



Water-Data Report 2011

01484695 BEAVERDAM DITCH NEAR MILLVILLE, DE

Upper Chesapeake Basin
Chincoteague Subbasin

LOCATION.--Lat 38°31'17.2", long 75°08'00.2" referenced to North American Datum of 1983, Sussex County, DE, Hydrologic Unit 02060010, on left bank, 20 feet downstream of culverts on county road No. 368, 2.1 mi southwest of Millville, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--2.24 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges (backwater from tides) which are fair. Flow occasionally affected by irrigation or releases from sand pits located upstream from station. 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.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 28	0515	*129	*4.88
No other peak greater than base discharge			

Minimum discharge, 0.15 ft³/s, June 30, July 1, 2.

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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	1.1	1.4	0.98	0.95	5.1	5.2	5.2	1.1	0.45	0.18	0.60	5.1
2	0.99	1.3	0.99	1.6	7.6	4.2	4.7	1.1	0.39	0.18	1.8	4.2
3	1.2	1.2	0.90	1.9	6.6	3.3	3.9	1.1	0.35	0.19	1.2	3.8
4	5.5	1.6	0.87	1.5	5.5	2.8	3.9	1.3	0.33	0.38	0.93	3.4
5	4.3	1.9	0.85	1.3	5.3	2.7	4.0	1.3	0.33	0.62	0.77	3.0
6	2.8	1.5	0.81	1.2	5.0	3.6	3.2	1.1	0.33	0.57	0.64	2.8
7	2.1	1.3	0.77	1.2	4.2	6.9	2.7	1.0	0.33	0.56	0.71	2.7
8	1.7	1.2	0.73	1.1	4.3	5.0	2.6	0.97	0.30	0.70	0.69	2.7
9	1.5	1.2	0.70	0.97	3.5	4.1	2.8	0.92	0.28	2.1	0.55	2.6
10	1.3	1.1	0.69	0.88	3.5	5.4	2.5	0.89	0.28	1.0	0.45	2.5
11	1.3	e1.0	0.70	0.87	3.1	22	2.5	e0.84	0.28	0.71	0.41	2.4
12	1.2	e1.0	1.0	0.98	3.0	9.6	2.4	e0.84	0.28	0.53	0.37	2.4
13	1.2	e0.98	1.1	0.89	2.8	7.1	2.3	0.84	0.27	0.43	0.35	2.2
14	1.3	0.98	1.0	0.83	2.7	5.7	1.9	0.95	0.26	0.35	1.9	2.0
15	1.6	0.97	0.93	0.82	2.4	5.0	1.7	e1.0	0.25	0.29	4.9	2.1
16	1.3	0.99	0.88	0.82	2.2	6.6	1.9	e0.98	0.24	0.26	2.7	2.1
17	1.2	1.1	0.89	0.79	2.2	6.2	3.7	0.95	e0.24	0.24	1.7	2.2
18	1.1	1.0	0.84	5.5	2.2	5.3	2.4	e0.92	0.23	0.22	1.3	2.9
19	1.1	0.96	0.84	3.3	2.1	4.5	2.0	e0.98	0.23	0.47	1.1	2.8
20	1.7	0.93	0.82	2.1	1.9	3.6	1.8	0.95	0.24	0.88	0.96	2.5
21	2.8	0.91	0.78	1.8	1.9	4.1	1.6	0.83	0.23	0.53	0.87	2.3
22	2.1	0.90	0.77	1.4	2.1	4.4	1.4	0.78	0.22	0.39	0.79	2.5
23	1.7	0.89	0.76	1.2	1.9	4.1	1.5	0.77	0.21	0.34	0.67	3.3
24	1.5	0.88	0.73	1.1	1.8	6.1	1.5	0.73	0.20	1.7	0.60	4.8
25	1.4	0.85	0.72	1.1	2.7	5.2	1.4	0.75	0.20	4.7	0.56	4.1
26	1.4	0.89	0.78	8.5	2.6	4.4	1.3	0.69	0.19	1.9	0.57	3.6
27	1.8	0.86	0.84	19	2.3	3.9	1.2	0.66	0.21	1.1	13	3.3
28	15	0.81	0.72	9.8	2.8	3.5	1.2	0.60	0.22	0.86	95	3.1
29	3.8	0.79	0.78	7.6	---	3.1	1.3	0.55	0.20	0.70	29	2.9
30	2.2	0.79	0.81	6.3	---	2.9	1.2	0.51	0.18	0.60	10	2.6
31	1.8	---	0.83	5.5	---	3.5	---	0.47	---	0.50	7.1	---
Total	70.99	32.18	25.81	92.80	93.3	164.0	71.7	27.37	7.95	24.18	182.19	88.9
Mean	2.29	1.07	0.83	2.99	3.33	5.29	2.39	0.88	0.27	0.78	5.88	2.96
Max	15	1.9	1.1	19	7.6	22	5.2	1.3	0.45	4.7	95	5.1
Min	0.99	0.79	0.69	0.79	1.8	2.7	1.2	0.47	0.18	0.18	0.35	2.0
Cfsm	1.02	0.48	0.37	1.34	1.49	2.36	1.07	0.39	0.12	0.35	2.62	1.32
In.	1.18	0.53	0.43	1.54	1.55	2.72	1.19	0.45	0.13	0.40	3.03	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.64	4.27	5.85	4.61	5.87	5.95	5.11	3.19	2.64	1.65	2.25	2.08
Max	7.69	14.3	17.3	8.46	15.1	11.3	12.5	8.01	6.73	7.47	9.69	5.88
(WY)	(2003)	(2003)	(2004)	(2010)	(2003)	(2000)	(2003)	(2005)	(2000)	(2000)	(2004)	(2000)
Min	0.10	0.09	0.25	0.77	0.71	1.49	0.82	0.52	0.14	0.11	0.06	0.03
(WY)	(1999)	(2002)	(2002)	(2002)	(2002)	(2006)	(2006)	(2006)	(2002)	(2007)	(2002)	(2007)

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	Calendar Year 2010	Water Year 2011	Water Years 1998 - 2011	
Annual total	1,177.57	881.37		
Annual mean	3.23	2.41	3.84	
Highest annual mean			7.29	2003
Lowest annual mean			1.19	2002
Highest daily mean	41 Feb 23	95 Aug 28	127 Dec 12, 2008	
Lowest daily mean	0.06 Aug 16	0.18 Jun 30 ^a	0.00 Jul 17, 2002 ^b	
Annual seven-day minimum	0.08 Aug 5	0.19 Jun 26	0.01 Jul 12, 2002	
Maximum peak flow		129 Aug 28	c183 Dec 12, 2008	
Maximum peak stage		4.88 Aug 28	5.76 Dec 12, 2008	
Instantaneous low flow		0.15 Jun 30 ^a	0.00 Jul 8, 2002 ^d	
Annual runoff (cfsm)	1.44	1.08	1.72	
Annual runoff (inches)	19.56	14.64	23.30	
10 percent exceeds	8.6	4.9	8.2	
50 percent exceeds	1.1	1.2	2.0	
90 percent exceeds	0.26	0.35	0.12	

^a June 30, July 1, 2.^b July 17, 18, 2002, Oct. 9, 2007, Sept. 2-4, 2008.^c From rating curve extended above 153 ft³/s.^d July 8-13, 15-18, Aug. 14, 22, 2002, Oct. 8, 9, 2007, Aug. 27, 31, Sept. 1-5, 2008.