

POTOMAC RIVER BASIN

01660500 BEAVERDAM RUN NEAR GARRISONVILLE, VA

LOCATION.--Lat. 38°30'25", long 77°25'46", Stafford County, Hydrologic unit 02070011, on left bank 3.4 miles upstream from mouth and 2.2 miles north of Garrisonville.

DRAINAGE AREA.--12.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to June 1957, and March 1997 to current year.

GAGE.--Water stage recorder. Datum of gage is 150.43 ft above sea level. May 1951 to June 1957, at site 500 ft. upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Lunga Reservoir 2.5 mi upstream, capacity 420 acre-ft. Statistics of monthly mean data and summary statistics for water years 1951*, 1952 - 1956, 1957* (unregulated flow) are available in previous data books, water years 1991 - 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58 ft³/s, Sep 30, gage height, 1.33 ft; minimum, 0.16 ft³/s, May 5.

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	5.9	6.6	3.8	3.9	3.3	5.0	1.8	1.1	2.8	1.9	1.4	2.4
2	5.7	6.6	3.7	3.7	4.8	3.7	2.1	1.4	2.7	2.0	1.4	2.4
3	6.0	7.4	3.7	9.3	4.0	5.1	1.8	.80	2.7	1.9	1.2	2.3
4	6.0	6.5	3.9	4.5	3.5	12	2.7	1.6	3.8	1.8	1.4	2.9
5	6.1	5.9	3.8	3.4	3.3	5.1	3.9	.72	6.8	1.7	1.2	3.6
6	6.3	5.9	3.9	3.3	3.6	4.8	2.1	1.1	2.0	1.5	1.2	3.4
7	6.3	4.8	3.8	3.0	3.6	4.5	2.0	1.8	1.9	1.7	1.4	2.8
8	7.7	4.8	4.9	2.4	3.6	4.0	1.9	1.2	1.6	1.5	1.4	2.5
9	6.4	4.7	5.7	2.9	3.4	3.7	2.1	1.0	1.6	1.5	1.4	2.5
10	6.2	4.7	3.9	2.6	3.4	1.5	4.0	.91	1.5	1.6	2.4	2.6
11	6.4	5.0	3.8	2.2	3.3	1.1	2.5	.90	1.5	1.5	7.8	2.7
12	6.5	4.7	4.0	2.3	3.4	1.1	2.1	.85	1.3	2.2	5.9	2.6
13	6.2	4.9	6.5	2.6	3.8	1.4	2.0	.84	2.1	2.5	1.6	2.5
14	5.9	5.3	4.3	2.8	3.6	4.8	1.8	.78	1.8	2.1	1.8	2.1
15	6.3	4.9	4.1	4.8	3.5	17	1.7	1.1	2.4	2.2	2.4	5.5
16	6.5	5.2	3.9	4.0	3.5	5.2	1.8	1.4	6.8	1.9	1.9	19
17	6.7	4.8	3.9	3.4	3.4	2.8	1.8	4.0	6.1	2.0	1.8	3.7
18	6.5	4.8	4.0	6.2	6.4	2.1	1.8	9.6	2.3	1.9	1.6	2.4
19	6.1	4.7	4.1	4.5	4.4	1.7	1.7	8.1	2.5	1.6	1.7	2.3
20	6.0	4.7	3.9	3.3	4.1	1.7	2.0	2.9	2.9	1.4	3.1	2.2
21	6.3	4.4	4.2	3.3	3.7	4.1	2.0	3.0	3.0	1.8	2.0	2.7
22	6.2	4.6	4.1	2.9	3.5	8.4	1.5	3.4	2.7	2.2	2.2	3.3
23	6.4	4.8	4.0	3.1	3.5	3.4	1.5	5.2	2.3	2.0	2.0	2.3
24	6.4	4.4	4.2	17	3.4	2.5	1.4	3.7	2.2	1.8	1.9	2.2
25	6.4	4.8	4.1	6.7	3.6	2.1	1.4	3.3	2.3	2.3	3.3	2.2
26	6.2	5.8	4.1	4.3	3.4	1.7	1.3	3.2	2.4	1.9	3.2	2.3
27	6.1	4.7	4.1	3.6	3.5	1.7	1.1	3.2	2.2	1.8	3.4	2.4
28	6.2	4.9	4.1	3.6	5.3	1.7	1.7	3.1	5.7	2.0	2.9	3.4
29	6.1	4.8	4.1	3.6	---	1.5	1.4	3.3	3.0	2.3	2.8	4.0
30	6.4	4.7	3.9	3.5	---	1.3	.75	3.1	2.0	2.0	2.4	16
31	6.5	---	4.2	3.3	---	1.2	---	3.1	---	1.7	2.5	---
TOTAL	194.9	154.8	128.7	130.0	105.8	117.9	57.65	79.70	84.9	58.2	72.6	113.2
MEAN	6.29	5.16	4.15	4.19	3.78	3.80	1.92	2.57	2.83	1.88	2.34	3.77
MAX	7.7	7.4	6.5	17	6.4	17	4.0	9.6	6.8	2.5	7.8	19
MIN	5.7	4.4	3.7	2.2	3.3	1.1	.75	.72	1.3	1.4	1.2	2.1

01660500 BEAVERDAM RUN NEAR GARRISONVILLE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997* - 1999, BY WATER YEAR (WY) [REGULATED, UNADJUSTED]

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.35	7.79	5.85	13.8	37.3	25.1	14.6	12.7	8.29	5.23	3.88	4.08
MAX	6.29	10.4	7.54	23.4	70.8	46.4	25.0	25.0	14.7	8.51	7.32	6.40
(WY)	1999	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	4.42	5.16	4.15	4.19	3.78	3.80	1.92	2.57	2.83	1.88	1.97	2.05
(WY)	1998	1999	1999	1999	1999	1999	1999	1999	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1997* - 1999	
ANNUAL TOTAL	7273.1		1298.35			
ANNUAL MEAN	19.9		3.56		12.0	
HIGHEST ANNUAL MEAN					20.5	
LOWEST ANNUAL MEAN					3.56	
HIGHEST DAILY MEAN	250		19		250	
LOWEST DAILY MEAN	3.7		.72		.72	
ANNUAL SEVEN-DAY MINIMUM	3.8		.91		.91	
INSTANTANEOUS PEAK FLOW			58		276	
INSTANTANEOUS PEAK STAGE			1.33		2.74	
INSTANTANEOUS LOW FLOW			.16		.16	
ANNUAL RUNOFF (CFSM)	1.57		.28		.95	
ANNUAL RUNOFF (INCHES)	21.30		3.80		12.86	
10 PERCENT EXCEEDS	45		6.2		26	
50 PERCENT EXCEEDS	8.2		3.3		6.4	
90 PERCENT EXCEEDS	4.7		1.5		1.8	

* Partial water year.
a Also Dec 3, 1998.

