

CAPE FEAR RIVER BASIN

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 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.--Records poor. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.16	0.16	0.36	4.9	4.6	73	1.1	0.05	0.01	0.01	34
2	0.12	0.24	0.15	0.43	4.9	6.0	18	0.76	0.05	0.01	0.01	3.1
3	0.11	0.31	0.14	0.78	4.3	18	11	0.96	0.07	0.01	0.01	1.0
4	0.10	0.22	0.15	0.71	4.9	11	7.4	1.2	0.05	0.01	0.01	0.44
5	0.08	0.34	0.16	0.73	5.9	6.5	5.6	1.3	0.04	0.01	0.00	0.21
6	0.07	0.47	0.19	2.4	5.8	5.2	4.9	1.2	0.04	0.01	0.00	0.10
7	0.09	0.39	0.18	6.4	22	4.6	4.1	0.78	0.06	0.01	0.00	0.04
8	0.13	0.13	0.27	4.6	32	4.3	3.8	0.54	0.05	0.01	0.00	0.02
9	0.09	0.11	0.32	3.3	13	7.4	3.9	0.40	0.04	0.00	0.00	0.01
10	0.05	0.13	0.37	4.1	8.6	12	4.6	0.30	0.03	0.00	0.00	0.01
11	0.05	0.10	2.7	5.5	7.4	7.7	4.1	0.20	0.02	0.00	0.00	0.01
12	0.06	0.10	1.7	4.1	5.9	5.8	3.6	0.18	0.02	0.00	0.00	0.01
13	0.17	0.10	1.2	4.8	5.1	12	4.3	0.19	0.02	0.00	0.00	0.01
14	1.1	0.10	1.0	4.0	4.4	18	3.3	0.26	0.02	0.00	0.00	0.01
15	2.2	0.10	0.65	3.2	4.0	9.8	2.9	0.24	0.01	0.00	0.00	0.01
16	0.70	0.10	0.44	3.5	3.9	7.2	2.4	0.29	0.01	0.00	0.00	0.02
17	0.83	0.10	0.45	3.4	4.3	8.5	2.2	0.32	0.01	0.00	0.00	0.03
18	0.67	0.08	0.90	2.9	4.5	13	2.0	0.18	0.01	0.00	0.00	0.03
19	0.59	0.08	0.75	50	4.2	9.6	1.8	0.17	0.01	0.00	0.00	0.06
20	0.67	0.08	0.72	74	4.6	7.7	1.7	0.17	0.01	0.00	0.00	0.09
21	0.63	0.09	0.62	23	4.6	14	1.6	0.16	0.01	0.00	0.00	0.05
22	0.53	0.10	0.55	18	5.1	13	1.3	0.14	0.01	0.00	0.00	0.03
23	0.61	0.14	0.54	279	4.9	7.9	1.1	0.10	0.01	0.48	0.00	0.02
24	1.2	0.23	0.52	61	4.2	6.1	1.1	0.10	0.01	0.27	0.00	0.01
25	1.1	0.23	0.47	49	3.6	5.1	0.99	0.10	0.00	0.09	0.00	0.01
26	0.70	0.21	0.75	22	3.6	5.0	1.1	0.09	0.00	0.06	0.00	0.01
27	0.42	0.19	0.62	13	4.5	12	0.94	0.07	0.01	0.04	0.00	0.01
28	0.20	0.14	0.47	9.3	4.6	7.9	0.89	0.06	0.02	0.03	0.00	0.01
29	0.17	0.14	0.43	7.3	---	6.1	1.2	0.06	0.02	0.02	0.00	0.01
30	0.16	0.16	0.38	6.0	---	5.0	1.2	0.05	0.02	0.02	0.00	0.01
31	0.14	---	0.36	4.9	---	6.0	---	0.05	---	0.01	22	---
TOTAL	13.88	5.07	18.31	671.71	189.7	267.0	176.02	11.72	0.73	1.10	22.04	39.38
MEAN	0.448	0.169	0.591	21.67	6.775	8.613	5.867	0.378	0.024	0.035	0.711	1.313
MAX	2.2	0.47	2.7	279	32	18	73	1.3	0.07	0.48	22	34
MIN	0.05	0.08	0.14	0.36	3.6	4.3	0.89	0.05	0.00	0.00	0.00	0.01
CFSM	0.03	0.01	0.04	1.40	0.44	0.56	0.38	0.02	0.00	0.00	0.05	0.08
IN.	0.03	0.01	0.04	1.61	0.46	0.64	0.42	0.03	0.00	0.00	0.05	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002,® BY WATER YEAR (WY)

	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	
MEAN	7.350	6.571	10.68	26.32	31.81	29.54	17.38	8.668	7.266	7.789	6.939	7.239												
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	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												

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1958 - 2002®

ANNUAL TOTAL	1825.81				1416.66				14.06			
ANNUAL MEAN	5.002				3.881				3.84			
HIGHEST ANNUAL MEAN									26.5			
LOWEST ANNUAL MEAN									1981			
HIGHEST DAILY MEAN	294				Mar 30				1570			
LOWEST DAILY MEAN	0.04				Aug 8				0.00			
ANNUAL SEVEN-DAY MINIMUM	0.06				Aug 3				0.00			
MAXIMUM PEAK FLOW									704			
MAXIMUM PEAK STAGE									5.69			
INSTANTANEOUS LOW FLOW									0.00*			
ANNUAL RUNOFF (CFSM)	0.32				0.25				0.91			
ANNUAL RUNOFF (INCHES)	4.38				3.40				12.32			
10 PERCENT EXCEEDS	6.5				7.4				25			
50 PERCENT EXCEEDS	0.91				0.24				3.5			
90 PERCENT EXCEEDS	0.13				0.00				0.10			

® See PERIOD OF RECORD.
* See REMARKS.

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

