# 01651000 NORTHWEST BRANCH ANACOSTIA RIVER NEAR HYATTSVILLE, MD

Potomac Basin
Middle Potomac-Anacostia-Occoquan Subbasin

LOCATION.--Lat 38°57'08.4", long 76°57'57.8" referenced to North American Datum of 1983, Prince Georgés County, MD, Hydrologic Unit 02070010, on right bank at downstream side of bridge on Queens Chapel Road (State Highway 500), 0.8 mi downstream from Sligo Branch, 1.0 mi west of Hyattsville, and 1.6 mi upstream from confluence with Northeast Branch.

DRAINAGE AREA.--49.4 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1938 to current year. Monthly discharge only for July 1938 published in WSP 1302.

REVISED RECORDS.--WSP 971: 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 17.10 ft above National Geodetic Vertical Datum of 1929 (Washington Suburban Sanitary Commission bench mark). Prior to Oct. 22, 1938, nonrecording gage; Oct. 22, 1938 to Sept. 17, 1951, water-stage recorder; Sept. 17, 1951 to Aug. 29, 1952, nonrecording gage and crest-stage gage.

REMARKS.--No estimated daily discharges. Records good. Prior to June 1961, low flow regulated by storage at Burnt Mills Dam, 7.0 mi upstream from station. Inflow pumped from Patuxent River to augment water supply for Washington Suburban Sanitary District, August 1939 to August 1960. Small diversion since 1962 for irrigation of golf courses upstream from station. U.S. Geological Survey satellite data-collection platform at station. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Dec 7 | 2215 | *2,920 | *5.12 |
| No other peak greater than base discharge. | | | |

Minimum discharge, 2.4 $ft^3/s$, Sept. 15-17.



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 01651000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01651000.2012.pdf

