

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 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

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	1.5	e2.3	4.7	2.3	5.5	3.6	22	e3.5	2.8	1.3	0.93	395
2	1.4	e2.3	3.3	2.3	4.5	96	5.2	26	6.7	2.2	0.64	8.8
3	1.3	e3.4	2.7	3.7	4.4	54	4.2	2.5	1.7	16	0.46	4.2
4	1.4	e3.0	2.3	11	4.4	9.6	3.5	20	0.89	48	0.39	3.1
5	1.3	e2.7	3.0	11	4.1	6.3	3.3	5.6	0.68	12	0.35	2.0
6	2.2	e2.6	2.1	110	15	5.2	3.2	2.1	6.3	4.8	0.20	1.6
7	2.1	e3.0	2.4	24	101	5.0	3.1	1.9	9.1	2.9	0.15	1.0
8	1.3	e2.9	2.4	10	13	4.0	3.1	1.8	1.3	2.6	0.42	0.63
9	1.2	e2.9	2.6	6.2	7.5	4.0	3.2	1.3	0.66	3.0	0.27	0.60
10	1.5	e2.8	79	5.4	14	4.1	5.7	1.2	0.45	3.0	0.18	0.53
11	2.3	e2.7	89	4.8	8.1	4.0	3.8	1.2	0.56	79	0.14	0.69
12	2.4	e2.7	5.7	4.2	5.7	18	6.2	1.3	e0.46	4.8	0.15	0.47
13	2.7	e2.7	4.4	5.2	5.2	23	4.3	22	e0.46	3.2	0.11	0.38
14	118	e2.6	3.8	4.4	4.8	7.3	3.3	10	e0.46	7.4	0.10	1.6
15	13	e2.7	3.2	4.0	4.6	5.1	6.5	3.0	e0.42	3.9	1.1	89
16	3.5	e2.5	2.6	4.0	4.4	4.0	3.3	1.7	e0.42	2.4	3.1	18
17	2.4	e2.6	25	3.7	4.2	26	3.3	1.4	e0.42	0.81	2.6	3.6
18	2.3	e2.7	38	4.0	4.0	11	3.6	12	0.27	0.54	3.0	7.2
19	2.2	e2.6	5.1	298	3.9	6.2	4.9	3.8	0.27	0.41	1.1	14
20	2.0	e2.5	3.4	62	4.2	6.8	6.1	1.7	0.25	0.34	0.48	2.3
21	2.3	e2.7	3.0	30	5.3	23	2.9	2.3	0.26	0.27	0.37	1.2
22	2.3	e2.6	2.7	10	4.0	7.0	2.6	2.9	0.26	0.23	0.28	0.89
23	2.9	e2.5	2.6	235	4.1	4.4	e1.9	1.4	0.32	0.98	0.23	0.72
24	3.4	13	25	29	4.1	4.0	e1.7	1.3	0.32	26	0.22	0.67
25	5.6	5.3	4.6	60	3.9	3.7	e2.0	1.4	1.3	9.9	0.19	0.49
26	2.7	2.9	3.1	11	4.1	4.9	e1.5	1.00	22	61	0.33	66
27	e2.5	2.6	2.8	7.8	3.6	19	e1.4	0.92	20	11	1.2	17
28	e2.5	2.5	2.5	7.2	3.1	4.3	e1.4	0.91	11	6.4	37	6.4
29	e2.4	2.5	2.4	6.0	---	3.6	e1.8	0.86	2.8	3.1	6.8	2.1
30	e2.4	2.9	2.4	6.3	---	3.8	e2.7	8.1	1.6	1.8	61	1.3
31	e2.3	---	2.4	5.2	---	19	---	5.8	---	0.93	160	---
TOTAL	197.3	93.7	338.2	987.7	254.7	399.9	121.7	150.89	94.43	320.21	283.49	651.47
MEAN	6.365	3.123	10.91	31.86	9.096	12.90	4.057	4.867	3.148	10.33	9.145	21.72
MAX	118	13	89	298	101	96	22	26	22	79	160	395
MIN	1.2	2.3	2.1	2.3	3.1	3.6	1.4	0.86	0.25	0.23	0.10	0.38
CFSM	0.41	0.20	0.71	2.07	0.59	0.84	0.26	0.32	0.20	0.67	0.59	1.41
IN.	0.48	0.23	0.82	2.39	0.62	0.97	0.29	0.36	0.23	0.77	0.68	1.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002
MEAN	6.189	5.790	13.85	38.34	15.84
MAX	11.3	9.03	27.2	82.6	21.6
(WY)	2000	2001	1999	1999	2000
MIN	3.59	2.89	5.78	14.7	9.97
(WY)	1999	2002	2001	2001	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1998 - 2002
ANNUAL TOTAL	5992.18	3893.69	
ANNUAL MEAN	16.42	10.67	22.17
HIGHEST ANNUAL MEAN			34.4
LOWEST ANNUAL MEAN			11.0
HIGHEST DAILY MEAN	338	Mar 29	395
LOWEST DAILY MEAN	0.16	Sep 17	0.10
ANNUAL SEVEN-DAY MINIMUM	0.19	Sep 13	0.20
MAXIMUM PEAK FLOW			978
MAXIMUM PEAK STAGE			10.04
INSTANTANEOUS LOW FLOW			0.08
ANNUAL RUNOFF (CFSM)	1.07		0.69
ANNUAL RUNOFF (INCHES)	14.47		9.41
10 PERCENT EXCEEDS	37		19
50 PERCENT EXCEEDS	4.2		3.0
90 PERCENT EXCEEDS	1.4		0.46

e Estimated.

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

