

Water-Data Report 2011

01644372 LITTLE SENECA CREEK TRIBUTARY AT BRINK, MD

 Potomac Basin
 Middle Potomac-Catoctin Subbasin

LOCATION.--Lat 39°13'22", long 77°14'58" referenced to North American Datum of 1927, Montgomery County, MD, Hydrologic Unit 02070008, on left bank, 1.2 mi northwest of Brink, MD, and 1.9 mi southwest of Cedar Grove, MD.

DRAINAGE AREA.--0.37 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 510 ft above National Geodetic Vertical Datum of 1929, from topographic maps.

COOPERATION.--Records were provided by the Montgomery County Department of Environmental Protection.

REMARKS.--Records poor including those for estimated daily discharges (backwater, ice effect). U.S. Geological Survey gage-height telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 6	1730	22	5.33
Mar 10	2035	23	5.34
Apr 16	2005	21	5.31
Apr 28	1000	15	5.20
Aug 14	2120	198	7.32
Aug 28	0425	12	5.31
Sep 5	2340	40	5.88
Sep 6	1355	14	5.36
Sep 7	1305	70	6.29
Sep 8	1745	*290	*7.85
Sep 9	0725	15	5.40
Sep 11	2220	12	5.31
Sep 14	2025	20	5.53

Minimum discharge, 0.02 ft³/s, July 22-24, Aug. 2.

01644372 LITTLE SENECA CREEK TRIBUTARY AT BRINK, 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	1.8	0.22	0.87	0.20	0.06	0.48	0.24	0.42	0.21	0.04	0.05	0.63
2	0.19	0.29	0.26	0.22	0.47	0.41	0.20	0.40	0.21	0.04	0.04	0.57
3	0.15	0.34	0.19	0.19	0.23	0.36	0.19	0.39	0.22	0.09	0.05	0.32
4	0.22	1.4	0.18	0.18	0.16	0.38	0.19	0.54	0.22	0.06	0.06	0.21
5	0.17	0.44	0.17	0.18	0.21	0.37	0.56	0.40	0.21	0.05	0.05	3.6
6	0.13	0.26	0.19	0.17	0.32	4.5	0.24	0.39	0.19	0.04	0.08	5.3
7	0.13	0.26	0.19	e0.16	0.27	1.1	0.22	0.37	0.18	0.05	0.23	9.0
8	0.11	0.27	0.17	e0.14	0.20	0.43	0.28	0.36	0.16	0.10	0.10	25
9	0.11	0.25	e0.21	0.13	0.15	0.37	0.27	0.34	0.14	0.06	0.15	3.1
10	e0.11	0.26	e0.22	e0.13	0.13	4.4	0.26	0.32	0.13	0.05	0.61	0.77
11	e0.11	0.26	e0.25	e0.13	0.12	1.1	0.26	0.31	0.13	0.12	0.22	1.1
12	e0.11	0.24	0.34	e0.13	e0.12	0.46	0.62	0.31	0.13	0.08	0.07	0.91
13	e0.10	0.25	0.30	e0.13	0.15	0.36	1.3	0.31	0.10	0.13	0.13	1.4
14	0.40	0.25	e0.23	e0.14	0.50	0.31	0.60	0.45	0.10	0.09	7.0	2.9
15	0.16	0.24	e0.13	e0.15	0.25	1.0	0.42	0.99	0.09	0.08	0.77	2.1
16	0.15	0.57	e0.08	e0.16	0.24	1.1	2.8	0.53	0.10	0.08	0.24	0.46
17	e0.14	0.32	e0.08	e0.17	0.26	0.92	1.0	0.45	0.16	0.07	0.24	0.37
18	e0.14	0.23	e0.08	e0.19	0.27	0.65	0.62	0.80	0.15	0.06	0.24	0.34
19	0.21	0.22	e0.08	0.26	0.32	0.26	0.63	0.47	0.10	0.06	0.27	0.54
20	0.14	0.21	e0.08	e0.22	0.39	0.23	0.56	0.39	0.11	0.06	0.24	0.31
21	0.14	0.43	e0.08	0.19	0.42	0.28	0.49	0.36	0.10	0.05	0.23	0.28
22	0.15	1.1	e0.09	0.14	0.44	0.47	0.50	0.33	0.09	0.04	0.23	0.27
23	0.15	0.54	e0.09	e0.12	0.42	0.36	0.54	0.38	0.09	0.03	0.22	0.31
24	0.15	0.17	e0.09	e0.12	0.48	0.24	1.0	0.38	0.08	0.03	0.69	0.29
25	0.15	0.18	e0.09	e0.12	1.0	0.19	0.64	0.37	0.07	0.22	1.1	0.28
26	0.15	0.20	e0.09	0.10	0.49	0.15	0.50	0.29	0.07	1.4	0.13	0.28
27	0.35	0.18	0.11	0.08	0.42	0.15	0.53	0.30	0.07	1.2	0.27	0.35
28	0.16	0.16	0.14	0.07	0.60	0.17	1.9	0.29	0.06	0.20	2.1	0.41
29	0.16	0.17	0.17	0.06	---	0.19	0.53	0.28	0.05	0.11	0.25	0.31
30	0.16	0.20	0.17	0.06	---	0.20	0.44	0.24	0.04	0.07	0.59	0.25
31	0.19	---	0.18	0.06	---	0.21	---	0.23	---	0.06	0.77	---
Mean	0.22	0.34	0.18	0.15	0.32	0.70	0.62	0.40	0.13	0.16	0.56	2.07
Max	1.8	1.4	0.87	0.26	1.0	4.5	2.8	0.99	0.22	1.4	7.0	25
Min	0.10	0.16	0.08	0.06	0.06	0.15	0.19	0.23	0.04	0.03	0.04	0.21
Cfsm	0.58	0.91	0.49	0.39	0.88	1.90	1.67	1.08	0.34	0.42	1.52	5.58
In.	0.67	1.02	0.56	0.45	0.91	2.19	1.86	1.25	0.38	0.48	1.75	6.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.20	0.36	0.42	0.33	0.35	0.46	0.48	0.42	0.26	0.23	0.18	0.41
Max	0.35	0.91	0.93	0.50	0.47	0.72	0.68	0.95	0.44	0.59	0.56	2.07
(WY)	(2010)	(2007)	(2010)	(2005)	(2006)	(2010)	(2005)	(2008)	(2009)	(2006)	(2011)	(2011)
Min	0.05	0.11	0.18	0.15	0.10	0.14	0.20	0.14	0.11	0.06	0.03	0.02
(WY)	(2008)	(2009)	(2011)	(2011)	(2009)	(2009)	(2006)	(2006)	(2010)	(2010)	(2008)	(2005)

