02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

LOCATION.--Lat 35°39'37", long 79°24'08", 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 mi^2

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

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

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 2,200 ft^3/s, on basis of contracted-opening measurement of peak flow. No flow occurs at times most years.

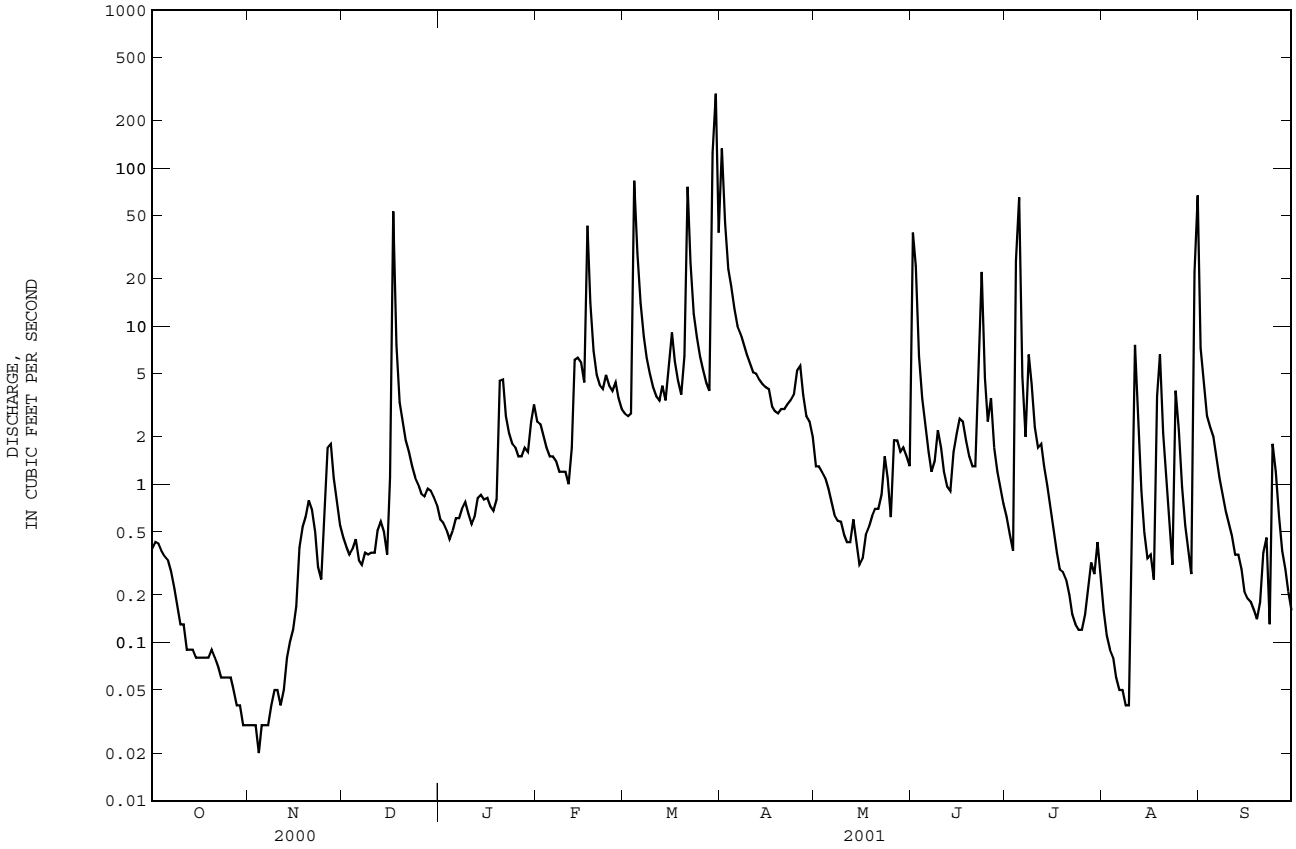
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	e.03	.46	.60	2.5	2.8	133	1.3	39	.62	.16	7.3
2	.43	e.03	.40	.57	2.4	2.7	45	1.3	24	.48	.11	4.4
3	.42	e.03	.36	.52	2.0	2.8	23	1.2	6.5	.38	.09	2.7
4	.38	.02	.39	.45	1.7	83	18	1.1	3.5	26	.08	2.3
5	.35	.03	.45	.51	1.5	29	13	.94	2.4	65	.06	2.0
6	.33	.03	.33	.61	1.5	14	10	.78	1.6	4.8	.05	1.5
7	.28	.03	.31	.61	1.4	8.6	8.9	.64	1.2	2.0	.05	1.1
8	.22	.04	.37	.70	1.2	6.3	7.6	.59	1.4	6.6	.04	.85
9	.17	.05	.36	.77	1.2	5.0	6.6	.58	2.2	4.3	.04	.67
10	.13	.05	.37	.65	1.2	4.1	5.8	.48	1.7	2.3	.21	.57
11	.13	.04	.37	.56	1.0	3.6	5.1	.43	1.2	1.7	7.6	.47
12	.09	.05	.51	.62	1.7	3.4	5.0	.43	.97	1.8	2.2	.36
13	.09	.08	.58	.82	6.1	4.2	4.6	.60	.91	1.3	.91	.36
14	.09	.10	.50	.86	6.3	3.4	4.3	.42	1.6	.98	.50	.29
15	.08	.12	.36	.80	5.9	5.4	4.1	.31	2.1	.70	.34	.21
16	.08	.17	1.1	.82	4.4	9.1	4.0	.34	2.6	.50	.36	.19
17	.08	.40	53	.73	43	6.0	3.1	.48	2.5	.37	.25	.18
18	.08	.54	7.6	.68	14	4.5	2.9	.54	1.9	.29	3.6	.16
19	.08	.62	3.3	.80	7.0	3.7	2.8	.63	1.5	.28	6.6	.14
20	.09	.79	2.5	4.5	4.9	6.5	3.0	.70	1.3	.25	2.1	.18
21	.08	.69	1.9	4.6	4.2	76	3.0	.70	1.3	.20	.99	.37
22	.07	.50	1.6	2.7	4.0	25	3.2	.86	4.9	.15	.52	.46
23	.06	.30	1.3	2.1	4.9	12	3.4	1.5	22	.13	.31	.13
24	.06	.25	1.1	1.8	4.2	8.5	3.7	1.1	4.7	.12	3.9	1.8
25	.06	.60	1.0	1.7	3.9	6.4	5.2	.62	2.5	.12	2.2	1.2
26	.06	1.7	.87	1.5	4.4	5.3	5.6	1.9	3.5	.15	.97	.63
27	.05	1.8	.84	1.5	3.5	4.4	3.7	1.9	1.7	.21	.55	.38
28	.04	1.1	.94	1.7	3.0	3.9	2.7	1.6	1.2	.32	.39	.29
29	.04	.76	.91	1.6	---	125	2.5	1.7	.94	.27	.27	.21
30	.03	.55	.83	2.5	---	294	2.0	1.5	.75	.43	22	.16
31	.03	---	.74	3.2	---	39	---	1.3	---	.27	67	---
TOTAL	4.57	11.50	85.65	42.08	143.0	807.6	344.8	28.47	143.57	123.02	124.45	31.56
MEAN	.15	.38	2.76	1.36	5.11	26.1	11.5	.92	4.79	3.97	4.01	1.05
MAX	.43	1.8	53	4.6	43	294	133	1.9	39	65	67	7.3
MIN	.03	.02	.31	.45	1.0	2.7	2.0	.31	.75	.12	.04	.13
CFSM	.01	.02	.18	.09	.33	1.68	.74	.06	.31	.26	.26	.07
IN.	.01	.03	.21	.10	.34	1.94	.83	.07	.34	.30	.30	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001,@ BY WATER YEAR (WY)

