

POTOMAC RIVER BASIN

01652500 FOURMILE RUN AT ALEXANDRIA, VA

LOCATION.---Lat 38°50'36", long 77°04'45", NAD83, Arlington County, Hydrologic Unit 02070010, on left bank at upstream side of bridge on Shirlington Road, at Arlington County-Alexandria City line, 0.1 mi upstream from I-395, and 2.5 mi upstream from mouth.

DRAINAGE AREA.---13.8 mi².

PERIOD OF RECORD.---May 1951 to current year.

GAGE.---Water-stage recorder. Datum of gage is 28.57 ft above sea level. May 4, 1951 to Sept. 30, 1969, water stage recorder, Oct. 1, 1969 to Sept. 27, 1973, nonrecording gage, at site 0.4 mi downstream at datum 6.02 lower (annual maximum only). Sept. 28, 1973 to Sept. 26, 1975, water-stage recorder. Sept. 27, 1975 to Sept. 30, 1977, nonrecording gage, at present site and datum (annual maximum only). July 1979 to September 1982, water stage recorder. October 1982 to September 1998, nonrecording gage (annual maximum only). October 1998 to present, water stage recorder.

REMARKS.---Records fair except those for period with ice effect, Dec. 22 to Jan. 12, and periods of partial, doubtful, or no gage-height record, May 7, 8, 15-18, 30, Aug. 14-16 and Aug. 26 to Sept. 28, which are poor. Several measurements of water temperature were made during the year. Water-quality records for some periods have been collected at this location.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 14,600 ft³/s, Jul. 22, 1969, gage height, 11.6 ft, site and datum then in use, from rating curve extended above 670 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 17.8 ft, from floodmarks, Jun. 21, 1972; minimum discharge, 0.6 ft³/s Sept. 8, 1954.

PEAK DISCHARGES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 17	0745	3,490	8.90	Aug 10	1725	2,470	7.87
May 22	1950	*3,590	*9.01	Aug 11	1740	2,430	7.83
Jun 16	0940	1,870	7.26	Aug 23	2115	1,900	7.29

