

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

LOCATION.--Lat 35°39'35", long 79°24'06", 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. Minimum discharge for current water year also occurred Aug. 10, 11, 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.4	2.6	5.0	8.9	11	13	5.4	1.3	1.2	0.14	8.3
2	2.3	2.2	2.4	5.0	7.6	9.5	8.2	119	0.98	0.90	0.11	6.0
3	2.2	2.0	1.9	5.0	61	8.8	6.5	86	0.74	0.68	0.16	3.4
4	2.2	2.0	2.1	5.1	26	7.9	5.9	22	0.79	0.55	0.16	2.4
5	2.4	2.0	5.5	6.0	14	7.5	5.3	10	1.6	0.42	0.09	2.1
6	2.0	2.5	4.4	9.0	21	7.5	5.0	6.7	1.1	0.32	0.04	2.5
7	2.1	6.4	3.4	5.8	54	7.3	4.9	5.0	0.96	0.28	0.02	4.9
8	2.2	3.7	2.9	5.0	19	7.7	4.9	3.9	0.82	0.29	0.02	372
9	3.5	3.1	2.7	5.5	13	6.6	4.8	3.3	0.64	0.26	0.01	46
10	3.1	2.5	65	6.0	11	6.2	4.2	2.9	0.55	0.22	0.01	14
11	4.2	2.4	76	5.5	10	5.9	4.3	2.4	0.48	0.33	0.01	8.0
12	3.6	2.2	18	5.7	39	5.6	11	2.2	0.47	0.57	0.01	5.5
13	3.0	2.5	11	6.6	32	5.4	19	2.0	0.56	0.21	0.36	4.2
14	3.7	2.1	75	5.7	19	5.1	16	1.8	0.52	0.19	9.4	3.8
15	8.0	2.0	33	5.6	21	7.8	9.5	1.5	0.55	0.22	2.9	3.6
16	3.3	2.0	18	5.0	26	21	6.9	1.3	0.37	0.18	2.1	3.4
17	2.7	2.2	23	4.7	16	43	5.7	1.1	0.53	0.15	0.90	7.8
18	2.8	2.4	19	9.3	13	20	5.0	1.0	0.46	0.20	0.54	19
19	2.8	13	13	8.9	11	28	4.4	0.97	0.44	0.24	1.7	7.8
20	2.6	11	10	6.4	10	14	3.9	0.90	0.67	0.22	0.99	4.2
21	2.6	5.0	8.6	5.5	9.6	12	3.6	1.00	0.42	0.12	2.4	3.3
22	2.6	3.8	7.9	5.5	7.9	8.8	3.3	0.82	0.37	0.08	34	2.9
23	2.3	3.2	7.5	5.4	7.2	7.5	3.0	0.81	0.41	0.07	3.1	2.6
24	2.2	3.2	8.6	5.1	7.3	6.9	2.7	1.5	0.32	0.07	1.4	2.3
25	3.0	2.8	8.0	5.1	7.0	6.4	2.5	1.4	1.2	0.06	1.0	2.3
26	3.1	2.5	6.6	5.7	6.5	6.1	2.6	1.3	3.6	0.05	0.76	1.9
27	4.6	2.4	6.2	5.5	8.5	6.4	3.9	1.1	2.3	0.06	0.47	2.3
28	4.1	2.6	5.8	5.7	13	5.7	2.9	1.0	3.1	0.07	0.30	135
29	16	3.3	5.7	7.2	16	5.4	2.4	0.93	9.3	0.09	0.27	31
30	5.4	2.7	5.6	13	---	5.3	2.2	8.2	2.1	0.40	258	12
31	3.1	---	5.2	14	---	6.7	---	2.4	---	0.24	24	---
TOTAL	110.1	102.1	464.6	198.5	515.5	313.0	177.5	299.83	37.65	8.94	345.37	724.5
MEAN	3.55	3.40	15.0	6.40	17.8	10.1	5.92	9.67	1.25	0.29	11.1	24.1
MAX	16	13	76	14	61	43	19	119	9.3	1.2	258	372
MIN	2.0	2.0	1.9	4.7	6.5	5.1	2.2	0.81	0.32	0.05	0.01	1.9
CFSM	0.23	0.22	0.97	0.41	1.15	0.65	0.38	0.62	0.08	0.02	0.72	1.56
IN.	0.26	0.25	1.12	0.48	1.24	0.75	0.43	0.72	0.09	0.02	0.83	1.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004,[@] BY WATER YEAR (WY)

MEAN	7.63	6.71	11.5	25.1	31.6	29.9	18.5	9.31	7.21	8.16	7.81	7.76
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	0.00	0.16	0.59	1.27	5.11	4.80	2.45	0.38	0.02	0.04	0.00	0.00
(WY)	(1964)	(1974)	(2002)	(1981)	(2001)	(1981)	(1981)	(2002)	(2002)	(2002)	(1977)	(1980)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004 [@]	
ANNUAL TOTAL	9,360.9		3,297.59		14.4	
ANNUAL MEAN	25.6		9.01		29.5	
HIGHEST ANNUAL MEAN					3.84	2003
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	895	Apr 10	372	Sep 8	1,570	Sep 6, 1996
LOWEST DAILY MEAN	1.3	Sep 13	0.01	Aug 9	0.00	Sep 2, 1962
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 11	0.02	Aug 6	0.00	Sep 2, 1962
MAXIMUM PEAK FLOW			1,050	Sep 8	4010*	Sep 6, 1996
MAXIMUM PEAK STAGE			6.49	Sep 8	13.41	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.01*	Aug 9	0.00*	Sep 2, 1962
ANNUAL RUNOFF (CFSM)	1.65		0.581		0.927	
ANNUAL RUNOFF (INCHES)	22.47		7.91		12.60	
10 PERCENT EXCEEDS	43		16		26	
50 PERCENT EXCEEDS	6.4		3.6		3.7	
90 PERCENT EXCEEDS	2.3		0.31		0.11	

[@] See PERIOD OF RECORD.

* See REMARKS.

