Water-Data Report 2013

# 05381000 BLACK RIVER AT NEILLSVILLE, WI

Upper Mississippi-Black-Root Basin
Black Subbasin

LOCATION.--Lat 44°33′35″, long 90°36′54″ referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.15, T.24 N., R.2 W., Clark County, WI, Hydrologic Unit 07040007, on W. Fifth Street (old Hwy. 10) in Neillsville, 1.0 mi downstream from O'Neill Creek and 2.6 mi upstream from Cunningham Creek.

DRAINAGE AREA.--749 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1905 to March 1909, October 1913 to September 1999, October 2000 to current year. Monthly discharge for some periods published in WSP 1308. Unfinalized 2000 water year records in District data files.

REVISED RECORDS.--WSP 1308: 1914. WSP 1438: 1905, 1906-8(M), 1914-17(M), 1918-19, 1920-25(M), 1926-27, 1928-29(M), 1930, 1931(M), 1932, 1933(M), 1934, 1935(M), 1936. WSP 1508: 1950. WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 962.31 ft above NAVD of 1988. Prior to Oct. 24, 1934, nonrecording gage; Oct. 24, 1934, to June 16, 1977, water-stage recorder; June 17, 1977, to Nov. 19, 1977, nonrecording gage at site 150 ft downstream at datum 1.58 ft lower.

REMARKS.--Records good except those for Oct. 2-6, 11-24, Aug. 15-18, and Aug. 21 to Sept. 7, which are fair, and those for estimated daily discharges, which are poor. Gage-height telemeter at station.



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 05381000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05381000.2013.pdf

