

## POTOMAC RIVER BASIN

01656120 CEDAR RUN AT ROUTE 646 NEAR ADEN, VA

LOCATION.--Lat. 38°38'29" long 77°30'46"i, Prince William County, Hydrologic unit 02070010, on left bank at upstream side of bridge on State Highway 646, 2.0 miles southeast of Aden.

DRAINAGE AREA.--Not determined.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to September 1999 (discontinued).

REVISED RECORDS.--WDR-98-1: 1997(M).

GAGE.--Water stage recorder. Elevation of gage is 160 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,220 ft<sup>3</sup>/s, Sep 30, gage height, 12.38 ft; minimum discharge, 0.34 ft<sup>3</sup>/s, Aug 8, gage height, 1.15 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	1.2	2.9	4.0	15	53	289	63	20	5.1	4.1	3.3	2.1
2	1.3	8.6	3.4	14	164	166	75	19	3.7	56	2.4	1.8
3	1.4	3.8	4.1	162	208	124	69	18	2.8	16	1.9	1.5
4	1.3	2.8	4.1	156	125	818	72	17	2.1	6.5	1.5	1.7
5	1.6	5.6	4.3	106	94	315	231	18	1.7	4.2	1.6	6.2
6	1.8	8.6	6.3	48	73	206	133	18	1.6	3.4	1.0	9.2
7	1.9	5.8	6.6	22	68	186	103	18	2.0	2.3	.64	21
8	3.1	3.4	7.4	19	66	126	82	54	2.7	1.6	.48	16
9	36	2.3	17	22	61	107	73	80	3.1	.95	1.5	7.7
10	15	2.1	27	55	54	118	112	46	2.4	.73	2.0	4.2
11	6.8	3.5	14	40	47	135	101	30	2.2	.58	1.5	2.5
12	4.4	4.3	8.7	23	46	221	117	22	1.9	.70	.77	3.5
13	3.2	5.8	11	26	93	206	92	19	1.8	1.7	1.4	1.8
14	2.7	7.7	16	36	80	258	71	14	2.8	2.0	.95	1.0
15	1.9	8.4	21	80	60	2320	61	12	4.0	1.6	.75	2.1
16	1.6	6.9	14	186	51	1180	62	12	3.8	1.5	.95	239
17	1.6	6.2	11	79	48	443	57	9.8	2.7	1.1	1.6	182
18	1.4	5.1	9.2	166	421	291	49	8.2	2.2	.85	1.2	30
19	2.0	5.1	8.7	291	389	201	42	8.1	1.8	1.9	.75	10
20	1.9	6.4	9.7	108	200	151	37	7.2	2.5	2.3	.92	5.3
21	2.2	5.5	9.0	75	130	173	39	6.4	3.7	3.4	.90	8.9
22	2.4	5.8	8.5	300	100	473	50	6.3	4.5	3.4	1.2	232
23	2.5	5.8	9.1	141	75	242	49	36	6.5	5.3	1.1	48
24	2.5	5.6	9.8	1290	65	174	52	43	4.1	12	1.8	16
25	2.4	5.5	10	883	62	149	45	47	3.0	6.2	1.1	8.4
26	2.1	6.4	11	283	60	115	41	26	2.3	3.6	1.8	4.9
27	1.8	6.8	12	165	56	95	32	15	1.9	2.5	3.7	3.6
28	3.0	10	12	121	77	85	28	11	2.0	4.3	4.7	153
29	3.8	7.5	14	95	---	78	24	8.8	3.2	36	7.5	216
30	3.3	5.2	15	74	---	67	22	11	2.2	9.9	4.2	2480
31	2.8	---	16	62	---	60	---	8.5	---	4.4	2.7	---
TOTAL	120.9	169.4	333.9	5143	3026	9572	2084	669.3	86.3	201.01	57.81	3719.4
MEAN	3.90	5.65	10.8	166	108	309	69.5	21.6	2.88	6.48	1.86	124
MAX	36	10	27	1290	421	2320	231	80	6.5	56	7.5	2480
MIN	1.2	2.1	3.4	14	46	60	22	6.3	1.6	.58	.48	1.0

01656120 CEDAR RUN AT ROUTE 646 NEAR ADEN, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	129	177	234	346	450	441	142	126	63.2	14.2	3.43	44.7
MAX	366	285	597	617	931	678	231	308	155	20.7	5.57	124
(WY)	1997	1998	1997	1998	1998	1998	1998	1998	1998	1997	1997	1999
MIN	3.90	5.65	10.8	166	108	309	69.5	21.6	2.88	6.48	1.86	2.32
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1996 - 1999

ANNUAL TOTAL	88593.95	25183.02	
ANNUAL MEAN	243	69.0	179
HIGHEST ANNUAL MEAN			274
LOWEST ANNUAL MEAN			69.0
HIGHEST DAILY MEAN	5720	Feb 5	2480
LOWEST DAILY MEAN	.46	Sep 15	.48
ANNUAL SEVEN-DAY MINIMUM	.55	Sep 11	1.0
INSTANTANEOUS PEAK FLOW			3220
INSTANTANEOUS PEAK STAGE			12.38
INSTANTANEOUS LOW FLOW			.34
10 PERCENT EXCEEDS	528	164	384
50 PERCENT EXCEEDS	24	9.2	50
90 PERCENT EXCEEDS	1.9	1.6	2.2

