

Water-Data Report 2011

**01644390 TEN MILE CREEK NEAR BOYDS, MD**

Potomac Basin  
Middle Potomac-Catoctin Subbasin

LOCATION.--Lat 39°12'57.6", long 77°18'59.1" referenced to North American Datum of 1983, Montgomery County, MD, Hydrologic Unit 02070008, on left bank 0.3 mi upstream from Little Seneca Lake, and 2 mi north of Boyds, MD.

DRAINAGE AREA.--4.48 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2010 to September 2011.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 410 ft above National Geodetic Vertical Datum of 1929, from digital elevation model.

REMARKS.--Records good except those above 1,000 ft<sup>3</sup>/s, and those for estimated daily discharges (days prior to gage activation, backwater, ice effect, and missing gage-height record), which are poor. U.S. Geological Survey satellite collection platform at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,520 ft<sup>3</sup>/s, Sept. 8, gage height, 9.68 ft; minimum discharge, 0.22 ft<sup>3</sup>/s, Aug. 2.

## 01644390 TEN MILE CREEK NEAR BOYDS, 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            | e25   | e1.00 | 14    | 1.1   | e1.1  | 5.3   | 5.2   | 8.9   | 2.2   | 0.64  | 0.28  | 0.69   |
| 2            | e3.1  | e0.90 | 4.4   | 1.2   | 14    | 3.9   | 4.0   | 7.9   | 1.9   | 0.60  | 0.27  | 0.76   |
| 3            | e1.9  | e0.91 | 2.5   | 1.0   | 6.8   | 3.3   | 3.6   | 7.1   | 1.9   | 1.8   | 0.36  | 6.2    |
| 4            | e3.0  | e5.7  | 2.0   | 0.94  | 3.5   | 3.0   | 3.4   | 11    | 2.0   | 1.1   | 0.44  | 1.6    |
| 5            | e1.6  | 3.1   | 1.7   | 0.93  | 3.7   | 2.9   | 9.2   | 7.2   | 2.1   | 0.89  | 0.31  | 26     |
| 6            | e1.2  | 1.5   | 1.5   | 0.91  | 6.7   | 110   | 5.2   | 6.4   | 1.9   | 0.76  | 0.49  | 42     |
| 7            | e1.1  | 1.1   | 1.3   | e0.87 | 6.5   | 37    | 4.5   | 6.0   | 1.8   | 0.71  | 2.4   | 35     |
| 8            | e0.95 | 1.1   | 1.2   | e0.82 | 5.9   | 11    | 5.6   | 5.1   | 1.8   | 3.3   | 0.95  | 695    |
| 9            | e0.85 | 1.1   | 1.1   | e0.79 | 3.9   | 8.0   | 5.9   | 4.6   | 1.6   | 1.3   | 0.88  | e22    |
| 10           | e0.82 | 0.98  | 1.1   | 0.75  | 3.0   | 94    | 4.8   | 4.2   | 1.4   | 0.76  | 0.66  | e14    |
| 11           | e0.79 | 0.91  | 1.1   | e0.75 | e2.7  | 31    | 4.6   | 3.8   | 1.4   | 2.0   | 0.38  | e8.9   |
| 12           | e0.77 | 0.87  | 3.0   | e0.75 | e2.6  | 12    | 29    | 3.6   | 1.4   | 1.9   | 0.32  | e7.7   |
| 13           | e0.76 | 0.87  | 3.1   | e0.75 | 2.3   | 8.7   | 26    | 3.7   | 1.3   | 1.7   | 0.36  | 6.9    |
| 14           | e5.6  | 0.86  | 1.7   | e0.76 | 6.9   | 7.3   | 10    | 4.5   | 1.6   | 1.1   | 25    | 12     |
| 15           | e2.1  | 0.84  | 1.4   | e0.77 | 4.5   | 6.2   | 7.5   | 19    | 1.3   | 0.81  | 6.7   | 12     |
| 16           | e1.3  | 3.0   | e1.2  | e0.78 | 3.2   | 9.7   | 72    | 11    | 1.3   | 0.73  | 1.1   | 6.3    |
| 17           | e1.1  | 4.8   | e1.2  | 0.79  | 3.2   | 6.3   | 30    | 7.1   | 1.9   | 0.67  | 0.67  | 5.4    |
| 18           | e0.92 | 2.1   | e1.2  | 1.1   | 3.1   | 5.5   | 13    | 8.9   | 1.9   | 0.62  | 0.70  | 4.8    |
| 19           | e2.8  | 1.5   | e1.2  | 1.5   | 2.7   | 4.9   | 13    | 8.0   | 1.3   | 0.61  | 1.0   | 4.3    |
| 20           | e1.5  | 1.2   | e1.1  | 1.6   | 2.4   | 4.4   | 11    | 6.5   | 1.6   | 0.59  | 0.62  | 4.2    |
| 21           | e1.1  | 1.1   | 1.1   | 1.3   | 2.5   | 5.5   | 8.4   | 5.0   | 1.3   | 0.54  | 0.62  | 3.9    |
| 22           | e0.96 | 1.0   | 1.2   | e1.0  | 2.6   | 4.7   | 8.1   | 4.4   | 1.2   | 0.47  | 0.60  | 3.8    |
| 23           | e0.90 | 1.0   | 1.1   | e0.88 | 2.3   | 5.0   | 9.3   | 4.6   | 1.1   | 0.44  | 0.47  | 7.6    |
| 24           | e0.87 | 0.94  | 1.1   | e0.74 | 2.6   | 6.9   | 28    | 4.0   | 1.0   | 0.42  | 0.51  | 5.3    |
| 25           | e0.87 | 0.99  | 1.1   | e0.78 | 20    | 4.8   | 16    | 3.7   | 0.91  | 0.98  | 0.67  | 4.0    |
| 26           | e0.87 | 1.00  | 1.1   | e0.91 | 6.2   | 4.2   | 9.6   | 3.2   | 0.88  | 0.74  | 0.63  | 3.7    |
| 27           | e14   | 0.92  | 0.97  | e1.0  | 4.4   | 4.0   | 13    | 3.1   | 0.95  | 0.46  | 1.6   | 4.0    |
| 28           | 1.9   | 0.86  | 0.93  | e1.1  | 6.2   | 3.7   | 38    | 3.2   | 0.86  | 0.41  | 9.8   | 4.3    |
| 29           | e1.5  | 0.85  | 0.95  | e1.1  | ---   | 3.5   | 14    | 2.8   | 0.72  | 0.40  | 1.5   | 4.0    |
| 30           | e1.3  | 1.0   | 0.95  | e1.1  | ---   | 3.6   | 10    | 2.5   | 0.66  | 0.35  | 0.90  | 3.4    |
| 31           | e1.1  | ---   | 1.0   | e1.1  | ---   | 4.0   | ---   | 2.3   | ---   | 0.32  | 0.71  | ---    |
| <b>Total</b> | 82.53 | 44.00 | 58.50 | 29.87 | 135.5 | 424.3 | 421.9 | 183.3 | 43.18 | 28.12 | 61.90 | 959.75 |
| <b>Mean</b>  | 2.66  | 1.47  | 1.89  | 0.96  | 4.84  | 13.7  | 14.1  | 5.91  | 1.44  | 0.91  | 2.00  | 32.0   |
| <b>Max</b>   | 25    | 5.7   | 14    | 1.6   | 20    | 110   | 72    | 19    | 2.2   | 3.3   | 25    | 695    |
| <b>Min</b>   | 0.76  | 0.84  | 0.93  | 0.74  | 1.1   | 2.9   | 3.4   | 2.3   | 0.66  | 0.32  | 0.27  | 0.69   |
| <b>Cfsm</b>  | 0.59  | 0.33  | 0.42  | 0.22  | 1.08  | 3.06  | 3.14  | 1.32  | 0.32  | 0.20  | 0.45  | 7.14   |
| <b>In.</b>   | 0.69  | 0.37  | 0.49  | 0.25  | 1.13  | 3.52  | 3.50  | 1.52  | 0.36  | 0.23  | 0.51  | 7.97   |

