Water-Data Report 2011

01486500 BEAVERDAM CREEK NEAR SALISBURY, MD

Upper Chesapeake Basin
Blackwater-Wicomico Subbasin

LOCATION.--Lat 38°21'11.2", long 75°34'21.2" referenced to North American Datum of 1983, Wicomico County, MD, Hydrologic Unit 02060007, on right bank at downstream side of highway bridge on Schumaker Drive, 0.5 mi upstream from Beaglin Branch, 0.8 mi upstream from mouth, and 2 mi from Salisbury.

DRAINAGE AREA.--19.5 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1929 to August 1933, May 1934 to September 1935, May 1936 to September 1975, October 2000 to current year. Prior to October 1948, published as East Branch Wicomico River near Salisbury, MD.

REVISED RECORDS.--WSP 741: 1931(m). WSP 1232: Drainage area. WSP 1432: 1931, 1936-37, 1940. WDR-US-2009: 2001-2007.

GAGE.--Water-stage recorder, concrete control and crest-stage gage. Elevation of gage is 20 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1929 to September 27, 1938, at site on left bank above Lake Schumaker Dam at datum of 17.95 ft above National Geodetic Vertical Datum of 1929 (City of Salisbury bench mark), and from September 28, 1938 to September 1975 at site at upstream side of Schumaker Dam between spillway and emergency floodgate at datum of 8.93 ft above National Geodetic Vertical Datum of 1929 (City of Salisbury bench mark).

REMARKS.--No estimated daily discharges. Records good except those above 390 ft^3/s, which are fair. Outflow from lake controlled by spillway valve. U.S. Geological Survey satellite collection platform 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.--Maximum discharge, 716 ft^3/s, Aug. 28, gage height, 5.16 ft; minimum discharge, 0.00 ft^3/s, June 22-30, July 1-5.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01486500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01486500.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23	9.0	10	9.5	32	24	19	10	6.5	0.00	8.0	21
2	14	9.0	9.9	20	34	20	20	10	6.1	0.00	9.4	7.4
3	10	9.0	8.8	19	32	17	18	10	5.7	0.47	5.6	6.4
4	29	15	8.0	14	32	15	17	18	5.7	0.00	4.4	6.3
5	14	14	8.0	11	31	15	18	14	6.2	1.1	4.1	6.3
6	8.6	11	7.5	11	29	25	16	11	6.5	3.2	3.7	10
7	6.5	9.9	7.0	9.5	18	50	15	10	6.4	3.7	5.1	9.6
8	5.7	9.1	7.0	9.0	13	35	16	10	6.4	6.5	3.4	58
9	5.4	9.0	7.0	9.0	15	24	17	9.7	6.1	8.9	3.3	35
10	5.1	9.0	7.0	9.0	15	29	15	9.0	6.2	4.8	3.4	24
11	4.4	8.1	7.2	9.0	15	46	15	9.0	6.3	3.6	3.0	16
12	4.4	7.0	19	9.0	15	41	15	9.0	6.1	2.9	2.8	12
13	5.1	7.3	17	9.0	15	29	15	9.0	5.5	3.1	5.3	11
14	8.5	7.6	11	9.0	15	22	15	9.2	5.1	3.1	17	10
15	8.7	8.0	9.1	9.0	15	19	14	11	5.1	2.7	37	9.7
16	7.1	8.8	9.0	9.0	15	26	15	10	19	2.7	7.0	9.0
17	6.2	12	9.0	9.3	15	23	18	11	19	2.7	4.8	11
18	5.9	10	8.4	35	15	21	15	10	12	2.7	3.8	12
19	5.9	9.1	8.2	23	15	19	14	9.8	11	3.5	9.2	11
20	27	9.0	8.1	16	15	17	14	9.0	9.8	4.1	11	10
21	31	9.0	8.0	14	14	19	12	9.0	6.8	4.0	5.7	10
22	12	9.0	8.0	12	14	18	12	8.8	2.7	3.5	4.8	16
23	8.2	9.0	8.0	11	6.5	19	13	8.8	0.00	3.0	4.4	18
24	7.4	9.0	8.0	10	1.8	22	13	9.0	0.00	2.8	4.3	21
25	7.0	9.0	8.0	10	3.3	20	12	8.8	0.06	32	4.2	15
26	7.6	9.4	9.2	32	2.1	18	11	8.2	0.00	15	10	13
27	10	8.0	9.4	57	1.8	20	11	8.0	0.20	4.7	135	12
28	52	7.1	9.0	48	15	19	10	8.0	0.02	3.3	539	13
29	17	7.2	9.0	39	---	18	12	7.8	0.00	3.6	117	13
30	11	7.9	9.0	35	---	17	11	7.3	0.00	3.5	20	17
31	9.4	---	9.0	34	---	19	---	7.0	---	3.2	20	---
Total	377.1	275.5	280.8	560.3	459.5	726	438	299.4	170.48	138.37	1,015.7	443.7
Mean	12.2	9.18	9.06	18.1	16.4	23.4	14.6	9.66	5.68	4.46	32.8	14.8
Max	52	15	19	57	34	50	20	18	19	32	539	58
Min	4.4	7.0	7.0	9.0	1.8	15	10	7.0	0.00	0.00	2.8	6.3
Cfsm	0.62	0.47	0.46	0.93	0.84	1.20	0.75	0.50	0.29	0.23	1.68	0.76
In.	0.72	0.53	0.54	1.07	0.88	1.38	0.84	0.57	0.33	0.26	1.94	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 – 1933, 1935, 1938 – 1975, 2001 – 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.8	20.6	26.6	30.4	34.9	39.1	32.5	23.1	18.9	14.9	21.0	14.1
Max	48.3	77.3	98.4	67.7	89.2	80.9	72.8	74.5	76.1	67.3	104	37.7
(WY)	(1956)	(2010)	(2010)	(2010)	(1961)	(1958)	(1958)	(1958)	(1948)	(2005)	(1948)	(2003)
Min	3.69	4.02	3.78	4.17	3.96	4.60	11.5	9.02	5.61	2.66	3.58	3.75
(WY)	(1931)	(1931)	(1931)	(1931)	(1931)	(1931)	(1931)	(1930)	(2002)	(2002)	(2002)	(1930)