**01651000 NORTHWEST BRANCH ANACOSTIA RIVER NEAR HYATTSVILLE, MD—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

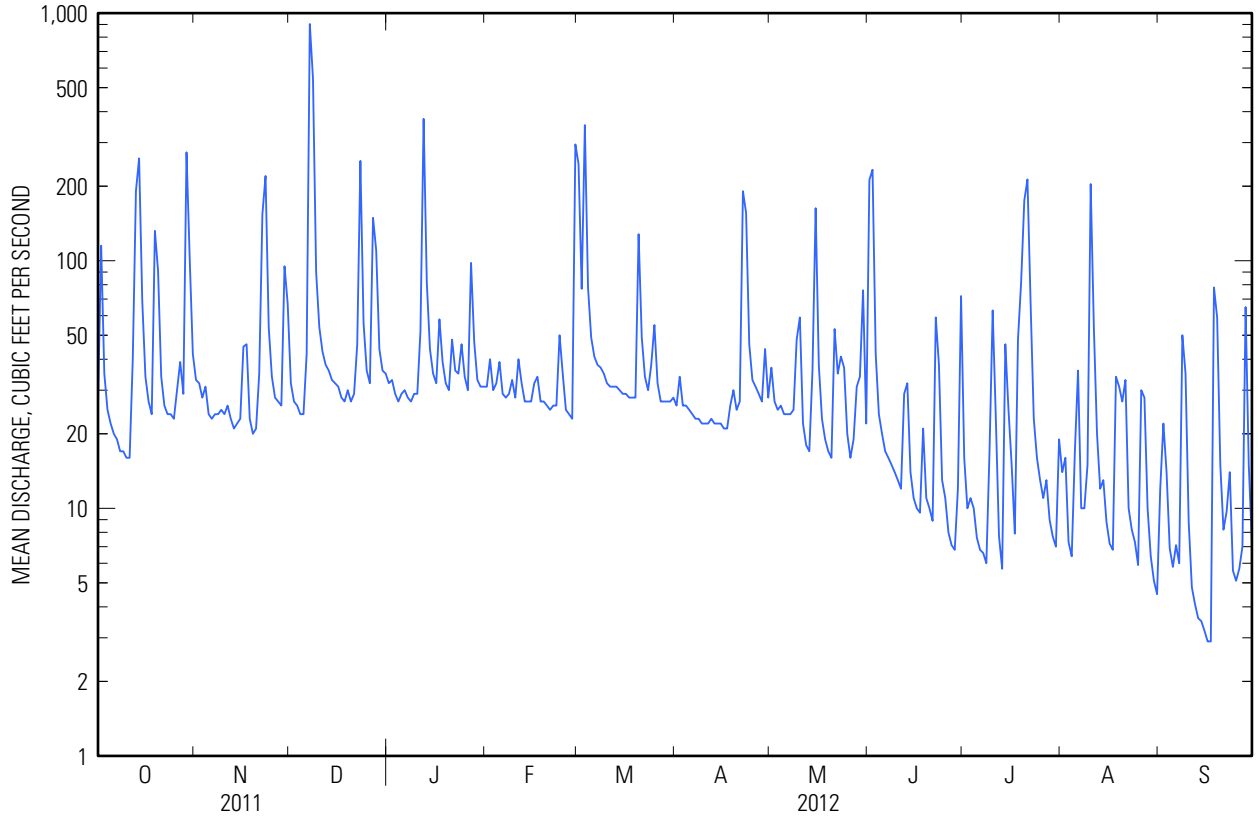
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 26 | 33 | 32 | 32 | 31 | 246 | 26 | 37 | 212 | 16 | 14 | 12 |
| 2 | 115 | 32 | 27 | 33 | 40 | 77 | 34 | 27 | 233 | 10 | 16 | 22 |
| 3 | 35 | 28 | 26 | 29 | 30 | 353 | 26 | 25 | 42 | 11 | 7.3 | 14 |
| 4 | 25 | 31 | 24 | 27 | 32 | 78 | 26 | 26 | 24 | 10 | 6.4 | 6.9 |
| 5 | 22 | 24 | 24 | 29 | 39 | 49 | 25 | 24 | 20 | 7.6 | 17 | 5.8 |
| 6 | 20 | 23 | 42 | 30 | 29 | 41 | 24 | 24 | 17 | 6.8 | 36 | 7.1 |
| 7 | 19 | 24 | 904 | 28 | 28 | 38 | 23 | 24 | 16 | 6.6 | 10 | 6.0 |
| 8 | 17 | 24 | 545 | 27 | 29 | 37 | 23 | 25 | 15 | 6.0 | 10 | 50 |
| 9 | 17 | 25 | 90 | 29 | 33 | 35 | 22 | 48 | 14 | 17 | 15 | 35 |
| 10 | 16 | 24 | 54 | 29 | 28 | 32 | 22 | 59 | 13 | 63 | 204 | 8.8 |
| 11 | 16 | 26 | 43 | 52 | 40 | 31 | 22 | 22 | 12 | 23 | 54 | 4.8 |
| 12 | 40 | 23 | 38 | 374 | 32 | 31 | 23 | 18 | 29 | 7.7 | 20 | 4.1 |
| 13 | 191 | 21 | 36 | 82 | 27 | 31 | 22 | 17 | 32 | 5.7 | 12 | 3.6 |
| 14 | 259 | 22 | 33 | 44 | 27 | 30 | 22 | 36 | 14 | 46 | 13 | 3.5 |
| 15 | 69 | 23 | 32 | 35 | 27 | 29 | 22 | 163 | 11 | 25 | 8.8 | 3.2 |
| 16 | 34 | 45 | 31 | 32 | 32 | 29 | 21 | 38 | 10 | 15 | 7.2 | 2.9 |
| 17 | 27 | 46 | 28 | 58 | 34 | 28 | 21 | 23 | 9.6 | 7.9 | 6.8 | 2.9 |
| 18 | 24 | 23 | 27 | 39 | 27 | 28 | 26 | 19 | 21 | 48 | 34 | 78 |
| 19 | 132 | 20 | 30 | 32 | 27 | 28 | 30 | 17 | 11 | 82 | 31 | 59 |
| 20 | 91 | 21 | 27 | 30 | 26 | 128 | 25 | 16 | 10 | 175 | 27 | 15 |
| 21 | 34 | 35 | 29 | 48 | 25 | 49 | 27 | 53 | 8.9 | 213 | 33 | 8.2 |
| 22 | 26 | 154 | 46 | 36 | 26 | 34 | 191 | 35 | 59 | 67 | 10 | 9.7 |
| 23 | 24 | 220 | 253 | 35 | 26 | 30 | 156 | 41 | 38 | 23 | 8.2 | 14 |
| 24 | 24 | 54 | 56 | 46 | 50 | 38 | 46 | 37 | 13 | 16 | 7.3 | 5.6 |
| 25 | 23 | 34 | 36 | 34 | 35 | 55 | 33 | 20 | 11 | 13 | 5.9 | 5.1 |
| 26 | 30 | 28 | 32 | 30 | 25 | 32 | 31 | 16 | 8.0 | 11 | 30 | 5.7 |
| 27 | 39 | 27 | 149 | 98 | 24 | 27 | 29 | 19 | 7.1 | 13 | 28 | 7.0 |
| 28 | 29 | 26 | 110 | 47 | 23 | 27 | 27 | 31 | 6.8 | 9.0 | 10 | 65 |
| 29 | 274 | 95 | 44 | 33 | 295 | 27 | 44 | 34 | 12 | 7.7 | 6.4 | 15 |
| 30 | 103 | 67 | 36 | 31 | --- | 27 | 28 | 76 | 72 | 7.0 | 5.1 | 7.3 |
| 31 | 42 | --- | 35 | 31 | --- | 28 | --- | 22 | --- | 19 | 4.5 | --- |
| Total | 1,843 | 1,278 | 2,919 | 1,540 | 1,147 | 1,753 | 1,097 | 1,072 | 1,001.4 | 988.0 | 697.9 | 487.2 |
| Mean | 59.5 | 42.6 | 94.2 | 49.7 | 39.6 | 56.5 | 36.6 | 34.6 | 33.4 | 31.9 | 22.5 | 16.2 |
| Max | 274 | 220 | 904 | 374 | 295 | 353 | 191 | 163 | 233 | 213 | 204 | 78 |
| Min | 16 | 20 | 24 | 27 | 23 | 27 | 21 | 16 | 6.8 | 5.7 | 4.5 | 2.9 |
| Cfsm | 1.20 | 0.86 | 1.91 | 1.01 | 0.80 | 1.14 | 0.74 | 0.70 | 0.68 | 0.65 | 0.46 | 0.33 |
| In. | 1.39 | 0.96 | 2.20 | 1.16 | 0.86 | 1.32 | 0.83 | 0.81 | 0.75 | 0.74 | 0.53 | 0.37 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 33.3 | 43.0 | 52.8 | 54.5 | 63.6 | 72.4 | 63.0 | 57.3 | 48.8 | 36.9 | 37.1 | 40.9 |
| Max | 191 | 128 | 162 | 173 | 183 | 176 | 167 | 198 | 318 | 159 | 193 | 327 |
| (WY) | (2006) | (1994) | (2010) | (1979) | (1979) | (1994) | (1952) | (1989) | (2006) | (1945) | (1955) | (1975) |
| Min | 2.44 | 4.30 | 11.4 | 8.04 | 12.1 | 23.5 | 15.3 | 9.91 | 10.1 | 4.07 | 3.61 | 2.58 |
| (WY) | (1942) | (1942) | (1966) | (1955) | (2002) | (1981) | (1950) | (1941) | (1940) | (1944) | (1943) | (1941) |

