

## CAPE FEAR RIVER BASIN

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°07'13", long 79°42'30", Guilford County, Hydrologic Unit 03030002, on left bank at downstream of bridge on Secondary Road 2832, 4.2 mi upstream from mouth, 5.8 mi northeast of post office in Greensboro.

DRAINAGE AREA.--37.1 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to October 1990, August 1998 to current year.

REVISED RECORDS.--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above NGVD of 1929 (levels by U. S. Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Diurnal fluctuation at low flow caused by mills upstream from station. Diversions into basin from Greensboro and Proximity Mills enter upstream from the station. Maximum discharge for period of record, 9,140 ft<sup>3</sup>/s, from rating curve extended above 2,900 ft<sup>3</sup>/s on basis of contracted-opening measurements at gage heights 14.15 ft, 15.96 ft and 16.63 ft. Maximum gage height for period of record, from floodmarks. Minimum discharge for current water year also occurred on Aug. 11, 22.

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	23	23	25	22	26	23	72	22	36	20	16	1220
2	23	23	22	21	26	144	30	61	36	25	16	60
3	23	24	22	23	26	153	27	26	21	38	16	31
4	23	22	22	33	27	47	27	60	19	96	17	24
5	23	23	22	33	23	32	26	33	18	36	17	21
6	23	22	21	186	32	29	24	24	61	21	17	20
7	22	24	21	65	226	29	26	22	76	19	16	19
8	21	24	22	36	55	27	26	23	23	19	17	19
9	20	23	22	26	41	30	24	21	22	19	18	18
10	22	24	89	26	46	29	28	20	22	19	18	20
11	23	22	183	24	38	25	24	23	19	98	18	18
12	22	22	30	25	30	56	26	24	19	23	17	19
13	23	22	27	24	28	69	26	53	19	20	18	18
14	176	21	23	23	25	37	25	58	22	29	16	21
15	45	22	21	23	26	31	37	27	20	22	31	134
16	26	22	21	22	27	31	24	23	18	19	29	39
17	23	22	37	21	29	75	23	23	19	18	50	22
18	23	22	119	22	29	51	23	39	20	21	44	20
19	22	21	28	339	27	34	26	23	18	18	22	40
20	20	22	22	186	25	38	26	22	18	17	22	21
21	22	22	22	71	27	77	23	23	18	18	16	18
22	22	22	22	38	26	38	23	22	20	39	16	19
23	22	21	21	332	26	31	22	20	20	51	17	19
24	23	37	61	89	24	29	21	19	20	64	15	20
25	26	26	24	150	25	27	22	20	18	35	15	18
26	23	23	22	51	26	30	22	23	36	101	21	122
27	22	22	22	37	25	55	23	20	48	59	18	61
28	22	22	22	36	25	28	24	20	40	36	126	31
29	22	23	22	32	---	26	24	20	23	21	32	22
30	22	25	22	27	---	29	22	20	21	19	168	21
31	22	---	22	25	---	53	---	24	---	17	268	---
TOTAL	874	693	1081	2068	1016	1413	796	858	790	1057	1147	2155
MEAN	28.19	23.10	34.87	66.71	36.29	45.58	26.53	27.68	26.33	34.10	37.00	71.83
MAX	176	37	183	339	226	153	72	61	76	101	268	1220
MIN	20	21	21	21	23	23	21	19	18	17	15	18
CFSM	0.76	0.62	0.94	1.80	0.98	1.23	0.72	0.75	0.71	0.92	1.00	1.94
IN.	0.88	0.69	1.08	2.07	1.02	1.42	0.80	0.86	0.79	1.06	1.15	2.16

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002,® BY WATER YEAR (WY)

MEAN	42.41	42.46	55.52	71.14	82.66	78.97	65.92	52.68	50.37	51.39	43.31	49.42
MAX	154	120	129	205	185	231	206	177	192	231	112	247
(WY)	1960	1986	1973	1978	1979	1975	1987	1978	1982	1984	1984	1979
MIN	7.71	8.73	13.1	17.3	22.0	31.4	20.3	16.2	10.2	11.2	7.82	8.63
(WY)	1931	1932	1934	1934	1931	1931	1942	1938	1933	1932	1932	1930

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1928 - 2002 <sup>®</sup>	
ANNUAL TOTAL	20514		13948		56.94	
ANNUAL MEAN	56.20		38.21		106	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					30.6	
HIGHEST DAILY MEAN	523	Feb 17	1220	Sep 1	4400	Sep 22 1979
LOWEST DAILY MEAN	20	Oct 9	15	Aug 24	3.4	Aug 28 1932
ANNUAL SEVEN-DAY MINIMUM	22	Nov 13	16	Aug 1	6.2	Aug 28 1930
MAXIMUM PEAK FLOW			3380		9140*	
MAXIMUM PEAK STAGE			13.25		20.12*	
INSTANTANEOUS LOW FLOW			11*		1.6	
ANNUAL RUNOFF (CFSM)	1.51		1.03		1.53	
ANNUAL RUNOFF (INCHES)	20.57		13.99		20.85	
10 PERCENT EXCEEDS	97		59		99	
50 PERCENT EXCEEDS	35		23		31	
90 PERCENT EXCEEDS	22		19		16	

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