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

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 2.66   | 1.47   | 1.89   | 0.96   | 4.84   | 13.7   | 14.1   | 5.91   | 1.44   | 0.91   | 2.00   | 32.0   |
| <b>Max</b>  | 2.66   | 1.47   | 1.89   | 0.96   | 4.84   | 13.7   | 14.1   | 5.91   | 1.44   | 0.91   | 2.00   | 32.0   |
| <b>(WY)</b> | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) |
| <b>Min</b>  | 2.66   | 1.47   | 1.89   | 0.96   | 4.84   | 13.7   | 14.1   | 5.91   | 1.44   | 0.91   | 2.00   | 32.0   |
| <b>(WY)</b> | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) | (2011) |

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SUMMARY STATISTICS

| Water Year 2011          |                          |
|--------------------------|--------------------------|
| Annual total             | 2,472.85                 |
| Annual mean              | 6.77                     |
| Highest daily mean       | 695 Sep 8                |
| Lowest daily mean        | 0.27 Aug 2               |
| Annual seven-day minimum | 0.33 Jul 30              |
| Maximum peak flow        | <sup>a</sup> 5,520 Sep 8 |
| Maximum peak stage       | <sup>b</sup> 9.68 Sep 8  |
| Instantaneous low flow   | 0.22 Aug 2               |
| Annual runoff (cfsm)     | 1.51                     |
| Annual runoff (inches)   | 20.53                    |
| 10 percent exceeds       | 10                       |
| 50 percent exceeds       | 1.8                      |
| 90 percent exceeds       | 0.71                     |

<sup>a</sup> From rating curve extended above 400 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 9.68 ft.

<sup>b</sup> From floodmark.

