

01644371 LITTLE SENECA CREEK TRIBUTARY NEAR CLARKSBURG, MD

Potomac Basin
Middle Potomac-Catoctin Subbasin

LOCATION.--Lat 39°13'53", long 77°15'22" referenced to North American Datum of 1927, Montgomery County, MD, Hydrologic Unit 02070008, on left bank 950 ft upstream from confluence with Little Seneca Creek, and 1.4 mi east-southeast of Clarksburg.

DRAINAGE AREA.--0.43 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2004 to current year.

REVISED RECORDS.--WDR US 2006: 2004-05.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 497.53 ft above North American Vertical Datum of 1988. Prior to April 22, 2010, gage located on left bank, 50 ft downstream at same gage datum.

REMARKS.--Records poor, including those for estimated daily discharges (backwater). 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 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 29	2110	93	6.07
Jan 30	1950	57	5.77
Jan 31	0005	122	6.27
May 23	1825	180	6.71
Jun 10	0205	*252	*7.46

Minimum discharge, 0.25 ft³/s, Oct. 17, July 19, 20, Sept. 20, 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.48	1.6	0.37	0.48	1.8	0.65	0.61	0.47	0.45	0.54	0.46	0.30
2	6.2	1.4	0.36	0.44	1.4	0.65	0.58	0.46	0.49	0.52	0.43	0.30
3	1.1	1.1	0.36	0.41	1.3	0.63	0.58	0.45	1.6	0.55	0.45	0.30
4	0.48	0.91	0.36	0.39	1.1	0.59	0.58	0.44	0.49	0.50	0.43	0.31
5	0.35	0.71	0.34	0.36	0.96	0.58	0.57	0.43	0.44	0.46	0.37	0.31
6	0.32	0.64	0.32	0.36	0.84	1.1	0.52	0.41	1.4	0.43	0.46	0.32
7	0.35	0.59	0.33	0.34	0.78	1.0	0.52	0.84	2.9	0.45	0.47	0.32
8	0.34	0.55	0.32	0.33	0.76	0.85	0.52	0.88	1.1	0.43	0.53	0.32
9	0.33	0.52	0.37	0.32	0.68	0.80	0.51	0.61	0.77	0.41	0.47	0.32
10	0.33	0.49	0.36	0.32	0.65	0.79	0.49	0.88	30	0.40	0.44	0.32
11	0.32	0.46	0.33	0.34	0.78	0.74	0.47	1.00	4.3	0.39	0.41	0.32
12	0.32	0.46	0.32	0.32	0.65	2.5	0.64	0.61	1.8	0.53	0.39	0.42
13	0.32	1.3	0.32	0.32	0.67	1.2	0.51	0.57	3.2	0.44	0.46	0.31
14	0.32	0.60	0.32	0.32	0.67	0.97	0.50	0.55	1.5	0.39	0.41	0.32
15	0.37	0.53	0.32	0.50	0.67	0.90	0.50	0.53	1.2	0.37	0.39	0.31
16	0.31	0.51	0.32	2.4	0.70	0.87	0.48	0.48	1.1	0.35	0.38	0.32
17	0.29	0.47	0.32	0.76	0.65	0.80	0.49	0.45	0.92	0.33	0.36	0.31
18	0.38	0.46	0.31	0.58	0.61	0.86	0.48	0.45	0.90	0.31	0.36	0.31
19	0.73	0.45	0.29	0.53	0.63	0.81	1.4	0.43	0.85	0.30	0.36	0.30
20	0.35	0.42	0.34	0.49	0.58	0.73	0.96	0.41	0.77	2.0	0.35	0.29
21	0.34	0.41	1.4	0.45	0.58	0.72	0.64	0.39	0.75	1.1	0.35	0.38
22	e0.34	0.41	0.44	0.40	0.58	0.67	0.59	0.52	0.70	0.64	0.34	0.32
23	0.34	0.41	0.42	0.37	0.58	0.65	0.58	8.5	0.69	0.91	0.35	0.31
24	e0.34	0.41	0.44	0.36	0.57	0.65	0.56	3.5	0.72	0.56	0.34	0.31
25	e0.34	0.40	0.49	0.35	0.53	0.79	0.52	1.2	0.64	0.52	0.32	0.30
26	e0.34	0.40	4.0	0.35	0.69	0.72	0.51	0.91	0.60	0.50	0.31	0.29
27	e0.34	0.43	2.3	0.34	0.86	0.67	0.50	0.69	0.58	0.50	0.31	0.28
28	e0.34	0.41	0.81	0.40	0.69	0.65	0.48	0.68	0.58	0.56	0.33	0.29
29	36	0.38	0.70	0.39	---	0.65	0.52	0.59	0.55	0.50	0.33	0.29
30	15	0.38	0.59	11	---	0.63	0.51	0.53	0.54	0.45	0.31	0.29
31	2.7	---	0.52	15	---	0.64	---	0.49	---	0.45	0.30	---
Total	70.41	18.21	18.79	39.72	21.96	25.46	17.32	29.35	62.53	16.79	11.97	9.39
Mean	2.27	0.61	0.61	1.28	0.78	0.82	0.58	0.95	2.08	0.54	0.39	0.31
Max	36	1.6	4.0	15	1.8	2.5	1.4	8.5	30	2.0	0.53	0.42
Min	0.29	0.38	0.29	0.32	0.53	0.58	0.47	0.39	0.44	0.30	0.30	0.28
Cfsm	5.28	1.41	1.41	2.98	1.82	1.91	1.34	2.20	4.85	1.26	0.90	0.73
In.	6.09	1.58	1.63	3.44	1.90	2.20	1.50	2.54	5.41	1.45	1.04	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.82	0.69	0.81	0.72	0.63	0.85	0.81	0.73	0.69	0.49	0.40	0.63
Max	2.27	1.63	1.58	1.28	0.86	1.45	1.40	1.42	2.08	0.92	0.82	2.84
(WY)	(2013)	(2012)	(2010)	(2013)	(2012)	(2011)	(2011)	(2008)	(2013)	(2006)	(2009)	(2011)
Min	0.21	0.30	0.45	0.30	0.31	0.32	0.31	0.28	0.18	0.20	0.16	0.09
(WY)	(2008)	(2008)	(2011)	(2011)	(2005)	(2006)	(2006)	(2006)	(2005)	(2010)	(2005)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2004 - 2013	
Annual total	251.62		341.90			
Annual mean	0.69		0.94		0.69	
Highest annual mean					0.94	2013
Lowest annual mean					0.44	2005
Highest daily mean	36	Oct 29	36	Oct 29	36	Oct 29, 2012
Lowest daily mean	0.18	Jul 7	0.28	Sep 27	0.05	Sep 13, 2005
Annual seven-day minimum	0.21	Jul 2	0.29	Sep 24	0.07	Sep 7, 2005
Maximum peak flow			252	Jun 10	^a 444	Sep 8, 2011
Maximum peak stage			7.46	Jun 10	8.35	Sep 8, 2011
Instantaneous low flow			0.25	Oct 17 ^b	0.04	Sep 13, 2005
Annual runoff (cfsm)	1.60		2.18		1.61	
Annual runoff (inches)	21.77		29.58		21.91	
10 percent exceeds	0.81		1.1		1.1	
50 percent exceeds	0.36		0.49		0.44	
90 percent exceeds	0.25		0.32		0.21	

^a From rating curve extended above 65 ft³/s on basis of slope-area measurement at gage-height 7.26 ft.

^b Oct. 17, July 19, 20, Sept. 20, 26.