01644372 LITTLE SENECA CREEK TRIBUTARY AT BRINK, MD—Continued**SUMMARY STATISTICS**

	Calendar Year 2010		Water Year 2011		Water Years 2004 - 2011	
Annual mean	0.33		0.48		0.34	
Highest annual mean					0.48	2011
Lowest annual mean					0.25	2009
Highest daily mean	9.0	Sep 30	25	Sep 8 ^b	25	Sep 8, 2011
Lowest daily mean	0.02	Aug 10 ^a	0.03	Jul 23 ^b	0.00	Sep 21, 2005 ^c
Annual seven-day minimum	0.04	Aug 5	0.05	Jul 18	0.00	Sep 30, 2005
Maximum peak flow			d290	Sep 8	f310	Jul 5, 2006
Maximum peak stage				7.85	Sep 8	7.85 Sep 8, 2011
Instantaneous low flow				0.02	Jul 22 ^g	0.00 Sep 21, 2005 ^h
Annual runoff (cfsm)	0.886		1.31		0.928	
Annual runoff (inches)	12.03		17.76		12.61	
10 percent exceeds	0.58		0.77		0.53	
50 percent exceeds	0.21		0.22		0.22	
90 percent exceeds	0.06		0.08		0.05	

^a Aug. 10, 11.^b July 23, 24.^c Many days.^d From rating curve extended above 25 ft³/s on basis of slope-area measurement at gage-height 7.32 ft.^f From rating curve extended above 6 ft³/s.^g July 22-24, Aug. 2.^h No flow at times in 2005-2008.