**05381000 BLACK RIVER AT NEILLSVILLE, WI—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**
[e, estimated]

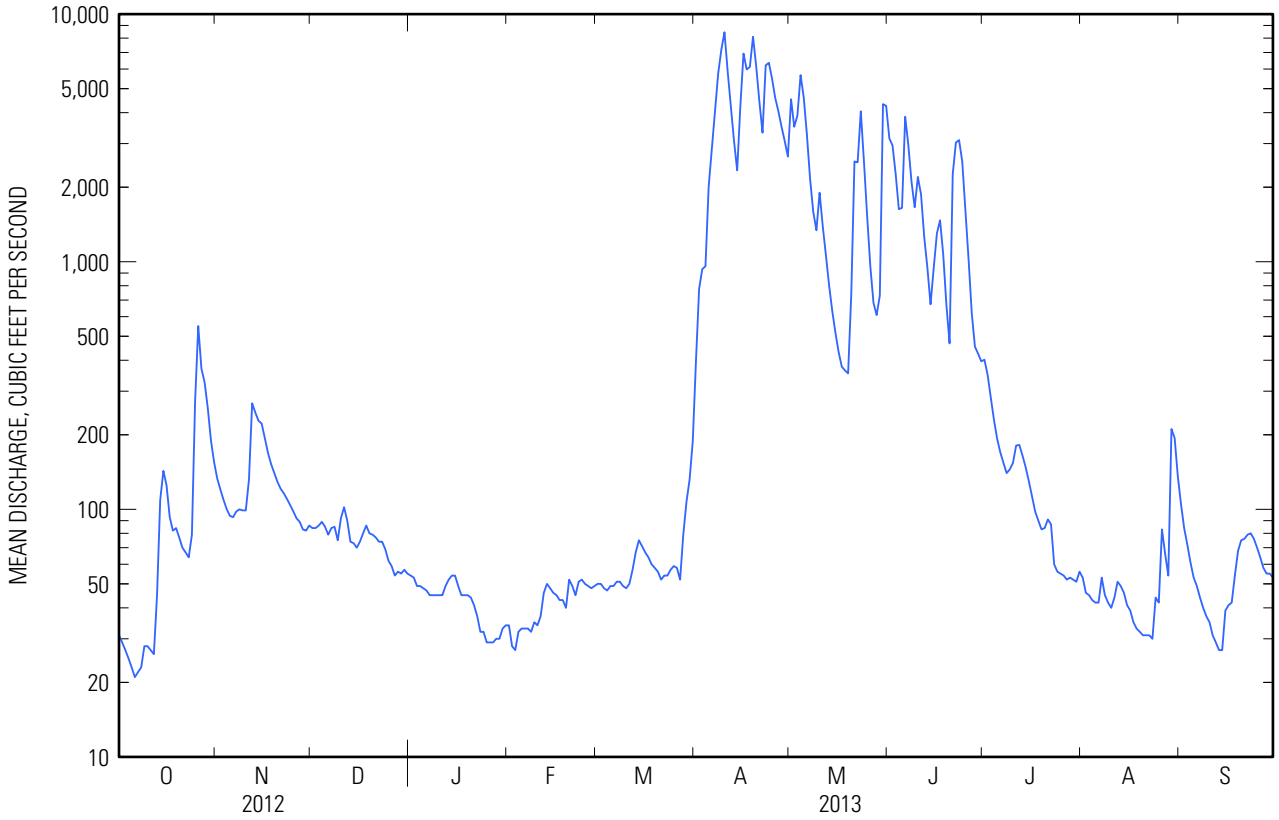
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31 | 133 | 84 | e54 | e34 | e50 | e397 | 4,530 | 3,150 | 402 | 53 | 105 |
| 2 | 29 | 120 | 84 | e53 | e28 | e50 | e779 | 3,510 | 2,950 | 349 | 46 | 84 |
| 3 | 27 | 109 | 86 | e49 | e27 | e48 | e934 | 3,890 | 2,260 | 283 | 45 | 72 |
| 4 | 25 | 100 | 89 | e49 | e32 | e47 | e959 | 5,670 | 1,630 | 230 | 43 | 61 |
| 5 | 23 | 94 | 85 | e48 | e33 | e49 | e2,000 | 4,610 | 1,650 | 193 | 42 | 53 |
| 6 | 21 | 93 | 79 | e47 | e33 | e49 | e2,850 | 3,260 | 3,850 | 170 | 42 | 49 |
| 7 | 22 | 98 | 84 | e45 | e33 | e51 | e4,040 | 2,160 | 2,950 | 154 | 53 | 44 |
| 8 | 23 | 100 | 85 | e45 | e32 | e51 | e5,740 | 1,590 | 2,100 | 140 | 45 | 40 |
| 9 | 28 | 99 | 75 | e45 | e35 | e49 | 7,180 | 1,340 | 1,660 | 145 | 42 | 37 |
| 10 | 28 | 99 | 92 | e45 | e34 | e48 | 8,450 | 1,900 | 2,200 | 154 | 40 | 35 |
| 11 | 27 | 132 | e102 | e45 | e37 | e50 | 5,880 | 1,390 | 1,870 | 181 | 44 | 31 |
| 12 | 26 | 268 | e90 | e49 | e46 | e57 | 4,250 | 1,060 | 1,260 | 182 | 51 | 29 |
| 13 | 45 | 246 | e74 | e52 | e50 | e67 | 3,080 | 802 | 947 | 165 | 49 | 27 |
| 14 | 109 | 228 | e73 | e54 | e48 | e75 | 2,340 | 632 | 673 | 148 | 46 | 27 |
| 15 | 143 | 222 | e70 | e54 | e46 | e71 | 4,230 | 516 | 943 | 130 | 41 | 39 |
| 16 | 125 | 194 | e74 | e49 | e45 | e67 | 6,930 | 432 | 1,300 | 113 | 39 | 41 |
| 17 | 93 | 169 | e80 | e45 | e43 | e64 | 5,980 | 377 | 1,470 | e98 | 35 | 42 |
| 18 | 82 | 152 | e86 | e45 | e43 | e60 | 6,120 | 364 | 1,070 | e90 | 33 | 54 |
| 19 | 84 | 140 | e80 | e45 | e40 | e58 | 8,100 | 354 | 669 | e83 | 32 | 68 |
| 20 | 77 | 129 | e79 | e44 | e52 | e56 | 6,160 | 743 | 468 | e84 | 31 | 75 |
| 21 | 70 | 121 | e77 | e41 | e49 | e52 | e4,440 | 2,540 | 2,260 | e91 | 31 | 76 |
| 22 | 67 | 116 | e74 | e37 | e45 | e54 | e3,320 | 2,520 | 3,030 | e87 | 31 | 79 |
| 23 | 64 | 110 | e74 | e32 | e51 | e54 | e6,210 | 4,050 | 3,100 | e60 | 30 | 80 |
| 24 | 79 | 104 | e69 | e32 | e52 | e57 | 6,360 | 2,530 | 2,540 | e56 | 44 | 76 |
| 25 | 271 | 98 | e62 | e29 | e50 | e59 | 5,490 | 1,530 | 1,610 | e55 | 42 | 70 |
| 26 | 550 | 92 | e59 | e29 | e49 | e58 | 4,590 | 960 | 1,020 | 54 | 83 | 64 |
| 27 | 370 | e89 | e54 | e29 | e48 | e52 | 4,050 | 682 | 620 | 52 | 66 | 58 |
| 28 | 326 | 83 | e56 | e30 | e49 | e79 | 3,510 | 609 | 454 | 53 | 54 | 55 |
| 29 | 257 | 82 | e55 | e30 | --- | e107 | 3,070 | 730 | 425 | 52 | 211 | 55 |
| 30 | 190 | 86 | e57 | e33 | --- | e132 | 2,660 | 4,330 | 396 | 51 | 194 | 53 |
| 31 | 155 | --- | e55 | e34 | --- | e189 | --- | 4,260 | --- | 56 | 136 | --- |
| Total | 3,467 | 3,906 | 2,343 | 1,318 | 1,164 | 2,010 | 130,099 | 63,871 | 50,525 | 4,161 | 1,774 | 1,679 |
| Mean | 112 | 130 | 75.6 | 42.5 | 41.6 | 64.8 | 4,337 | 2,060 | 1,684 | 134 | 57.2 | 56.0 |
| Max | 550 | 268 | 102 | 54 | 52 | 189 | 8,450 | 5,670 | 3,850 | 402 | 211 | 105 |
| Min | 21 | 82 | 54 | 29 | 27 | 47 | 397 | 354 | 396 | 51 | 30 | 27 |
| Cfsm | 0.15 | 0.17 | 0.10 | 0.06 | 0.06 | 0.09 | 5.79 | 2.75 | 2.25 | 0.18 | 0.08 | 0.07 |
| In. | 0.17 | 0.19 | 0.12 | 0.07 | 0.06 | 0.10 | 6.46 | 3.17 | 2.51 | 0.21 | 0.09 | 0.08 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2013, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 388 | 434 | 187 | 109 | 130 | 1,232 | 1,982 | 859 | 814 | 308 | 254 | 513 |
| Max | 2,101 | 2,345 | 1,133 | 615 | 1,348 | 3,960 | 5,025 | 3,538 | 4,689 | 1,538 | 1,293 | 4,304 |
| (WY) | (1983) | (1992) | (1966) | (1973) | (1984) | (1973) | (1951) | (1973) | (1905) | (1978) | (1928) | (1938) |
| Min | 20.7 | 27.1 | 35.9 | 10.0 | 5.00 | 56.7 | 202 | 77.4 | 43.0 | 14.9 | 10.5 | 5.77 |
| (WY) | (1934) | (1977) | (1934) | (1918) | (1918) | (1940) | (2010) | (1934) | (1964) | (1933) | (1933) | (1933) |

