

Water-Data Report 2013

05460000 Clear Lake at Clear Lake, IA

Iowa Basin
Winnebago Subbasin

LOCATION.--Lat 43°07'27", long 93°23'02" referenced to North American Datum of 1983, in SE ¼ SW ¼ NE ¼ sec.13, T.96 N., R.22 W., Cerro Gordo County, IA, Hydrologic Unit 07080203, on eastern shore near intersection of South Lakeview Drive and 15th Avenue South in Clear Lake, near dam on Clear Creek.

DRAINAGE AREA.--22.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Stage-only records from May 1933 to current year. No winter records, water years 1933-1952; records fragmentary, November 1952 to June 1959.

GAGE.--Water-stage recorder. Datum of gage is 1,222.24 ft above National Geodetic Vertical Datum of 1929, and 4.70 ft below crest of spillway of dam at outlet. Prior to July 14, 1936, and November 8, 1951, to November 23, 1958, non-recording gage in wooden well at Clear Lake Fish Hatchery at same datum; July 14, 1936, to April 20, 1944, non-recording gage at Clear Lake State Park at same datum; April 21, 1944, to November 7, 1951, non-recording gage located 0.8 mi west of Clear Lake Fish Hatchery at same datum; November 24, 1958, to June 24, 1959, non-recording gage at bridge 2.0 mi west of Clear Lake Fish Hatchery at same datum.

REMARKS.--Records good. Lake is formed by concrete dam on Clear Creek with 50-ft ungated overflow spillway, elevation 1,226.94 ft. Dam constructed in 1903. A previous outlet works had been constructed in 1887. Lake is used for conservation and recreation. Area of lake is approximately 3,600 acres. U.S. Geological Survey data collection platform with satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.99 ft, June 13, 2008; minimum gage height, 0.76 ft, October 26, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.03 ft, June 28, 2013; minimum gage height, 1.93 ft, December 5, 2012.