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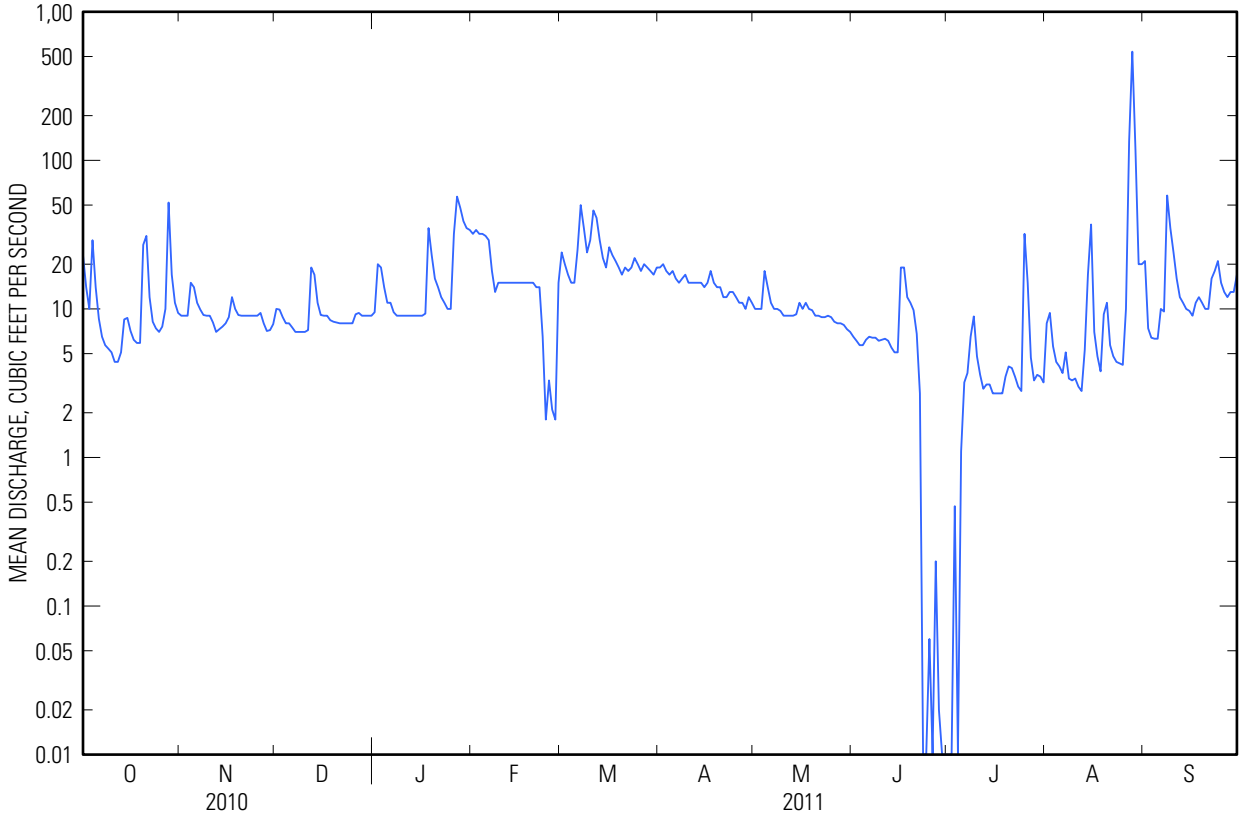
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1930 – 1933, 1935, 1938 – 1975, 2001 – 2011	
Annual total	10,373.8		5,184.85			
Annual mean	28.4		14.2		24.3	
Highest annual mean					42.8	2010
Lowest annual mean					6.56	1931
Highest daily mean	269	Mar 14	539	Aug 28	707	Aug 5, 1948
Lowest daily mean	3.7	Jul 22[a]	[b]0.00	Jun 23[c]	[b]0.00	Feb 21, 2002[d]
Annual seven-day minimum	3.8	Jul 21	0.03	Jun 26	0.00	Feb 21, 2002
Maximum peak flow			716	Aug 28	[f]1,480	Aug 4, 1948
Maximum peak stage			5.16	Aug 28	[g]14.31	Aug 4, 1948
Instantaneous low flow			[b]0.00	Jun 22[h]	[b]0.00	Jan 29, 2001[i]
Annual runoff (cfsm)	1.46		0.728		1.25	
Annual runoff (inches)	19.79		9.89		16.92	
10 percent exceeds	69		23		47	
50 percent exceeds	11		9.5		17	
90 percent exceeds	4.8		3.5		6.6	

[a] July 22-26, Aug. 14, 15, Sept. 15, 17, 26.
[b] Result of lake being refilled after closure of relief valve.
[c] June 23, 24, 26, 29, 30, July 1, 2, 4.
[d] Feb. 21-28, March 1, 2002, June 23, 24, 26, 29, 30, July 1, 2, 4, 2011.
[f] Maximum discharge known, maximum discharge probably occurred August 23, 1933, when dam was partially washed out.
[g] At previous site and datum, from high-water mark in well.
[h] June 22-30, July 1-5.
[i] Several days in 2001-2003 and 2011 water years, as a result of lake being refilled after closure of relief valve.