**05381000 BLACK RIVER AT NEILLSVILLE, WI—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1905 - 2013 | |
|---|---|---|---|---|---|---|
| **Annual total** | 147,035 | | 266,317 | | | |
| **Annual mean** | 402 | | 730 | | 598 | |
| **Highest annual mean** | | | | | 1,213 | 1942 |
| **Lowest annual mean** | | | | | 160 | 1931 |
| **Highest daily mean** | 6,450 | Jun 21 | 8,450 | Apr 10 | 38,200 | Sep 10, 1938 |
| **Lowest daily mean** | 18 | Sep 4 | 21 | Oct 6 | 0.70 | Aug 10, 1936 [a] |
| **Annual seven-day minimum** | 20 | Aug 31 | 24 | Oct 3 | 1.0 | Aug 10, 1936 |
| **Maximum peak flow** | | | 10,500 | Apr 10 | 48,800 | Sep 10, 1938 |
| **Maximum peak stage** | | | 12.62 | Apr 10 | 23.80 | Sep 10, 1938 |
| **Instantaneous low flow** | | | 20 | Oct 6 | 0.60 | Aug 15, 1936 |
| **Annual runoff (cfsm)** | 0.536 | | 0.974 | | 0.798 | |
| **Annual runoff (inches)** | 7.30 | | 13.23 | | 10.85 | |
| **10 percent exceeds** | 1,020 | | 2,950 | | 1,500 | |
| **50 percent exceeds** | 98 | | 79 | | 150 | |
| **90 percent exceeds** | 29 | | 33 | | 37 | |

[a] Also occurred Aug. 11, 14-16, 1936.