

## Water-Data Report 2011

**01585200 WEST BRANCH HERRING RUN AT IDLEWYLDE, MD**

 Upper Chesapeake Basin  
 Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°22'25.1", long 76°35'03.6" referenced to North American Datum of 1983, Baltimore County, MD, Hydrologic Unit 02060003, on left bank 40 ft downstream from bridge on Regester Avenue, at Idlewylde, 0.1 mi north of Baltimore City limits, 1.0 mi upstream from mouth, and 1.3 mi east of State Highway 45.

DRAINAGE AREA.--2.13 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1957 to May 1965, January 1966 to September 1987, October 1996 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 285 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 31, 1965, at site 40 ft upstream at datum 3.24 ft higher.

REMARKS.--Records fair, except those above 60 ft<sup>3</sup>/s and those for estimated daily discharges (backwater, ice effect, missing record), which are poor. Diurnal fluctuation (occasionally extensive) caused by unknown source upstream from station. 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 290 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 10	1255	351	3.44
May 15	1850	294	3.28
May 18	2120	362	3.47
Jun 12	1625	358	3.46
Jul 3	0250	596	4.01
Jul 11	2020	414	3.60
Aug 13	1405	540	3.87
Aug 14	1005	1,640	6.52
Aug 19	1725	294	3.28
Aug 28	0215	358	3.46
Sep 5	2250	389	3.54
Sep 7	0920	*1,910	*7.03
Sep 8	0000	545	3.88
Sep 9	0455	347	3.43
Sep 23	1225	787	4.52

Minimum discharge, 0.14 ft<sup>3</sup>/s, July 31.

**01585200 WEST BRANCH HERRING RUN AT IDLEWYLDE, 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>	12	0.56	16	e0.73	0.82	1.7	4.2	1.7	0.90	0.28	0.66	0.84
<b>2</b>	1.6	0.58	1.4	e0.89	17	1.4	1.7	1.3	0.78	0.29	0.80	0.78
<b>3</b>	2.2	0.60	1.1	e0.73	2.4	1.2	1.7	1.3	0.78	15	6.1	0.71
<b>4</b>	11	15	0.99	e0.72	1.5	1.2	1.6	8.2	0.78	0.48	4.2	0.69
<b>5</b>	1.6	1.4	1.1	e0.71	4.8	1.2	4.6	1.4	0.97	0.39	0.42	23
<b>6</b>	1.1	0.94	e0.86	e0.70	3.3	21	1.4	2.0	0.81	0.35	5.7	22
<b>7</b>	0.93	0.82	e0.75	e0.69	2.4	4.2	1.4	1.4	0.74	1.5	5.2	162
<b>8</b>	0.81	e0.79	0.74	e0.70	2.2	2.0	5.8	1.2	0.73	5.3	0.54	53
<b>9</b>	0.77	e0.76	0.67	e0.68	1.4	1.6	1.9	1.2	1.6	0.58	0.51	43
<b>10</b>	0.72	0.74	0.68	e0.68	1.2	104	1.5	1.2	0.90	0.40	0.40	5.5
<b>11</b>	1.1	0.65	0.69	e0.70	e1.1	7.3	1.5	1.1	0.86	7.7	0.28	7.7
<b>12</b>	1.7	0.64	15	e0.81	e1.1	3.6	6.7	0.99	9.1	0.85	0.26	4.4
<b>13</b>	0.60	0.64	2.1	e0.64	1.2	2.7	3.5	0.99	1.0	0.40	15	3.0
<b>14</b>	6.9	0.62	e1.1	e0.66	3.4	2.2	1.6	4.1	0.75	0.34	71	2.6
<b>15</b>	0.88	0.62	e0.97	0.70	1.5	2.2	1.4	9.9	0.68	0.30	9.4	2.8
<b>16</b>	0.65	2.4	0.94	0.68	1.2	12	24	1.6	0.74	0.29	e0.50	2.2
<b>17</b>	0.63	4.1	0.97	0.63	1.3	2.5	3.8	4.0	0.69	0.29	e0.36	2.1
<b>18</b>	0.62	0.75	0.90	4.5	1.3	2.2	2.3	18	0.65	0.27	e2.0	2.0
<b>19</b>	5.2	0.69	0.84	2.7	e1.1	1.9	5.3	22	0.62	1.1	7.5	2.0
<b>20</b>	0.75	0.69	0.88	0.93	e0.98	1.7	2.1	3.2	0.59	0.65	1.6	2.2
<b>21</b>	0.65	0.72	e0.82	1.4	0.96	4.5	1.7	1.9	e0.71	0.29	7.0	1.7
<b>22</b>	0.58	0.66	e0.75	e0.68	2.5	1.9	2.5	1.6	0.57	0.27	1.8	5.1
<b>23</b>	0.57	0.66	e0.75	e0.65	1.6	15	4.0	1.4	0.55	0.27	e1.0	44
<b>24</b>	0.57	0.61	e0.75	e0.66	1.5	3.0	4.0	1.3	0.46	0.25	0.70	3.3
<b>25</b>	0.55	1.7	e0.77	e0.70	15	2.2	1.9	1.1	0.36	6.0	6.2	2.5
<b>26</b>	0.58	0.70	e0.78	2.0	2.1	2.0	1.6	1.2	0.36	0.43	0.65	2.3
<b>27</b>	7.2	0.63	e0.75	2.8	1.6	1.9	1.5	1.2	0.39	0.28	51	2.2
<b>28</b>	0.80	0.66	e0.72	1.8	6.2	1.7	2.6	1.1	0.77	0.24	44	3.0
<b>29</b>	0.62	0.67	e0.72	1.1	---	1.7	1.3	1.0	0.35	0.28	1.9	2.1
<b>30</b>	0.62	2.6	e0.71	1.0	---	2.1	1.2	0.95	0.31	0.22	1.2	1.7
<b>31</b>	0.60	---	e0.71	0.81	---	2.4	---	0.90	---	0.22	0.94	---
<b>Total</b>	65.10	43.60	56.91	33.78	82.66	216.2	100.3	100.43	29.50	45.51	248.82	410.42
<b>Mean</b>	2.10	1.45	1.84	1.09	2.95	6.97	3.34	3.24	0.98	1.47	8.03	13.7
<b>Max</b>	12	15	16	4.5	17	104	24	22	9.1	15	71	162
<b>Min</b>	0.55	0.56	0.67	0.63	0.82	1.2	1.2	0.90	0.31	0.22	0.26	0.69
<b>Cfsm</b>	0.99	0.68	0.86	0.51	1.39	3.27	1.57	1.52	0.46	0.69	3.77	6.42
<b>In.</b>	1.14	0.76	0.99	0.59	1.44	3.78	1.75	1.75	0.52	0.79	4.35	7.17

