Water-Data Report 2011

# 01595500 NORTH BRANCH POTOMAC RIVER AT KITZMILLER, MD

Potomac Basin
North Branch Potomac Subbasin

LOCATION.--Lat 39°23'38.0", long 79°10'54.1" referenced to North American Datum of 1983, Garrett County, MD, Hydrologic Unit 02070002, on left bank 0.6 mi downstream from bridge on State Highway 38 in Kitzmiller, 1.5 mi downstream from Wolfden Run, and at mile 68.9.

DRAINAGE AREA.--225 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1949 to September 1985, October 1985 to September 2003 (operated as a crest-stage partial-record station only), October 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,572.26 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 15, 1954, at site 0.3 mi upstream at datum 7.58 ft higher. Oct. 15, 1954, to Nov. 20, 1955, nonrecording gage at bridge 0.5 mi upstream at datum 21.51 ft higher.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are poor. Flow regulated by Stony River Reservoir, 30.0 mi upstream from station until use of reservoir discontinued June 1987 (see station 01595200). Regulation since 1963 by Virginia Electric and Power Company dam (Mount Storm Lake), 20.0 mi upstream from station. U.S. Army Corps of Engineers satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Feb 18 | 1930 | 3,910 | 6.42 |
| Feb 25 | 1545 | 4,780 | 6.85 |
| Feb 28 | 1745 | 3,960 | 6.45 |
| Mar 10 | 2130 | 5,180 | 7.03 |
| Apr 16 | 1915 | 4,910 | 6.91 |
| Apr 19 | 1615 | 11,200 | 9.07 |
| May 17 | 1645 | 7,190 | 7.83 |
| May 18 | 0530 | 10,600 | 8.92 |
| Jun 20 | 0715 | 5,060 | 6.98 |
| Sep 6 | 2030 | *11,800 | *9.23 |

Minimum discharge, 26 $ft^3/s$, Oct. 19.



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 01595500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01595500.2011.pdf

