Water-Data Report 2012

# 05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL

Lower Illinois Basin
South Fork Sangamon Subbasin

LOCATION.--Lat 39°45′13″, long 89°33′56″ referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.8, T.15 N., R.4 W., Sangamon County, IL, Hydrologic Unit 07130007, on right bank at upstream side of bridge on West Main Road, 1.7 mi northwest of Rochester, 3.4 mi upstream from Black Branch, 1.2 mi downstream from Horse Creek, and at mile 6.2. This auxiliary gage is 1.2 mi. downstream from the base gage South Fork Sangamon River at Rochester (05576000).

DRAINAGE AREA.--870 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.—
SURFACE-WATER DISCHARGE AND STAGE
STAGE: October 1993 to current.
SURFACE-WATER QUALITY
CHEMICAL: Water years 1978 to 1991. Additional chemical data for water years 1972-77 are published in Water-Resources Investigations 78-23 and 79-24 as site EO 01.
MISCELLANEOUS: Water temperature, water year 1977.

REVISED RECORDS.-- WDR IL-79-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 511.30 ft above NGVD of 1929 (510.98 ft NAVD 1988). Prior to May 19, 1950, non-recording gage 5 miles downstream at same datum. May 19, 1950 to April 29, 1975, non-recording gage at current site and datum.

REMARKS.--Beginning April 14, 1955, occasional regulation due to diversion for Springfield's public water supply at dam 1.2 miles upstream. Pumpage from Lake Taylorville into stream generally occurs during the fall upstream from the dam. Water discharges for surface-water quality data were determined from South Fork Sangamon River near Rochester (station 05576000).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 32.65 ft, May 13, 2002; minimum gage height, 3.15 ft, Oct. 15, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.73 ft, May 5; minimum gage height, 3.45 ft, Sept. 22.

