

CAPE FEAR RIVER BASIN

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC

LOCATION.--Lat 36°05'32", long 79°46'58", Guilford County, Hydrologic Unit 03030002, on right bank at upstream side of Church Street, and .1 mi upstream of Southern Railway bridge in Greensboro.

DRAINAGE AREA.--14.2 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 738.52 ft above sea level. Satellite telemetry at station.

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

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	8.0	4.6	5.8	8.8	12	10	154	5.3	76	14	12	16
2	7.8	3.8	6.6	9.2	11	10	32	6.2	14	11	6.1	10
3	7.8	4.6	5.8	11	11	16	43	5.5	6.1	5.8	4.9	4.5
4	7.6	4.5	7.6	9.6	10	94	19	6.0	5.7	e248	4.7	23
5	7.7	4.3	5.9	9.1	11	35	15	6.1	17	50	4.5	5.2
6	7.8	4.2	5.7	8.9	9.7	14	14	5.7	25	9.9	4.3	4.5
7	7.8	5.9	6.4	9.0	e10	11	12	6.1	12	7.9	4.2	4.2
8	7.8	8.6	5.7	31	e9.8	11	12	6.3	6.5	37	4.1	4.5
9	7.5	29	5.9	11	e10	11	11	5.6	6.4	11	4.2	3.8
10	5.9	9.5	8.8	9.6	e19	9.8	10	23	5.4	82	5.6	12
11	6.0	4.9	6.7	9.5	e9.8	12	9.0	6.4	4.9	11	73	5.0
12	5.5	6.1	7.9	9.3	e22	15	7.9	35	4.8	9.9	19	3.5
13	5.7	5.4	8.1	9.8	16	19	15	11	87	11	10	3.9
14	5.1	53	14	9.5	17	9.2	8.1	4.7	18	10	8.0	3.8
15	5.5	7.5	9.4	9.6	18	86	7.7	5.1	6.0	9.5	5.5	3.1
16	5.9	5.1	32	9.5	34	20	7.1	79	7.3	9.5	5.3	3.9
17	5.2	6.3	40	16	218	11	7.8	28	4.7	8.0	13	2.9
18	5.1	6.7	9.0	54	17	11	6.2	6.4	4.2	72	31	3.1
19	5.1	17	16	114	13	11	6.3	5.2	4.0	12	11	3.0
20	4.5	13	9.8	124	12	83	6.5	10	3.8	7.5	5.2	38
21	4.6	7.9	6.7	22	11	124	5.7	51	13	7.3	3.9	7.4
22	4.9	7.3	6.7	15	23	29	6.6	14	72	7.6	3.7	3.4
23	3.9	7.4	8.2	13	16	12	7.1	11	34	7.2	3.6	3.2
24	6.4	7.5	10	13	12	10	16	5.1	6.6	7.4	60	110
25	5.9	84	11	12	57	8.5	76	16	13	36	5.4	19
26	6.2	20	10	11	17	9.0	9.8	191	20	145	4.3	4.3
27	7.2	8.9	9.0	11	13	6.6	7.2	11	56	218	4.5	3.7
28	5.3	7.3	8.6	11	13	5.9	6.0	14	7.4	13	4.1	3.5
29	5.5	8.2	9.3	11	---	237	5.6	7.4	7.2	32	4.2	3.1
30	5.0	8.0	9.2	48	---	60	5.4	6.6	6.1	24	6.2	3.0
31	4.2	---	8.7	14	---	119	---	6.0	---	6.6	12	---
TOTAL	188.4	370.5	314.5	663.4	652.3	1120.0	549.0	599.7	554.1	1141.1	347.5	318.5
MEAN	6.08	12.4	10.1	21.4	23.3	36.1	18.3	19.3	18.5	36.8	11.2	10.6
MAX	8.0	84	40	124	218	237	154	191	87	248	73	110
MIN	3.9	3.8	5.7	8.8	9.7	5.9	5.4	4.7	3.8	5.8	3.6	2.9
CFSM	.43	.87	.71	1.51	1.64	2.54	1.29	1.36	1.30	2.59	.79	.75
IN.	.49	.97	.82	1.74	1.71	2.93	1.44	1.57	1.45	2.99	.91	.83

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

	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN	8.95	10.6	13.8	22.6	19.9	23.0	23.2	14.1	20.8	24.6	15.0	25.0
MAX	16.1	12.9	20.3	29.4	23.3	36.1	27.7	19.3	31.6	36.8	23.8	44.6
(WY)	2000	2000	1999	1999	2001	2001	2000	2001	2000	2001	2000	2000
MIN	4.71	6.42	10.1	17.1	14.4	13.6	18.3	10.5	12.2	16.7	11.2	8.72
(WY)	1999	1999	2001	2000	1999	1999	2001	1999	1999	1999	2001	1998

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	7506.2	6819.0	
ANNUAL MEAN	20.5	18.7	19.0
HIGHEST ANNUAL MEAN			21.5
LOWEST ANNUAL MEAN			16.8
HIGHEST DAILY MEAN	250	Sep 15	250
LOWEST DAILY MEAN	2.9	Jan 6	1.5
ANNUAL SEVEN-DAY MINIMUM	4.3	Oct 31	2.0
MAXIMUM PEAK FLOW	NOT DETERMINED	NOT DETERMINED	NOT DETERMINED
MAXIMUM PEAK STAGE		14.55	16.41
INSTANTANEOUS LOW FLOW		2.6	1.2
ANNUAL RUNOFF (CFSM)	1.44	1.32	1.34
ANNUAL RUNOFF (INCHES)	19.66	17.86	18.17
10 PERCENT EXCEEDS	53	37	48
50 PERCENT EXCEEDS	9.3	9.0	7.8
90 PERCENT EXCEEDS	5.7	4.5	3.2

e Estimated.

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