

01651800 WATTS BRANCH AT WASHINGTON, D.C.

Potomac Basin
Middle Potomac-Anacostia-Occoquan Subbasin

LOCATION.--Lat 38°54'04.0", long 76°56'31.9" referenced to North American Datum of 1983, Washington, DC, Hydrologic Unit 02070010, on left bank 10 ft upstream from Minnesota Ave. bridge, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--3.28 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1992 to current year.

GAGE.--Water-stage recorder and cobblestone control. Datum of gage is 21.52 ft above National Geodetic Vertical Datum of 1929. June 1992 to Sept. 30, 2007, at site 200 ft upstream at datum 5.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges (questionable data) which are poor. U.S. Geological Survey gage-height telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct 26	2145	1,370	8.50
Oct 27	0430	706	7.47
Feb 1	1445	439	6.88
Apr 20	1530	504	7.04
May 9	0045	*2,010	*9.24
May 11	2115	517	7.07
May 31	1330	878	7.78
Jun 4	1945	754	7.56
Jun 27	1800	368	6.69
Jul 6	1700	450	6.91
Jul 23	2030	602	7.26
Jul 27	1330	579	7.21
Sep 6	1100	556	7.16

Minimum discharge, 0.13 ft³/s, Oct. 7.

01651800 WATTS BRANCH AT WASHINGTON, D.C.—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	0.33	1.1	2.2	2.9	65	1.5	2.8	3.2	4.2	2.6	1.4	0.42
2	0.32	1.2	3.3	2.2	7.0	1.3	1.8	2.6	2.3	1.8	1.3	0.38
3	0.34	1.2	3.9	1.9	3.3	1.4	11	2.3	11	1.7	0.91	0.36
4	0.34	1.2	1.7	1.9	2.4	2.8	7.6	2.1	90	2.1	0.80	0.33
5	0.33	1.2	3.0	2.1	2.1	11	2.1	1.9	13	2.5	0.78	2.2
6	0.39	3.1	2.5	3.9	2.6	1.6	12	2.1	5.6	23	0.97	57
7	0.29	1.0	1.9	1.9	4.2	14	3.0	1.7	6.5	5.3	5.6	1.7
8	0.35	0.70	4.7	1.6	1.6	9.6	2.3	10	5.7	2.5	0.97	0.59
9	0.79	2.0	2.0	1.6	1.6	2.5	2.1	175	4.8	3.3	0.60	6.4
10	0.43	1.9	2.1	4.0	1.4	2.1	2.1	20	9.6	2.2	0.58	0.85
11	0.54	0.61	1.1	7.1	1.3	2.1	2.8	110	3.2	1.7	0.71	0.66
12	0.58	3.5	2.8	2.2	2.4	2.1	6.3	150	3.0	1.5	0.83	1.00
13	0.70	1.8	1.4	2.1	41	1.6	2.2	14	2.2	4.5	1.1	0.68
14	0.58	0.78	1.1	1.8	5.2	1.6	1.9	8.7	2.9	17	3.8	0.61
15	0.62	20	1.0	1.5	2.9	2.3	1.8	6.7	2.1	2.1	0.85	0.67
16	0.60	1.7	26	1.4	2.2	11	1.9	30	14	1.8	0.50	0.87
17	0.75	1.2	3.3	14	2.1	1.9	1.9	7.1	3.0	1.6	0.50	0.84
18	1.2	1.3	2.2	8.9	5.2	1.9	1.9	6.1	1.8	2.2	1.6	0.91
19	4.9	0.91	2.2	3.6	2.2	8.8	1.8	4.6	2.3	2.9	0.68	0.74
20	0.86	0.97	2.1	2.5	2.0	5.6	46	17	1.6	9.4	0.37	3.6
21	0.33	0.97	2.2	1.9	1.8	2.1	48	4.9	4.3	2.5	0.49	0.52
22	0.39	1.1	1.9	2.0	5.8	2.0	10	4.0	1.5	1.1	0.64	0.45
23	0.53	1.5	4.9	1.9	2.2	1.8	5.1	3.5	5.4	35	0.54	0.56
24	17	1.6	2.2	1.8	1.7	1.7	3.7	3.2	2.0	9.3	1.2	0.63
25	21	2.0	1.8	1.5	1.7	1.7	3.0	3.0	1.4	1.7	0.40	2.8
26	90	2.7	9.0	1.5	2.4	1.7	4.5	3.0	1.3	2.0	0.38	11
27	79	2.3	3.4	1.6	1.7	1.8	5.3	2.5	21	25	0.41	14
28	2.7	1.7	7.6	1.5	1.4	1.7	34	2.1	14	2.3	2.0	3.1
29	1.5	2.0	15	1.9	1.4	1.5	7.0	2.1	4.4	2.3	5.6	1.2
30	1.2	2.8	5.7	2.3	---	1.5	3.7	2.1	3.7	2.3	0.60	8.6
31	1.0	---	7.6	1.6	---	1.6	---	42	---	1.1	0.44	---
Total	229.89	66.04	131.8	88.6	177.8	105.8	239.6	647.5	247.8	176.3	37.55	123.67
Mean	7.42	2.20	4.25	2.86	6.13	3.41	7.99	20.9	8.26	5.69	1.21	4.12
Max	90	20	26	14	65	14	48	175	90	35	5.6	57
Min	0.29	0.61	1.0	1.4	1.3	1.3	1.8	1.7	1.3	1.1	0.37	0.33
Cfsm	2.26	0.67	1.30	0.87	1.87	1.04	2.43	6.37	2.52	1.73	0.37	1.26
In.	2.61	0.75	1.49	1.00	2.02	1.20	2.72	7.34	2.81	2.00	0.43	1.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.68	4.26	4.33	5.22	5.26	7.02	5.07	5.62	4.96	3.95	2.97	3.96
Max	9.08	8.72	9.57	9.71	11.3	15.7	7.99	20.9	13.2	9.99	7.10	13.0
(WY)	(1996)	(2007)	(1997)	(1996)	(1998)	(1994)	(2008)	(2008)	(2006)	(2004)	(2004)	(1999)
Min	0.73	1.32	1.37	1.25	0.74	1.24	2.36	1.59	1.81	1.35	1.07	0.66
(WY)	(1999)	(2002)	(2002)	(2002)	(2002)	(2006)	(1995)	(1999)	(2002)	(2002)	(2006)	(2005)

