

Water-Data Report 2007

01585225 MOORES RUN TRIBUTARY NEAR TODD AVE AT BALTIMORE, MD

Upper Chesapeake Basin
Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°20'12.1", long 76°32'26.2" referenced to North American Datum of 1983, Baltimore City, MD, Hydrologic Unit 02060003, on right bank near bend in road on Todd Ave, at Baltimore, and 50 ft upstream from mouth (culvert inlet to Moores Run).

DRAINAGE AREA.--0.21 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1996 to current year.

REVISED RECORDS.--WRD-US-2006: 2005.

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor including those for estimated daily discharges (missing record). Baltimore City 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 100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 28	0539	111	4.15
Nov 16	1615	*298	*6.74
May 12	1918	114	4.18
Jun 25	0215	105	4.10
Jul 27	1710	116	4.20
Aug 3	1514	136	4.37
Aug 20	1752	103	4.08
Sep 10	2239	161	4.58
Sep 27	2154	143	4.43

Minimum discharge, 0.00 ft³/s, Aug. 17-20, 29, 30, Sept. 1, 2, 7, 9, 12, 18-20, 22-27.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.08	0.06	0.52	2.6	0.05	0.30	0.03	0.01	0.03	0.02	e0.01	0.02
2	0.04	0.95	0.07	0.16	0.16	3.6	0.03	0.02	0.03	0.02	0.01	0.01
3	0.04	0.07	0.07	0.11	0.06	0.16	0.03	0.03	1.9	0.35	e1.1	0.01
4	0.03	0.06	0.07	0.13	0.05	0.11	0.95	0.04	0.05	0.94	0.01	0.02
5	0.32	0.06	0.06	0.24	0.05	0.09	0.04	0.04	0.03	0.03	0.02	0.01
6	2.1	0.05	0.07	0.18	0.06	0.08	0.04	0.03	0.03	0.02	0.05	0.02
7	1.0	0.26	0.06	0.93	0.05	0.12	0.04	0.03	0.04	0.02	0.02	0.01
8	0.08	5.8	0.06	1.8	0.05	0.08	0.04	0.03	0.03	0.02	0.02	0.01
9	0.06	0.18	0.06	e0.15	0.05	0.07	0.04	0.03	0.03	0.02	e0.09	0.01
10	0.05	0.11	0.06	e0.06	0.05	0.16	0.03	0.03	0.03	e0.07	e0.01	1.0
11	0.05	0.09	0.06	0.09	0.05	0.11	0.17	0.03	0.03	e0.03	e0.01	e0.04
12	0.07	0.19	0.05	0.09	0.05	0.12	1.4	1.4	e0.01	e0.01	e0.01	0.02
13	0.04	0.12	0.15	0.08	0.12	0.09	0.05	0.04	e0.04	0.02	e0.01	0.01
14	0.05	0.07	0.14	0.09	0.17	0.05	0.26	0.03	0.03	0.02	e0.01	0.07
15	0.04	0.07	0.11	0.09	0.06	0.78	12	e0.01	0.03	0.02	e0.01	0.04
16	0.04	15	0.06	e0.08	0.07	7.5	0.67	0.42	0.03	0.02	e0.05	0.02
17	2.4	0.31	0.05	e0.05	0.12	0.68	0.17	0.05	0.02	0.02	e0.01	0.02
18	0.09	0.15	0.06	0.09	0.11	0.25	0.11	0.03	0.02	0.02	e0.01	0.01
19	0.11	0.11	0.05	0.09	0.10	0.15	0.09	0.03	0.02	0.01	0.04	0.01
20	1.2	0.10	0.05	0.08	0.22	0.11	0.06	0.03	0.03	e0.01	e1.7	0.03
21	0.07	e0.06	0.05	0.08	0.42	0.09	0.05	0.04	0.02	e0.01	1.9	0.04
22	0.06	e1.7	2.0	0.15	0.15	0.08	0.05	0.03	0.02	e0.01	0.07	0.01
23	0.05	0.64	1.4	0.08	0.07	0.42	0.05	0.03	0.02	e0.01	e0.04	0.01
24	0.05	0.14	0.15	0.07	0.06	0.52	0.06	0.04	0.02	0.06	e0.03	0.01
25	0.05	0.11	1.6	0.07	0.47	0.09	0.07	0.03	0.77	0.01	0.25	0.00
26	0.04	0.10	0.25	0.06	0.63	0.06	0.27	0.03	0.02	0.01	0.05	0.00
27	2.1	0.09	0.12	0.07	0.16	0.06	0.54	0.05	0.02	0.87	0.04	2.0
28	7.3	0.08	0.09	0.07	0.10	e0.03	0.03	0.03	0.10	0.01	0.03	0.12
29	0.12	0.08	0.08	0.06	---	0.04	0.02	0.03	0.09	0.18	0.01	0.03
30	0.08	0.08	0.08	0.06	---	0.04	0.02	0.06	0.02	0.02	0.02	0.02
31	0.07	---	0.13	0.06	---	0.03	---	0.04	---	0.01	0.03	---
Total	17.88	26.89	7.83	8.02	3.76	16.07	17.41	2.77	3.56	2.89	5.67	3.63
Mean	0.58	0.90	0.25	0.26	0.13	0.52	0.58	0.09	0.12	0.09	0.18	0.12
Max	7.3	15	2.0	2.6	0.63	7.5	12	1.4	1.9	0.94	1.9	2.0
Min	0.03	0.05	0.05	0.05	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.00
Cfsm	2.75	4.27	1.20	1.23	0.64	2.47	2.76	0.43	0.57	0.44	0.87	0.58
In.	3.17	4.76	1.39	1.42	0.67	2.85	3.08	0.49	0.63	0.51	1.00	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.25	0.25	0.22	0.24	0.26	0.30	0.24	0.18	0.35	0.27	0.15	0.26
Max	0.66	0.90	0.44	0.53	0.57	0.52	0.58	0.37	1.90	0.85	0.29	0.73
(WY)	(2006)	(2007)	(1997)	(1999)	(1998)	(2007)	(2007)	(2003)	(2006)	(2006)	(1999)	(1999)
Min	0.04	0.08	0.04	0.09	0.03	0.03	0.10	0.07	0.09	0.02	0.05	0.04
(WY)	(2001)	(2000)	(1999)	(2004)	(2002)	(2006)	(2001)	(1999)	(1999)	(1997)	(2006)	(2005)

