# 01589795 SOUTH FORK JABEZ BRANCH AT MILLERSVILLE, MD

Upper Chesapeake Basin
Severn Subbasin

LOCATION.--Lat 39°04'05.7", long 76°39'05.5" referenced to North American Datum of 1983, Anne Arundel County, MD, Hydrologic Unit 02060004, on left bank 300 ft upstream from the confluence with the West Branch Jabez Branch, 0.5 mi northwest of Millersville, 1.0 mi west of Gambrills, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--1.0 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1989 to September 1990, July 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 53.61 ft above North American Vertical Datum of 1988.

REMARKS.--No estimated daily discharges. Records poor. U.S. Geological Survey satellite data-collection platform at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Dec 7 | 2145 | 113 | 6.18 |
| Mar 3 | 0130 | 49 | 5.67 |
| Aug 26 | 1330 | *231 | *6.71 |

Minimum discharge, 0.12 $ft^3/s$, Sept. 4- 8.



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 01589795, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01589795.2012.pdf

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**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 | 0.59 | 0.67 | 0.51 | 0.35 | 0.44 | 3.8 | 0.35 | 0.47 | 0.58 | 0.24 | 0.18 | 0.18 |
| 2 | 1.3 | 0.55 | 0.44 | 0.29 | 0.45 | 1.1 | 0.35 | 0.44 | 0.88 | 0.25 | 0.40 | 0.16 |
| 3 | 0.61 | 0.54 | 0.44 | 0.27 | 0.44 | 13 | 0.35 | 0.48 | 0.40 | 0.24 | 0.25 | 0.16 |
| 4 | 0.44 | 0.54 | 0.44 | 0.27 | 0.45 | 2.1 | 0.35 | 0.58 | 0.37 | 0.23 | 0.18 | 0.14 |
| 5 | 0.44 | 0.54 | 0.44 | 0.27 | 0.44 | 1.4 | 0.35 | 0.48 | 0.38 | 0.23 | 0.22 | 0.12 |
| 6 | 0.44 | 0.54 | 0.48 | 0.27 | 0.44 | 1.1 | 0.35 | 0.44 | 0.35 | 0.22 | 0.20 | 0.14 |
| 7 | 0.44 | 0.54 | 26 | 0.27 | 0.42 | 0.89 | 0.41 | 0.44 | 0.35 | 0.21 | 0.21 | 0.14 |
| 8 | 0.44 | 0.54 | 13 | 0.27 | 0.44 | 0.77 | 0.40 | 0.44 | 0.35 | 0.21 | 0.21 | 0.32 |
| 9 | 0.44 | 0.54 | 1.5 | 0.27 | 0.44 | 0.59 | 0.39 | 0.52 | 0.37 | 0.28 | 0.19 | 0.29 |
| 10 | 0.44 | 0.54 | 0.92 | 0.26 | 0.44 | 0.48 | 0.41 | 0.41 | 0.44 | 0.21 | 0.29 | 0.21 |
| 11 | 0.43 | 0.54 | 0.68 | 0.32 | 0.50 | 0.44 | 0.42 | 0.38 | 0.41 | 0.21 | 0.30 | 0.21 |
| 12 | 0.36 | 0.42 | 0.57 | 3.3 | 0.44 | 0.44 | 0.38 | 0.35 | 0.55 | 0.21 | 0.24 | 0.21 |
| 13 | 0.81 | 0.35 | 0.41 | 1.3 | 0.36 | 0.44 | 0.35 | 0.35 | 0.45 | 0.21 | 0.21 | 0.21 |
| 14 | 2.9 | 0.35 | 0.35 | 0.74 | 0.35 | 0.41 | 0.35 | 0.37 | 0.41 | 0.24 | 0.21 | 0.17 |
| 15 | 1.2 | 0.35 | 0.32 | 0.61 | 0.35 | 0.42 | 0.35 | 0.73 | 0.39 | 0.24 | 0.22 | 0.16 |
