Water-Data Report 2012

01589500 SAWMILL CREEK AT GLEN BURNIE, MD

Upper Chesapeake Basin
Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°10'12.0", long 76°37'50.2" referenced to North American Datum of 1983, Anne Arundel County, MD, Hydrologic Unit 02060003, on left bank 300 ft upstream from bridge on State Highway 648, 0.25 mi southeast of Interstate Highway 97, and 0.5 mi northwest of Glen Burnie.

DRAINAGE AREA.--4.97 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1944 to September 1952. Annual maximum, water years 1965-70. September 1983 to current year.

REVISED RECORDS.--WDR MD-DE-89-1: 1984-88.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 25.28 ft above North American Vertical Datum of 1988, from digital elevation model.

REMARKS.--No estimated daily discharges. Records good. Low flow affected by ground water diversions from Anne Arundel County municipal well fields upstream from station; spring and summer periods affected by discharge and withdrawal from unknown source. U.S. Geological Survey satellite data-collection platform at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1933 reached a stage of about 4 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s revised, and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 7	2315	*121	*3.85
Aug 26	1630	113	3.76

Minimum discharge, 3.0 ft^3/s, July 7, 8, 11-13, 16-19.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01589500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01589500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.8	9.2	7.8	8.5	7.8	18	6.6	6.2	7.4	4.0	3.9	5.0
2	11	8.5	7.5	8.4	7.7	9.1	7.0	5.9	12	3.8	3.8	6.1
3	9.6	8.4	7.4	8.1	7.5	26	6.7	5.9	5.9	3.7	3.8	4.9
4	9.2	8.2	7.5	8.0	7.8	10	6.6	6.6	5.1	3.6	3.6	4.5
5	8.9	7.8	7.4	8.4	8.0	8.4	6.3	5.9	5.0	3.5	3.6	6.6
6	8.6	7.8	8.0	8.3	7.7	7.8	6.3	5.8	5.0	3.5	3.6	6.8
7	8.6	7.8	44	8.1	7.5	7.6	6.2	5.7	4.9	3.4	3.6	4.6
8	8.5	7.8	44	7.9	7.6	7.5	6.2	5.7	4.9	3.3	3.6	6.3
9	8.4	7.8	12	7.9	7.6	7.2	6.2	6.3	4.6	4.3	3.6	6.1
10	8.4	7.8	9.6	8.1	7.5	6.9	6.1	6.4	4.4	3.7	5.4	4.4
11	8.4	7.7	8.9	8.6	8.5	6.9	6.4	5.7	4.3	3.4	8.9	4.1
12	9.0	7.5	8.7	20	7.4	7.0	6.0	5.6	5.8	3.3	8.5	3.9
13	11	7.5	8.6	11	7.1	7.0	6.0	5.6	5.1	3.3	4.1	3.8
14	11	7.5	8.4	8.7	7.2	6.9	6.1	5.9	4.5	4.7	3.9	3.8
15	9.1	7.5	8.5	8.2	7.0	6.9	6.2	8.1	4.4	3.9	3.8	3.7
16	8.3	8.6	8.3	8.0	7.3	6.9	6.0	6.3	4.3	3.6	3.6	3.6
17	8.2	8.3	8.4	9.0	7.3	6.9	5.9	5.7	4.4	3.3	3.6	3.7
18	8.1	7.3	8.4	8.3	7.0	6.9	6.1	5.5	4.5	3.2	4.3	6.1
19	11	7.2	8.4	8.0	7.0	6.9	6.3	5.5	4.5	7.1	3.8	5.1
20	11	7.5	8.4	7.9	6.9	6.9	6.0	5.3	4.2	13	3.9	4.1
21	8.5	8.2	8.6	8.5	7.0	6.9	6.0	7.4	4.0	13	3.9	3.9
22	8.1	16	8.9	7.6	7.2	6.9	11	7.0	3.9	7.7	3.6	4.1
23	8.1	18	18	8.0	7.1	6.7	12	5.9	4.7	5.2	3.5	4.0
24	8.1	9.2	9.9	8.2	7.5	9.7	7.0	5.6	4.1	4.7	3.5	3.7
25	7.9	8.2	8.8	7.6	7.1	8.3	6.3	5.4	4.0	4.2	3.5	3.7
26	8.0	8.0	8.5	7.7	6.9	7.2	7.8	5.3	3.8	4.5	43	3.8
27	8.4	7.8	13	16	6.9	6.7	6.5	5.3	3.8	5.4	14	3.8
28	7.9	7.8	13	10	6.9	6.9	6.1	5.5	3.7	4.1	6.0	4.2
29	20	9.8	9.3	8.1	18	6.7	6.3	5.2	3.8	3.9	4.6	3.8
30	14	9.3	8.8	7.8	---	6.6	6.0	5.7	5.4	3.9	4.3	3.8
31	9.0	---	8.6	7.8	---	6.7	---	5.2	---	4.0	4.1	---
Total	294.1	260.0	355.6	276.7	224.0	257.0	200.2	183.1	146.4	146.2	180.9	136.0
Mean	9.49	8.67	11.5	8.93	7.72	8.29	6.67	5.91	4.88	4.72	5.84	4.53
Max	20	18	44	20	18	26	12	8.1	12	13	43	6.8
Min	7.9	7.2	7.4	7.6	6.9	6.6	5.9	5.2	3.7	3.2	3.5	3.6
Cfsm	1.91	1.74	2.31	1.80	1.55	1.67	1.34	1.19	0.98	0.95	1.17	0.91
In.	2.20	1.95	2.66	2.07	1.68	1.92	1.50	1.37	1.10	1.09	1.35	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1952, 1983 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.45	4.77	5.34	5.30	5.51	6.51	6.20	6.11	5.39	4.87	4.78	5.40
Max	9.65	10.3	13.0	14.4	14.4	13.5	13.8	13.3	12.1	10.2	12.4	23.0
(WY)	(2011)	(1952)	(1949)	(1949)	(1949)	(1949)	(1952)	(1952)	(2003)	(2004)	(1948)	(2011)
Min	0.03	0.19	0.13	0.30	0.76	0.76	0.75	0.11	0.08	0.10	0.15	0.02
(WY)	(1987)	(1987)	(1989)	(1989)	(1989)	(1986)	(1985)	(1986)	(1986)	(1985)	(1986)	(1986)

