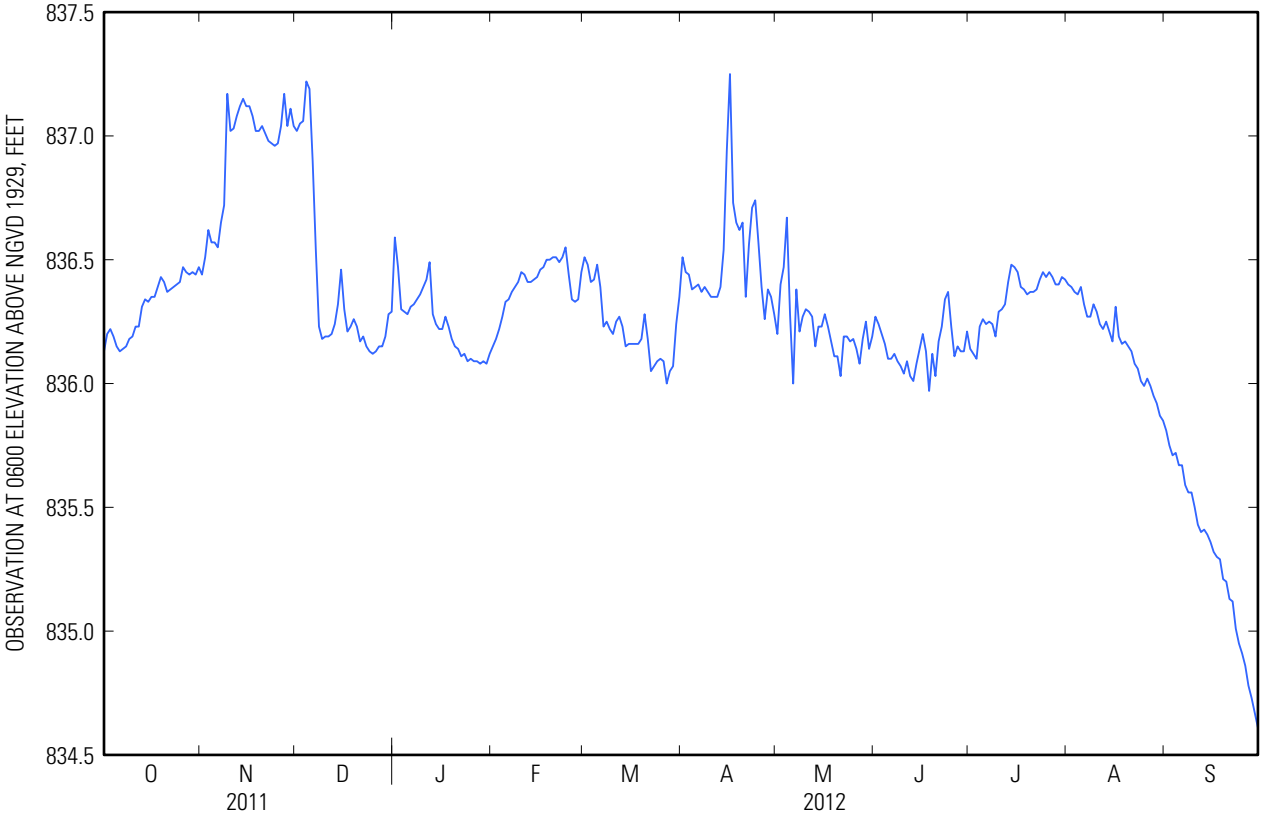
ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 0600 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	836.13	836.44	837.02	836.59	836.15	836.51	836.51	836.20	836.27	836.14	836.40	835.81
2	836.20	836.51	837.05	836.47	836.18	836.48	836.45	836.40	836.24	836.12	836.39	835.75
3	836.22	836.62	837.06	836.30	836.22	836.41	836.44	836.47	836.20	836.10	836.37	835.71
4	836.19	836.57	837.22	836.29	836.27	836.42	836.38	836.67	836.16	836.23	836.36	835.72
5	836.15	836.57	837.19	836.28	836.33	836.48	836.39	836.28	836.10	836.26	836.39	835.67
6	836.13	836.55	836.90	836.31	836.34	836.39	836.40	836.00	836.10	836.24	836.32	835.67
7	836.14	836.65	836.54	836.32	836.37	836.23	836.37	836.38	836.12	836.25	836.27	835.59
8	836.15	836.72	836.23	836.34	836.39	836.25	836.39	836.21	836.09	836.24	836.27	835.56
9	836.18	837.17	836.18	836.36	836.41	836.22	836.37	836.27	836.07	836.19	836.32	835.56
10	836.19	837.02	836.19	836.39	836.45	836.20	836.35	836.30	836.04	836.29	836.29	835.50
11	836.23	837.03	836.19	836.42	836.44	836.25	836.35	836.29	836.09	836.30	836.24	835.43
12	836.23	837.08	836.20	836.49	836.41	836.27	836.35	836.27	836.03	836.32	836.22	835.40
13	836.31	837.12	836.24	836.28	836.41	836.23	836.39	836.15	836.01	836.41	836.25	835.41
14	836.34	837.15	836.32	836.24	836.42	836.15	836.54	836.23	836.08	836.48	836.21	835.39
15	836.33	837.12	836.46	836.22	836.43	836.16	836.94	836.23	836.14	836.47	836.17	835.36
16	836.35	837.12	836.30	836.22	836.46	836.16	837.25	836.28	836.20	836.45	836.31	835.32
