



Water-Data Report 2008

01610155 SIDELING HILL CREEK NEAR BELLEGROVE, MD

Potomac Basin
Cacapon-Town Subbasin

LOCATION.--Lat 39°38'58.3", long 78°20'38.9" referenced to North American Datum of 1983, Washington County, MD, Hydrologic Unit 02070003, on left bank at highway bridge on Pearre Road, 1.2 mi upstream from mouth, and 4.0 mi south of Bellegrove.

DRAINAGE AREA.--102 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1967 to September 1977, April 1999 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 440.41 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good above 1.0 ft³/s and poor below. Records for estimated daily discharges (ice effect), are poor. U.S. Geological Survey gage-height telemeter at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 11	1515	1,460	4.33
Mar 5	0615	*8,050	*10.02
Apr 21	0830	4,020	7.02
Apr 28	2030	1,390	4.23
May 12	1230	3,100	6.19

Minimum discharge, 0.01 ft³/s, Oct. 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.45	4.7	6.7	134	139	116	58	289	70	5.3	2.1	6.2
2	0.60	3.8	6.6	109	475	99	57	216	47	9.5	2.5	4.0
3	0.45	3.2	15	80	325	85	50	169	35	7.0	1.9	2.9
4	0.40	2.9	41	e71	253	134	55	269	48	6.7	1.4	2.2
5	0.32	2.6	e29	e64	225	4,500	71	226	80	6.5	1.1	1.7
6	0.27	2.5	e25	59	243	963	63	183	55	6.9	1.4	1.6
7	0.24	2.2	e23	54	321	443	62	147	38	8.1	1.1	1.4
8	0.22	2.1	22	47	277	421	58	121	28	6.4	0.89	1.1
9	0.19	2.2	36	41	217	416	58	110	21	5.7	0.68	1.7
10	0.16	2.5	242	37	176	330	58	186	16	5.1	0.57	2.1
11	0.11	2.6	173	733	e110	261	58	284	13	3.8	0.41	3.0
12	0.07	4.7	111	653	e95	212	72	2,260	10	3.1	0.27	2.7
13	0.05	14	101	309	e88	167	71	1,180	8.7	2.9	0.21	3.4
14	0.04	18	206	209	e80	141	61	494	9.0	2.7	0.42	7.4
15	0.03	15	172	150	e90	149	56	303	15	2.2	0.71	11
16	0.02	38	217	110	e100	128	51	276	15	1.8	0.71	7.0
17	0.02	35	342	88	120	102	48	268	13	1.4	0.69	4.7
18	0.02	24	189	e80	183	95	46	269	11	1.1	0.59	3.4
19	0.58	18	124	e70	239	148	45	288	8.6	0.84	0.59	2.7
20	1.6	14	91	e61	206	418	80	277	7.2	0.75	0.45	2.1
21	3.8	12	71	e55	e150	362	2,340	297	6.4	0.90	0.27	1.8
22	2.4	10	58	e50	e135	269	843	255	9.0	0.73	0.37	1.5
23	1.9	9.3	56	e45	e110	208	402	196	39	2.6	0.40	1.3
24	2.8	8.3	174	e43	101	160	266	147	41	19	0.28	1.1
25	4.9	7.6	170	e40	97	131	200	111	21	18	0.20	0.88
26	7.5	7.3	123	e38	104	111	175	88	13	9.1	0.14	0.92
27	16	7.5	94	e36	137	99	578	82	9.5	5.9	0.10	1.5
28	16	7.5	76	32	e140	99	796	84	7.4	4.7	2.0	4.5
29	13	7.4	152	32	e134	85	945	59	6.2	3.3	7.7	6.0
30	8.4	7.1	180	73	---	67	451	48	5.8	2.6	12	5.1
31	6.2	---	159	99	---	59	---	54	---	2.4	11	---
Total	88.74	296.0	3,485.3	3,702	5,070	10,978	8,174	9,236	706.8	157.02	53.15	96.90
Mean	2.86	9.87	112	119	175	354	272	298	23.6	5.07	1.71	3.23
Max	16	38	342	733	475	4,500	2,340	2,260	80	19	12	11
Min	0.02	2.1	6.6	32	80	59	45	48	5.8	0.73	0.10	0.88
Cfsm	0.03	0.10	1.10	1.17	1.71	3.47	2.67	2.92	0.23	0.05	0.02	0.03
In.	0.03	0.11	1.27	1.35	1.85	4.00	2.98	3.37	0.26	0.06	0.02	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1977, 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	70.6	87.6	150	123	156	221	214	130	108	26.6	21.1	55.1
Max	569	293	401	255	523	416	518	435	726	87.6	85.1	578
(WY)	(1977)	(1971)	(1973)	(2006)	(1971)	(2003)	(1970)	(2003)	(1972)	(1977)	(1969)	(2004)
Min	0.38	0.76	3.93	11.1	7.84	30.5	37.8	22.9	5.10	1.22	0.04	0.25
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(1971)	(1969)	(1999)	(1999)	(1968)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1967 - 1977		1999 - 2008	
Annual total	24,829.85		42,043.91					
Annual mean	68.0		115		114		114	
Highest annual mean					207		203	
Lowest annual mean					31.1		2002	
Highest daily mean	1,710	Apr 15	4,500	Mar 5	9,200	Jun 22, 1972		
Lowest daily mean	0.01	Jul 24 ^a	0.02	Oct 16 ^b	0.00	Aug 18, 1968 ^c		
Annual seven-day minimum	0.02	Jul 22	0.04	Oct 12	0.00	Aug 18, 1968		
Maximum peak flow			8,050	Mar 5	d14,200	Jun 22, 1972		
Maximum peak stage			10.02	Mar 5	12.44	Jun 22, 1972		
Instantaneous low flow			0.01	Oct 18	0.00	Aug 16, 1968 ^f		
Annual runoff (cfsm)	0.667		1.13		1.12			
Annual runoff (inches)	9.06		15.33		15.24			
10 percent exceeds	183		268		271			
50 percent exceeds	14		36		37			
90 percent exceeds	0.68		0.70		1.6			

^a July 24-26.^b Oct. 16-18.^c Aug. 18-31, Sept. 1-9, 1968, Aug. 6-24, 1999, Sept. 28, Oct. 3-6, 2005.^d From rating curve extended above 10,400 ft³/s.^f Aug. 17-31, Sept. 1-10, 1968, Aug. 6-25, 1999, Sept. 26-29, Oct. 3-6, 2005.