

POTOMAC RIVER BASIN

01654000 ACCOTINK CREEK NEAR ANNANDALE, VA

LOCATION.--Lat 38°48'46", long 77°13'43", Fairfax County, Hydrologic Unit 02070010, on left bank 800 ft upstream from bridge on State Highway 620, 0.2 mi upstream from Long Branch, and 2.3 mi southwest of Annandale.

DRAINAGE AREA.--23.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1947 to current year (fragmentary prior to October 1947).

REVISED RECORDS.--WSP 1502: 1952. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.24 ft above sea level (levels by Stone and Webster Engineering Corporation). Prior to May 12, 1949, nonrecording gage at site 800 ft downstream at datum 0.33 ft lower. May 12, 1949, to June 4, 1970, water-stage recorder at site 800 ft downstream at datum 0.33 ft lower.

REMARKS.--Records good except those for periods with ice effect, Jan. 1, 2, 5-8, and Feb. 25, 26, and period of no gage-height record, May 1-3, which are fair. Maximum discharge, 12,000 ft³/s, from rating curve extended above 6,600 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 16	1300	*2,320	*9.31	Sep 30	0530	1,700	8.38
Sep 21	1830	1,600	8.22				

Minimum discharge, no flow part or all of each day, Aug 5-14.

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	2.0	3.0	2.0	e2.7	6.2	30	27	e6.8	2.7	32	4.5	.32
2	1.1	3.0	2.2	e2.3	80	12	15	e6.5	2.6	11	4.6	.20
3	.49	6.7	2.4	243	13	61	10	e6.4	2.5	4.1	.84	.13
4	.35	6.5	2.6	12	9.8	98	48	6.6	2.3	2.1	.19	188
5	.31	2.2	2.6	e3.8	10	16	38	7.2	2.1	1.4	.00	182
6	.52	2.4	2.4	e3.3	7.9	23	12	6.1	2.1	1.0	.00	83
7	.62	2.7	2.5	e3.0	7.5	21	11	6.4	2.1	.79	.00	62
8	96	3.3	21	e2.7	7.4	11	10	36	2.1	.97	.00	6.7
9	14	4.2	64	39	6.4	12	32	6.9	1.8	.51	.00	140
10	2.9	4.5	5.4	13	6.2	30	23	5.7	1.6	.48	.00	81
11	1.8	35	2.8	4.7	5.9	28	47	5.5	1.7	2.8	.00	5.0
12	1.3	5.2	2.4	5.2	40	30	17	4.6	1.6	1.6	.00	2.6
13	1.3	2.2	54	9.9	22	26	11	4.8	30	5.7	.00	2.0
14	1.5	1.9	8.2	8.5	7.4	119	9.7	4.5	70	1.3	83	1.6
15	1.7	1.9	3.2	125	6.7	288	19	4.2	18	.57	12	29
16	1.4	1.8	2.7	17	6.4	56	9.9	3.9	3.5	.31	1.7	1160
17	1.5	2.3	2.6	8.8	14	34	9.1	4.2	2.9	.29	.67	33
18	1.4	3.2	2.4	118	136	23	8.3	3.8	3.4	.24	.34	9.0
19	1.5	3.6	2.4	18	18	16	8.5	3.8	2.3	.19	.41	4.7
20	1.8	3.5	2.2	14	11	13	9.1	3.5	56	.16	19	3.9
21	2.2	4.5	2.3	76	8.9	103	34	3.2	12	.12	1.7	430
22	1.9	5.4	2.5	32	7.7	67	13	17	4.5	.86	3.4	64
23	2.3	3.2	3.1	11	7.1	19	57	54	2.8	.52	1.1	13
24	2.4	3.2	4.6	368	7.5	16	11	81	2.3	3.6	15	6.2
25	2.1	3.2	6.5	30	e7.3	14	8.5	8.8	1.8	5.4	161	4.7
26	2.0	61	4.8	13	e7.1	12	8.1	4.6	1.7	25	37	4.0
27	2.5	5.5	3.7	10	6.9	12	8.1	3.8	1.4	1.7	43	5.0
28	2.6	2.2	4.2	8.7	97	11	7.8	3.3	1.6	.63	14	12
29	3.0	1.8	4.8	7.4	---	11	7.9	3.2	23	.43	2.0	10
30	3.8	1.8	8.9	6.5	---	10	7.2	2.8	10	4.5	.94	433
31	3.3	---	4.9	6.2	---	10	---	2.8	---	3.5	.53	---
TOTAL	161.59	190.9	240.3	1222.7	571.3	1232	537.2	321.9	272.4	113.77	406.92	2976.05
MEAN	5.21	6.36	7.75	39.4	20.4	39.7	17.9	10.4	9.08	3.67	13.1	99.2
MAX	96	61	64	368	136	288	57	81	70	32	161	1160
MIN	.31	1.8	2.0	2.3	5.9	10	7.2	2.8	1.4	.12	.00	.13
CFSM	.22	.27	.33	1.68	.87	1.69	.76	.44	.39	.16	.56	4.22
IN.	.26	.30	.38	1.94	.90	1.95	.85	.51	.43	.18	.64	4.71

01654000 ACCOTINK CREEK NEAR ANNANDALE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	18.2	24.5	28.6	33.6	36.5	42.9	35.2	33.0	24.8	20.0	21.5	22.3
MAX	76.6	70.4	73.8	87.0	113	114	94.5	125	212	74.5	123	120
(WY)	1980	1994	1997	1996	1998	1993	1983	1989	1972	1969	1967	1996
MIN	2.03	3.25	5.48	4.53	12.1	10.6	8.40	8.46	2.83	1.81	1.94	.45
(WY)	1955	1955	1966	1981	1978	1981	1985	1986	1986	1955	1957	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1948 - 1999	
ANNUAL TOTAL	13664.73	8247.03		
ANNUAL MEAN	37.4	22.6	28.4	
HIGHEST ANNUAL MEAN			49.4	1972
LOWEST ANNUAL MEAN			14.3	1954
HIGHEST DAILY MEAN	985	Jan 28	1160	Sep 16
LOWEST DAILY MEAN	.31	Oct 5	.00	aAug 5
ANNUAL SEVEN-DAY MINIMUM	.73	Sep 10	.00	bAug 5
INSTANTANEOUS PEAK FLOW			2320	Sep 16
INSTANTANEOUS PEAK STAGE			9.31	Sep 16
INSTANTANEOUS LOW FLOW			.00	(d)
ANNUAL RUNOFF (CFSM)	1.59		.96	
ANNUAL RUNOFF (INCHES)	21.63		13.05	16.41
10 PERCENT EXCEEDS	78		50	51
50 PERCENT EXCEEDS	9.8		5.0	12
90 PERCENT EXCEEDS	1.4		.85	3.4

- a Also Aug 6-13, 1999.
- b Also Aug 6, 7, 1999.
- c From high-water mark in gage house.
- d No flow part or all of each day Aug 5-14, 1999.
- e Estimated.

