

Water-Data Report 2011

**01650800 SLIGO CREEK NEAR TAKOMA PARK, MD**

Potomac Basin  
Middle Potomac-Anacostia-Occoquan Subbasin

LOCATION.--Lat 38°59'10.4", long 77°00'17.5" referenced to North American Datum of 1983, Montgomery County, MD, Hydrologic Unit 02070010, 0.5 mi northwest of Takoma Park, 0.7 mi upstream from confluence with Long Branch, 2.0 mi upstream from mouth.

DRAINAGE AREA.--6.45 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2008 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.-- Records good except those for estimated daily discharges (backwater, ice effect, equipment malfunction), 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, 1,120 ft<sup>3</sup>/s, Aug. 14, gage height, 4.84 ft; minimum discharge, 0.56 ft<sup>3</sup>/s, Aug. 11, 12.

## 01650800 SLIGO CREEK NEAR TAKOMA PARK, 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	54	2.5	38	e1.8	3.0	10	10	3.4	1.9	1.3	0.86	1.6
2	9.4	1.5	9.8	e2.0	49	3.5	6.5	e3.2	2.1	1.1	0.99	25
3	7.7	1.4	2.4	e1.7	13	2.7	5.0	e3.0	1.7	39	0.95	3.2
4	25	42	2.0	e1.6	3.9	2.6	4.2	17	1.6	6.8	1.2	1.7
5	3.0	12	1.9	e1.5	12	2.5	21	e5.4	1.6	1.6	0.96	6.5
6	2.4	3.4	e1.8	e1.5	8.4	70	6.4	e4.0	1.6	1.3	11	56
7	2.5	2.0	e1.6	e1.6	5.7	33	4.0	e3.2	1.5	1.2	4.7	86
8	1.9	e2.0	e1.6	e1.5	4.7	8.0	14	e2.8	1.5	32	2.3	155
9	1.8	e1.8	1.8	e1.5	3.5	3.9	9.6	e3.0	1.5	18	1.0	42
10	1.6	e1.9	1.8	e1.6	3.1	128	5.0	e3.0	1.5	2.4	0.82	12
11	1.6	e2.0	2.1	e1.6	e2.6	34	4.3	e3.0	1.5	4.6	0.64	4.9
12	1.7	e1.7	28	e2.4	e2.6	11	15	e2.8	1.5	6.3	e0.70	4.2
13	1.5	e1.6	8.7	e1.8	e2.8	6.6	21	e2.6	1.4	3.2	e7.0	3.6
14	29	e1.6	4.0	e1.6	e3.2	5.6	7.6	e7.0	1.3	1.5	e60	3.2
15	7.0	e2.0	e2.2	e1.5	3.9	6.0	4.7	e5.0	1.3	1.9	11	3.4
16	2.2	18	e1.8	e1.6	3.1	29	35	e3.2	19	1.4	1.7	2.8
17	1.6	19	e2.0	e2.0	e2.8	6.6	22	e3.8	12	1.2	1.2	2.7
18	1.6	2.4	e1.7	13	e2.6	5.4	9.4	e8.0	9.4	e1.1	7.5	2.7
19	1.6	1.9	e1.6	5.2	e2.4	4.9	5.7	e4.0	1.9	e1.0	9.1	2.9
20	1.7	1.8	e1.6	3.3	e2.4	4.5	5.3	2.8	9.7	e1.8	1.6	4.1
21	1.6	e1.8	e1.6	2.8	e3.0	15	5.0	2.3	2.3	e1.4	30	3.2
22	1.5	e2.0	e1.6	e2.4	e6.0	5.6	10	2.2	1.8	e1.2	11	4.8
23	1.5	e1.8	e1.5	e2.2	e3.0	7.1	11	2.5	1.6	e1.2	1.9	19
24	1.5	1.7	e1.5	e2.0	e3.0	9.7	10	2.5	1.4	1.4	1.3	7.2
25	1.4	e2.6	e1.4	2.3	13	5.0	12	2.3	1.3	6.5	13	3.2
26	2.4	e2.2	e1.4	e10	3.9	4.3	5.1	2.2	1.2	3.7	7.9	3.1