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1965, 1966 -1987, 1997 - 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>	2.11	2.33	2.95	2.61	3.10	3.49	3.16	2.69	2.56	2.21	2.33	2.97
<b>Max</b>	6.73	6.59	8.21	9.14	7.41	6.97	7.80	5.24	9.61	5.92	12.2	13.7
<b>(WY)</b>	(2006)	(1973)	(2010)	(1979)	(1979)	(2011)	(1983)	(2003)	(1972)	(2004)	(1971)	(2011)
<b>Min</b>	0.49	0.43	0.51	0.26	0.43	1.06	1.12	0.88	0.79	0.38	0.40	0.27
<b>(WY)</b>	(2001)	(1982)	(1981)	(1981)	(2002)	(1981)	(1985)	(1963)	(1966)	(1966)	(1966)	(2007)

**01585200 WEST BRANCH HERRING RUN AT IDLEWYLDE, MD—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1957 - 1965, 1966 - 1987, 1997 - 2011</b>	
<b>Annual total</b>	1,068.13	1,433.23		
<b>Annual mean</b>	2.93	3.93	2.75	
<b>Highest annual mean</b>			4.26	1972
<b>Lowest annual mean</b>			1.33	2002
<b>Highest daily mean</b>	104	Sep 30	162	Sep 7
<b>Lowest daily mean</b>	0.20	Jul 9	0.22	Jul 30 <sup>a</sup>
<b>Annual seven-day minimum</b>	0.24	Jul 3	0.33	Jul 26
<b>Maximum peak flow</b>			c1,910	Sep 7
<b>Maximum peak stage</b>			7.03	Sep 7
<b>Instantaneous low flow</b>			0.14	Jul 31
<b>Annual runoff (cfsm)</b>	1.37	1.84		1.29
<b>Annual runoff (inches)</b>	18.65	25.03		17.51
<b>10 percent exceeds</b>	5.9	6.8		5.6
<b>50 percent exceeds</b>	1.3	1.1		1.1
<b>90 percent exceeds</b>	0.36	0.55		0.39

<sup>a</sup> July 30, 31.<sup>b</sup> Aug. 14-24, 1957, Aug. 15-19, 21-23, 2002.<sup>c</sup> From rating curve extended above 115 ft<sup>3</sup>/s on basis of slope-area measurement at gage height of 6.37 ft.<sup>d</sup> Aug. 14-24, 1957, Aug. 14-24, 2002.