

Water-Data Report 2011

01594950 MCMILLAN FORK NEAR FORT PENDLETON, MD

Potomac Basin
North Branch Potomac Subbasin

LOCATION.--Lat 39°16'36.1", long 79°23'25.1" referenced to North American Datum of 1983, Garrett County, MD, Hydrologic Unit 02070002, on left bank at upstream side of culvert on private driveway off Wilson-Corona Road, 200 ft upstream from mouth, 1.0 mi south of Bayard, WV, and 1.7 mi southwest of Fort Pendleton.

DRAINAGE AREA.--2.30 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1986 to current year.

REVISED RECORDS.--WDR MD-DE-95-1: 1989, 1991-93 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,441.94 ft above National Geodetic Vertical Datum of 1929 (Garrett County bench mark).

REMARKS.--Records fair except those for estimated daily discharges (ice effect), which are poor. 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 40 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 2	0500	86	3.26
Feb 18	1830	45	2.31
Feb 25	1145	53	2.51
Feb 28	1400	65	2.80
Mar 10	2200	41	2.18
Apr 19	1330	*142	*4.20
May 18	0500	44	2.30
Sep 6	1900	80	3.14

Minimum discharge, 0.04 ft³/s, on Oct. 10-16.

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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	0.87	0.19	18	4.3	1.3	27	4.9	8.0	1.3	0.71	0.13	0.52
2	0.25	0.19	7.5	8.5	21	18	4.8	6.8	1.1	0.63	0.12	0.34
3	0.12	0.22	4.9	5.9	e7.2	13	5.3	5.9	1.0	0.64	0.16	0.21
4	0.08	0.97	3.7	e4.7	e6.6	10	12	6.5	0.91	1.2	0.14	1.4
5	0.07	1.0	3.0	e3.9	e6.1	9.2	22	5.0	1.1	0.70	0.12	3.9
6	0.20	0.65	e2.8	e3.3	e6.5	14	15	4.4	0.86	0.51	0.72	27
7	0.55	0.44	e2.5	e2.9	e5.7	12	12	3.9	0.78	0.44	2.8	16
8	0.13	0.35	e2.3	e2.6	e5.0	9.6	12	3.5	0.71	0.76	1.0	6.7
9	0.06	0.31	e2.1	e2.2	e4.4	14	12	3.0	0.64	0.58	0.47	4.3
10	0.04	0.28	1.8	e2.0	e4.0	27	9.4	2.7	1.0	0.38	0.30	3.0
11	0.04	0.27	1.8	e1.8	e3.6	26	8.2	2.5	1.7	0.32	0.22	2.3
12	0.04	0.27	e2.3	e1.6	e3.5	18	10	2.3	0.70	0.36	0.17	1.8
13	0.04	0.27	e2.9	e1.4	e3.2	14	12	5.8	0.56	0.31	0.16	1.3
14	0.07	0.26	e2.7	e1.3	4.2	11	9.9	6.5	0.49	0.30	0.19	1.2
15	0.05	0.26	e2.3	e1.2	4.1	9.4	8.4	5.2	0.47	0.24	0.18	2.0
16	0.04	0.85	e1.9	1.2	4.3	9.4	13	4.3	0.61	0.21	0.15	1.3
17	0.05	2.6	e1.6	1.1	9.6	7.9	13	15	0.65	0.20	0.12	1.0
18	0.06	1.0	e1.4	1.1	29	7.2	11	27	2.8	0.19	0.12	0.87
19	0.06	0.64	e1.3	1.8	21	6.8	45	15	6.8	0.24	0.15	0.82
20	0.06	0.46	e1.2	1.5	14	5.8	24	10	14	0.22	0.16	0.96
21	0.07	0.36	e1.2	e1.2	27	9.8	15	7.8	5.2	0.18	0.21	0.80
22	0.07	0.31	e1.1	e1.1	21	9.3	11	6.2	3.8	0.16	0.22	0.64
23	0.07	0.29	e1.1	e1.0	14	11	14	5.1	2.5	0.14	0.14	0.72
24	0.07	0.30	e1.0	e1.0	11	14	18	4.3	2.1	1.2	0.14	0.72
25	0.07	0.62	e0.95	e0.98	32	11	13	3.6	1.7	0.34	1.8	0.60
26	0.08	2.7	e0.90	e0.97	21	9.2	12	3.2	1.3	0.30	0.55	0.58
27	0.14	1.8	e0.87	e0.95	17	7.9	12	4.0	1.2	0.48	0.32	0.69
28	0.10	1.00	e0.93	e0.94	40	6.7	17	3.1	2.2	0.19	0.34	0.63
29	0.11	0.63	0.96	e0.94	---	5.9	12	2.4	1.2	0.15	0.21	0.55
30	0.11	3.0	0.99	e0.92	---	5.4	9.8	1.9	0.90	0.20	0.19	0.52
31	0.17	---	1.6	0.85	---	5.1	---	1.6	---	0.16	0.18	---
Total	3.94	22.49	79.60	65.15	347.3	364.6	397.7	186.5	60.28	12.64	11.88	83.37
Mean	0.13	0.75	2.57	2.10	12.4	11.8	13.3	6.02	2.01	0.41	0.38	2.78
Max	0.87	3.0	18	8.5	40	27	45	27	14	1.2	2.8	27
Min	0.04	0.19	0.87	0.85	1.3	5.1	4.8	1.6	0.47	0.14	0.12	0.21
Cfsm	0.06	0.33	1.12	0.91	5.39	5.11	5.76	2.62	0.87	0.18	0.17	1.21
In.	0.06	0.36	1.29	1.05	5.62	5.90	6.43	3.02	0.97	0.20	0.19	1.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.22	3.29	5.41	6.46	6.98	9.60	6.87	5.77	2.77	2.66	1.65	1.79
Max	4.57	10.2	13.4	11.5	14.7	17.6	13.3	13.9	7.57	9.93	9.26	18.6
(WY) (1990)	(1987)	(2008)	(1990)	(1994)	(1994)	(2011)	(1996)	(1999)	(2003)	(2001)	(1996)	(2003)
Min	0.04	0.03	0.20	1.69	1.27	2.09	1.27	1.11	0.16	0.02	0.03	0.06
(WY)	(2002)	(2002)	(1999)	(2000)	(1993)	(2009)	(1995)	(1999)	(1999)	(1999)	(1999)	(1998)

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	Calendar Year 2010	Water Year 2011	Water Years 1987 - 2011	
Annual total	1,257.92	1,635.45		
Annual mean	3.45	4.48	4.53	
Highest annual mean			8.05	2003
Lowest annual mean			2.73	1999
Highest daily mean	89	Mar 13	45	Apr 19
Lowest daily mean	0.03	Sep 15	0.04	Oct 10 ^a
Annual seven-day minimum	0.05	Oct 10	0.05	Oct 10
Maximum peak flow			142	Apr 19
Maximum peak stage			4.20	Apr 19
Instantaneous low flow			0.04	Oct 10 ^d
Annual runoff (cfsm)	1.50	1.95		1.97
Annual runoff (inches)	20.35	26.45		26.77
10 percent exceeds	7.8	13		11
50 percent exceeds	1.3	1.3		2.6
90 percent exceeds	0.07	0.15		0.12

^a Oct. 10-13, 16.^b Many days in 1999, 2002.^c From rating curve extended above 71 ft³/s based on runoff comparison with Shields Run (adjacent stream, slope-area measurement, storm of Aug. 12, 2003).^d Oct. 10-16.^f Many days in 1999, 2002, Sept. 24, 2006.