Water-Data Report 2011

# 03114500 MIDDLE ISLAND CREEK AT LITTLE, WV

Upper Ohio-Little Kanawha Basin
Little Muskingum-Middle Island Subbasin

LOCATION.--Lat 39°28′30″, long 80°59′50″ referenced to North American Datum of 1927, Tyler County, WV, Hydrologic Unit 05030201, on right bank at downstream side of highway bridge at Little, 0.1 mi upstream from Stewarts Run, 5.0 mi west of Middleborne, and at mile 25.1.

DRAINAGE AREA.--458 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1915 to September 1916 (daily discharge and annual maxima), October 1916 to September 1920 (daily mean gage height and annual maxima), October 1920 to September 1922, and October 1925 to September 1928 (annual maxima), October 1928 to September 1932 (daily discharge and annual maxima), October 1932 to September 1995 (daily discharge and peaks). April 2009 to current year (daily discharge and peaks).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 631.32 ft above COE1912. Prior to July 11, 1947, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of estimated daily discharge (ice effect, no gage-height record), which are poor. Flood of Mar. 1997 published in WDR WV-97-1, p. 8.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 1875 reached a stage of about 33.5 ft, 30,000 $ft^3/s$. Flood of Mar. 1997 reached a stage of 19.5 ft (from floodmarks), discharge 17,000 $ft^3/s$.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Dec 1 | 1630 | 12,300 | 15.25 |
| Feb 25 | 1700 | 9,380 | 12.91 |
| Mar 10 | 0530 | 9,870 | 13.30 |
| Mar 11 | 0600 | 9,560 | 13.05 |
| Apr 5 | 1700 | 11,500 | 14.63 |
| Apr 13 | 0530 | 9,120 | 12.70 |
| Apr 20 | 0730 | *14,700 | *17.13 |

Minimum discharge, 1.7 $ft^3/s$, Oct. 26, gage height, 1.83 ft.



Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03114500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03114500.2011.pdf

**03114500 MIDDLE ISLAND CREEK AT LITTLE, WV—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**
**DAILY MEAN VALUES**
[e, estimated]