**01651000 NORTHWEST BRANCH ANACOSTIA RIVER NEAR HYATTSVILLE, MD—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1938 - 2012 | |
|---|---|---|---|---|---|---|
| **Annual total** | 21,724.8 | | 15,823.5 | | | |
| **Annual mean** | 59.5 | | 43.2 | | 50.3 | |
| **Highest annual mean** | | | | | 97.2 | 2003 |
| **Lowest annual mean** | | | | | 20.8 | 1947 |
| **Highest daily mean** | 1,120 | Sep 8 | 904 | Dec 7 | 5,480 | Jun 26, 2006 |
| **Lowest daily mean** | 4.1 | Aug 12 | 2.9 | Sep 16[a] | 0.40 | Sep 8, 1966[b] |
| **Annual seven-day minimum** | 6.0 | Jul 28 | 3.6 | Sep 11 | 0.60 | Sep 7, 1966 |
| **Maximum peak flow** | | | 2,920 | Dec 7 | [c]18,000 | Jun 22, 1972 |
| **Maximum peak stage** | | | 5.12 | Dec 7 | 14.47 | Jun 22, 1972 |
| **Instantaneous low flow** | | | 2.4 | Sep 15[d] | 0.20 | Sep 11, 1966 |
| **Annual runoff (cfsm)** | 1.20 | | 0.875 | | 1.02 | |
| **Annual runoff (inches)** | 16.36 | | 11.92 | | 13.83 | |
| **10 percent exceeds** | 104 | | 73 | | 95 | |
| **50 percent exceeds** | 29 | | 27 | | 24 | |
| **90 percent exceeds** | 13 | | 8.0 | | 6.9 | |

[a] Sept. 16, 17.
[b] Sept. 8, 11, 1966.
[c] From rating curve extended above 4,000 ft³/s on basis of the average of slope-area and step-backwater measurements of peak flow.
[d] Sept. 15-17.