| 16 | 0.98 | 0.44 | 0.26 | 0.54 | 0.35 | 0.44 | 0.35 | 0.40 | 0.35 | 0.23 | 0.21 | 0.16 |
| 17 | 0.89 | 0.48 | 0.21 | 0.82 | 0.35 | 0.40 | 0.35 | 0.35 | 0.35 | 0.22 | 0.22 | 0.16 |
| 18 | 0.78 | 0.44 | 0.21 | 0.62 | 0.35 | 0.35 | 0.35 | 0.35 | 0.43 | 0.86 | 0.25 | 0.54 |
| 19 | 1.4 | 0.44 | 0.21 | 0.45 | 0.35 | 0.37 | 0.31 | 0.35 | 0.39 | 0.50 | 0.21 | 0.36 |
| 20 | 1.0 | 0.44 | 0.21 | 0.44 | 0.35 | 0.35 | 0.30 | 0.36 | 0.35 | 1.5 | 0.25 | 0.30 |
| 21 | 0.44 | 0.44 | 0.21 | 0.46 | 0.35 | 0.35 | 0.27 | 0.52 | 0.35 | 1.8 | 0.24 | 0.27 |
| 22 | 0.44 | 3.1 | 0.31 | 0.44 | 0.35 | 0.35 | 1.0 | 0.44 | 0.30 | 0.65 | 0.21 | 0.27 |
| 23 | 0.44 | 2.8 | 1.8 | 0.44 | 0.35 | 0.35 | 0.91 | 0.40 | 0.28 | 0.39 | 0.21 | 0.27 |
| 24 | 0.44 | 0.86 | 0.33 | 0.60 | 0.45 | 0.42 | 0.67 | 0.35 | 0.26 | 0.35 | 0.21 | 0.27 |
| 25 | 0.44 | 0.63 | 0.25 | 0.39 | 0.40 | 0.36 | 0.59 | 0.35 | 0.26 | 0.27 | 0.21 | 0.27 |
| 26 | 0.52 | 0.54 | 0.21 | 0.35 | 0.35 | 0.35 | 0.61 | 0.35 | 0.27 | 0.27 | 12 | 0.27 |
| 27 | 0.54 | 0.46 | 2.2 | 3.3 | 0.35 | 0.35 | 0.54 | 0.41 | 0.25 | 0.26 | 1.1 | 0.28 |
| 28 | 0.57 | 0.44 | 1.8 | 1.2 | 0.35 | 0.35 | 0.55 | 0.32 | 0.25 | 0.20 | 0.47 | 0.29 |
| 29 | 6.4 | 0.94 | 0.59 | 0.66 | 3.9 | 0.35 | 0.51 | 0.56 | 0.32 | 0.20 | 0.49 | 0.27 |
| 30 | 2.1 | 0.79 | 0.39 | 0.54 | --- | 0.35 | 0.44 | 0.54 | 0.32 | 0.19 | 0.38 | 0.28 |
| 31 | 0.79 | --- | 0.35 | 0.50 | --- | 0.35 | --- | 0.35 | --- | 0.19 | 0.29 | --- |
| Total | 29.45 | 20.79 | 56.04 | 20.81 | 15.00 | 33.22 | 13.31 | 13.28 | 11.41 | 11.51 | 20.46 | 7.08 |
| Mean | 0.95 | 0.69 | 1.81 | 0.67 | 0.52 | 1.07 | 0.44 | 0.43 | 0.38 | 0.37 | 0.66 | 0.24 |
| Max | 6.4 | 3.1 | 26 | 3.3 | 3.9 | 13 | 1.0 | 0.73 | 0.88 | 1.8 | 12 | 0.54 |
| Min | 0.36 | 0.35 | 0.21 | 0.26 | 0.35 | 0.35 | 0.27 | 0.32 | 0.25 | 0.19 | 0.18 | 0.12 |
| Cfsm | 0.95 | 0.69 | 1.81 | 0.67 | 0.52 | 1.07 | 0.44 | 0.43 | 0.38 | 0.37 | 0.66 | 0.24 |
| In. | 1.10 | 0.77 | 2.08 | 0.77 | 0.56 | 1.24 | 0.50 | 0.49 | 0.42 | 0.43 | 0.76 | 0.26 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 – 1990, 1997 – 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 0.57 | 0.53 | 0.80 | 0.52 | 0.64 | 1.04 | 0.60 | 0.91 | 0.56 | 0.42 | 0.51 | 1.13 |
| Max | 1.85 | 1.59 | 4.12 | 1.60 | 2.01 | 4.47 | 1.65 | 6.22 | 2.21 | 0.90 | 2.55 | 7.56 |
| (WY) | (2011) | (2007) | (2010) | (1998) | (1998) | (2010) | (2007) | (2008) | (2003) | (2011) | (2011) | (2011) |
| Min | 0.13 | 0.16 | 0.22 | 0.18 | 0.14 | 0.18 | 0.22 | 0.21 | 0.16 | 0.16 | 0.14 | 0.16 |
| (WY) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2006) | (2006) | (2002) | (2002) | (2002) | (2002) |

