



Water-Data Report 2011

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.--WDR-US-2006: 2005. WDR-US-2008: 2005-2007.

GAGE.--Water-stage recorder, crest-stage gage, and v-notch weir since Feb. 14, 2005. Elevation of gage is 45 ft above National Geodetic Vertical Datum of 1929, from topographic map. July 1996 to Sept. 30, 2004, flat crested weir at same site and datum.

REMARKS.--Records poor including those for estimated daily discharges (backwater, missing record, ice effect, erroneous data). U.S. Geological Survey satellite collection platform 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)
Apr 12	2050	103	4.77
Jun 12	1626	102	4.74
Jul 19	1456	125	5.37
Aug 13	1336	160	6.73
Aug 14	0946	129	5.51
Aug 21	1326	*166	*7.01
Sep 7	1236	110	4.97
Sep 7	2341	165	6.96
Sep 23	1401	144	6.08
Sep 23	1456	105	4.83
Sep 23	1631	119	5.19

Minimum discharge, 0.00 ft³/s, on many days.

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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	1.5	0.03	2.1	0.02	0.09	0.08	0.23	0.08	0.02	0.02	0.02	0.02
2	0.16	0.02	0.04	0.03	2.6	0.06	0.06	0.05	0.02	0.01	1.1	0.02
3	0.32	0.03	0.04	0.02	0.18	0.05	0.08	0.04	0.02	0.73	0.54	0.01
4	0.99	1.4	0.03	0.02	0.11	0.05	0.06	0.73	0.04	0.02	0.13	0.01
5	0.11	0.07	0.03	0.02	0.56	0.04	0.90	0.04	0.02	0.01	0.01	3.3
6	0.08	0.04	0.03	0.02	0.25	3.7	0.06	0.26	0.01	0.01	0.32	5.9
7	0.06	0.04	0.02	0.02	0.16	0.27	0.06	0.03	0.01	0.44	0.29	12
8	0.05	0.04	0.02	0.02	0.13	0.09	0.64	e0.03	0.02	0.43	0.02	6.2
9	0.04	0.04	0.02	0.02	0.07	0.07	0.09	e0.03	0.44	0.02	0.01	3.8
10	0.04	0.03	0.02	0.02	0.06	17	0.07	e0.02	0.01	0.01	0.01	0.19
11	0.04	0.03	0.03	0.02	0.06	e0.50	0.07	e0.02	0.15	0.98	0.01	0.22
12	0.04	0.02	1.7	e0.02	0.06	e0.18	2.2	e0.03	1.1	0.02	0.01	0.10
13	0.03	0.03	0.09	0.02	0.05	e0.12	0.36	0.03	0.02	0.01	3.2	0.06
14	1.7	0.03	0.04	0.02	0.08	e0.10	0.08	0.33	0.02	0.01	3.3	0.04
15	0.05	0.03	e0.03	0.02	0.05	e0.18	0.07	0.79	0.02	0.00	e0.14	0.05
16	0.04	0.16	0.03	0.02	0.05	1.7	3.3	0.04	0.17	0.00	e0.04	0.03
17	e0.03	0.13	0.05	0.02	0.05	e0.14	0.28	0.38	0.03	0.01	e0.02	0.03
18	0.03	0.02	0.04	0.51	0.05	e0.11	0.13	0.41	0.02	0.01	e0.06	0.02
19	0.69	0.02	0.03	0.11	e0.05	e0.10	0.41	2.3	0.02	3.1	0.51	0.02
20	0.03	0.02	0.03	0.03	e0.05	e0.09	0.11	e0.12	0.02	e0.02	0.02	0.02
21	0.02	0.02	0.03	0.08	e0.07	e0.46	0.08	e0.06	0.03	e0.01	5.0	0.03
22	0.02	0.02	0.03	0.02	0.37	0.12	0.18	e0.04	0.02	0.01	0.15	0.08
23	0.02	0.02	0.02	0.02	0.11	1.1	0.35	e0.03	0.02	0.01	0.02	14
24	0.02	0.02	0.02	e0.02	0.12	0.15	1.5	0.03	0.02	0.01	0.01	0.20
25	0.02	0.07	0.02	0.02	1.9	0.09	0.22	0.02	0.02	0.11	0.62	0.07
26	0.02	0.03	e0.02	0.26	0.10	0.07	0.12	0.02	0.01	0.01	0.01	0.05
27	1.2	0.03	e0.02	0.28	0.07	0.06	0.08	0.03	0.02	0.01	12	0.04
28	0.04	0.02	0.02	0.18	0.80	0.06	0.21	0.02	0.52	0.01	7.5	0.17
29	0.03	0.02	e0.02	0.10	---	0.06	0.06	0.02	0.02	0.01	0.08	0.03
30	0.03	0.18	e0.02	0.12	---	0.09	0.05	0.02	0.01	0.01	0.04	0.02
31	0.02	---	e0.02	0.05	---	0.11	---	0.02	---	0.01	0.03	---
Total	7.47	2.66	4.66	2.15	8.30	27.00	12.11	6.07	2.87	6.07	35.22	46.73
Mean	0.24	0.09	0.15	0.07	0.30	0.87	0.40	0.20	0.10	0.20	1.14	1.56
Max	1.7	1.4	2.1	0.51	2.6	17	3.3	2.3	1.1	3.1	12	14
Min	0.02	0.02	0.02	0.02	0.05	0.04	0.05	0.02	0.01	0.00	0.01	0.01
Cfsm	1.15	0.42	0.72	0.33	1.41	4.15	1.92	0.93	0.46	0.93	5.41	7.42
In.	1.32	0.47	0.83	0.38	1.47	4.78	2.15	1.08	0.51	1.08	6.24	8.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.27	0.21	0.27	0.21	0.27	0.33	0.27	0.22	0.27	0.25	0.23	0.42
Max	0.66	0.70	0.90	0.53	0.57	0.87	0.61	0.58	1.37	0.56	1.14	1.56
(WY)	(2006)	(2007)	(2010)	(1999)	(1998)	(2011)	(2009)	(2009)	(2006)	(2006)	(2011)	(2011)
Min	0.04	0.05	0.04	0.07	0.02	0.03	0.10	0.07	0.03	0.02	0.05	0.04
(WY)	(2001)	(2008)	(1999)	(2011)	(2009)	(2006)	(2001)	(1999)	(2010)	(1997)	(2006)	(2005)

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	Calendar Year 2010	Water Year 2011	Water Years 1996 - 2011
Annual total	112.65	161.31	
Annual mean	0.31	0.44	0.27
Highest annual mean			0.44
Lowest annual mean			0.12
Highest daily mean	29 Sep 30	17 Mar 10	29 Sep 30, 2010
Lowest daily mean	0.00 Jun 7 ^a	0.00 Jul 15 ^b	0.00 Jul 6, 1997 ^a
Annual seven-day minimum	0.00 Jun 27	0.01 Jul 12	0.00 Dec 15, 1998
Maximum peak flow		166 Aug 21	c261 Jun 13, 2003
Maximum peak stage		7.01 Aug 21	7.64 Jun 1, 2006
Instantaneous low flow		0.00 Jul 7 ^a	0.00 Aug 17, 1997 ^d
Annual runoff (cfsm)	1.47	2.10	1.28
Annual runoff (inches)	19.96	28.57	17.35
10 percent exceeds	0.47	0.73	0.51
50 percent exceeds	0.04	0.04	0.05
90 percent exceeds	0.00	0.02	0.01

^a Many days.^b July 15, 16.^c From rating curve extended above 20 ft³/s on basis of runoff comparison with nearby station.^d No flow at times in many years.