

POTOMAC RIVER BASIN

01621050 MUDDY CREEK AT MOUNT CLINTON, VA

LOCATION.--Lat 38°29'12", long 78°57'40", Rockingham County, Hydrologic Unit 02070005, on right downstream side of bridge on State Highway 726, at Mount Clinton.

DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--April 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,320 ft above sea level, from topographic map.

REMARKS.--Records good except for period of doubtful gage-height record, Dec. 16 to Jan. 1, which is fair, and for period Jun. 10 to Sep. 3, which is 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 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 6	1345	*157	*4.07	No other peak greater than base discharge.			
Minimum discharge, 0.29 ft ³ /s, Jun 24-29, Jul 18, gage height, 2.41 ft.							

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	1.9	1.7	1.6	e1.0	4.0	3.1	4.9	1.6	1.4	1.1	1.4	1.1
2	1.9	1.6	1.4	1.2	4.7	2.9	4.5	1.6	1.4	1.3	1.3	1.1
3	1.8	1.8	1.6	5.9	3.9	2.9	4.1	1.6	1.4	1.2	1.2	1.0
4	2.1	1.7	1.5	2.1	3.6	3.2	4.0	1.6	1.0	1.2	1.1	1.1
5	1.9	1.5	1.4	1.3	3.3	2.9	3.6	1.6	1.1	1.0	1.1	1.1
6	1.9	1.5	1.4	1.2	3.3	2.9	3.4	1.5	1.3	.92	1.1	3.7
7	2.0	1.6	1.4	1.2	3.3	2.7	3.1	1.7	.95	1.2	1.0	1.1
8	3.3	1.6	2.1	1.2	3.2	2.4	2.9	14	.91	1.2	1.0	6.1
9	2.3	1.7	2.6	2.7	2.9	2.9	2.8	3.3	1.2	1.2	1.3	4.7
10	2.0	1.6	1.5	2.3	2.8	3.0	2.8	2.2	.67	1.1	1.1	4.2
11	1.9	1.7	1.3	1.3	2.7	3.0	2.9	2.1	1.2	.99	1.1	3.8
12	1.8	1.7	1.3	1.3	3.2	3.2	2.6	2.0	.94	.97	1.1	3.6
13	1.8	1.9	1.9	1.7	3.6	3.2	2.3	1.9	1.1	1.3	1.1	3.4
14	1.8	1.7	1.7	7.9	3.2	4.4	2.2	3.2	.96	1.2	2.0	3.3
15	1.8	1.7	1.3	26	3.2	5.8	2.4	2.8	.85	1.2	1.5	3.2
16	1.8	1.6	e1.2	8.0	3.2	7.5	2.4	2.1	.71	.98	1.3	3.7
17	1.7	1.6	e1.2	6.4	3.1	21	2.2	2.0	1.0	.57	1.2	3.1
18	1.7	1.8	e1.1	6.2	5.6	28	2.2	2.0	1.1	.88	1.0	2.7
19	1.7	1.7	e1.0	5.5	4.5	14	2.1	2.0	1.0	1.2	1.2	2.6
20	1.8	1.7	e1.0	4.6	4.0	8.9	2.2	1.8	1.2	1.3	1.9	2.6
21	1.8	1.6	e1.1	4.4	3.8	12	2.1	1.8	1.2	2.7	1.4	4.0
22	1.9	1.5	e1.0	4.3	3.6	13	2.1	1.8	1.0	2.2	1.2	3.4
23	1.8	1.7	e.95	6.0	3.3	9.0	2.1	2.0	.74	.90	1.1	2.9
24	1.8	1.4	e1.1	23	3.2	8.2	2.4	2.0	.70	.98	1.4	2.6
25	1.8	1.4	e1.0	9.4	3.2	7.2	1.9	1.8	.88	1.1	1.7	2.5
26	1.7	1.6	e.95	7.4	3.2	6.5	1.9	1.7	.59	1.2	1.7	2.4
27	1.7	1.7	e1.0	6.4	3.0	6.0	1.8	1.6	1.0	1.0	1.6	2.4
28	1.7	1.8	e1.1	5.9	3.3	5.7	1.8	1.6	.77	.99	1.6	5.8
29	1.7	1.7	e1.1	5.1	---	5.3	1.7	1.5	1.0	1.5	1.4	6.2
30	1.7	1.7	e1.0	4.6	---	4.9	1.7	1.5	.95	1.3	1.2	3.1
31	1.8	---	e.95	4.0	---	4.6	---	1.4	---	1.4	1.1	---
TOTAL	58.3	49.5	40.75	196.5	97.9	210.3	79.1	71.3	30.22	37.28	40.4	173.5
MEAN	1.88	1.65	1.31	6.34	3.50	6.78	2.64	2.30	1.01	1.20	1.30	5.78
MAX	3.3	1.9	2.6	26	5.6	28	4.9	14	1.4	2.7	2.0	37
MIN	1.7	1.4	.95	1.0	2.7	2.4	1.7	1.4	.59	.57	1.0	1.0
CFSM	.13	.12	.09	.45	.25	.48	.19	.16	.07	.08	.09	.41
IN.	.15	.13	.11	.51	.26	.55	.21	.19	.08	.10	.11	.45

01621050 MUDDY CREEK AT MOUNT CLINTON, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.95	7.18	10.5	23.7	23.0	24.3	12.0	11.1	9.49	6.89	9.15	17.9
MAX	22.1	19.3	37.5	66.9	63.5	44.0	19.9	22.7	29.9	16.1	33.8	105
(WY)	1996	1997	1997	1996	1998	1998	1998	1998	1996	1995	1996	1996
MIN	1.88	1.65	1.31	6.34	3.50	6.64	2.64	2.30	1.01	1.20	1.30	1.85
(WY)	1999	1999	1999	1999	1999	1995	1999	1999	1999	1999	1999	1993

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1993 - 1999

ANNUAL TOTAL	6129.45		1085.05		14.0			
ANNUAL MEAN	16.8		2.97		30.0		1996	
HIGHEST ANNUAL MEAN					2.97		1999	
LOWEST ANNUAL MEAN					1760		Sep 6 1996	
HIGHEST DAILY MEAN	272	Feb 17	37	Sep 6	.57		Jul 17 1999	
LOWEST DAILY MEAN	.95	Dec 23	.81	Jun 22	.81		Jun 22 1999	
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 20			3850		Sep 6 1996	
INSTANTANEOUS PEAK FLOW			157		4.07		Sep 6 1996	
INSTANTANEOUS PEAK STAGE			4.07		a.29		bJun 24 1999	
INSTANTANEOUS LOW FLOW			a.29		bJun 24		1999	
ANNUAL RUNOFF (CFSM)	1.18		.21		.98			
ANNUAL RUNOFF (INCHES)	16.06		2.84		13.37			
10 PERCENT EXCEEDS	40		5.6		26			
50 PERCENT EXCEEDS	6.8		1.8		6.2			
90 PERCENT EXCEEDS	1.6		1.0		1.7			

- a Possibly a result of nearby pumpage.
- b Also Jun 25-29, and Jul 18, 1999.
- e Estimated.