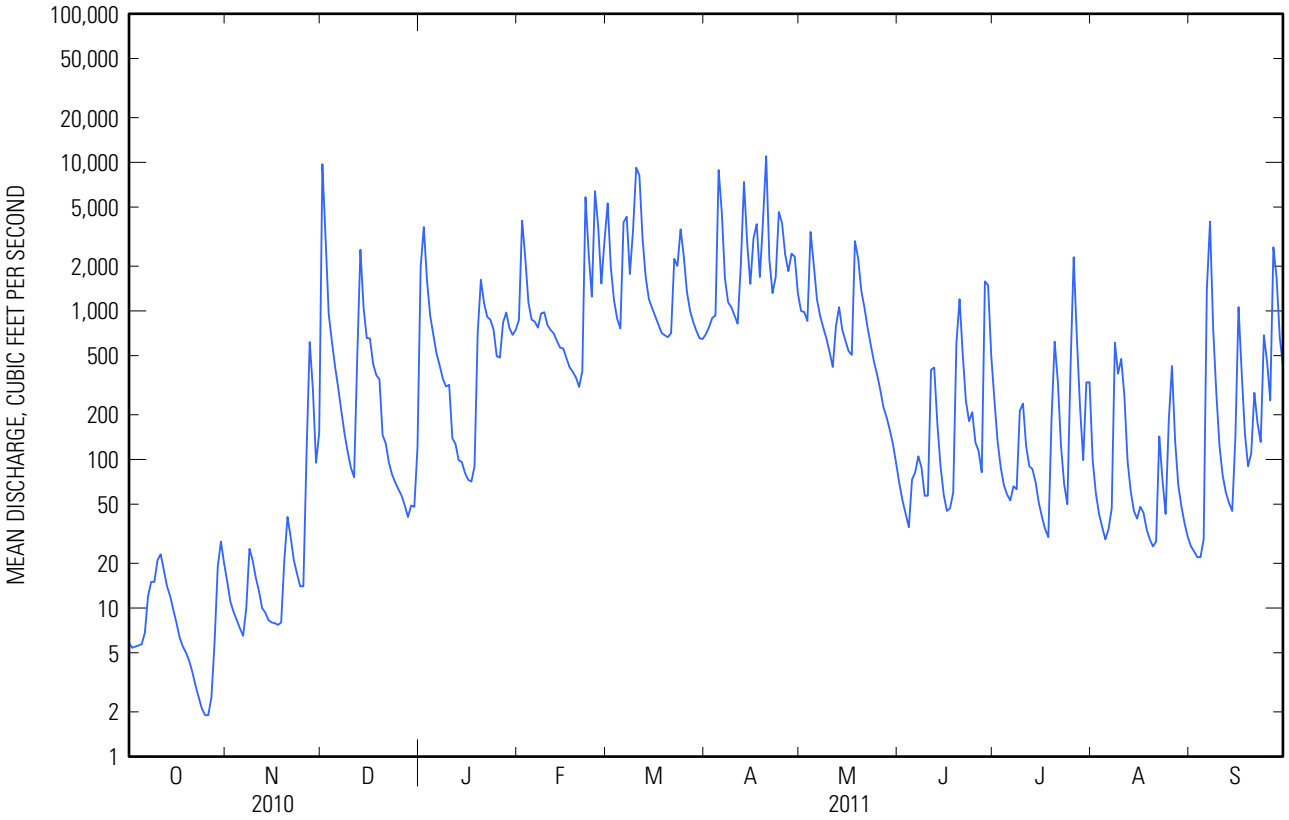
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.8 | 15 | 9,720 | 1,970 | 869 | 5,300 | 699 | 999 | 69 | 250 | 98 | 26 |
| 2 | 5.4 | 11 | 3,120 | 3,670 | 4,050 | 1,950 | 780 | 983 | 53 | 132 | 59 | 24 |
| 3 | 5.5 | 9.4 | 951 | 1,610 | 2,280 | 1,180 | 898 | 856 | 43 | 88 | 43 | 22 |
| 4 | 5.6 | 8.3 | 624 | 931 | 1,140 | 884 | 932 | 3,400 | 35 | 67 | 35 | 22 |
| 5 | 5.7 | 7.3 | 423 | 692 | 875 | 762 | 8,870 | 2,060 | 73 | 58 | 29 | 29 |
| 6 | 6.8 | 6.5 | 303 | 518 | 845 | 3,940 | 4,590 | 1,200 | 82 | 53 | 34 | 1,390 |
| 7 | 12 | 10 | 211 | 429 | 772 | 4,300 | 1,640 | 929 | 105 | 66 | 47 | 3,990 |
| 8 | 15 | 25 | 149 | 350 | 961 | 1,770 | 1,140 | 772 | 88 | 63 | 611 | 756 |
| 9 | 15 | 21 | 112 | 310 | 979 | 3,500 | 1,060 | 652 | 57 | 212 | 378 | 278 |
| 10 | 21 | 16 | 88 | 318 | 802 | 9,210 | 932 | 529 | 57 | 238 | 475 | 123 |
| 11 | 23 | 13 | 76 | 139 | 743 | 8,180 | 820 | 419 | 401 | 123 | 266 | 78 |
| 12 | 18 | 10 | 488 | 127 | 705 | 3,070 | 2,050 | 790 | 416 | 90 | 97 | 60 |
| 13 | 14 | 9.3 | 2,580 | 99 | 626 | 1,680 | 7,370 | 1,060 | 173 | 86 | 61 | 51 |
| 14 | 12 | 8.3 | 1,050 | 96 | 566 | e1,200 | 2,880 | 745 | 90 | 70 | 45 | 45 |
| 15 | 9.7 | 8.0 | 657 | 81 | 558 | e1,050 | 1,520 | 630 | 58 | 51 | e40 | 140 |
| 16 | 7.9 | 7.9 | 652 | 73 | 480 | e920 | 3,080 | 536 | 45 | 41 | e48 | 1,060 |
| 17 | 6.3 | 7.7 | 441 | 71 | 417 | e810 | 3,840 | 506 | 47 | 34 | 44 | 382 |
| 18 | 5.5 | 8.0 | 370 | 90 | 388 | 711 | 1,690 | 2,950 | 60 | 30 | 34 | 151 |
| 19 | 5.0 | 21 | 346 | 716 | 356 | 685 | 4,070 | 2,260 | 605 | 184 | 29 | 90 |
| 20 | 4.4 | 41 | 146 | 1,620 | 308 | 666 | 11,000 | 1,370 | 1,200 | 621 | 26 | 110 |
| 21 | 3.7 | 30 | 128 | 1,130 | 393 | 709 | 2,220 | 1,050 | 512 | 334 | 28 | 281 |
| 22 | 3.0 | 21 | 95 | 913 | 5,830 | 2,240 | 1,320 | 768 | 247 | 123 | 143 | 175 |
| 23 | 2.5 | 17 | 79 | 872 | 2,440 | 2,010 | 1,690 | 588 | 181 | 68 | 73 | 131 |
| 24 | 2.1 | 14 | 70 | 748 | 1,250 | 3,540 | 4,630 | 455 | 208 | 50 | 43 | 685 |
| 25 | 1.9 | 14 | 63 | 496 | 6,400 | 2,340 | 3,900 | 372 | 130 | 410 | 183 | 457 |
| 26 | 1.9 | 109 | 57 | 485 | 3,710 | 1,340 | 2,390 | 293 | 114 | 2,300 | 426 | 250 |
| 27 | 2.5 | 618 | 49 | 835 | 1,530 | 1,000 | 1,850 | 224 | 82 | 663 | 133 | 2,680 |
| 28 | 5.9 | 300 | 41 | 975 | 2,980 | 839 | 2,430 | 192 | 1,580 | 226 | 67 | 1,680 |
| 29 | 19 | 95 | 49 | 769 | --- | 731 | 2,320 | 158 | 1,490 | 99 | 48 | 667 |
| 30 | 28 | 151 | 48 | 689 | --- | 653 | 1,310 | 126 | 497 | 330 | 37 | 425 |
| 31 | 20 | --- | 120 | 745 | --- | 648 | --- | 94 | --- | 331 | 30 | --- |
| Total | 294.1 | 1,632.7 | 23,306 | 22,567 | 43,253 | 67,818 | 83,921 | 27,966 | 8,798 | 7,491 | 3,710 | 16,258 |
| Mean | 9.49 | 54.4 | 752 | 728 | 1,545 | 2,188 | 2,797 | 902 | 293 | 242 | 120 | 542 |
| Max | 28 | 618 | 9,720 | 3,670 | 6,400 | 9,210 | 11,000 | 3,400 | 1,580 | 2,300 | 611 | 3,990 |
| Min | 1.9 | 6.5 | 41 | 71 | 308 | 648 | 699 | 94 | 35 | 30 | 26 | 22 |
| Cfsm | 0.02 | 0.12 | 1.64 | 1.59 | 3.37 | 4.78 | 6.11 | 1.97 | 0.64 | 0.53 | 0.26 | 1.18 |
| In. | 0.02 | 0.13 | 1.89 | 1.83 | 3.51 | 5.51 | 6.82 | 2.27 | 0.71 | 0.61 | 0.30 | 1.32 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2011, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 174 | 403 | 854 | 1,082 | 1,196 | 1,332 | 1,028 | 737 | 395 | 207 | 233 | 168 |
| Max | 1,252 | 2,611 | 3,004 | 3,501 | 2,381 | 3,681 | 2,797 | 2,385 | 2,431 | 1,562 | 1,396 | 1,449 |
| (WY) | (1990) | (1986) | (1991) | (1937) | (1939) | (1963) | (2011) | (1968) | (1974) | (1958) | (1935) | (1945) |
| Min | 0.00 | 0.12 | 0.47 | 15.3 | 107 | 289 | 134 | 54.2 | 4.55 | 1.68 | 0.20 | 0.00 |
| (WY) | (1931) | (1931) | (1931) | (1931) | (1934) | (1969) | (1971) | (1930) | (1936) | (1930) | (1930) | (1930) |

