01643500 BENNETT CREEK AT PARK MILLS, MD

Potomac Basin
Monocacy Subbasin

LOCATION.--Lat 39°17'38.9", long 77°24'25.5" referenced to North American Datum of 1983, Frederick County, MD, Hydrologic Unit 02070009, on left bank 75 ft downstream from highway bridge, 0.2 mi south of Park Mills, 1.8 mi upstream from mouth, and 3.7 mi southwest of Urbana.

DRAINAGE AREA.--62.8 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1948 to September 1958. Annual maximum, water years 1960-66. August 1966 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 240 ft above National Geodetic Vertical Datum of 1929, from topographic maps.

REMARKS.--No estimated daily discharges. Records good, except those above 2,000 ft^3/s, which are fair. U.S. Geological Survey satellite data-collection platform 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 1,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 14	0215	2,090	5.89
Nov 23	0715	*2,400	*6.27
Dec 8	0015	1,890	5.61
Jun 1	2245	2,250	6.09
Jul 9	0815	1,280	4.59

Minimum discharge, 11 ft^3/s, Sept. 14-18.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01643500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01643500.2012.pdf

01643500 BENNETT CREEK AT PARK MILLS, MD—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

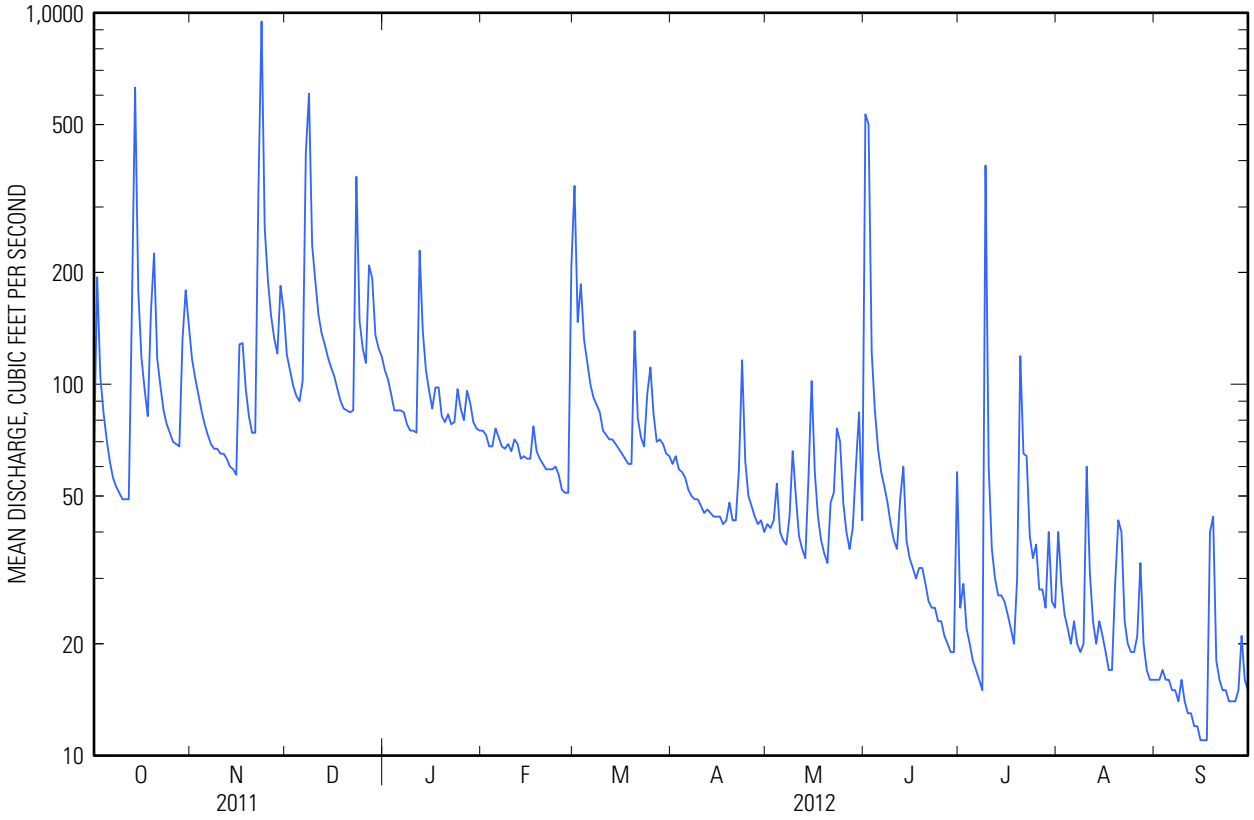
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	63	117	120	109	75	342	61	42	533	25	40	16
2	194	104	109	103	73	147	64	41	501	29	29	16
3	105	94	99	94	68	186	59	43	122	22	24	17
4	84	85	93	85	68	132	58	54	85	20	22	16
5	71	78	90	85	76	115	56	40	67	18	20	16
6	62	73	102	85	72	100	52	38	58	17	23	15
7	56	69	418	84	68	92	50	37	53	16	20	15
8	53	67	606	78	67	88	49	44	48	15	19	14
9	51	67	237	75	69	84	49	66	42	388	20	16
10	49	65	190	75	66	75	47	50	38	60	60	14
11	49	65	154	74	71	73	45	39	36	36	31	13
12	49	63	137	229	69	71	46	36	49	30	23	13
13	162	60	128	139	63	71	45	34	60	27	20	12
14	629	59	118	109	64	69	44	56	38	27	23	12
15	179	57	111	96	63	67	44	102	34	26	21	11
16	118	128	105	86	63	65	44	58	32	24	19	11
17	97	129	97	98	77	63	42	44	30	22	17	11
18	82	97	90	98	66	61	43	38	32	20	17	40
19	156	82	86	82	63	61	48	35	32	30	29	44
20	225	74	85	79	61	139	43	33	29	119	43	18
21	117	74	84	83	59	81	43	48	26	65	40	16
22	99	330	85	78	59	72	59	51	25	64	23	15
23	85	948	362	79	59	68	116	76	25	39	20	15
24	78	263	148	97	60	94	62	70	23	34	19	14
25	74	191	125	86	57	111	50	48	23	37	19	14
26	70	153	114	80	52	83	47	40	21	28	21	14
27	69	133	209	96	51	70	44	36	20	28	33	15
28	68	121	193	89	51	71	42	41	19	25	20	21
29	132	184	136	79	208	69	43	60	19	40	17	16
30	179	158	125	76	---	65	40	84	58	26	16	15
31	144	---	119	75	---	64	---	43	---	25	16	---
Total	3,649	4,188	4,875	2,881	2,018	2,949	1,535	1,527	2,178	1,382	764	495
Mean	118	140	157	92.9	69.6	95.1	51.2	49.3	72.6	44.6	24.6	16.5
Max	629	948	606	229	208	342	116	102	533	388	60	44
Min	49	57	84	74	51	61	40	33	19	15	16	11
Cfsm	1.87	2.22	2.50	1.48	1.11	1.51	0.81	0.78	1.16	0.71	0.39	0.26
In.	2.16	2.48	2.89	1.71	1.20	1.75	0.91	0.90	1.29	0.82	0.45	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1958, 1966 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.9	53.1	82.0	86.1	95.4	118	106	83.7	67.7	40.7	32.0	43.6
Max	245	174	295	289	229	369	286	302	498	178	148	311
(WY)	(1980)	(2004)	(1997)	(1996)	(1979)	(1993)	(1993)	(1988)	(1972)	(1987)	(1955)	(2003)
Min	8.21	12.5	14.6	15.5	17.4	36.9	26.5	25.8	13.9	4.65	4.32	6.29
(WY)	(1987)	(1982)	(1999)	(1981)	(2002)	(2002)	(2002)	(1969)	(1999)	(1999)	(2002)	(2007)

