

CAPE FEAR RIVER BASIN

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'59", long 79°51'22", Guilford County, Hydrologic Unit 03030002, on right bank 300 ft upstream of culvert under Merritt Road, 0.7 mi south of post office at Pomona, and 1.0 mi below South Railway trestle.

DRAINAGE AREA.--7.33 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year occurred several days.

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	0.60	e0.52	2.0	2.2	2.0	1.2	11	1.9	5.6	0.21	0.15	130
2	0.56	e0.50	1.2	1.9	1.7	54	3.0	24	2.4	0.35	0.14	4.6
3	0.54	e2.7	0.49	3.9	1.8	26	2.4	2.0	0.40	16	0.13	2.0
4	0.47	e1.1	0.62	8.5	1.7	5.6	1.8	17	0.35	47	0.12	e1.3
5	0.45	e0.80	0.56	5.5	1.9	3.3	1.5	3.8	0.33	4.3	0.11	e1.4
6	2.9	e0.70	0.59	64	13	2.4	1.6	2.0	14	0.71	0.17	e1.3
7	0.87	e1.5	0.71	14	52	1.8	1.5	2.4	3.8	0.39	0.23	e0.85
8	0.47	e0.80	1.1	6.9	7.1	1.5	1.5	1.5	0.30	0.29	0.12	e0.69
9	0.48	e0.68	0.65	5.4	3.7	1.6	1.6	1.2	0.22	0.31	0.11	e0.56
10	0.69	e1.6	58	4.1	7.4	1.9	3.4	0.94	0.20	3.9	0.11	e0.37
11	1.1	e0.90	43	3.9	3.3	1.2	1.5	1.1	0.18	35	0.11	0.92
12	1.2	e0.78	6.6	2.8	2.0	16	2.9	1.00	0.17	1.5	0.12	0.53
13	1.0	e0.72	5.2	4.0	1.7	14	1.9	18	0.16	0.42	0.13	0.36
14	200	e0.68	3.8	2.8	1.5	3.9	3.1	5.5	0.16	5.4	0.53	1.7
15	55	e0.66	4.0	3.2	1.2	2.4	4.1	1.9	0.16	1.2	0.29	50
16	e1.6	e0.90	2.8	2.9	1.2	1.9	1.5	1.2	0.15	0.43	1.6	11
17	e0.76	e0.62	26	2.4	1.1	19	1.8	0.93	0.14	0.57	0.20	2.4
18	e0.70	e0.53	18	3.0	1.1	6.4	1.2	10	0.14	0.26	0.43	6.9
19	e0.62	e0.51	4.7	168	1.1	2.9	3.1	1.8	0.14	0.24	0.16	7.1
20	e0.53	e0.50	3.3	24	1.1	4.9	2.0	0.90	0.15	0.21	0.14	1.8
21	e0.50	e0.49	2.7	16	1.3	15	0.88	1.6	0.14	0.22	0.13	1.3
22	e1.8	e0.48	2.3	7.0	1.1	3.6	0.79	1.0	0.11	0.20	0.13	1.1
23	e0.68	e0.48	2.1	118	1.1	2.5	0.67	0.66	0.12	0.46	0.13	1.1
24	e0.58	8.5	17	15	1.1	2.1	0.76	0.64	0.16	15	0.13	0.79
25	e3.4	1.0	4.0	31	1.1	2.1	1.4	0.48	1.2	4.4	0.12	0.71
26	e1.6	0.45	3.2	6.1	1.2	6.3	0.90	0.37	21	20	0.52	40
27	e0.90	0.41	2.8	4.0	1.2	11	1.1	0.42	14	2.5	0.24	6.5
28	e0.77	0.46	2.3	3.0	1.2	2.5	1.3	0.42	3.7	1.1	20	3.8
29	e0.68	0.49	2.1	2.7	---	2.0	1.5	0.35	0.32	0.35	1.2	1.5
30	e0.60	2.2	2.3	3.0	---	2.1	1.8	7.4	0.27	0.27	28	1.2
31	e0.55	---	2.3	1.8	---	13	---	1.9	---	0.19	87	---
TOTAL	282.60	32.66	226.42	541.0	116.9	234.1	63.50	114.31	70.17	163.38	142.70	283.78
MEAN	9.116	1.089	7.304	17.45	4.175	7.552	2.117	3.687	2.339	5.270	4.603	9.459
MAX	200	8.5	58	168	52	54	11	24	21	47	87	130
MIN	0.45	0.41	0.49	1.8	1.1	1.2	0.67	0.35	0.11	0.19	0.11	0.36
CFSM	1.25	0.15	1.00	2.39	0.57	1.03	0.29	0.51	0.32	0.72	0.63	1.30
IN.	1.44	0.17	1.15	2.76	0.60	1.19	0.32	0.58	0.36	0.83	0.73	1.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	5.502	3.083	4.992	12.02	8.933	13.01	8.589	5.754	6.912	8.095	9.353	23.20
MAX	9.12	4.42	7.30	17.5	11.5	22.5	14.0	9.33	12.4	14.0	12.8	35.1
(WY)	2002	2000	2002	2002	2001	2001	2000	2001	2000	2001	2001	2000
MIN	1.90	1.09	2.56	7.14	4.18	7.55	2.12	3.69	2.34	5.27	4.60	9.46
(WY)	2001	2002	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	4164.66	2271.52		
ANNUAL MEAN	11.41	6.223		9.195
HIGHEST ANNUAL MEAN				10.7
LOWEST ANNUAL MEAN				6.22
HIGHEST DAILY MEAN	320	Sep 24	200	Oct 14
LOWEST DAILY MEAN	0.20	Sep 16	0.11	Jun 22
ANNUAL SEVEN-DAY MINIMUM	0.24	Sep 13	0.13	Aug 7
MAXIMUM PEAK FLOW			NOT DETERMINED	1170
MAXIMUM PEAK STAGE			6.93	Oct 14
INSTANTANEOUS LOW FLOW			0.10*	Jun 22
ANNUAL RUNOFF (CFSM)	1.56		0.85	1.26
ANNUAL RUNOFF (INCHES)	21.22		11.58	17.11
10 PERCENT EXCEEDS	28		14	23
50 PERCENT EXCEEDS	2.2		1.4	2.0
90 PERCENT EXCEEDS	0.52		0.20	0.52

e Estimated.

* See REMARKS.

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued