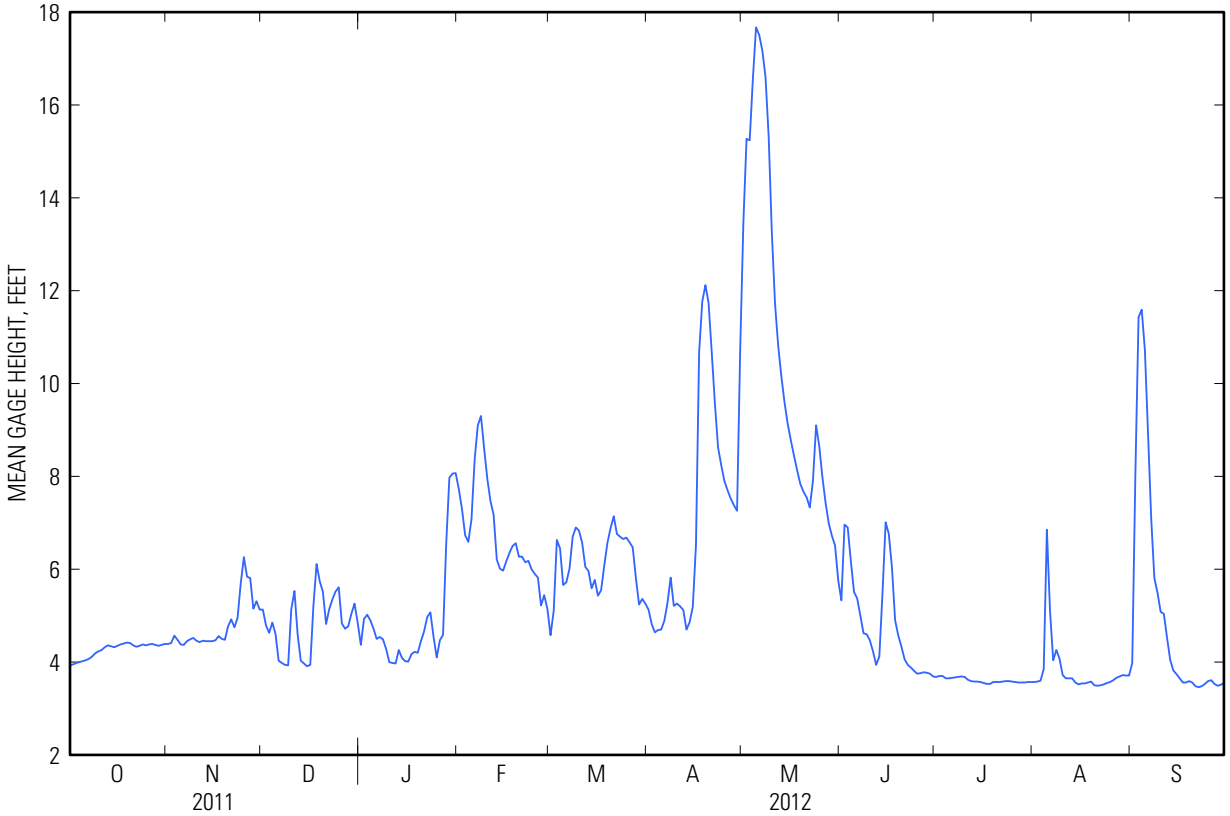


Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 05576022, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/05576022.2012.pdf