17	836.35	837.08	836.21	836.27	836.47	836.16	836.73	836.23	836.13	836.39	836.19	835.30
18	836.39	837.02	836.23	836.23	836.50	836.16	836.65	836.17	835.97	836.38	836.16	835.29
19	836.43	837.02	836.26	836.18	836.50	836.18	836.62	836.11	836.12	836.36	836.17	835.21
20	836.41	837.04	836.23	836.15	836.51	836.28	836.65	836.11	836.03	836.37	836.15	835.20
21	836.37	837.01	836.17	836.14	836.51	836.18	836.35	836.03	836.17	836.37	836.13	835.13
22	836.38	836.98	836.19	836.11	836.49	836.05	836.56	836.19	836.23	836.38	836.08	835.12
23	836.39	836.97	836.15	836.12	836.51	836.07	836.71	836.19	836.34	836.42	836.06	835.01
24	836.40	836.96	836.13	836.09	836.55	836.09	836.74	836.17	836.37	836.45	836.01	834.95
25	836.41	836.97	836.12	836.10	836.44	836.10	836.57	836.18	836.23	836.43	835.99	834.91
26	836.47	837.04	836.13	836.09	836.34	836.09	836.39	836.14	836.11	836.45	836.02	834.86
27	836.45	837.17	836.15	836.09	836.33	836.00	836.26	836.08	836.15	836.43	835.99	834.78
28	836.44	837.04	836.15	836.08	836.34	836.05	836.38	836.18	836.13	836.40	835.95	834.73
29	836.45	837.11	836.19	836.09	836.45	836.07	836.35	836.25	836.13	836.40	835.92	834.67
30	836.44	837.04	836.28	836.08	---	836.24	836.28	836.14	836.21	836.43	835.87	834.61
31	836.47	---	836.29	836.12	---	836.35	---	836.19	---	836.42	835.85	---
Mean	836.31	836.93	836.39	836.24	836.40	836.22	836.50	836.23	836.14	836.34	836.17	835.29
Max	836.47	837.17	837.22	836.59	836.55	836.51	837.25	836.67	836.37	836.48	836.40	835.81
Min	836.13	836.44	836.12	836.08	836.15	836.00	836.26	836.00	835.97	836.10	835.85	834.61

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