

POTOMAC RIVER BASIN

01652500 FOURMILE RUN AT ALEXANDRIA, VA

LOCATION.--Lat 38°50'35", long 77°05'09", 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 good except for period with ice effect, Jan. 21 to Feb. 8, which is fair. 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.

EXTREMES 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)
Jan 4	1655	3,240	8.66	Jul 14	2345	2,700	8.11
Jun 2	1945	2,330	7.73	Jul 28	2045	3,710	9.15
Jun 22	0015	*4,300	*9.79	Aug 1	1820	2,480	7.88
Jul 3	2110	1,960	7.35				

Minimum discharge, 1.6 ft³/s, Oct. 3, gage height, 4.20 ft.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	4.3	4.5	4.1	e13	9.8	7.3	5.5	4.3	4.9	147	5.9
2	5.8	70	4.7	4.4	e10	8.2	8.5	5.9	122	5.3	82	65
3	2.3	4.2	4.3	4.4	e7.0	7.3	12	5.2	15	98	54	45
4	51	4.3	4.1	246	e9.0	7.8	40	5.1	4.6	28	37	40
5	8.9	5.1	4.3	18	e14	7.5	8.6	5.4	4.8	4.6	15	11
6	3.5	4.1	74	6.2	e12	7.7	7.3	5.3	74	3.9	158	5.5
7	3.1	4.3	4.2	5.3	e18	8.4	7.1	5.0	5.4	3.7	107	5.6
8	3.0	4.2	4.2	4.8	e16	8.7	136	5.3	4.5	3.4	35	4.3
9	3.0	5.4	4.2	4.5	21	7.9	50	5.2	4.2	3.4	8.6	3.8
10	120	4.3	97	132	28	5.7	9.8	104	4.1	17	6.0	3.7
11	12	4.3	5.0	14	38	31	7.6	9.8	3.9	11	5.1	3.8
12	7.7	4.3	6.9	9.6	16	39	7.9	5.4	4.2	3.6	4.6	3.8
13	7.5	4.5	72	8.0	9.7	5.4	7.6	66	4.3	3.2	24	3.8
14	9.6	4.3	255	7.3	42	5.4	8.1	12	5.8	117	5.0	3.6
15	5.9	4.2	11	7.0	11	4.6	10	4.8	94	121	4.4	5.0
16	7.4	4.1	3.9	7.1	9.2	21	16	4.4	21	71	4.4	3.6
17	6.4	7.8	6.8	6.1	8.1	24	392	4.2	104	5.6	4.3	3.5
18	7.1	4.2	6.8	6.0	153	5.5	111	4.2	28	4.1	8.1	3.8
19	4.0	4.3	3.9	6.2	107	5.8	17	39	7.0	38	4.6	109
20	70	3.9	14	16	14	6.3	10	18	5.9	35	4.3	6.5
21	4.2	4.0	4.3	e6.0	9.2	428	13	7.6	22	3.7	4.3	3.4
22	10	4.2	3.9	e5.4	9.0	106	20	124	267	3.2	4.2	3.2
23	5.2	3.9	3.9	e5.2	7.6	21	6.6	6.4	6.7	3.1	4.3	3.4
24	4.2	4.4	4.4	e5.6	7.7	13	6.0	24	4.7	28	4.4	3.4
25	4.3	3.9	4.4	e6.0	8.6	116	132	13	5.5	5.6	4.4	305
26	4.3	244	4.1	e8.0	7.5	17	10	4.5	47	75	4.0	122
27	4.2	80	4.1	e7.0	112	114	7.2	13	9.5	5.3	29	9.7
28	4.3	5.2	4.2	e6.0	115	53	6.8	57	16	221	16	5.4
29	4.3	4.4	3.9	e5.3	13	12	6.2	14	5.7	37	32	3.5
30	4.3	6.4	5.2	e7.5	---	7.9	5.3	4.8	4.6	78	5.7	3.4
31	4.3	---	5.8	e15	---	8.2	---	4.5	---	46	23	---
TOTAL	408.8	516.5	639.0	594.0	845.6	1123.1	1086.9	592.5	909.7	1087.6	849.7	798.6
MEAN	13.2	17.2	20.6	19.2	29.2	36.2	36.2	19.1	30.3	35.1	27.4	26.6
MAX	120	244	255	246	153	428	392	124	267	221	158	305
MIN	2.3	3.9	3.9	4.1	7.0	4.6	5.3	4.2	3.9	3.1	4.0	3.2
CFSM	.96	1.25	1.49	1.39	2.11	2.63	2.63	1.38	2.20	2.54	1.99	1.93
IN.	1.10	1.39	1.72	1.60	2.28	3.03	2.93	1.60	2.45	2.93	2.29	2.15

01652500 FOURMILE RUN AT ALEXANDRIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10.9	12.2	14.4	15.1	18.0	23.1	17.6	16.0	15.4	15.5	19.1	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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1952 - 2000
ANNUAL TOTAL	9427.8	9452.0	
ANNUAL MEAN	25.8	25.8	16.1
HIGHEST ANNUAL MEAN			25.8
LOWEST ANNUAL MEAN			7.72
HIGHEST DAILY MEAN	929	Sep 16	1060
LOWEST DAILY MEAN	1.5	Aug 13	.70
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 1	.94
INSTANTANEOUS PEAK FLOW			4300
INSTANTANEOUS PEAK STAGE			9.79
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (CFSM)	1.87	1.87	1.17
ANNUAL RUNOFF (INCHES)	25.41	25.48	15.87
10 PERCENT EXCEEDS	63	79	30
50 PERCENT EXCEEDS	6.2	6.6	6.0
90 PERCENT EXCEEDS	3.5	3.9	2.7

a Also Aug. 17, 23, 24, 29, 30, 1957.
 b From floodmarks.
 e Estimated.

