



Water-Data Report 2008

01485000 POCOMOKE RIVER NEAR WILLARDS, MD

Upper Chesapeake Basin
Pocomoke Subbasin

LOCATION.--Lat 38°23'20.0", long 75°19'28.0" referenced to North American Datum of 1983, Worcester County, MD, Hydrologic Unit 02060009, on right bank at downstream side of bridge on State Highway 346, 0.6 mi upstream from Burnt Mill Branch, 1.3 mi east of Willards, 1.3 mi west of Whaleyville, and 50.3 mi upstream from mouth.

DRAINAGE AREA.--60.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1949 to September 2004, October 2006 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.95 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except those for estimated daily discharges (variable backwater) which are poor. U.S. Geological Survey satellite collection platform at station. Several measurements of water temperature were made during this 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 500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 13	0845	*526	*10.06
No other peak greater than base discharge			

Minimum discharge, 1.7 ft³/s, Nov. 14, 15, 19, 20.

01485000 POCOMOKE RIVER NEAR WILLARDS, MD—Continued

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	e2.4	3.6	3.3	22	21	35	26	64	88	16	11	5.5
2	e2.6	3.3	3.7	20	59	34	25	51	72	14	12	5.4
3	e2.8	3.1	4.0	17	47	31	22	42	58	13	14	5.5
4	e3.1	3.0	4.6	14	39	31	31	37	59	13	11	6.2
5	e3.1	2.8	4.8	14	36	54	38	32	144	17	10	5.8
6	e3.4	3.2	4.8	14	35	63	42	29	126	18	9.8	8.5
7	e3.1	3.3	4.7	14	33	59	52	26	90	57	9.5	12
8	e3.1	2.6	4.8	14	30	188	48	24	69	47	9.0	8.7
9	e3.1	3.0	4.9	13	28	199	44	47	55	33	9.2	8.1
10	e6.8	2.7	5.0	13	25	123	42	79	46	64	9.5	8.4
11	e5.8	2.3	6.2	15	22	96	40	62	39	66	9.0	7.2
12	4.5	2.1	6.4	14	20	84	39	375	34	44	8.4	6.8
13	3.8	2.0	5.6	14	70	70	38	518	31	34	8.1	6.5
14	3.5	1.9	4.8	14	184	62	33	437	29	28	8.0	6.3
15	3.4	2.0	4.5	14	133	57	31	306	27	25	8.0	6.0
16	3.3	2.7	11	13	98	53	28	242	26	22	7.7	5.7
17	3.5	2.3	11	14	75	48	26	261	27	20	7.5	5.5
18	3.8	2.2	7.4	23	70	45	25	192	25	18	7.2	5.4
19	3.9	1.9	6.4	28	65	43	25	148	24	17	7.6	5.2
20	3.9	1.9	6.4	24	54	45	24	126	22	16	7.8	5.0
21	3.6	2.5	6.2	20	48	40	49	125	21	15	6.8	5.0
22	3.4	2.2	6.6	19	48	37	78	105	20	15	6.6	4.9
23	3.6	2.8	7.2	20	61	35	51	87	19	14	6.5	4.8
24	4.2	2.6	8.6	19	57	33	39	74	19	16	6.4	4.7
25	5.1	2.8	7.3	18	50	31	33	65	19	14	6.3	5.7
26	5.4	3.0	7.5	17	48	32	29	58	19	14	6.1	9.9
27	6.7	4.4	10	20	47	30	28	53	18	13	6.0	9.4
28	6.4	4.6	10	18	41	30	40	49	16	12	6.0	11
29	4.5	3.8	13	17	36	27	146	45	15	12	6.1	9.4
30	3.9	4.1	17	17	---	24	91	41	15	12	6.1	8.6
31	3.8	---	22	17	---	24	---	44	---	12	5.8	---
Total	123.5	84.7	229.7	530	1,580	1,763	1,263	3,844	1,272	731	253.0	207.1
Mean	3.98	2.82	7.41	17.1	54.5	56.9	42.1	124	42.4	23.6	8.16	6.90
Max	6.8	4.6	22	28	184	199	146	518	144	66	14	12
Min	2.4	1.9	3.3	13	20	24	22	24	15	12	5.8	4.7
Cfsm	0.07	0.05	0.12	0.28	0.90	0.94	0.70	2.05	0.70	0.39	0.13	0.11
In.	0.08	0.05	0.14	0.33	0.97	1.08	0.78	2.36	0.78	0.45	0.16	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 – 2004, 2007 – 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.9	57.3	84.2	108	126	144	103	60.1	43.8	33.3	49.7	28.3
Max	164	275	328	322	482	393	277	236	216	217	507	131
(WY)	(1977)	(2007)	(2004)	(1978)	(1998)	(1994)	(1983)	(1978)	(1972)	(1975)	(1989)	(2003)
Min	2.47	2.82	7.11	15.5	19.1	39.3	29.5	16.1	9.31	5.39	2.66	3.13
(WY)	(1999)	(2008)	(2002)	(1981)	(2002)	(2002)	(1995)	(1985)	(1986)	(2002)	(2002)	(1995)

SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 1950–2004, 2007–2008	
Annual total	17,260.5	11,881.0		
Annual mean	47.3	32.5	73.2	
Highest annual mean			138	2003
Lowest annual mean			24.8	1981
Highest daily mean	516	Apr 17	518	May 13
Lowest daily mean	1.9	Nov 14 ^a	1.9	Nov 14 ^a
Annual seven-day minimum	2.1	Nov 14	2.1	Nov 14
Maximum peak flow			526	May 13
Maximum peak stage			10.06	May 13
Instantaneous low flow			1.7	Nov 14 ^c
Annual runoff (cfsm)	0.782		0.537	
Annual runoff (inches)	10.61		7.31	
10 percent exceeds	125		65	
50 percent exceeds	9.4		16	
90 percent exceeds	3.1		3.4	
			b2,820	Aug 20, 1989
			15.41	Aug 20, 1989
			0.93	Aug 22, 2002

^a Nov. 14, 19, 20.^b From rating curve extended above 1,600 ft³/s.^c Nov. 14, 15, 19, 20.