

POTOMAC RIVER BASIN

01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA

LOCATION.--Lat 39°15'18", long 77°34'36", Loudoun County, Hydrologic Unit 02070008, on left bank at downstream side of bridge on State Highway 663 at Taylorstown and 3.2 mi downstream from Milltown Creek.

DRAINAGE AREA.--89.6 mi².

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.37 ft above sea level. Prior to Nov. 3, 1983, at site 60 ft upstream at datum 1.78 ft higher.

REMARKS.--Records good except those for period with backwater from leaves, Oct. 17 to Nov. 10, periods with ice effect, Dec. 26-28, Dec. 31 to Jan. 1, 5, 6, and period of doubtful gage-height record, Jan. 25, which are fair. Maximum discharge, 23,800 ft³/s, from rating curve extended above 7,400 ft³/s on basis of contracted-opening measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 30	0500	*3,180	*9.40	No other peak greater than base discharge.			

Minimum discharge, 0.08 ft³/s, Aug 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	e5.2	4.2	e3.0	16	32	88	34	12	3.2	1.9	.50
2	1.2	e5.2	3.6	2.4	26	26	129	32	12	3.0	1.1	.36
3	.87	e6.0	3.5	59	35	22	81	31	11	3.4	.73	.26
4	.95	e8.7	3.2	80	25	106	70	33	9.4	7.0	.62	.59
5	1.1	e4.0	3.1	e35	20	91	122	31	8.1	4.6	.44	16
6	1.1	e4.1	3.3	e15	17	66	108	30	7.3	3.0	.33	25
7	1.6	e4.2	3.5	8.6	16	72	82	31	7.0	1.9	.22	40
8	13	e4.4	3.8	5.9	17	53	71	56	7.4	1.4	.15	66
9	29	e4.6	5.7	7.3	16	44	71	59	6.4	1.0	.13	19
10	9.3	e6.0	11	10	15	56	108	35	5.1	.85	.11	13
11	4.6	16	7.9	7.7	13	47	145	29	4.8	.71	.10	8.1
12	3.0	19	5.1	6.1	12	48	195	27	4.9	.60	.10	4.0
13	2.6	9.8	4.7	29	13	61	120	26	5.0	.56	.10	2.4
14	2.3	5.4	4.2	77	13	82	98	25	6.6	.48	.09	1.7
15	2.2	3.8	4.3	66	11	99	86	23	8.3	.43	.10	1.5
16	2.4	3.4	4.1	78	11	169	89	22	8.5	.43	.10	127
17	e2.3	3.3	3.7	99	12	230	79	21	7.5	.43	.10	162
18	e2.4	3.2	3.5	190	50	228	68	21	8.4	.42	.10	46
19	e2.3	2.5	3.4	145	69	137	62	21	7.7	.36	.09	24
20	e2.3	3.1	3.1	62	39	101	60	20	6.9	.42	.09	16
21	e2.4	3.0	2.9	50	29	115	57	18	7.6	.47	.20	18
22	e3.0	3.0	2.7	44	23	216	64	18	8.4	.37	.16	40
23	e2.9	3.0	2.7	44	19	124	58	30	7.5	.24	.11	21
24	e2.7	3.0	2.8	173	18	105	78	32	5.8	.22	.11	13
25	e2.5	2.7	2.7	e100	17	95	58	25	4.7	.21	.25	9.9
26	e2.5	3.5	e2.6	59	19	79	50	20	3.9	.22	1.9	7.5
27	e3.0	4.0	e2.5	41	18	70	45	17	3.3	.19	9.5	7.2
28	e3.6	4.4	e2.5	33	22	64	41	16	2.9	.29	13	62
29	e5.0	4.4	2.9	26	---	59	39	14	2.7	.68	4.2	86
30	e6.2	4.0	3.8	21	---	52	36	14	3.6	1.2	1.7	1460
31	e5.7	---	e3.4	18	---	47	---	13	---	3.6	.88	---
TOTAL	125.12	156.9	120.4	1595.0	611	2796	2458	824	204.7	41.88	38.71	2298.01
MEAN	4.04	5.23	3.88	51.5	21.8	90.2	81.9	26.6	6.82	1.35	1.25	76.6
MAX	29	19	11	190	69	230	195	59	12	7.0	13	1460
MIN	.87	2.5	2.5	2.4	11	22	36	13	2.7	.19	.09	.26
CFSM	.05	.06	.04	.57	.24	1.01	.91	.30	.08	.02	.01	.85
IN.	.05	.07	.05	.66	.25	1.16	1.02	.34	.08	.02	.02	.95

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	66.3	61.7	115	139	149	192	162	123	91.8	47.8	31.9	47.8
MAX	414	148	358	488	382	580	476	445	706	284	186	281
(WY)	1977	1997	1997	1998	1998	1993	1983	1989	1972	1987	1984	1979
MIN	2.07	5.16	3.88	10.2	21.8	43.7	48.6	26.6	6.82	1.35	1.25	1.05
(WY)	1987	1992	1999	1981	1999	1981	1985	1999	1999	1999	1999	1986

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1971 - 1999

ANNUAL TOTAL	54933.12	11269.72	
ANNUAL MEAN	151	30.9	102
HIGHEST ANNUAL MEAN			196 1972
LOWEST ANNUAL MEAN			30.9 1999
HIGHEST DAILY MEAN	4160 Mar 21	1460 Sep 30	e9530 Jun 22 1972
LOWEST DAILY MEAN	.87 Oct 3	.09 aAug 14	.09 aAug 14 1999
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 30	.10 Aug 14	.10 Aug 14 1999
INSTANTANEOUS PEAK FLOW		3180 Sep 30	23800 Jun 22 1972
INSTANTANEOUS PEAK STAGE		9.40 Sep 30	b23.83 Jun 22 1972
INSTANTANEOUS LOW FLOW		.08 Aug 14	.08 Aug 14 1999
ANNUAL RUNOFF (CFSM)	1.68	.34	1.13
ANNUAL RUNOFF (INCHES)	22.81	4.68	15.40
10 PERCENT EXCEEDS	322	80	210
50 PERCENT EXCEEDS	42	8.1	49
90 PERCENT EXCEEDS	2.5	.46	7.1

- a Also Aug 19, 20, 1999.
- b From floodmarks, site and datum then in use.
- e Estimated.