01651800 WATTS BRANCH AT WASHINGTON, D.C.—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1992 - 2008	
Annual total	1,595.28		2,272.35			
Annual mean	4.37		6.21		4.70	
Highest annual mean					7.25	2003
Lowest annual mean					1.76	2002
Highest daily mean	128	Apr 15	175	May 9	204	Sep 16, 1999
Lowest daily mean	0.29	Oct 7	0.29	Oct 7	^c 0.14	Oct 7, 2002 ^a
Annual seven-day minimum	0.33	Oct 1	0.33	Oct 1	0.19	Oct 3, 2002
Maximum peak flow			2,010	May 9	^{b,c} 2,220	Jun 25, 2006
Maximum peak stage			^c 9.24	May 9	^c 9.24	May 9, 2008
Instantaneous low flow			0.13	Oct 7	0.13	Oct 7, 2007
Annual runoff (cfsm)	1.33		1.89		1.43	
Annual runoff (inches)	18.09		25.77		19.47	
10 percent exceeds	7.7		11		9.4	
50 percent exceeds	1.8		2.1		2.0	
90 percent exceeds	0.61		0.61		0.72	

^c Estimated.

^a Oct. 7, 9, 2002.

^b From rating curve extended above 260 ft³/s, at previous gage location and datum.

^c At new gage location and datum.