MEAN	7.58	6.78	11.0	26.5	32.6	30.2	17.8	8.94	7.50	8.03	7.13	7.42
MAX	56.6	33.0	53.4	80.4	81.0	74.8	48.3	39.1	48.0	66.6	55.3	75.2
(WY)	1972	1980	1973	1978	1960	1998	1960	1978	1973	1975	1964	1996
MIN	.003	.16	.79	1.27	5.11	4.80	2.45	.92	.16	.098	.003	.000
(WY)	1964	1974	1961	1981	2001	1981	1981	2001	1999	1966	1977	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001@		
ANNUAL TOTAL	2544.95		1890.27				
ANNUAL MEAN	6.95		5.18		14.4		
HIGHEST ANNUAL MEAN					26.5		1973
LOWEST ANNUAL MEAN					3.84		1981
HIGHEST DAILY MEAN	126	Jan 31	294	Mar 30	1570	Sep 6	1996
LOWEST DAILY MEAN	.00	Aug 23	.02	Nov 4	.00	Sep 2	1962
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 23	.03	Oct 30	.00	Sep 2	1962
MAXIMUM PEAK FLOW			599	Mar 29	4010*	Sep 6	1996
MAXIMUM PEAK STAGE			5.40	Mar 29	13.41	Sep 6	1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Sep 2	1962
ANNUAL RUNOFF (CFSM)	.45		.33		.93		
ANNUAL RUNOFF (INCHES)	6.11		4.54		12.62		
10 PERCENT EXCEEDS	17		6.6		26		
50 PERCENT EXCEEDS	.90		.97		3.6		
90 PERCENT EXCEEDS	.02		.09		.12		

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC--Continued