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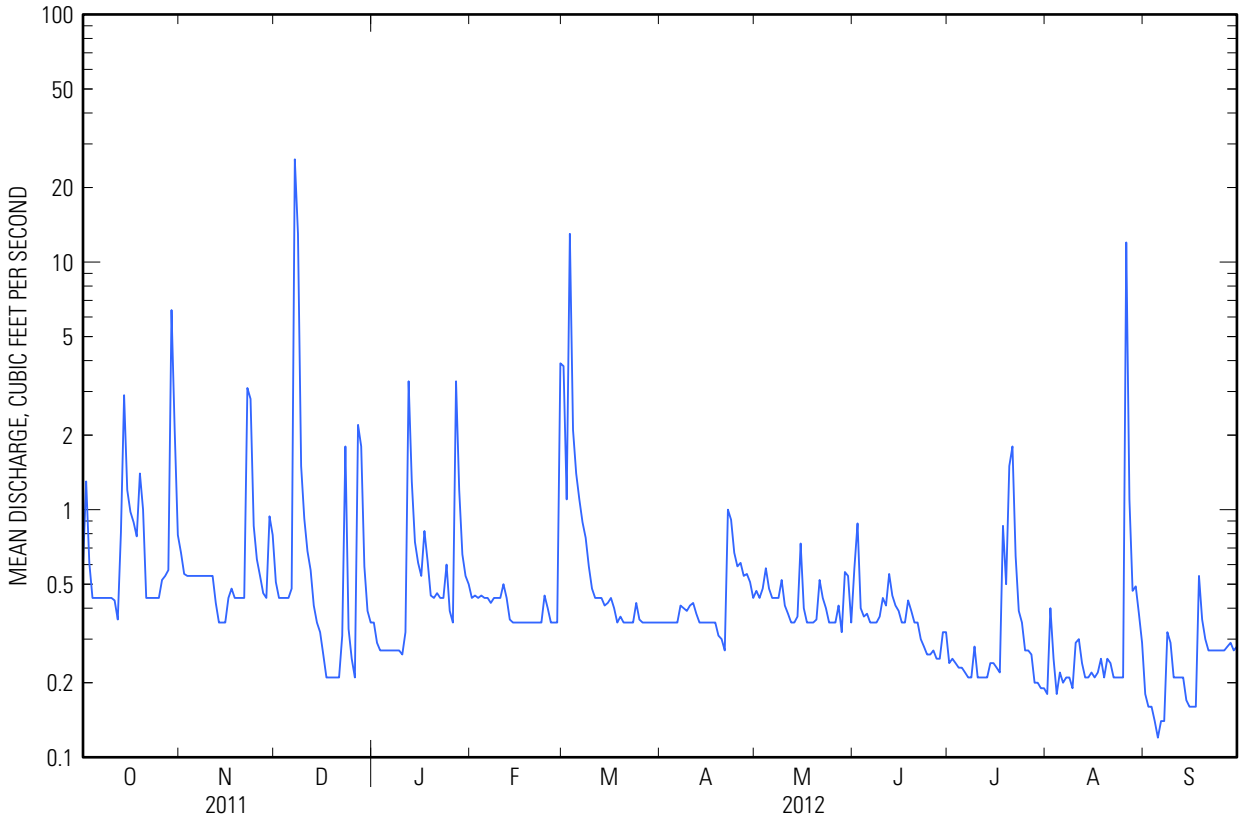
**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1989 – 1990, 1997 – 2012 | |
|---|---|---|---|---|---|---|
| **Annual total** | 568.05 | | 252.36 | | | |
| **Annual mean** | 1.56 | | 0.69 | | 0.69 | |
| **Highest annual mean** | | | | | 1.50 | 2011 |
| **Lowest annual mean** | | | | | 0.21 | 2002 |
| **Highest daily mean** | [e]61 | Sep 7 | 26 | Dec 7 | 150 | May 12, 2008 |
| **Lowest daily mean** | 0.08 | Jun 25[a] | 0.12 | Sep 5 | 0.03 | Aug 2, 2010 |
| **Annual seven-day minimum** | 0.09 | Jun 21 | 0.15 | Sep 1 | 0.07 | Aug 1, 2010 |
| **Maximum peak flow** | | | 231 | Aug 26 | [b]1,430 | Sep 7, 2011 |
| **Maximum peak stage** | | | 6.71 | Aug 26 | [c]13.75 | Sep 7, 2011 |
| **Instantaneous low flow** | | | 0.12 | Sep 4[d] | 0.02 | Aug 1, 2010[f] |
| **Annual runoff (cfsm)** | 1.56 | | 0.690 | | 0.694 | |
| **Annual runoff (inches)** | 21.13 | | 9.39 | | 9.43 | |
| **10 percent exceeds** | 1.8 | | 0.89 | | 0.71 | |
| **50 percent exceeds** | 0.40 | | 0.38 | | 0.34 | |
| **90 percent exceeds** | 0.21 | | 0.21 | | 0.17 | |

[e] Estimated.
[a] June 25-27.
[b] From rating curve extended above 22 ft³/s on the basis of slope area measurement at gage height of 13.75 ft.
[c] From floodmarks.
[d] Sept. 4-8.
[f] Aug. 1, 12, 2010.