**01595500 NORTH BRANCH POTOMAC RIVER AT KITZMILLER, MD—Continued**

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

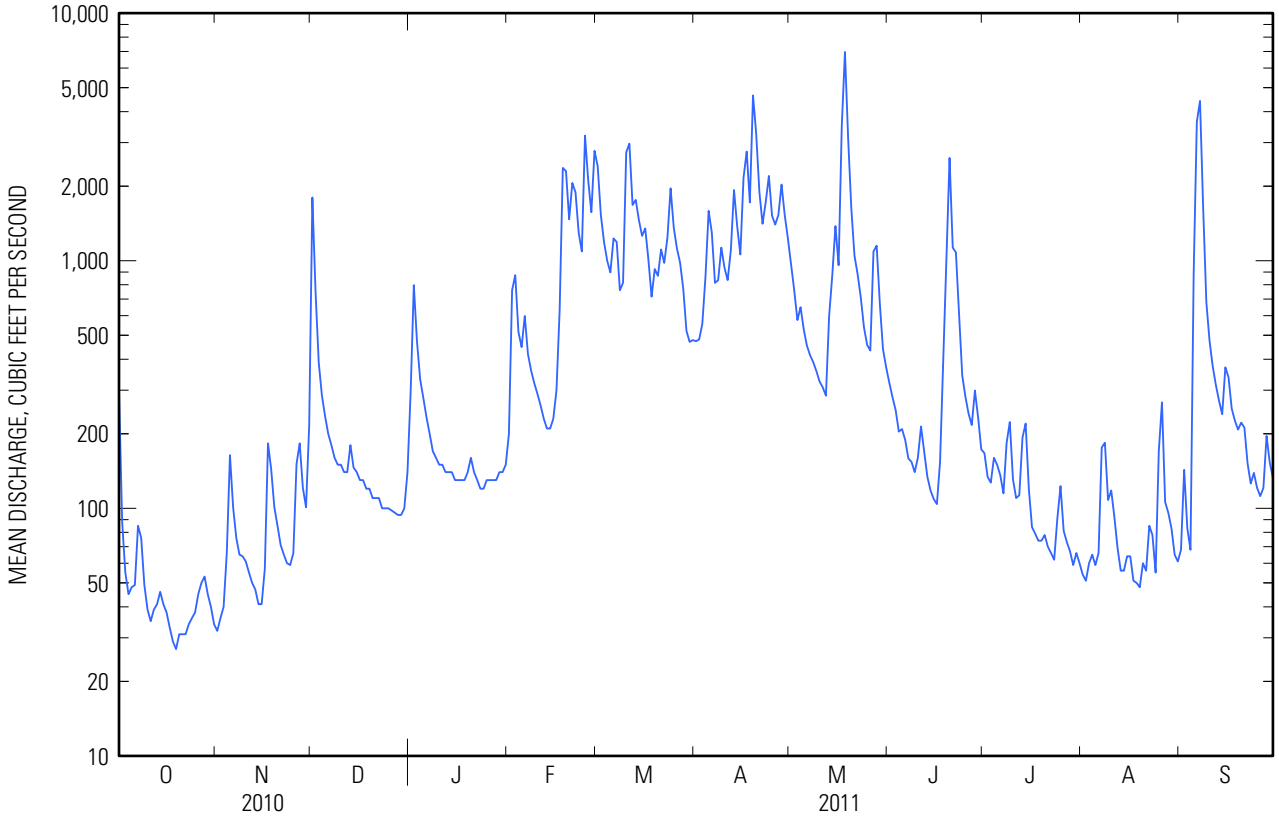
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 296 | 32 | 1,800 | 295 | e200 | 2,410 | 473 | 967 | 321 | 167 | 54 | 68 |
| 2 | 88 | 36 | 750 | 797 | e760 | 1,530 | 481 | 759 | 281 | 134 | 51 | 143 |
| 3 | 55 | 40 | 389 | 472 | 874 | 1,190 | 555 | 576 | 249 | 127 | 60 | 83 |
| 4 | 45 | 66 | 286 | 332 | 516 | 1,000 | 860 | 649 | 204 | 160 | 65 | 68 |
| 5 | 48 | 164 | 236 | 279 | 448 | 897 | 1,590 | 528 | 209 | 150 | 59 | 885 |
| 6 | 49 | 101 | 200 | 233 | 598 | 1,230 | 1,300 | 454 | 189 | 136 | 66 | 3,640 |
| 7 | 85 | 76 | e180 | e200 | 420 | 1,190 | 814 | 415 | 159 | 115 | 176 | 4,420 |
| 8 | 76 | 65 | e160 | e170 | e360 | 760 | 834 | 389 | 154 | 184 | 184 | 1,630 |
| 9 | 49 | 64 | e150 | e160 | 320 | 815 | 1,130 | 358 | 140 | 223 | 108 | 680 |
| 10 | 39 | 61 | e150 | e150 | e290 | 2,740 | 937 | 325 | 160 | 131 | 118 | 476 |
| 11 | 35 | 55 | e140 | e150 | e260 | 2,970 | 835 | 308 | 214 | 110 | 92 | 375 |
| 12 | 39 | 50 | e140 | e140 | e230 | 1,680 | 1,100 | 285 | 169 | 113 | 69 | 315 |
| 13 | 41 | 47 | e180 | e140 | e210 | 1,760 | 1,930 | 596 | 134 | 193 | 56 | 272 |
| 14 | 46 | 41 | 146 | e140 | e210 | 1,460 | 1,380 | 872 | 118 | 220 | 56 | 240 |
| 15 | 41 | 41 | e140 | e130 | e230 | 1,260 | 1,060 | 1,380 | 109 | 120 | 64 | 371 |
| 16 | 38 | 57 | e130 | e130 | e300 | 1,350 | 2,160 | 959 | 104 | 84 | 64 | 338 |
| 17 | 33 | 183 | e130 | e130 | 631 | 1,010 | 2,760 | 3,510 | 154 | 79 | 51 | 253 |
| 18 | 29 | 144 | e120 | e130 | 2,370 | 716 | 1,720 | 6,970 | 395 | 74 | 50 | 226 |
| 19 | 27 | 101 | e120 | e140 | 2,300 | 925 | 4,650 | 3,130 | 1,010 | 74 | 48 | 208 |
| 20 | 31 | 85 | e110 | e160 | 1,470 | 869 | 3,260 | 1,630 | 2,600 | 78 | 60 | 222 |
| 21 | 31 | 71 | e110 | e140 | 2,060 | 1,110 | 1,900 | 1,050 | 1,130 | 70 | 56 | 212 |
| 22 | 31 | 65 | e110 | e130 | 1,890 | 980 | 1,410 | 881 | 1,080 | 66 | 85 | 152 |
| 23 | 34 | 60 | e100 | e120 | 1,300 | 1,240 | 1,720 | 710 | 607 | 62 | 78 | 126 |
| 24 | 36 | 59 | e100 | e120 | 1,090 | 1,960 | 2,200 | 538 | 344 | 91 | 55 | 139 |
| 25 | 38 | 66 | e100 | e130 | 3,200 | 1,360 | 1,520 | 457 | 282 | 123 | 170 | 121 |
| 26 | 45 | 151 | e98 | e130 | 2,120 | 1,120 | 1,400 | 434 | 241 | 81 | 268 | 112 |
| 27 | 50 | 183 | e96 | e130 | 1,570 | 981 | 1,530 | 1,090 | 217 | 73 | 106 | 121 |
| 28 | 53 | 121 | e94 | e130 | 2,780 | 769 | 2,030 | 1,150 | 299 | 67 | 96 | 196 |
| 29 | 45 | 101 | e94 | e140 | --- | 521 | 1,530 | 671 | 233 | 59 | 83 | 153 |
| 30 | 40 | 217 | e100 | e140 | --- | 470 | 1,230 | 439 | 173 | 66 | 65 | 133 |
| 31 | 34 | --- | 140 | e150 | --- | 478 | --- | 371 | --- | 60 | 61 | --- |
| Total | 1,627 | 2,603 | 6,799 | 5,938 | 29,007 | 38,751 | 46,299 | 32,851 | 11,679 | 3,490 | 2,674 | 16,378 |
| Mean | 52.5 | 86.8 | 219 | 192 | 1,036 | 1,250 | 1,543 | 1,060 | 389 | 113 | 86.3 | 546 |
| Max | 296 | 217 | 1,800 | 797 | 3,200 | 2,970 | 4,650 | 6,970 | 2,600 | 223 | 268 | 4,420 |
| Min | 27 | 32 | 94 | 120 | 200 | 470 | 473 | 285 | 104 | 59 | 48 | 68 |
| Cfsm | 0.23 | 0.39 | 0.97 | 0.85 | 4.60 | 5.56 | 6.86 | 4.71 | 1.73 | 0.50 | 0.38 | 2.43 |
| In. | 0.27 | 0.43 | 1.12 | 0.98 | 4.80 | 6.41 | 7.65 | 5.43 | 1.93 | 0.58 | 0.44 | 2.71 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1985, 2004 - 2011, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 193 | 293 | 549 | 574 | 693 | 1,008 | 790 | 549 | 339 | 176 | 173 | 126 |
| Max | 908 | 933 | 1,659 | 1,297 | 1,655 | 2,193 | 1,561 | 1,247 | 1,003 | 867 | 955 | 546 |
| (WY) | (1977) | (1973) | (1973) | (1952) | (1956) | (1963) | (1958) | (2008) | (1981) | (1978) | (1955) | (2011) |
| Min | 23.3 | 36.0 | 88.6 | 94.2 | 190 | 328 | 301 | 200 | 63.2 | 28.5 | 24.2 | 20.2 |
| (WY) | (1954) | (1954) | (1966) | (1981) | (1978) | (2009) | (1968) | (1977) | (1969) | (1952) | (1965) | (1953) |

