



## Water-Data Report 2011

# 01585230 MOORES RUN AT RADECKE AVE AT BALTIMORE, MD

Upper Chesapeake Basin  
Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°19'48.3", long 76°32'05.6" referenced to North American Datum of 1983, Baltimore City, MD, Hydrologic Unit 02060003, on right downstream side of bridge on Radecke Avenue, at Baltimore, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--3.52 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR-US-2006: 1996-2005(P).

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

REMARKS.--Records fair except those for estimated daily discharges (ice effect), which are poor. U.S. Geological Survey gage-height telemeter at station.

Several measurements of water temperature were made during the 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 800 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 19	0031	1,000	6.22
Jun 12	1634	913	6.02
Jul 3	0257	926	6.05
Jul 11	2020	813	5.78
Jul 19	1510	1,630	7.40
Aug 2	2357	1,080	6.39
Aug 13	1342	1,860	7.75
Aug 14	0959	2,110	8.11
Aug 19	1728	909	6.01
Aug 21	1336	1,870	7.76
Aug 28	0149	887	5.96
Sep 7	2353	*2,360	*8.44
Sep 23	1433	1,870	7.77

Minimum discharge, 0.23 ft<sup>3</sup>/s, Oct. 13, July 14-19.

## 01585230 MOORES RUN AT RADECKE AVE AT BALTIMORE, MD—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	34	0.37	29	1.0	1.8	2.5	3.6	1.8	0.70	0.42	0.55	0.63
<b>2</b>	1.7	0.34	1.7	1.3	43	1.8	1.9	1.4	0.62	0.32	7.0	0.59
<b>3</b>	3.0	0.35	0.76	1.0	4.0	1.4	1.9	1.2	0.63	15	14	0.52
<b>4</b>	13	25	0.56	0.91	2.5	1.4	1.8	10	0.68	0.36	3.3	0.45
<b>5</b>	1.8	1.7	0.51	e0.90	9.9	1.3	9.2	1.5	0.86	0.32	0.36	28
<b>6</b>	1.0	0.72	e0.49	0.87	6.1	50	1.9	2.7	0.75	0.29	2.9	72
<b>7</b>	0.62	0.52	e0.46	e0.86	3.9	6.5	1.8	1.5	0.52	4.2	2.3	157
<b>8</b>	0.43	0.56	0.44	e0.84	3.4	2.2	7.4	1.3	0.53	4.6	0.41	112
<b>9</b>	0.38	0.53	e0.43	e0.82	2.1	1.8	2.6	1.2	4.0	0.40	0.55	71
<b>10</b>	0.33	0.49	e0.42	0.79	1.7	214	2.1	1.0	0.74	0.32	0.34	3.3
<b>11</b>	0.32	0.43	0.56	0.78	1.5	7.5	1.9	0.87	1.2	11	0.27	3.5
<b>12</b>	0.28	0.43	28	e0.79	1.5	3.3	7.4	1.3	12	0.56	0.30	2.3
<b>13</b>	0.27	0.43	3.1	e0.78	1.4	2.7	5.8	1.3	0.57	0.27	46	1.4
<b>14</b>	15	0.43	e1.4	e0.78	1.9	2.3	2.3	5.1	0.40	0.25	58	1.2
<b>15</b>	1.1	0.45	e1.1	e0.84	1.4	2.6	1.9	11	0.65	1.6	3.1	1.7
<b>16</b>	0.51	2.5	e0.98	e0.84	1.5	19	44	1.4	1.4	0.23	0.78	0.89
<b>17</b>	0.39	1.8	e0.95	0.86	1.6	2.7	5.0	3.6	0.70	0.23	0.61	0.86
<b>18</b>	0.37	0.46	e0.90	7.5	1.5	2.4	2.5	6.2	0.37	0.23	5.2	0.97
<b>19</b>	7.2	0.44	0.88	2.6	1.4	2.1	4.7	45	0.38	32	11	0.81
<b>20</b>	0.62	0.43	e0.87	1.2	1.3	1.9	2.3	3.4	0.37	1.2	0.94	0.90
<b>21</b>	0.55	0.43	e0.89	2.3	1.6	5.4	1.7	1.7	0.80	0.83	57	0.80
<b>22</b>	0.40	0.45	0.81	e1.1	5.0	2.2	2.5	1.4	0.42	0.59	1.6	3.8
<b>23</b>	0.36	0.46	0.73	e1.0	2.4	14	4.1	1.1	0.37	0.52	0.68	205
<b>24</b>	0.37	0.45	0.67	e1.0	2.4	3.7	11	0.96	0.37	0.52	0.55	5.9
<b>25</b>	0.37	1.4	0.57	e1.1	30	2.3	2.9	0.86	0.37	1.6	6.1	2.7
<b>26</b>	0.37	0.43	e0.57	3.8	2.7	2.1	2.0	0.81	0.37	0.48	0.86	2.5
<b>27</b>	12	0.41	e0.60	4.6	2.2	1.9	1.8	0.86	0.36	0.40	131	1.8
<b>28</b>	1.4	0.37	e0.66	3.3	11	1.8	3.4	0.89	1.8	0.37	100	3.1
<b>29</b>	0.77	0.37	0.74	2.3	---	1.6	1.5	0.86	0.38	0.35	1.8	1.8
<b>30</b>	0.40	2.1	0.92	2.4	---	2.1	1.4	0.74	0.35	0.37	0.99	1.3
<b>31</b>	0.39	---	1.1	1.6	---	2.5	---	0.76	---	0.37	0.69	---
<b>Total</b>	99.70	45.25	81.77	50.76	150.7	369.0	144.3	113.71	33.66	80.20	459.18	688.72
<b>Mean</b>	3.22	1.51	2.64	1.64	5.38	11.9	4.81	3.67	1.12	2.59	14.8	23.0
<b>Max</b>	34	25	29	7.5	43	214	44	45	12	32	131	205
<b>Min</b>	0.27	0.34	0.42	0.78	1.3	1.3	1.4	0.74	0.35	0.23	0.27	0.45
<b>Cfsm</b>	0.91	0.43	0.75	0.47	1.53	3.38	1.37	1.04	0.32	0.73	4.21	6.52
<b>In.</b>	1.05	0.48	0.86	0.54	1.59	3.90	1.52	1.20	0.36	0.85	4.85	7.28

