

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.

REVISED RECORDS.--WDR NC-98-1, WDR NC-99-1B, WDR NC-00-1B, WDR-01-1B: maximum discharges only.

GAGE.--Water-stage recorder. Datum of gage is 738.52 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 2, 2002.

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in the reports 1998, 1999, 2000, 2001.

Water Year	Date	Discharge (ft ³ /s)	Gage Height (ft)
1998	Aug. 8, 1998	399	6.98
1999	Apr. 29, 1999	1280	11.49
2000	Sep. 15, 2000	2860	16.41
2001	Jul. 4, 2001	2190	14.55

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	3.2	3.9	3.2	4.9	5.3	4.0	23	6.0	27	5.0	1.5	366
2	3.2	4.3	2.3	4.9	4.7	93	5.7	41	11	11	e1.4	11
3	3.2	4.6	2.3	6.5	4.5	49	5.1	8.9	5.8	32	e1.9	6.0
4	3.2	3.6	2.3	11	4.8	11	4.7	39	5.2	73	e1.9	5.2
5	2.8	3.6	2.4	8.6	4.4	7.8	4.5	12	4.6	10	e2.1	4.5
6	3.9	3.8	2.3	107	24	7.2	5.7	7.3	54	5.6	e2.4	4.2
7	3.4	3.8	2.2	18	100	7.2	7.4	5.9	18	5.0	2.2	4.5
8	2.8	4.2	2.2	8.0	12	6.0	5.5	7.6	5.4	4.3	2.4	4.2
9	2.8	4.0	2.2	5.7	8.4	8.8	4.6	5.0	5.5	4.8	2.7	4.2
10	3.0	3.6	89	5.5	19	6.6	7.0	5.9	4.3	5.2	2.7	4.2
11	3.1	3.9	73	5.2	8.5	6.1	4.8	7.0	3.5	55	2.4	4.1
12	2.9	3.8	6.1	6.0	5.6	33	7.8	8.2	3.8	5.1	2.4	3.3
13	2.9	3.9	5.2	5.5	5.1	25	5.7	42	3.5	4.4	2.4	3.6
14	116	4.0	6.6	4.6	4.8	8.7	9.4	16	5.0	8.5	2.1	4.7
15	9.4	3.9	5.5	4.6	4.8	7.1	10	8.4	5.3	5.4	3.6	91
16	5.4	3.7	5.2	4.4	5.4	7.1	4.6	6.9	5.3	4.6	5.7	23
17	3.9	4.0	45	4.5	7.5	40	4.4	6.3	4.9	4.2	24	9.6
18	3.8	4.0	36	5.1	7.4	15	4.5	22	4.5	4.0	5.6	13
19	3.8	4.1	5.9	237	6.2	7.7	6.1	7.5	3.1	3.7	3.9	20
20	3.8	4.1	5.2	46	5.6	13	5.8	6.5	2.7	3.7	2.7	8.4
21	4.0	4.1	5.0	28	5.7	31	6.0	8.6	4.8	4.2	2.7	8.0
22	4.1	3.9	4.8	9.2	4.9	10	4.9	7.2	5.2	4.2	2.5	7.4
23	4.3	4.0	4.8	174	4.9	8.7	4.1	6.1	5.4	e7.3	2.0	6.9
24	4.1	12	31	20	4.7	8.5	4.2	5.9	5.2	e32	1.9	6.7
25	6.0	3.6	5.4	55	5.7	5.6	4.6	6.1	4.7	11	2.7	6.4
26	3.5	2.9	5.2	9.6	5.3	13	5.3	6.3	34	46	4.5	83
27	3.4	2.6	5.0	7.3	5.1	20	5.2	5.4	29	21	3.6	24
28	3.6	2.5	4.9	7.3	4.2	6.3	5.9	3.7	11	7.4	99	11
29	3.8	2.4	5.0	6.8	---	6.3	5.1	4.5	5.3	4.2	9.7	7.4
30	3.9	3.0	4.9	6.5	---	7.5	4.3	8.5	5.0	e3.6	123	6.9
31	4.0	---	5.0	6.1	---	33	---	6.8	---	3.0	178	---
TOTAL	231.2	119.8	385.1	832.8	288.5	513.2	185.9	338.5	292.0	398.4	505.6	762.4
MEAN	7.458	3.993	12.42	26.86	10.30	16.55	6.197	10.92	9.733	12.85	16.31	25.41
MAX	116	12	89	237	100	93	23	42	54	73	178	366
MIN	2.8	2.4	2.2	4.4	4.2	4.0	4.1	3.7	2.7	3.0	1.4	3.3
CFSM	0.53	0.28	0.87	1.89	0.73	1.17	0.44	0.77	0.69	0.91	1.15	1.79
IN.	0.61	0.31	1.01	2.18	0.76	1.34	0.49	0.89	0.76	1.04	1.32	2.00

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

	1998	1999	2000	2001	2002
MEAN	8.576	8.912	13.48	23.67	17.50
MAX	16.1	12.9	20.3	29.4	23.3
(WY)	2000	2000	1999	1999	2001
MIN	4.71	3.99	10.1	17.1	10.3
(WY)	1999	2002	2001	2000	2002

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	6681.7		4853.4		17.57	
ANNUAL MEAN	18.31		13.30		21.5	
HIGHEST ANNUAL MEAN					13.3	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	248	Jul 4	366	Sep 1	366	Sep 1 2002
LOWEST DAILY MEAN	2.2	Dec 7	1.4	Aug 2	1.4	Aug 2 2002
ANNUAL SEVEN-DAY MINIMUM	2.3	Dec 3	1.9	Aug 1	1.9	Aug 1 2002
MAXIMUM PEAK FLOW			1240	Sep 1	2860	Sep 15 2002
MAXIMUM PEAK STAGE			11.32	Sep 1	16.41	Sep 15 2000
INSTANTANEOUS LOW FLOW			1.2	Aug 2	1.2*	Oct 17 1998
ANNUAL RUNOFF (CFSM)	1.29		0.94		1.24	
ANNUAL RUNOFF (INCHES)	17.50		12.71		16.81	
10 PERCENT EXCEEDS	40		27		43	
50 PERCENT EXCEEDS	7.6		5.2		7.2	
90 PERCENT EXCEEDS	3.5		2.9		3.3	

e Estimated.

