

## CAPE FEAR RIVER BASIN

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC

LOCATION.--Lat 36°02'16", long 79°48'01", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on US 220, and 0.8 mi upstream from Ryan Creek in Greensboro.

DRAINAGE AREA.--15.4 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Sept. 16-20, 2001.

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	e5.0	3.0	3.1	2.9	5.2	e7.4	126	4.0	81	3.3	6.3	5.7
2	e4.7	3.1	3.2	3.0	4.4	6.3	34	3.8	17	6.2	3.6	2.2
3	4.3	3.5	3.0	3.1	3.8	10	43	3.7	5.4	4.6	2.7	.47
4	7.2	3.3	2.7	3.0	3.7	92	19	3.5	5.2	134	2.2	11
5	4.7	3.2	2.8	3.0	4.3	36	13	3.4	17	34	2.0	.71
6	3.2	2.9	2.9	3.1	3.9	12	11	3.3	116	5.1	2.0	.41
7	e3.5	4.0	3.3	3.0	3.7	8.8	9.4	3.1	26	3.6	1.9	.31
8	e3.5	5.5	2.9	23	3.8	7.2	8.0	3.2	7.8	28	1.8	.26
9	e3.2	22	3.1	9.2	4.3	6.1	7.2	3.6	5.7	6.9	1.8	.25
10	e3.3	8.9	2.9	4.2	10	5.3	6.7	7.7	4.0	14	20	1.8
11	e3.5	3.2	2.9	3.5	5.5	5.1	6.5	4.3	4.8	3.2	170	.60
12	e3.1	2.9	2.8	3.6	15	7.2	6.0	44	5.4	2.7	16	.26
13	e3.0	2.6	2.8	3.8	17	19	18	13	124	2.6	1.2	.22
14	e3.1	44	5.0	3.4	13	6.2	7.3	4.0	28	2.8	.76	.20
15	e3.2	8.1	4.0	3.4	15	78	5.9	3.4	4.7	2.4	.47	.18
16	e3.1	3.2	26	3.1	33	22	5.7	48	3.5	2.2	.40	.17
17	e3.1	3.9	41	2.9	311	11	5.8	20	3.0	2.1	.35	.16
18	3.0	2.8	7.0	38	19	8.2	5.4	5.6	2.9	25	28	.19
19	3.4	8.5	9.7	113	10	7.4	4.6	4.2	2.7	11	1.2	.18
20	3.3	11	7.7	111	e7.0	79	4.5	5.9	2.5	3.5	.49	22
21	3.3	3.2	5.3	20	e2.8	100	4.9	41	2.7	2.5	.33	2.1
22	3.4	2.2	4.4	11	e10	33	4.3	11	67	2.1	.27	.34
23	3.4	2.4	3.6	7.8	e8.2	14	4.4	8.6	34	2.0	.33	.25
24	3.6	2.3	3.3	6.4	e7.0	10	12	4.2	4.7	4.1	105	125
25	4.7	68	3.2	5.2	e46	8.1	75	12	8.5	28	.78	28
26	3.2	22	2.9	4.6	e9.6	8.3	9.0	255	18	129	.46	4.4
27	3.1	8.3	3.1	4.7	e4.8	6.4	6.4	9.5	50	161	.37	3.2
28	3.4	5.0	3.5	4.5	e2.8	6.2	5.2	13	5.3	8.1	.31	2.3
29	3.7	4.4	4.4	4.5	---	338	4.3	6.3	3.7	88	7.0	2.0
30	3.1	3.5	3.7	35	---	90	4.0	4.4	3.3	39	6.6	1.8
31	3.0	---	3.0	9.7	---	198	---	3.9	---	4.6	8.6	---
TOTAL	112.3	270.9	179.2	456.6	583.8	1246.2	476.5	560.6	663.8	765.6	393.22	216.66
MEAN	3.62	9.03	5.78	14.7	20.9	40.2	15.9	18.1	22.1	24.7	12.7	7.22
MAX	7.2	68	41	113	311	338	126	255	124	161	170	125
MIN	3.0	2.2	2.7	2.9	2.8	5.1	4.0	3.1	2.5	2.0	.27	.16
CFSM	.24	.59	.38	.96	1.35	2.61	1.03	1.17	1.44	1.60	.82	.47
IN.	.27	.65	.43	1.10	1.41	3.01	1.15	1.35	1.60	1.85	.95	.52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001
MEAN	6.16	6.76	14.8	40.0
MAX	11.3	9.03	27.2	82.6
(WY)	2000	2001	1999	2000
MIN	3.59	3.00	5.78	14.7
(WY)	1999	1999	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1998 - 2001
ANNUAL TOTAL	12216.7	5925.38	
ANNUAL MEAN	33.4	16.2	25.9
HIGHEST ANNUAL MEAN			34.4
LOWEST ANNUAL MEAN			16.2
HIGHEST DAILY MEAN	1640	338	1640
LOWEST DAILY MEAN	2.2	.16	.16
ANNUAL SEVEN-DAY MINIMUM	2.8	.19	.19
INSTANTANEOUS PEAK FLOW		1250	NOT DETERMINED
INSTANTANEOUS PEAK STAGE		10.59	14.73
INSTANTANEOUS LOW FLOW		.16*	.16*
ANNUAL RUNOFF (CFSM)	2.17	1.05	1.68
ANNUAL RUNOFF (INCHES)	29.51	14.31	22.84
10 PERCENT EXCEEDS	55	35	44
50 PERCENT EXCEEDS	5.4	4.4	4.4
90 PERCENT EXCEEDS	2.9	2.0	1.7

e Estimated.  
\* See REMARKS.

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC--Continued