**03114500 MIDDLE ISLAND CREEK AT LITTLE, WV—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2010 | | Water Year 2011 | | Water Years 1916 - 2011 | |
|---|---|---|---|---|---|---|
| **Annual total** | 182,394.8 | | 307,014.8 | | | |
| **Annual mean** | 500 | | 841 | | 648 | |
| **Highest annual mean** | | | | | 1,098 | 1994 |
| **Lowest annual mean** | | | | | 247 | 1931 |
| **Highest daily mean** | 11,200 | May 3 | 11,000 | Apr 20 | 22,000 | Nov 5, 1985 |
| **Lowest daily mean** | 1.9 | Oct 25[a] | 1.9 | Oct 25[a] | 0.00 | (b) |
| **Annual seven-day minimum** | 2.5 | Oct 21 | 2.5 | Oct 21 | 0.00 | Sep 1, 1930 |
| **Maximum peak flow** | | | 14,700 | Apr 20 | 25,000 | Jun 26, 1950 |
| **Maximum peak stage** | | | 17.13 | Apr 20 | [c]28.00 | Jun 26, 1950 |
| **Instantaneous low flow** | | | 1.7 | Oct 26 | 0.00 | (b) |
| **Annual runoff (cfsm)** | 1.09 | | 1.84 | | 1.42 | |
| **Annual runoff (inches)** | 14.81 | | 24.94 | | 19.23 | |
| **10 percent exceeds** | 1,200 | | 2,310 | | 1,560 | |
| **50 percent exceeds** | 128 | | 300 | | 200 | |
| **90 percent exceeds** | 7.4 | | 14 | | 12 | |

[a] Also Oct. 26.
[b] Many days in 1922, 1929, 1930.
[c] From floodmarks.