01643500 BENNETT CREEK AT PARK MILLS, MD—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1948 - 1958, 1966 - 2012	
Annual total	37,705.8		28,441			
Annual mean	103		77.7		70.6	
Highest annual mean					141	2003
Lowest annual mean					19.1	2002
Highest daily mean	2,750	Sep 8	948	Nov 23	5,500	Jun 22, 1972
Lowest daily mean	8.2	Aug 1	11	Sep 15[a]	0.40	Sep 8, 1966
Annual seven-day minimum	9.4	Jul 28	12	Sep 11	0.88	Aug 17, 2002
Maximum peak flow			2,400	Nov 23	[b]32,200	Jun 21, 1972
Maximum peak stage			6.27	Nov 23	[c]22.10	Jun 21, 1972
Instantaneous low flow			11	Sep 14[d]	0.30	Sep 8, 1966
Annual runoff (cfsm)	1.64		1.24		1.12	
Annual runoff (inches)	22.34		16.85		15.27	
10 percent exceeds	190		134		134	
50 percent exceeds	68		61		43	
90 percent exceeds	17		19		14	

[a] Sept. 15-17.
[b] From rating curve extended above 2,700 ft³/s on basis of contracted-opening measurement at gage heights of 11.15, 14.33, and 22.10 feet.
[c] From floodmarks.
[d] Sept. 14-18.