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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 | 2.20 | 2.14 | 1.99 | 2.12 | --- | 2.86 | 2.77 | 3.57 | 4.67 | 4.86 | 4.68 | 4.56 |
| 2 | 2.19 | 2.13 | 1.99 | 2.12 | --- | 2.87 | 2.73 | 3.76 | 4.65 | 4.85 | 4.73 | 4.52 |
| 3 | 2.18 | 2.13 | 2.01 | 2.12 | --- | 2.86 | 2.71 | 3.81 | 4.63 | 4.84 | 4.71 | 4.49 |
| 4 | 2.20 | 2.13 | 2.00 | 2.12 | --- | 2.88 | 2.70 | 3.85 | 4.61 | 4.83 | 4.69 | 4.48 |
| 5 | 2.15 | 2.14 | 1.96 | 2.12 | --- | 2.89 | 2.69 | 3.88 | 4.66 | 4.81 | 4.74 | 4.47 |
| 6 | 2.12 | 2.16 | 1.99 | 2.12 | --- | 2.89 | 2.69 | 3.89 | 4.70 | 4.80 | 4.76 | 4.46 |
| 7 | 2.10 | 2.14 | 1.98 | 2.12 | 2.75 | 2.88 | 2.65 | 3.91 | 4.71 | 4.80 | 4.76 | 4.44 |
| 8 | 2.09 | 2.14 | 1.97 | 2.11 | 2.75 | 2.86 | 2.69 | 4.00 | 4.70 | 4.80 | 4.75 | 4.42 |
| 9 | 2.11 | 2.12 | 1.99 | 2.12 | 2.75 | 2.91 | --- | 3.98 | 4.68 | 4.81 | 4.75 | 4.42 |
| 10 | 2.10 | 2.13 | 2.06 | 2.12 | 2.79 | 2.95 | --- | 3.99 | 4.69 | 4.79 | 4.74 | 4.40 |
| 11 | 2.09 | 2.17 | 2.06 | 2.13 | 2.83 | 3.03 | 2.81 | 4.03 | 4.69 | 4.76 | 4.78 | 4.39 |
| 12 | 2.06 | 2.17 | 2.07 | 2.14 | 2.83 | 3.03 | 2.88 | 4.05 | 4.71 | 4.73 | 4.78 | 4.37 |
| 13 | 2.08 | 2.13 | 2.08 | 2.14 | 2.83 | 3.03 | 2.93 | 4.05 | 4.71 | 4.71 | 4.75 | 4.33 |
| 14 | 2.11 | 2.12 | 2.08 | 2.13 | 2.85 | 3.02 | 2.98 | 4.05 | 4.70 | 4.71 | 4.74 | 4.31 |
| 15 | 2.10 | 2.12 | 2.10 | 2.13 | 2.84 | 3.01 | 3.10 | 4.03 | 4.77 | 4.70 | 4.72 | 4.33 |
| 16 | 2.10 | 2.11 | 2.10 | 2.13 | 2.83 | 2.99 | 3.16 | 4.04 | 4.80 | 4.71 | 4.71 | 4.32 |
| 17 | 2.13 | 2.10 | 2.09 | 2.13 | 2.83 | 2.97 | 3.11 | 4.08 | 4.80 | 4.72 | 4.69 | 4.27 |
| 18 | 2.12 | 2.10 | 2.10 | 2.12 | 2.85 | 2.98 | 3.25 | 4.12 | 4.78 | 4.73 | 4.67 | 4.27 |
| 19 | 2.10 | 2.10 | 2.10 | --- | 2.88 | 2.97 | 3.30 | 4.14 | 4.79 | 4.69 | 4.66 | 4.27 |
| 20 | 2.09 | 2.10 | 2.16 | --- | 2.87 | 2.96 | 3.39 | 4.25 | 4.79 | 4.66 | 4.65 | 4.27 |
| 21 | 2.08 | 2.07 | 2.13 | --- | 2.86 | 2.94 | 3.39 | 4.27 | 4.81 | 4.64 | 4.64 | 4.24 |
| 22 | 2.09 | 2.08 | 2.12 | --- | 2.87 | 2.93 | 3.44 | 4.27 | 4.85 | 4.64 | 4.67 | 4.21 |
| 23 | 2.10 | 2.10 | 2.12 | --- | 2.87 | 2.92 | 3.47 | 4.28 | 4.91 | 4.62 | 4.66 | 4.19 |
| 24 | 2.10 | 2.01 | 2.12 | --- | 2.86 | 2.91 | 3.48 | 4.29 | 4.93 | 4.60 | 4.65 | 4.18 |
| 25 | 2.22 | 2.01 | 2.12 | --- | 2.86 | 2.90 | 3.49 | 4.30 | 4.96 | 4.62 | 4.65 | 4.17 |
| 26 | 2.20 | 2.01 | 2.11 | --- | 2.86 | 2.89 | 3.48 | 4.40 | 4.97 | 4.75 | 4.64 | 4.15 |
| 27 | 2.18 | 1.99 | 2.11 | --- | 2.86 | 2.89 | 3.46 | 4.52 | 4.97 | 4.72 | 4.63 | 4.14 |
| 28 | 2.17 | 1.99 | 2.12 | --- | 2.86 | 2.88 | 3.43 | 4.59 | 4.95 | 4.70 | 4.61 | 4.15 |
| 29 | 2.15 | 1.99 | 2.13 | --- | --- | 2.88 | 3.47 | 4.60 | 4.90 | 4.68 | 4.61 | 4.14 |
| 30 | 2.15 | 1.98 | 2.12 | --- | --- | 2.89 | 3.50 | 4.66 | 4.88 | 4.67 | 4.60 | 4.12 |
| 31 | 2.15 | --- | 2.12 | --- | --- | 2.89 | --- | 4.72 | --- | 4.67 | 4.57 | --- |
| Mean | 2.13 | 2.09 | 2.07 | --- | --- | 2.93 | --- | 4.14 | 4.78 | 4.73 | 4.69 | 4.32 |
| Max | 2.22 | 2.17 | 2.16 | --- | --- | 3.03 | --- | 4.72 | 4.97 | 4.86 | 4.78 | 4.56 |
| Min | 2.06 | 1.98 | 1.96 | --- | --- | 2.86 | --- | 3.57 | 4.61 | 4.60 | 4.57 | 4.12 |

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