

01658500 SOUTH FORK QUANTICO CREEK NEAR INDEPENDENT HILL, VA

LOCATION.--Lat 38°35'14", long 77°25'44", Prince William County, Hydrologic Unit 02070011, on left bank at upstream side of bridge on State Highway 619, 3.4 mi south of Independent Hill, 5.6 mi west of Dumfries, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--7.64 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 238.88 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. No flow at times in 1954, 1957, 1962-66, 1983, 1985, 1987, 1988, 1991, 1993, 1998, and 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 24	1330	221	4.57	Sep 16	0930	228	4.62
Mar 15	0215	236	4.68	Sep 30	0745	*462	*5.97

Minimum discharge, 0.00 ft³/s, Aug 4-24.

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	.05	.15	.16	1.7	3.3	10	5.1	1.8	.31	.38	.11	.30
2	.02	.16	.17	1.7	5.6	5.1	5.7	1.8	.30	.55	.08	.27
3	.03	.25	.20	1.1	5.0	6.0	4.9	1.7	.29	1.6	.03	.24
4	.03	.27	.21	2.2	3.4	32	18	1.8	.28	.82	.00	.31
5	.03	.24	.20	.70	2.7	8.3	15	1.7	.27	.56	.00	2.5
6	.04	.25	.21	.44	2.4	5.7	7.4	1.7	.24	.39	.00	2.4
7	.04	.26	.22	.37	2.3	4.9	5.4	1.8	.22	.30	.00	1.1
8	.15	.25	.58	.37	2.5	3.5	4.6	1.8	.21	.25	.00	.73
9	.20	.24	1.4	.54	2.2	3.5	4.9	1.5	.20	.22	.00	.56
10	.14	.22	.53	.84	2.1	3.7	7.3	1.4	.19	.18	.00	.54
11	.11	.30	.49	.46	1.9	3.9	5.6	1.2	.19	.17	.00	.53
12	.08	.29	.44	.43	2.3	6.2	5.7	1.2	.16	.14	.00	.45
13	.08	.27	1.9	.57	5.7	6.8	4.3	1.1	.18	.18	.00	.40
14	.09	.26	2.2	.53	3.4	25	3.7	1.1	.18	.18	.00	.36
15	.09	.27	1.3	3.2	2.7	106	3.5	.96	.18	.16	.00	.60
16	.09	.24	1.0	3.0	2.3	20	3.8	.91	.14	.14	.00	112
17	.08	.21	1.0	1.0	2.3	9.3	3.4	.91	.15	.10	.00	8.8
18	.09	.18	.96	12	15	6.4	2.9	.93	.17	.09	.00	1.9
19	.09	.20	.89	6.2	8.6	4.7	2.7	1.0	.14	.07	.00	1.1
20	.10	.18	.86	1.7	4.7	3.8	2.7	.88	.17	.06	.00	.77
21	.11	.24	.88	1.4	3.5	11	2.9	.80	.32	.04	.00	1.0
22	.10	.21	1.0	6.2	2.8	23	3.5	.98	.31	.04	.00	4.5
23	.13	.20	1.0	2.1	2.3	8.4	3.3	7.7	.23	.04	.00	1.6
24	.11	.19	1.4	81	2.3	6.2	3.9	2.2	.19	.05	.18	.98
25	.13	.19	1.1	15	2.3	5.1	2.9	1.2	.15	.10	5.3	.75
26	.13	.28	1.1	5.4	2.3	4.5	2.6	.67	.12	.08	2.1	.70
27	.14	.25	1.2	3.5	2.2	4.2	2.3	.51	.11	.03	.75	.71
28	.13	.19	1.5	3.4	5.6	4.3	2.1	.44	.12	.02	.58	3.1
29	.13	.18	1.8	3.7	---	4.3	1.9	.39	.73	.06	.50	6.1
30	.13	.17	2.0	4.0	---	4.0	1.8	.32	.46	.11	.43	140
31	.14	---	1.6	3.7	---	4.2	---	.32	---	.14	.34	---
TOTAL	3.01	6.79	29.50	178.35	103.7	354.0	143.8	42.72	6.91	7.25	10.40	295.30
MEAN	.097	.23	.95	5.75	3.70	11.4	4.79	1.38	.23	.23	.34	9.84
MAX	.20	.30	2.2	.81	15	106	18	7.7	.73	1.6	5.3	140
MIN	.02	.15	.16	.37	1.9	3.5	1.8	.32	.11	.02	.00	.24
CFSM	.01	.03	.12	.75	.48	1.49	.63	.18	.03	.03	.04	1.29
IN.	.01	.03	.14	.87	.50	1.72	.70	.21	.03	.04	.05	1.44

01658500 SOUTH FORK QUANTICO CREEK NEAR INDEPENDENT HILL, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.24	5.77	7.96	10.3	12.1	13.9	11.5	8.01	4.73	2.48	2.55	3.16
MAX	23.9	19.2	24.4	31.2	54.0	35.0	33.0	42.8	48.8	15.1	24.5	37.2
(WY)	1980	1953	1997	1996	1998	1994	1983	1989	1972	1975	1955	1975
MIN	.070	.23	.58	1.01	3.60	1.77	2.90	1.38	.23	.055	.010	.000
(WY)	1989	1999	1966	1981	1968	1981	1969	1999	1999	1963	1963	1964

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1951 - 1999

ANNUAL TOTAL	4313.43		1181.73		7.10		
ANNUAL MEAN	11.8		3.24		13.5		1998
HIGHEST ANNUAL MEAN					2.55		1981
LOWEST ANNUAL MEAN					770		Jun 22 1972
HIGHEST DAILY MEAN	355	Feb 5	140	Sep 30			
LOWEST DAILY MEAN	.00	aAug 31	.00	bAug 4			(c)
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 31	.00	Aug 4			(c)
INSTANTANEOUS PEAK FLOW			462	Sep 30	4160	May 6	1989
INSTANTANEOUS PEAK STAGE			5.97	Sep 30	11.62	May 6	1989
INSTANTANEOUS LOW FLOW			.00	bAug 4			(c)
ANNUAL RUNOFF (CFSM)	1.55		.42		.93		
ANNUAL RUNOFF (INCHES)	21.00		5.75		12.63		
10 PERCENT EXCEEDS	22		5.6		14		
50 PERCENT EXCEEDS	1.6		.67		2.7		
90 PERCENT EXCEEDS	.07		.07		.20		

- a No flow many days August to September, 1998.
- b Also 5-23, 1999.
- c No flow at times many years. See REMARKS.