**01595500 NORTH BRANCH POTOMAC RIVER AT KITZMILLER, MD—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2010 | | Water Year 2011 | | Water Years 1950 - 1985, 2004 - 2011 | |
|---|---|---|---|---|---|---|
| **Annual total** | 143,528 | | 198,096 | | | |
| **Annual mean** | 393 | | 543 | | [a]454 | |
| **Highest annual mean** | | | | | 615 | 1973 |
| **Lowest annual mean** | | | | | 276 | 1959 |
| **Highest daily mean** | 11,300 | Mar 13 | 6,970 | May 18 | 13,200 | Aug 18, 1955 |
| **Lowest daily mean** | 19 | Sep 26 | 27 | Oct 19 | 4.6 | Oct 3, 1953 |
| **Annual seven-day minimum** | 26 | Sep 1 | 31 | Oct 17 | 4.9 | Oct 1, 1953 |
| **Maximum peak flow** | | | 11,800 | Sep 6 | [b]50,400 | Nov 5, 1985 |
| **Maximum peak stage** | | | 9.23 | Sep 6 | [c]14.85 | Nov 5, 1985 |
| **Instantaneous low flow** | | | 26 | Oct 19 | 4.6 | Oct 3, 1953 |
| **Annual runoff (cfsm)** | 1.75 | | 2.41 | | 2.02 | |
| **Annual runoff (inches)** | 23.73 | | 32.75 | | 27.42 | |
| **10 percent exceeds** | 784 | | 1,530 | | 1,070 | |
| **50 percent exceeds** | 180 | | 176 | | 253 | |
| **90 percent exceeds** | 33 | | 52 | | 45 | |

[a] Adjusted for storage 1950-1985.
[b] From rating curve extended above 19,000 ft³/s on basis of slope-area measurement of peak flow.
[c] At present site and datum.