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

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	4.08	3.54	4.83	3.80	4.70	6.44	4.57	3.68	4.91	3.81	3.88	6.47
<b>Max</b>	11.7	10.5	13.5	9.43	11.5	11.9	10.0	8.25	23.8	8.47	14.8	23.0
(WY)	(2006)	(2007)	(2010)	(1998)	(1998)	(2011)	(2007)	(2003)	(2006)	(2000)	(2011)	(2011)
<b>Min</b>	0.55	0.95	0.96	1.42	0.67	0.67	2.16	1.06	0.49	0.36	0.62	0.91
(WY)	(2001)	(2008)	(1999)	(2008)	(2002)	(2006)	(2001)	(1997)	(2010)	(1997)	(2006)	(2005)

**01585230 MOORES RUN AT RADECKE AVE AT BALTIMORE, MD—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1996 - 2011</b>	
<b>Annual total</b>	1,746.97	2,316.95		
<b>Annual mean</b>	4.79	6.35	4.56	
<b>Highest annual mean</b>			6.87	2003
<b>Lowest annual mean</b>			2.35	2002
<b>Highest daily mean</b>	422	Sep 30	Mar 10	422 Sep 30, 2010
<b>Lowest daily mean</b>	0.10	Jul 4 <sup>a</sup>	0.23 Jul 16 <sup>b</sup>	0.10 Jul 4, 2010 <sup>a</sup>
<b>Annual seven-day minimum</b>	0.11	Jun 29	0.38 Oct 7	0.11 Jun 29, 2010
<b>Maximum peak flow</b>			2,360 Sep 7	c4,380 Jun 13, 2003
<b>Maximum peak stage</b>			8.44 Sep 7	10.48 Jun 13, 2003
<b>Instantaneous low flow</b>			0.23 Oct 13 <sup>d</sup>	0.10 Jun 30, 2010 <sup>f</sup>
<b>Annual runoff (cfsm)</b>	1.36	1.80		1.30
<b>Annual runoff (inches)</b>	18.46	24.49		17.61
<b>10 percent exceeds</b>	7.6	9.9		8.4
<b>50 percent exceeds</b>	0.74	1.3		1.0
<b>90 percent exceeds</b>	0.19	0.37		0.35

<sup>a</sup> July 4, 5, 2010.<sup>b</sup> July 16-18.<sup>c</sup> From rating curve extended above 1,300 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height of 10.27 ft.<sup>d</sup> Oct. 13, July 14-19.<sup>f</sup> June 30, July 1-5, 2010.