

01653000 CAMERON RUN AT ALEXANDRIA, VA

LOCATION.--Lat 38°48'23", long 77°06'36", 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 31.07 ft above sea level. Prior to Sep. 20, 1965, at present site at datum 7.78 ft higher. Sep. 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.--No estimated daily discharges. Records good. 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,820 ft³/s, Sep 16, gage height, 5.83 ft; minimum discharge, 2.6 ft³/s, Jun 10, gage height, 0.83 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	5.2	3.5	6.8	12	11	38	49	10	5.2	52	18	6.8
2	4.1	3.6	6.3	7.0	103	17	20	9.6	4.9	21	9.4	7.0
3	4.0	11	5.7	233	20	54	14	9.4	4.6	13	6.0	7.8
4	4.0	6.1	6.4	22	15	113	43	10	4.0	10	6.4	220
5	4.7	4.7	6.0	16	14	22	44	9.4	3.8	7.2	7.6	233
6	6.9	4.4	6.0	12	14	29	16	9.4	4.0	5.1	6.9	99
7	4.8	4.0	7.1	11	13	25	14	9.9	4.0	4.6	6.2	101
8	92	4.0	54	11	12	15	13	15	3.9	4.9	7.6	19
9	25	4.5	100	50	12	16	41	12	3.4	4.0	6.4	114
10	8.9	4.6	15	21	11	51	22	9.9	2.9	4.0	4.6	83
11	6.8	23	12	14	10	37	58	9.2	3.3	3.9	5.2	11
12	6.0	5.5	9.5	14	52	37	20	8.6	3.0	11	6.7	7.3
13	6.0	4.6	83	14	25	28	14	8.6	12	9.6	7.4	5.2
14	5.8	4.6	18	18	13	195	13	7.6	87	5.4	27	6.5
15	5.2	4.3	12	131	12	310	20	7.4	38	5.2	12	73
16	5.2	4.2	10	25	11	68	19	6.8	13	4.6	5.3	1070
17	5.2	4.6	9.4	16	16	35	13	6.8	9.4	4.2	5.3	67
18	5.2	4.6	8.9	151	157	27	12	7.3	9.2	6.1	6.4	17
19	5.2	4.6	7.7	27	25	19	12	7.4	6.6	5.2	5.7	13
20	5.2	7.3	6.9	16	17	17	12	5.8	59	3.5	73	12
21	4.8	5.9	6.8	103	14	182	23	5.2	26	3.5	27	364
22	4.3	5.2	6.8	45	12	105	33	66	14	21	26	115
23	4.0	5.2	6.6	30	12	30	70	71	11	6.0	10	21
24	4.0	5.2	10	403	11	23	25	84	9.2	4.0	97	14
25	4.0	4.7	9.1	49	11	19	15	15	7.8	15	201	12
26	4.9	57	8.6	21	11	16	13	11	6.8	42	164	10
27	4.1	14	6.8	17	10	15	12	8.6	6.0	11	72	18
28	4.9	10	8.0	16	128	15	11	6.7	11	7.7	25	23
29	4.6	8.7	8.2	14	---	15	11	5.9	28	5.6	13	29
30	4.0	6.9	11	12	---	13	11	5.2	22	12	9.8	387
31	3.9	---	8.9	11	---	12	---	5.2	---	11	7.5	---
TOTAL	262.9	240.5	481.5	1542.0	772	1598	693	463.9	423.0	323.3	885.4	3165.6
MEAN	8.48	8.02	15.5	49.7	27.6	51.5	23.1	15.0	14.1	10.4	28.6	106
MAX	92	57	100	403	157	310	70	84	87	52	201	1070
MIN	3.9	3.5	5.7	7.0	10	12	11	5.2	2.9	3.5	4.6	5.2
CFSM	.25	.24	.46	1.48	.82	1.53	.69	.44	.42	.31	.85	3.13
IN.	.29	.27	.53	1.70	.85	1.76	.76	.51	.47	.36	.98	3.49

01653000 CAMERON RUN AT ALEXANDRIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	31.9	31.2	39.0	43.9	46.7	55.6	41.2	38.8	35.6	45.8	35.9	32.5
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	1966	1968	1966	1969	1956	1956	1957	1957	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1956 - 1999
ANNUAL TOTAL	15071.0	10851.1	
ANNUAL MEAN	41.3	29.7	36.9
HIGHEST ANNUAL MEAN			64.4
LOWEST ANNUAL MEAN			21.4
HIGHEST DAILY MEAN	565	Jan 28	3680
LOWEST DAILY MEAN	3.5	aSep 6	1.1
ANNUAL SEVEN-DAY MINIMUM	4.1	Sep 10	1.3
INSTANTANEOUS PEAK FLOW			19900
INSTANTANEOUS PEAK STAGE			18.14
INSTANTANEOUS LOW FLOW			1.1
ANNUAL RUNOFF (CFSM)	1.23	.88	1.10
ANNUAL RUNOFF (INCHES)	16.64	11.98	14.90
10 PERCENT EXCEEDS	108	69	80
50 PERCENT EXCEEDS	14	11	16
90 PERCENT EXCEEDS	4.6	4.6	4.8

a Also Nov 1, 1998.
 b Also Sep 23-25, 1964.
 c Also Sep 22-25, 1964.