01585225 MOORES RUN TRIBUTARY NEAR TODD AVE AT BALTIMORE, MD—Continued**SUMMARY STATISTICS**

	Calendar Year 2006		Water Year 2007		Water Years 1996 - 2007	
Annual total	181.51		116.38			
Annual mean	0.50		0.32		0.25	
Highest annual mean					0.44	2006
Lowest annual mean					0.12	2001
Highest daily mean	17	Jun 27	15	Nov 16	17	Jun 27, 2006
Lowest daily mean	0.02	Mar 11 ^a	0.00	Sep 25 ^b	0.00	Jul 6, 1997 ^c
Annual seven-day minimum	0.02	Mar 11	0.01	Jul 17	0.00	Dec 15, 1998
Maximum peak flow			298	Nov 16	d319	Jun 1, 2006
Maximum peak stage			6.74	Nov 16	7.64	Jun 1, 2006
Instantaneous low flow			0.00	Aug 17 ^f	0.00	Aug 17, 1997 ^g
Annual runoff (cfsm)	2.37		1.52		1.17	
Annual runoff (inches)	32.15		20.62		15.96	
10 percent exceeds	1.0		0.58		0.47	
50 percent exceeds	0.05		0.06		0.05	
90 percent exceeds	0.03		0.01		0.02	

^a March. 11-31, Apr. 1, 2, 6, May 25, 30, Sept. 21-23. (Note: March 13-17, 21-24, 29 and Sept. 21-23, estimated)

^b Sept. 25, 26.

^c Many days.

^d From rating curve extended above 20 ft³/s on basis of runoff comparison with nearby station.

^f Aug. 17-20, 29, 30, Sept. 1, 2, 7, 9, 12, 18-20, 22-27.

^g No flow at times in many years.

