



Water-Data Report 2008

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, at culverts on Road No. 368, 1.6 mi upstream from mouth, and 2.1 mi southwest of Millville.

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 (missing record), which are fair. Flow occasionally affected by irrigation or releases from sand pits located upstream from station. U.S. Geological Survey gage-height telemeter at station. Several measurements of water temperature were made during the year. Water-quality data for some prior years 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)
May 12	2230	*37	*2.88

Minimum discharge, 0.00 ft³/s, Oct. 8, 9, Aug. 27, 31, Sept. 1-5.

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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	0.02	1.4	0.31	5.6	3.8	3.1	1.8	4.7	8.5	0.61	0.45	0.01
2	0.02	1.1	0.30	4.8	7.5	3.0	1.9	4.3	8.2	0.50	1.1	0.00
3	0.03	0.78	0.49	3.8	5.5	2.7	1.7	4.0	7.0	0.38	1.0	0.00
4	0.02	0.62	0.41	3.3	4.8	2.7	3.1	3.7	7.2	0.40	0.62	0.00
5	0.02	0.51	0.42	3.1	4.3	4.7	3.4	3.5	12	1.3	0.74	0.01
6	0.03	0.51	0.46	2.9	4.0	4.3	4.2	3.2	11	7.5	0.85	0.83
7	0.02	0.51	0.42	2.7	3.7	4.7	4.7	3.1	8.6	6.9	0.15	1.7
8	0.01	0.47	0.41	2.5	3.2	9.0	4.3	3.1	7.1	3.7	0.09	1.1
9	0.00	0.43	0.42	2.4	3.0	6.9	4.0	5.3	6.0	2.7	0.06	0.75
10	0.15	0.41	0.41	2.3	2.8	5.6	3.8	6.8	5.2	6.0	0.38	0.68
11	1.3	0.43	0.39	2.6	2.5	5.1	3.5	6.5	4.4	5.6	0.71	0.46
12	0.47	0.36	0.37	2.6	2.3	4.9	3.6	21	3.8	3.3	0.50	0.33
13	0.22	0.33	0.34	2.3	11	4.3	3.4	27	3.3	2.2	0.37	0.27
14	0.06	0.33	0.33	2.4	12	4.6	3.0	14	3.0	1.7	0.28	0.20
15	0.03	0.48	0.33	2.4	7.9	4.0	2.7	11	2.8	1.4	0.68	0.19
16	0.02	0.51	5.2	2.1	6.4	4.0	2.4	11	2.7	1.2	1.2	0.14
17	0.02	0.43	4.0	2.4	5.6	3.6	2.4	10	3.0	0.98	0.67	0.09
18	0.01	0.39	3.1	5.5	5.5	3.3	2.4	8.9	2.6	0.80	0.44	0.06
19	0.16	0.39	2.6	4.8	5.5	3.2	2.3	8.0	2.6	0.69	0.27	0.04
20	0.07	0.39	2.2	4.1	4.9	3.4	2.2	7.5	e2.3	0.58	0.16	0.03
21	0.04	0.36	2.0	3.3	4.3	2.9	2.1	7.7	e2.0	0.46	0.08	0.05
22	0.03	0.38	1.7	3.0	4.9	2.7	2.1	7.3	e1.8	0.48	0.04	0.05
23	0.02	0.41	2.0	3.0	5.6	2.6	2.1	6.5	e1.7	0.37	0.07	0.05
24	1.4	0.35	2.9	2.8	4.8	2.3	2.3	6.0	1.6	1.8	0.05	0.88
25	3.4	0.35	2.7	2.6	4.3	2.2	2.3	5.6	1.4	1.3	0.03	2.2
26	3.8	0.35	2.6	2.4	4.1	2.1	2.1	5.2	1.4	0.91	0.02	2.1
27	3.4	0.43	4.0	2.3	4.0	2.1	2.2	5.0	2.1	0.63	0.01	2.4
28	2.7	0.38	3.5	2.2	3.4	2.2	3.3	4.7	0.80	0.51	0.02	1.3
29	2.1	0.35	5.0	2.1	3.2	2.0	6.2	4.4	0.65	0.43	0.01	0.63
30	1.8	0.33	5.7	2.0	---	1.8	5.4	4.3	0.54	0.43	0.02	0.61
31	1.6	---	7.0	1.8	---	1.7	---	5.4	---	0.58	0.01	---
Total	22.97	14.47	62.01	92.1	144.8	111.7	90.9	228.7	125.29	56.34	11.08	17.16
Mean	0.74	0.48	2.00	2.97	4.99	3.60	3.03	7.38	4.18	1.82	0.36	0.57
Max	3.8	1.4	7.0	5.6	12	9.0	6.2	27	12	7.5	1.2	2.4
Min	0.00	0.33	0.30	1.8	2.3	1.7	1.7	3.1	0.54	0.37	0.01	0.00
Cfsm	0.33	0.22	0.89	1.33	2.23	1.61	1.35	3.29	1.86	0.81	0.16	0.26
In.	0.38	0.24	1.03	1.53	2.40	1.86	1.51	3.80	2.08	0.94	0.18	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.48	4.06	5.01	4.44	5.92	6.06	5.69	3.61	2.94	1.88	2.09	1.95
Max	7.69	14.3	17.3	7.47	15.1	11.3	12.5	8.01	6.73	7.47	9.69	5.88
(WY)	(2003)	(2003)	(2004)	(2006)	(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)

01484695 BEAVERDAM DITCH NEAR MILLVILLE, DE—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1998 - 2008		
Annual total	948.62	977.52			
Annual mean	2.60	2.67	3.85		
Highest annual mean			7.29		
Lowest annual mean			1.19		
Highest daily mean	26	Apr 16	May 13	119	Mar 22, 2000
Lowest daily mean	0.00	Oct 9	Oct 9 ^a	0.00	Jul 17, 2002 ^b
Annual seven-day minimum	0.02	Oct 3	Aug 29	0.01	Jul 12, 2002
Maximum peak flow		37	May 12	c147	Mar 22, 2000
Maximum peak stage		2.88	May 12	4.97	Mar 22, 2000
Instantaneous low flow		0.00	Oct 8 ^d	0.00	Jul 8, 2002 ^f
Annual runoff (cfsm)	1.16	1.19	1.72		
Annual runoff (inches)	15.75	16.23	23.32		
10 percent exceeds	5.4	5.8	8.2		
50 percent exceeds	1.1	2.2	2.0		
90 percent exceeds	0.03	0.06	0.11		

^a Oct. 9, Sept. 2-4.^b July 17, 18, 2002, Oct. 9, 2007, Sept. 2-4, 2008.^c From rating curve extended above 55 ft³/s.^d Oct. 8, 9, Aug. 27, 31, Sept. 1-5.^f July 8-13, 15-18, Aug. 14, 22, 2002, Oct. 8, 9, 2007, Aug. 27, 31, Sept. 1-5, 2008.