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.9	4.2	e3.1	5.5	4.4	9.9	4.6	60	14	4.4	5.3
2	3.4	3.1	3.7	e3.3	5.2	4.7	7.8	4.7	20	8.8	4.1	5.3
3	3.1	3.2	4.3	e3.4	4.9	4.4	6.9	5.3	8.6	4.2	4.4	5.5
4	3.3	3.7	3.6	e3.5	4.4	35	6.0	7.3	7.5	68	5.4	5.3
5	3.8	4.6	4.0	e3.7	98	28	5.6	5.0	38	55	4.0	5.2
6	3.4	3.8	3.8	e3.9	9.0	6.4	19	4.1	14	13	4.0	5.1
7	3.8	4.0	3.9	e4.1	5.7	5.3	5.8	e4.4	203	6.7	4.4	6.0
8	3.4	4.3	3.8	e8.0	4.9	5.1	4.9	e4.4	10	122	4.1	5.8
9	3.9	6.3	3.8	e5.0	5.0	4.9	7.9	5.4	7.1	17	4.0	6.4
10	4.1	51	4.0	e4.0	4.7	4.8	28	4.7	5.9	57	158	43
11	3.9	3.7	4.3	e3.7	4.3	4.7	101	4.9	6.0	24	283	8.6
12	3.8	4.6	4.7	e3.5	4.5	18	6.3	6.5	6.5	6.1	58	4.9
13	3.2	5.0	4.3	3.4	7.2	49	9.7	5.5	18	5.4	61	4.8
14	3.2	20	121	3.4	10	6.3	4.2	5.7	6.9	5.0	e13	20
15	3.3	3.8	5.6	4.1	16	50	15	4.4	17	4.8	e5.8	e5.6
16	3.5	3.8	31	3.6	61	9.6	20	e3.8	193	5.0	e5.0	e5.0
17	3.1	4.2	295	3.4	55	5.4	15	e3.8	19	4.9	6.9	e4.7
18	3.2	4.7	11	3.5	6.9	4.8	13	e3.7	9.6	8.8	11	e4.4
19	3.6	4.6	11	168	5.5	4.8	3.9	133	6.6	5.8	17	e4.3
20	3.7	5.1	8.4	77	5.3	7.4	3.8	11	23	5.1	34	e14
21	3.7	5.7	4.6	31	4.8	223	3.8	48	16	5.6	7.2	e76
22	3.9	6.9	e3.9	9.0	6.1	19	3.8	266	89	5.3	6.8	e13
23	4.0	5.3	e3.6	6.1	22	8.3	4.2	25	131	6.6	139	e7.0
24	4.4	5.8	e3.2	5.6	6.2	6.9	4.0	8.0	9.7	6.2	34	e130
25	4.7	42	e2.9	5.1	22	5.9	3.4	51	6.5	6.5	8.1	e90
26	2.7	87	e2.8	4.8	6.0	5.7	3.9	185	5.5	88	6.3	e13
27	3.1	5.0	e2.9	4.7	4.7	5.3	4.0	57	5.7	9.5	e5.8	e5.6
28	3.5	4.5	e2.9	4.7	4.6	5.2	3.8	14	5.4	3.8	e5.6	e3.5
29	4.1	12	e2.9	4.5	---	184	3.8	6.9	4.7	124	e5.4	3.0
30	4.7	8.8	e2.8	91	---	201	4.3	5.2	5.9	21	e6.2	3.7
31	5.0	---	e2.8	8.4	---	18	---	5.2	---	5.9	5.7	---
TOTAL	113.9	331.4	570.7	490.5	399.4	945.3	332.7	903.5	959.1	723.0	921.6	514.0
MEAN	3.67	11.0	18.4	15.8	14.3	30.5	11.1	29.1	32.0	23.3	29.7	17.1
MAX	5.0	87	295	168	98	223	101	266	203	124	283	130
MIN	2.7	3.1	2.8	3.1	4.3	4.4	3.4	3.7	4.7	3.8	4.0	3.0
CFSM	.27	.80	1.33	1.15	1.03	2.21	.80	2.11	2.32	1.69	2.15	1.24
IN.	.31	.89	1.54	1.32	1.08	2.55	.90	2.44	2.59	1.95	2.48	1.39

01652500 FOURMILE RUN AT ALEXANDRIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10.6	12.1	14.6	15.1	17.8	23.4	17.4	16.5	16.1	15.8	19.5	18.1
MAX	39.0	36.4	36.9	35.6	37.4	44.3	42.0	52.3	41.2	38.4	64.3	85.0
(WY)	1980	1953	1968	1964	1961	1953	1952	1953	1982	1969	1967	1999
MIN	2.54	2.57	3.07	3.84	6.23	6.05	6.79	6.90	5.22	1.78	2.01	1.94
(WY)	1964	1966	1966	1981	1959	1981	1967	1961	1954	1957	1962	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1952 - 2001
ANNUAL TOTAL	8903.7	7205.1	
ANNUAL MEAN	24.3	19.7	16.3
HIGHEST ANNUAL MEAN			25.8
LOWEST ANNUAL MEAN			7.72
HIGHEST DAILY MEAN	428	295	1060
LOWEST DAILY MEAN	2.7	2.7	.70
ANNUAL SEVEN-DAY MINIMUM	2.9	2.9	.94
MAXIMUM PEAK FLOW		3590	14600
MAXIMUM PEAK STAGE		9.01	b17.80
INSTANTANEOUS LOW FLOW		2.3	.60
ANNUAL RUNOFF (CFSM)	1.76	1.43	1.18
ANNUAL RUNOFF (INCHES)	24.00	19.42	16.01
10 PERCENT EXCEEDS	74	53	31
50 PERCENT EXCEEDS	6.0	5.4	6.0
90 PERCENT EXCEEDS	3.5	3.5	2.8

- a Many days in August 1957.
- b From floodmarks.
- c Also Sept. 30. 2001.
- e Estimated.

