

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

LOCATION.--Lat 35°39'38", long 79°24'07", Chatham County, Hydrologic Unit 03030003, on right bank 200 ft upstream from bridge on U.S. Highway 421, 1.5 mi east of Mount Vernon Springs, and 4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi²

PERIOD OF RECORD.--June 1958 to September 1981, January 1994 to current year.

GAGE.--Water-stage recorder and v-notch sharp-crested weir. Datum of gage is 455 ft above NGVD of 1929, by barometer. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 2,200 ft³/s, on basis of contracted-opening measurement of peak flow. No flow occurs at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	4.2	3.7	15	11	42	16	5.2	9.8	3.4	65	2.3
2	0.00	2.9	3.4	15	8.6	88	12	5.0	6.0	139	67	2.2
3	0.00	2.3	3.3	15	7.5	35	9.8	4.5	5.3	50	20	1.8
4	0.00	2.1	3.3	12	11	22	8.4	5.0	7.2	13	13	2.3
5	0.00	2.1	123	9.0	13	24	8.1	4.8	5.9	7.3	36	5.6
6	0.00	25	60	8.1	10	421	7.9	17	4.4	5.3	547	3.0
7	0.00	10	43	7.1	94	56	93	12	8.3	4.3	37	2.4
8	0.00	5.6	25	6.8	28	28	48	8.2	21	3.7	38	2.2
9	0.00	4.2	18	6.5	16	19	509	6.7	9.5	3.1	19	2.1
10	0.00	3.8	14	6.0	27	14	895	5.9	5.8	2.9	34	1.9
11	512	5.7	32	5.4	22	11	166	5.2	4.4	2.9	27	1.7
12	29	51	24	4.9	14	9.6	46	5.0	6.8	2.8	13	1.4
13	5.7	47	210	4.7	10	11	25	4.2	5.4	2.6	9.4	1.3
14	3.0	16	71	4.6	9.0	28	18	4.6	4.0	2.7	13	1.3
15	1.8	9.6	26	4.6	9.6	14	13	3.9	3.6	2.5	15	1.3
16	17	14	16	4.3	10	85	12	6.1	27	2.3	8.0	1.9
17	7.5	98	11	4.1	12	36	10	5.3	19	4.6	6.7	1.6
18	3.5	42	9.2	3.8	37	28	8.9	8.9	10	2.5	6.1	15
19	2.3	18	8.5	3.7	45	20	13	32	62	2.5	5.0	31
20	1.7	12	25	3.6	34	644	10	11	61	2.2	4.6	5.6
21	1.4	9.9	15	3.6	23	84	8.9	7.2	18	1.7	4.1	3.3
22	4.3	8.6	10	3.5	258	33	8.4	139	9.2	3.8	6.6	3.3
23	3.3	6.7	8.2	3.4	91	21	7.0	93	6.4	9.6	7.8	124
24	2.2	5.7	66	3.1	28	16	6.8	28	4.9	5.5	4.5	16
25	1.8	5.0	104	3.0	19	13	6.9	355	4.1	3.8	3.6	7.4
26	1.5	4.4	31	3.4	15	11	9.7	61	3.4	3.0	3.2	5.2
27	1.5	4.4	18	3.4	144	9.9	16	22	3.0	2.8	2.9	4.3
28	1.8	4.2	13	2.9	108	8.7	7.8	14	2.9	2.5	2.6	3.7
29	11	4.0	11	3.2	---	8.8	6.2	13	2.9	101	2.2	3.1
30	13	4.0	9.0	7.5	---	57	5.4	15	2.8	468	2.0	2.6
31	6.6	---	8.1	19	---	32	---	9.7	---	18	2.2	---
TOTAL	631.91	432.4	1,022.7	200.2	1,114.7	1,930.0	2,012.2	917.4	344.0	879.3	1,025.5	260.8
MEAN	20.4	14.4	33.0	6.46	39.8	62.3	67.1	29.6	11.5	28.4	33.1	8.69
MAX	512	98	210	19	258	644	895	355	62	468	547	124
MIN	0.00	2.1	3.3	2.9	7.5	8.7	5.4	3.9	2.8	1.7	2.0	1.3
CFSM	1.32	0.93	2.13	0.42	2.57	4.02	4.33	1.91	0.74	1.83	2.13	0.56
IN.	1.52	1.04	2.45	0.48	2.68	4.63	4.83	2.20	0.83	2.11	2.46	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003,@ BY WATER YEAR (WY)

MEAN	7.76	6.82	11.4	25.7	32.0	30.5	18.9	9.30	7.39	8.39	7.71	7.28
MAX	56.6	33.0	53.4	80.4	81.0	74.8	67.1	39.1	48.0	66.6	55.3	75.2
(WY)	(1972)	(1980)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1973)	(1975)	(1964)	(1996)
MIN	0.003	0.16	0.59	1.27	5.11	4.80	2.45	0.38	0.024	0.035	0.003	0.000
(WY)	(1964)	(1974)	(2002)	(1981)	(2001)	(1981)	(1981)	(2002)	(2002)	(2002)	(1977)	(1980)

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1958 - 2003@	
ANNUAL TOTAL	3,466.41		10,771.11			
ANNUAL MEAN	9.50		29.5		14.5	
HIGHEST ANNUAL MEAN					29.5	2003
LOWEST ANNUAL MEAN					3.84	1981
HIGHEST DAILY MEAN	512	Oct 11	895	Apr 10	1,570	Sep 6, 1996
LOWEST DAILY MEAN	0.00	Jun 25	0.00	Oct 2	0.00	Sep 2, 1962
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 9	0.00	Oct 2	0.00	Sep 2, 1962
MAXIMUM PEAK FLOW			1,710	Apr 10	4010*	Sep 6, 1996
MAXIMUM PEAK STAGE			7.66	Apr 10	13.41	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Oct 2	0.00*	Sep 2, 1962
ANNUAL RUNOFF (CFSM)	0.61		1.90		0.94	
ANNUAL RUNOFF (INCHES)	8.32		25.85		12.75	
10 PERCENT EXCEEDS	18		56		26	
50 PERCENT EXCEEDS	1.8		8.2		3.7	
90 PERCENT EXCEEDS	0.00		2.2		0.10	

@ See PERIOD OF RECORD.

* See REMARKS.

