

POTOMAC RIVER BASIN

01653000 CAMERON RUN AT ALEXANDRIA, VA

LOCATION.--Lat 38°48'20", long 77°06'07", NAD83, Fairfax County, Hydrologic Unit 02070010, on left downstream side of Norfolk Southern Railway bridge at Alexandria, 800 ft downstream from confluence of Holmes Run and Backlick Run, 0.5 mi east of the U.S. Army Quartermaster Depot, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--33.7 mi².

PERIOD OF RECORD.--June 1955 to March 1979, October 1979 to September 1980, October 1980 to September 1986 (annual maximum only), October 1986 to current year.

GAGE.--Water-stage recorder. Gage reinstalled Nov. 8, 1979. Datum of gage is 31.74 ft above sea level. Prior to Sept. 20, 1965, at present site at datum 7.78 ft higher. Sept. 20, 1965, to Jan. 19, 1976, at present site at datum 5.44 ft higher. Jan. 20, 1976, to Nov. 8, 1976, at site 1,200 ft downstream at datum 10.00 ft lower. Nov. 9, 1976, to Mar. 31, 1979, at site 0.5 mi downstream at datum 7.22 ft lower.

REMARKS.--Records good except those for period with ice effect, Dec. 23 to Jan. 12, and period of doubtful gage-height record, Apr. 26 to May 4, which are poor. Some regulation by Lake Barcroft, formerly Alexandria Reservoir, on Holmes Run 3.6 mi upstream, usable capacity 2,092 acre-ft. Maximum discharge, 19,900 ft³/s, from rating curve extended above 2,500 ft³/s on basis of culvert computations of peak flow for main channel and bypass channels. Several measurements of water temperature were made during the year. Water-quality records for some periods have been collected at this location.

**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	7.6	5.2	10	e8.2	21	10	38	e9.8	66	22	18	7.6
2	7.3	4.7	8.2	e7.6	16	10	29	e10	34	20	23	7.6
3	7.2	5.6	6.8	e8.0	15	12	24	e11	17	14	11	7.6
4	6.3	4.6	6.5	e8.2	14	39	23	e12	14	64	50	7.6
5	6.0	4.9	5.2	e8.6	240	59	21	11	76	85	19	8.0
6	6.4	6.6	4.6	e9.2	38	20	33	9.8	16	24	14	6.6
7	6.4	7.1	4.6	e10	21	14	26	9.5	221	11	13	6.2
8	5.2	6.1	4.6	e19	18	11	19	9.4	29	192	12	6.0
9	4.8	8.8	4.6	e13	20	10	23	9.4	20	28	11	5.9
10	4.9	74	4.6	e12	19	10	48	9.3	19	43	153	29
11	5.2	12	4.6	e11	14	21	162	8.7	19	37	341	11
12	4.5	8.3	4.9	e10	14	16	45	9.3	21	15	133	7.3
13	4.3	5.6	6.4	10	18	81	39	7.8	53	13	62	6.0
14	4.3	24	221	9.8	24	22	24	6.6	25	12	28	10
15	4.8	9.7	21	10	41	57	33	6.5	50	11	12	6.5
16	4.9	6.8	53	10	116	39	54	6.6	230	10	9.7	5.2
17	5.6	5.4	752	9.4	198	17	50	6.0	30	9.4	8.6	5.1
18	5.8	6.8	39	9.4	27	13	34	7.8	17	11	8.6	4.6
19	5.8	4.1	31	381	18	11	22	250	12	11	28	4.6
20	5.7	4.3	25	209	17	12	22	20	11	10	32	12
21	5.7	4.1	18	89	14	448	19	47	27	9.4	12	69
22	5.7	3.9	14	36	12	68	21	449	113	8.7	8.8	10
23	5.3	3.7	e11	26	31	29	20	99	287	9.1	128	7.7
24	5.5	3.4	e10	20	20	22	16	23	26	9.4	67	159
25	5.6	31	e9.2	18	35	20	15	113	18	9.2	13	123
26	6.0	181	e8.6	17	20	16	e14	325	13	48	9.2	13
27	6.7	17	e8.0	18	12	14	e13	103	12	26	8.4	8.8
28	6.8	9.9	e8.2	15	12	12	e12	40	11	13	8.0	7.5
29	6.1	19	e8.6	13	---	268	e12	22	9.4	173	7.6	6.8
30	6.1	16	e8.7	274	---	517	e11	18	16	63	8.4	6.5
31	5.5	---	e9.2	35	---	58	---	19	---	20	9.4	---
TOTAL	178.0	503.6	1331.1	1334.4	1065	1956	922	1688.5	1512.4	1031.2	1266.7	575.7
MEAN	5.74	16.8	42.9	43.0	38.0	63.1	30.7	54.5	50.4	33.3	40.9	19.2
MAX	7.6	181	752	381	240	517	162	449	287	192	341	159
MIN	4.3	3.4	4.6	7.6	12	10	11	6.0	9.4	8.7	7.6	4.6
CFSM	.17	.50	1.27	1.28	1.13	1.87	.91	1.62	1.50	.99	1.21	.57
IN.	.20	.56	1.47	1.47	1.18	2.16	1.02	1.86	1.67	1.14	1.40	.64

01653000 CAMERON RUN AT ALEXANDRIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	31.0	30.6	38.9	43.5	46.4	55.9	41.6	39.2	36.6	46.3	36.6	32.6
MAX	147	80.5	99.2	157	128	132	81.8	117	265	662	364	172
(WY)	1984	1964	1970	1978	1979	1993	1970	1989	1972	1981	1981	1975
MIN	4.52	4.40	3.47	10.0	15.6	19.9	10.6	8.59	7.93	2.51	3.85	5.31
(WY)	1964	1966	1966	1968	1966	1969	1969	1956	1956	1957	1957	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1956 - 2001		
ANNUAL TOTAL	16922.8			13364.6					
ANNUAL MEAN	46.2			36.6			37.2		
HIGHEST ANNUAL MEAN							64.4		
LOWEST ANNUAL MEAN							21.4		
HIGHEST DAILY MEAN	752 Dec 17			752 Dec 17			3680 Jun 22 1972		
LOWEST DAILY MEAN	2.2 Sep 18			3.4 Nov 24			1.1 aSep 22 1964		
ANNUAL SEVEN-DAY MINIMUM	2.9 Sep 12			4.3 Nov 18			1.3 Sep 21 1964		
MAXIMUM PEAK FLOW				5410 Dec 17			19900 Jun 22 1972		
MAXIMUM PEAK STAGE				8.34 Dec 17			18.14 Jun 22 1972		
INSTANTANEOUS LOW FLOW				3.0 bNov 24			1.1 cAug 15 1957		
ANNUAL RUNOFF (CFSM)	1.37			1.09			1.10		
ANNUAL RUNOFF (INCHES)	18.68			14.75			15.00		
10 PERCENT EXCEEDS	126			71			80		
50 PERCENT EXCEEDS	17			12			16		
90 PERCENT EXCEEDS	5.2			5.6			4.9		

a Also Sept. 23-25, 1964.

b Also Nov. 25, 2000.

c Also Sept. 22-25, 1964.

e Estimated.

