

RAPPAHANNOCK RIVER BASIN

01668500 CAT POINT CREEK NEAR MONTROSS, VA

LOCATION.--Lat 38°02'23", long 76°49'38", Richmond County, Hydrologic Unit 02080104, on right bank 200 ft upstream from bridge on State Highway 637, 1.7 mi west of Farmers Fork, 3.8 mi south of Montross, and 11.4 mi upstream from mouth.

DRAINAGE AREA.--45.6 mi².

PERIOD OF RECORD.--September 1943 to September 1999 (discontinued).

REVISED RECORDS.--WSP 1382: 1944(M), 1945, 1946-51(M), 1952(P), 1953-54(M). WSP 2103: Drainage area. WDR VA-94-1: 1979(P), 1985(M), 1992(M).

GAGE.--Water-stage recorder. Datum of gage is 3.04 ft above sea level. Prior to Aug. 19, 1953, nonrecording gage near right bank at downstream side of highway bridge at same datum.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Jan. 6-9, Apr. 8, Jun. 2-7, and Sep. 16-30, which are fair. Prior to 1980, slight diurnal fluctuation at low flow caused by gristmill upstream from station. Maximum discharge, 6,820 ft³/s, from rating curve extended above 1,400 ft³/s. No flow at times in 1943, 1957, 1959-60, 1966, 1977, and 1999. 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 OUTSIDE PERIOD OF RECORD.--Flood in September 1935 exceeded 9.3 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 16	Unknown	*3,740	a*9.76	No other peak greater than base discharge.			

Minimum discharge, no flow part or all of each day Aug 4-19 and Sep 2-4.

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	6.2	7.7	11	31	29	66	36	14	1.3	5.5	.01	.01
2	7.6	8.2	11	28	33	55	45	16	e1.0	5.3	.01	.00
3	4.9	10	10	71	37	43	40	18	e.80	3.6	.01	.00
4	4.2	13	10	100	35	47	37	19	e.63	3.0	.00	.00
5	3.9	14	10	69	35	42	34	17	e.50	2.7	.00	.01
6	4.2	13	10	e40	32	37	32	16	e.40	2.6	.00	.01
7	4.4	12	10	e38	31	33	32	15	e.30	2.3	.00	.12
8	7.0	12	12	e36	31	28	e30	12	.13	2.0	.00	.44
9	16	12	47	e35	30	26	29	10	.08	1.8	.00	.63
10	10	12	63	34	27	33	32	8.6	.05	2.1	.00	1.8
11	5.6	13	49	33	25	38	30	7.2	.04	4.9	.00	1.5
12	4.2	14	37	29	25	38	29	6.5	.04	3.8	.00	1.8
13	3.5	14	58	27	34	36	27	5.8	.06	7.8	.00	1.7
14	3.2	13	76	27	35	40	25	5.2	.05	8.9	.00	1.6
15	2.7	13	57	46	31	147	23	3.9	.09	7.3	.02	2.3
16	2.3	12	43	61	28	143	24	3.8	.08	4.9	.00	e1420
17	2.2	12	34	50	27	79	22	3.7	.30	4.1	.00	e646
18	2.6	12	30	44	37	56	20	3.8	1.0	3.5	.00	e319
19	2.3	11	26	52	52	46	19	3.5	1.1	3.2	.00	e185
20	2.3	11	24	48	46	39	18	3.1	1.3	2.9	.03	e101
21	2.8	13	24	40	36	45	18	2.8	2.5	2.8	.12	e60
22	3.2	13	23	33	30	101	19	2.5	2.2	2.5	.23	e42
23	3.3	13	22	30	26	91	18	2.8	1.6	2.0	.13	e36
24	3.9	12	28	63	25	62	21	2.9	1.2	1.7	.03	e28
25	3.9	11	31	104	25	50	20	2.4	1.0	1.8	.02	e24
26	3.8	13	30	70	27	43	17	2.2	1.0	1.2	.09	e20
27	4.6	14	29	49	27	40	15	2.0	1.0	.55	.43	e16
28	5.7	14	32	41	33	45	13	1.7	1.1	.16	.43	e12
29	6.5	12	35	35	---	42	13	1.5	1.1	.06	.16	e9.0
30	5.8	11	36	31	---	38	15	1.4	1.7	.03	.04	e8.1
31	7.1	---	34	31	---	34	---	1.3	---	.02	.01	---
TOTAL	149.9	364.9	952	1426	889	1663	753	215.6	23.65	95.02	1.77	2938.02
MEAN	4.84	12.2	30.7	46.0	31.8	53.6	25.1	6.95	.79	3.07	.057	97.9
MAX	16	14	76	104	52	147	45	19	2.5	8.9	.43	1420
MIN	2.2	7.7	10	27	25	26	13	1.3	.04	.02	.00	.00
CFSM	.11	.27	.67	1.01	.70	1.18	.55	.15	.02	.07	.00	2.15
IN.	.12	.30	.78	1.16	.73	1.36	.61	.18	.02	.08	.00	2.40

01668500 CAT POINT CREEK NEAR MONTROSS, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.9	37.1	46.8	59.2	65.2	77.6	68.1	50.4	34.9	27.6	27.9	25.9
MAX	134	119	126	175	219	211	164	149	232	128	153	210
(WY)	1980	1980	1984	1978	1998	1994	1983	1990	1972	1995	1969	1979
MIN	1.47	6.70	11.6	12.9	24.1	23.2	20.7	6.95	.79	1.13	.057	.41
(WY)	1955	1992	1955	1955	1955	1945	1985	1999	1999	1957	1999	1954

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1944 - 1999

ANNUAL TOTAL	22834.70	9471.86	
ANNUAL MEAN	62.6	26.0	45.4
HIGHEST ANNUAL MEAN			89.4 1958
LOWEST ANNUAL MEAN			18.7 1954
HIGHEST DAILY MEAN	1890 Feb 5	e1420 Sep 16	2390 Sep 6 1979
LOWEST DAILY MEAN	.91 Sep 17	.00 bAug 4	.00 (c)
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 12	.00 dAug 4	.00 fAug 8 1957
INSTANTANEOUS PEAK FLOW		3740 Sep 16	6820 Aug 20 1969
INSTANTANEOUS PEAK STAGE		a9.76 Sep 16	g10.86 Sep 6 1992
INSTANTANEOUS LOW FLOW		.00 (h)	.00 (j)
ANNUAL RUNOFF (CFSM)	1.37	.57	1.00
ANNUAL RUNOFF (INCHES)	18.63	7.73	13.54
10 PERCENT EXCEEDS	121	46	96
50 PERCENT EXCEEDS	30	12	30
90 PERCENT EXCEEDS	3.1	.06	4.4

- a From floodmarks.
- b Also Aug 5-19, Sep 2-4, 1999.
- c Many days in 1943 (partial year), 1957, 1959, 1966, 1977, and 1999.
- d Also Aug 5-8, 1999.
- e Estimated.
- f Also Aug 9, 10, 1957, Aug 31 to Sep 7, 1966, and Aug 4-8, 1999.
- g Result of Chandlers Millpond dam washout.
- h Part or all of each day Aug 4-19 and Sep 2-4, 1999.
- j At times in 1943 (partial year), 1957, 1959-60, 1966, 1977, and 1999.