**05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.93 | 4.39 | 5.13 | 4.37 | 7.72 | 4.58 | 5.13 | 13.47 | 5.33 | 3.68 | 3.57 | 3.98 |
| 2 | 3.95 | 4.41 | 4.79 | 4.93 | 7.29 | 5.10 | 4.82 | 15.27 | 6.96 | 3.70 | 3.58 | 8.08 |
| 3 | 3.98 | 4.57 | 4.63 | 5.02 | 6.73 | 6.63 | 4.64 | 15.24 | 6.90 | 3.70 | 3.60 | 11.43 |
| 4 | 4.00 | 4.48 | 4.85 | 4.90 | 6.59 | 6.45 | 4.69 | 16.56 | 6.17 | 3.65 | 3.85 | 11.59 |
| 5 | 4.02 | 4.38 | 4.61 | 4.72 | 7.08 | 5.66 | 4.70 | 17.67 | 5.51 | 3.65 | 6.85 | 10.72 |
| 6 | 4.04 | 4.37 | 4.03 | 4.50 | 8.37 | 5.72 | 4.89 | 17.51 | 5.37 | 3.66 | 5.09 | 8.92 |
| 7 | 4.07 | 4.45 | 3.98 | 4.54 | 9.10 | 6.01 | 5.28 | 17.17 | 5.00 | 3.67 | 4.04 | 7.09 |
| 8 | 4.12 | 4.49 | 3.94 | 4.49 | 9.30 | 6.70 | 5.82 | 16.60 | 4.62 | 3.68 | 4.26 | 5.81 |
| 9 | 4.19 | 4.52 | 3.93 | 4.28 | 8.60 | 6.90 | 5.21 | 15.32 | 4.60 | 3.69 | 4.07 | 5.49 |
| 10 | 4.23 | 4.46 | 5.14 | 4.00 | 7.95 | 6.83 | 5.26 | 13.25 | 4.47 | 3.68 | 3.72 | 5.08 |
| 11 | 4.26 | 4.43 | 5.53 | 3.98 | 7.47 | 6.57 | 5.20 | 11.73 | 4.23 | 3.62 | 3.65 | 5.04 |
| 12 | 4.32 | 4.46 | 4.60 | 3.97 | 7.17 | 6.05 | 5.12 | 10.82 | 3.94 | 3.59 | 3.65 | 4.53 |
| 13 | 4.36 | 4.45 | 4.03 | 4.26 | 6.21 | 5.96 | 4.70 | 10.16 | 4.12 | 3.58 | 3.65 | 4.05 |
| 14 | 4.34 | 4.45 | 3.97 | 4.09 | 6.01 | 5.59 | 4.86 | 9.60 | 5.48 | 3.58 | 3.56 | 3.82 |
| 15 | 4.32 | 4.45 | 3.91 | 4.02 | 5.97 | 5.77 | 5.19 | 9.14 | 7.01 | 3.57 | 3.52 | 3.74 |
| 16 | 4.35 | 4.47 | 3.94 | 4.01 | 6.17 | 5.43 | 6.52 | 8.78 | 6.76 | 3.55 | 3.54 | 3.65 |
| 17 | 4.38 | 4.56 | 5.22 | 4.17 | 6.35 | 5.55 | 10.67 | 8.45 | 6.03 | 3.53 | 3.54 | 3.56 |
| 18 | 4.40 | 4.50 | 6.11 | 4.22 | 6.50 | 6.08 | 11.77 | 8.13 | 4.90 | 3.53 | 3.56 | 3.56 |
| 19 | 4.42 | 4.48 | 5.74 | 4.20 | 6.56 | 6.57 | 12.12 | 7.84 | 4.57 | 3.57 | 3.58 | 3.59 |
| 20 | 4.41 | 4.77 | 5.51 | 4.45 | 6.27 | 6.89 | 11.73 | 7.67 | 4.33 | 3.57 | 3.50 | 3.56 |
| 21 | 4.36 | 4.92 | 4.82 | 4.66 | 6.27 | 7.14 | 10.66 | 7.55 | 4.06 | 3.57 | 3.49 | 3.48 |
| 22 | 4.33 | 4.75 | 5.14 | 4.97 | 6.15 | 6.76 | 9.56 | 7.33 | 3.94 | 3.58 | 3.50 | 3.46 |
| 23 | 4.35 | 4.95 | 5.35 | 5.07 | 6.18 | 6.70 | 8.62 | 7.90 | 3.88 | 3.59 | 3.52 | 3.48 |
| 24 | 4.38 | 5.69 | 5.52 | 4.54 | 6.00 | 6.65 | 8.24 | 9.10 | 3.81 | 3.59 | 3.55 | 3.53 |
| 25 | 4.36 | 6.26 | 5.61 | 4.10 | 5.90 | 6.68 | 7.90 | 8.65 | 3.75 | 3.58 | 3.57 | 3.59 |
| 26 | 4.38 | 5.84 | 4.83 | 4.47 | 5.82 | 6.58 | 7.70 | 7.98 | 3.76 | 3.57 | 3.61 | 3.61 |
| 27 | 4.39 | 5.81 | 4.72 | 4.59 | 5.22 | 6.47 | 7.52 | 7.43 | 3.78 | 3.56 | 3.66 | 3.53 |
| 28 | 4.37 | 5.15 | 4.77 | 6.55 | 5.44 | 5.81 | 7.38 | 6.99 | 3.77 | 3.56 | 3.69 | 3.49 |
| 29 | 4.35 | 5.31 | 5.04 | 7.97 | 5.15 | 5.24 | 7.26 | 6.72 | 3.75 | 3.56 | 3.72 | 3.51 |
| 30 | 4.37 | 5.13 | 5.26 | 8.06 | --- | 5.36 | 10.75 | 6.51 | 3.69 | 3.57 | 3.71 | 3.55 |
| 31 | 4.39 | --- | 4.85 | 8.07 | --- | 5.26 | --- | 5.76 | --- | 3.57 | 3.71 | --- |
| Mean | 4.26 | 4.78 | 4.82 | 4.84 | 6.74 | 6.12 | 7.13 | 10.72 | 4.82 | 3.60 | 3.81 | 5.08 |
| Max | 4.42 | 6.26 | 6.11 | 8.07 | 9.30 | 7.14 | 12.12 | 17.67 | 7.01 | 3.70 | 6.85 | 11.59 |
| Min | 3.93 | 4.37 | 3.91 | 3.97 | 5.15 | 4.58 | 4.64 | 5.76 | 3.69 | 3.53 | 3.49 | 3.46 |

| | Water Year 2012 |
|---|---|
| Mean | 5.56 |
| Max | 17.67 |
| Min | 3.46 |

**05576022 SOUTH FORK SANGAMON RIVER BELOW ROCHESTER, IL—Continued**