01669000 PISCATAWAY CREEK NEAR TAPPAHANNOCK, VA

LOCATION.--Lat 37°52'37", long 76°54'03", Essex County, Hydrologic Unit 02080104, on right bank at upstream side of bridge on State Highway 691, 0.6 mi south of Hensley Fork, 2.3 mi downstream from Sturgeon Swamp, and 4.2 mi southwest of Tappahannock.

DRAINAGE AREA.--28.0 mi^2.

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

REVISED RECORDS.--WSP 2103: Drainage area. WDR VA-79-1: 1970-76(P), 1978(P).

GAGE.--Water-stage recorder. Datum of gage is 2.50 ft above sea level.

REMARKS.--Records good except those for period with ice effect, Jan. 6, periods of doubtful gage-height record, Feb. 24 and Apr. 7, and period with backwater from beaver dams, Apr. 28 to Sep. 30, which are fair. Maximum discharge, 2,380 ft^3/s, from rating curve extended above 1,400 ft^3/s. 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 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep 16	1730	*1,240	*6.19	No other peak greater than base discharge.			

Minimum discharge, no flow part or all of each day Aug 10-14.

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	2.9	4.0	5.9	13	13	23	23	e9.8	e1.1	16	.51	e1.8
2	2.4	4.3	5.7	9.5	17	21	28	e9.3	e1.0	16	.44	e1.5
3	2.5	6.8	5.6	56	19	18	27	e9.0	e.80	11	.33	e1.4
4	2.0	9.8	5.3	71	18	20	25	e8.5	e.72	7.7	.29	e4.2
5	2.6	11	5.4	32	18	20	24	e8.0	e.70	5.6	.26	e9.5
6	2.9	9.9	5.5	e21	15	18	22	e8.8	e.60	4.5	.18	e13
7	4.5	8.6	5.3	16	14	15	e19	e8.4	e.50	4.1	.11	e12
8	5.2	7.4	7.0	16	15	13	18	e7.7	e.43	3.7	.05	e11
9	5.8	6.6	33	17	14	13	19	e7.2	e.37	3.6	e.01	e9.5
10	6.5	6.8	35	16	13	15	27	e6.7	e.34	3.3	.01	e8.4
11	5.6	8.1	19	14	12	18	26	e6.2	e.30	3.1	.00	e7.8
12	3.8	7.9	13	13	13	18	23	e5.9	.26	2.8	.00	e7.4
13	3.3	8.5	33	12	18	17	20	e5.3	.38	4.9	.00	e7.0
14	3.2	8.2	48	12	19	24	18	e6.0	.99	7.3	.18	e6.6
15	2.5	8.7	26	20	16	107	16	e5.5	1.1	7.4	12	16
16	2.2	8.5	17	27	13	75	18	e4.8	1.1	4.7	14	739
17	2.1	8.4	13	21	12	40	15	e5.0	1.1	3.4	e8.0	397
18	2.0	8.0	10	20	17	32	12	e4.4	1.1	2.6	e4.5	68
19	1.9	11	9.4	20	24	27	11	e3.9	.85	2.2	e2.5	35
20	1.8	9.1	8.9	18	20	24	11	e3.4	1.1	1.9	e10	25
21	1.6	9.2	8.4	16	16	30	12	e2.5	1.3	1.6	e16	26
22	2.1	9.9	9.7	14	13	82	13	e2.2	1.3	1.6	e9.0	39
23	2.2	8.1	8.7	13	12	53	13	e4.0	1.1	1.5	e6.0	26
24	2.1	7.2	13	37	e11	36	14	e3.5	.77	1.3	e4.2	21
25	2.2	6.6	15	60	12	33	13	e3.2	.69	1.3	e3.2	18
26	2.0	8.1	13	36	14	27	12	e2.8	.47	1.0	e3.0	17
27	2.3	8.7	12	26	14	25	11	e2.5	.49	.88	e6.1	19
28	2.3	8.9	13	22	17	29	e11	e2.0	.44	.81	e5.0	21
29	2.5	7.6	16	18	---	28	e10	e1.7	1.3	.73	e4.4	23
30	2.8	6.4	15	16	---	25	e9.9	e1.5	11	.65	e3.4	27
31	3.7	---	13	15	---	23	---	e1.3	---	.58	e2.5	---
TOTAL	91.5	242.3	447.8	717.5	429	949	520.9	161.0	33.70	127.75	116.17	1618.1
MEAN	2.95	8.08	14.4	23.1	15.3	30.6	17.4	5.19	1.12	4.12	3.75	53.9
MAX	6.5	11	48	71	24	107	28	9.8	11	16	16	739
MIN	1.6	4.0	5.3	9.5	11	13	9.9	1.3	.26	.58	.00	1.4
CFSM	.11	.29	.52	.83	.55	1.09	.62	.19	.04	.15	.13	1.93
IN.	.12	.32	.59	.95	.57	1.26	.69	.21	.04	.17	.15	2.15

01669000 PISCATAWAY CREEK NEAR TAPPAHANNOCK, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	19.0	26.9	30.7	37.9	44.8	53.3	48.7	36.8	24.9	17.7	17.1	16.0
MAX	63.4	74.1	74.7	88.4	124	118	109	87.0	111	105	88.0	70.4
(WY)	1980	1980	1997	1978	1998	1994	1958	1958	1972	1975	1955	1979
MIN	1.30	6.30	9.20	7.93	14.0	13.5	13.4	5.19	1.12	2.01	1.00	.28
(WY)	1955	1955	1966	1955	1955	1981	1985	1999	1999	1954	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1952 - 1999	
ANNUAL TOTAL	14903.8		5454.72			
ANNUAL MEAN	40.8		14.9		31.1	
HIGHEST ANNUAL MEAN					56.8	1958
LOWEST ANNUAL MEAN					12.1	1954
HIGHEST DAILY MEAN	631	Feb 5	739	Sep 16	1080	Aug 13 1955
LOWEST DAILY MEAN	1.6	Oct 21	.00	aAug 11	.00	aAug 11 1999
ANNUAL SEVEN-DAY MINIMUM	1.9	Sep 15	.03	Aug 7	.03	Aug 7 1999
INSTANTANEOUS PEAK FLOW			1240	Sep 16	2380	Aug 20 1969
INSTANTANEOUS PEAK STAGE			6.19	Sep 16	b7.52	Aug 20 1969
INSTANTANEOUS LOW FLOW			.00	(c)	.00	(c)
ANNUAL RUNOFF (CFSM)	1.46		.53		1.11	
ANNUAL RUNOFF (INCHES)	19.80		7.25		15.08	
10 PERCENT EXCEEDS	101		26		63	
50 PERCENT EXCEEDS	16		8.8		22	
90 PERCENT EXCEEDS	2.5		.95		5.0	

a Also Aug 12, 13, 1999.
b From high-water mark in well.
c No flow part or all of each day Aug 10-14, 1999.
e Estimated.