27	27	e2.4	e1.4	11	2.6	4.5	4.1	2.6	1.3	1.3	81	2.5
28	5.6	e2.0	e1.6	6.9	26	4.6	9.1	3.3	9.7	1.0	101	28
29	1.9	e1.8	e1.7	4.8	---	4.9	5.3	2.3	11	e0.84	10	22
30	1.7	e2.2	e1.5	4.0	---	6.2	3.6	2.1	1.9	e0.74	2.3	4.9
31	1.8	---	e1.6	3.9	---	7.7	---	2.0	---	0.71	1.7	---
<b>Total</b>	206.7	143.0	133.2	102.6	195.2	452.4	290.9	116.5	109.0	148.69	386.32	521.4
<b>Mean</b>	6.67	4.77	4.30	3.31	6.97	14.6	9.70	3.76	3.63	4.80	12.5	17.4
<b>Max</b>	54	42	38	13	49	128	35	17	19	39	101	155
<b>Min</b>	1.4	1.4	1.4	1.5	2.4	2.5	3.6	2.0	1.2	0.71	0.64	1.6
<b>Cfsm</b>	1.03	0.74	0.67	0.51	1.08	2.26	1.50	0.58	0.56	0.74	1.93	2.69
<b>In.</b>	1.19	0.82	0.77	0.59	1.13	2.61	1.68	0.67	0.63	0.86	2.23	3.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	6.41	5.64	10.4	5.93	6.47	10.6	8.66	10.4	8.76	5.83	11.7	10.6
<b>Max</b>	8.86	8.60	19.3	7.81	10.4	14.6	9.93	20.6	17.6	9.03	17.9	17.4
<b>(WY)</b>	(2010)	(2010)	(2010)	(2010)	(2010)	(2011)	(2009)	(2009)	(2009)	(2010)	(2010)	(2011)
<b>Min</b>	3.71	3.56	4.30	3.31	2.04	4.57	6.35	3.76	3.63	3.66	4.78	4.30
<b>(WY)</b>	(2009)	(2009)	(2011)	(2011)	(2009)	(2009)	(2010)	(2011)	(2011)	(2009)	(2009)	(2009)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2009 - 2011	
<b>Annual total</b>	3,098.1		2,805.91			
<b>Annual mean</b>	8.49		7.69		8.47	
<b>Highest annual mean</b>					10.3	2010
<b>Lowest annual mean</b>					7.44	2009
<b>Highest daily mean</b>	233	Sep 30	155	Sep 8	295	May 26, 2009
<b>Lowest daily mean</b>	1.1	Aug 11 <sup>a</sup>	0.64	Aug 11	0.64	Aug 11, 2011
<b>Annual seven-day minimum</b>	1.3	Sep 5	0.87	Jul 28	0.87	Jul 28, 2011
<b>Maximum peak flow</b>			1,120	Aug 14	<sup>b</sup> 2,420	May 26, 2009
<b>Maximum peak stage</b>			4.84	Aug 14	<sup>c</sup> 6.79	May 26, 2009
<b>Instantaneous low flow</b>			0.56	Aug 11 <sup>d</sup>	0.56	Aug 11, 2011 <sup>d</sup>
<b>Annual runoff (cfsm)</b>	1.32		1.19		1.31	
<b>Annual runoff (inches)</b>	17.87		16.18		17.83	
<b>10 percent exceeds</b>	14		17		17	
<b>50 percent exceeds</b>	3.8		2.8		3.2	
<b>90 percent exceeds</b>	1.5		1.4		1.4	

<sup>a</sup> Aug. 11, Sept. 21, 26.

<sup>b</sup> From rating curve extended above 120 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height of 6.79 ft.

<sup>c</sup> From floodmarks.

<sup>d</sup> August 11, 12, 2011.