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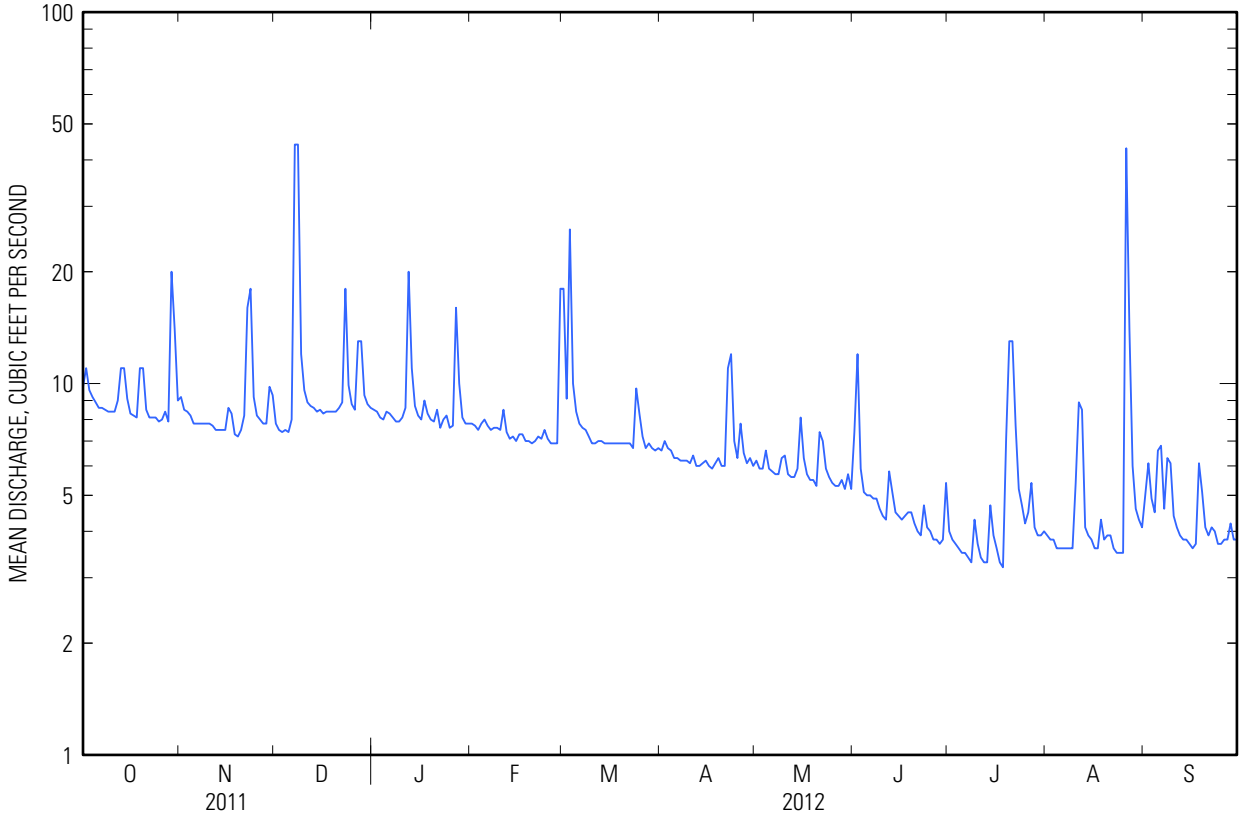
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1944 - 1952, 1983 - 2012	
Annual total	3,279.7		2,660.2			
Annual mean	8.99		7.27		5.38	
Highest annual mean					11.0	1949
Lowest annual mean					0.43	1986
Highest daily mean	189	Sep 8	44	Dec 7[a]	189	Sep 8, 2011
Lowest daily mean	3.2	Jul 31[b]	3.2	Jul 18	0.01	Sep 5, 1985[c]
Annual seven-day minimum	3.3	Jul 27	3.5	Jul 7	0.01	Jul 25, 1986
Maximum peak flow			121	Dec 7	[d]400	Sep 8, 2011
Maximum peak stage			3.85	Dec 7	6.39	Sep 8, 2011
Instantaneous low flow			3.0	Jul 7[f]	0.00	Sep 6, 1985[g]
Annual runoff (cfsm)	1.81		1.46		1.08	
Annual runoff (inches)	24.55		19.91		14.70	
10 percent exceeds	12		9.4		9.4	
50 percent exceeds	6.5		6.9		4.5	
90 percent exceeds	4.2		3.8		0.93	

[a] Dec. 7, 8.
[b] July 31, Aug. 1, 2.
[c] Many days in 1985-1987.
[d] From rating curve extended above 95 ft³/s on basis of Culvert Type IV measurements of peak flow at 5.74 ft and 6.39 ft.
[f] July 7, 8, 11-13, 16-19.
[g] Sept. 6, 7, 1985, July 29, Aug. 2, 1986.