Water-Data Report 2013

# 04100220 WALDRON LAKE NEAR COSPERVILLE, IN

Lake Michigan Basin

LOCATION.--Lat 41°29′34″, long 85°26′55″ referenced to North American Datum of 1927, in SE ¼ NW ¼ NE ¼ sec.14, T.35 N., R.9 E., Noble County, IN, Hydrologic Unit 04050001, (ALBION, IN., quadrangle), on the right bank in the public fishing site, just west of County Road 125 W at Dukes Bridge and about 6.8 mi north of Albion, IN.

DRAINAGE AREA.-- 134 mi².

## SURFACE-WATER RECORDS

PERIOD OF RECORD.-- 1948 to current year.

GAGE.-- A water-stage recorder with transmitter is installed in an aluminum shelter over a 15-inch diameter stilling well. An auxiliary wire-weight gage is attached to the upstream side of Dukes Bridge.

DATUM OF GAGE.-- 800 ft above National Geodetic Vertical Datum of 1929.

SURFACE AREA.-- 216 acres.

ESTABLISHED LEGAL LEVEL.-- 5.55 ft gage datum or 885.55 ft above National Geodetic Vertical Datum of 1929 as decreed on May 6, 1968, by the Noble County Circuit Court. Jones, Steinbarger and Tamarack Lakes, all near Cosperville, have the same established level as Waldron Lake and hence the same lake levels for the period of record.

LAKE-LEVEL CONTROL.-- The level of the lake is controlled by a fixed-crest concrete dam with removable boards.

INLET AND OUTLET.-- The North Branch of the Elkhart River flows through the lake, entering through Jones Lake at the north and leaving at the west end of Waldron Lake. Another inlet enters at the southeast from Steinbarger Lake, 0.1 mi upstream.

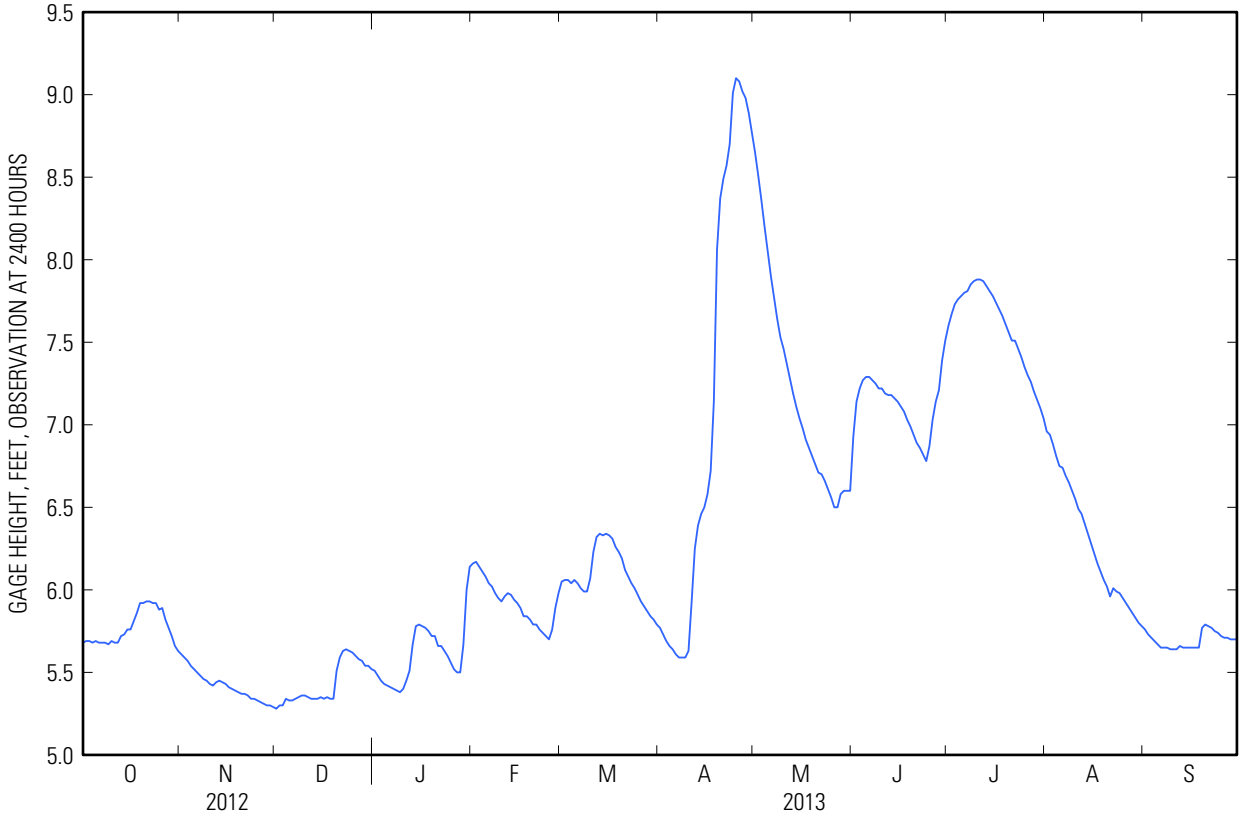
EXTREMES FOR PERIOD OF RECORD.-- Maximum stage, 10.16 ft Mar. 22, 1982; minimum stage, 4.44 ft Aug. 9-11, Sept. 14-17, 1964.

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY OBSERVATION AT 2400 HOURS**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 5.69 | 5.52 | 5.33 | 5.42 | 6.08 | 6.06 | 5.64 | 8.05 | 7.29 | 7.78 | 6.75 | 5.67 |
| 10 | 5.69 | 5.43 | 5.36 | 5.40 | 5.93 | 6.07 | 5.63 | 7.46 | 7.22 | 7.88 | 6.55 | 5.64 |
| 15 | 5.76 | 5.43 | 5.35 | 5.79 | 5.92 | 6.34 | 6.50 | 7.04 | 7.14 | 7.78 | 6.28 | 5.65 |
| 20 | 5.92 | 5.37 | 5.51 | 5.72 | 5.79 | 6.19 | 8.37 | 6.76 | 6.94 | 7.56 | 6.02 | 5.79 |
| 25 | 5.88 | 5.33 | 5.62 | 5.56 | 5.70 | 5.97 | 9.10 | 6.56 | 6.87 | 7.35 | 5.95 | 5.72 |
| Eom | 5.63 | 5.29 | 5.52 | 6.14 | 5.98 | 5.79 | 8.77 | 6.60 | 7.51 | 7.04 | 5.78 | 5.70 |
| Mean | 5.77 | 5.42 | 5.43 | 5.60 | 5.92 | 6.08 | 7.12 | 7.19 | 7.12 | 7.60 | 6.29 | 5.69 |
| Max | 5.93 | 5.61 | 5.64 | 6.14 | 6.17 | 6.34 | 9.10 | 8.65 | 7.51 | 7.88 | 6.96 | 5.79 |
| Min | 5.63 | 5.29 | 5.28 | 5.38 | 5.70 | 5.79 | 5.59 | 6.50 | 6.78 | 7.04 | 5.78 | 5.64 |

| | Water Year 2013 |
|---|---|
| Mean | 6.27 |
| Max | 9.10 |
| Min | 5.28 |



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 04100220, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04100220.2013.pdf

**04100220 WALDRON LAKE NEAR COSPERVILLE, IN—Continued**