

CAPE FEAR RIVER BASIN

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC

LOCATION.--Lat 36°08'12", long 79°51'40", Guilford County, Hydrologic Unit 03030002, on right bank, 300 ft downstream of U.S. Highway 220 bridge on gravel road to city lift station, 2.9 mi above Lake Brandt dam and 6.3 mi northwest of Greensboro.

DRAINAGE AREA.--15.9 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair 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	1.8	e3.1	e11	e4.9	6.4	3.4	21	2.6	9.3	2.0	0.70	159
2	e1.7	e2.9	e9.2	e5.5	5.6	33	8.9	7.4	4.4	7.0	0.67	16
3	e1.7	e7.1	e8.0	e6.7	5.3	38	7.3	3.1	2.2	17	0.59	7.1
4	e1.6	e4.7	e7.2	e8.9	5.2	14	6.2	7.7	2.0	21	0.57	4.2
5	e1.6	e4.1	e6.7	e8.7	4.7	9.4	5.5	4.4	1.9	6.0	0.52	3.0
6	e20	e3.7	e6.0	e33	7.4	8.4	6.7	3.0	31	2.5	0.52	2.5
7	e14	e7.0	e5.3	e25	75	6.7	4.6	2.7	17	1.9	0.46	2.2
8	e5.7	e4.8	e4.7	e16	26	5.9	4.6	2.6	3.5	1.7	0.50	2.0
9	e3.9	e4.2	e4.4	e12	14	5.9	4.5	2.5	2.5	1.5	0.55	1.8
10	e3.1	e8.0	e42	e9.3	15	5.8	6.6	2.4	2.1	1.4	0.50	3.1
11	e2.6	e5.3	e25	e8.4	11	4.8	4.7	2.5	1.9	8.4	0.39	2.2
12	e2.4	e4.4	e11	e7.5	7.6	13	4.5	2.8	1.8	2.1	0.34	1.7
13	e2.3	e3.9	e7.4	e6.7	6.6	14	4.6	9.1	1.8	1.7	0.25	1.6
14	e34	e3.6	e5.6	e6.1	5.8	8.0	9.0	7.1	2.3	3.6	0.16	3.1
15	e23	e6.4	e4.8	e5.7	5.4	6.5	13	2.8	1.8	2.0	1.3	49
16	e12	e4.6	e4.5	e5.5	5.5	5.8	5.2	2.5	1.7	1.7	1.6	27
17	e6.5	e3.8	e23	e5.4	5.0	13	4.4	2.6	1.7	1.5	0.91	6.2
18	e5.6	e3.4	e12	e5.3	4.7	12	3.9	6.4	1.7	1.4	1.7	10
19	e4.7	e3.2	e8.6	e60	4.4	7.5	4.6	2.5	1.6	1.3	0.66	17
20	e4.2	e3.0	e7.4	e45	4.5	8.4	4.5	2.2	1.8	1.3	0.36	5.9
21	e4.0	e2.8	e5.5	e23	4.7	18	3.6	2.2	1.7	1.2	0.28	4.1
22	e12	e3.0	e4.9	e17	4.3	9.1	3.4	2.1	1.5	1.1	0.32	3.4
23	e6.2	e3.1	e4.8	e98	4.2	6.6	3.0	2.1	1.5	1.3	0.77	3.3
24	e5.0	e12	e11	e78	4.1	5.7	2.8	2.0	1.5	3.9	0.34	2.9
25	e18	e8.0	e7.3	e40	4.0	5.2	3.1	2.0	1.4	3.0	0.14	2.6
26	e8.5	e6.3	e6.2	e27	4.1	46	2.9	2.0	13	15	1.1	45
27	e5.8	e5.1	e5.5	e17	3.9	43	2.7	1.9	15	8.6	0.98	14
28	e4.4	e4.6	e5.3	e12	3.5	15	2.8	1.9	6.8	3.2	9.4	7.0
29	e3.9	e4.3	e5.0	e9.5	---	10	2.7	1.8	2.3	1.4	2.8	4.9
30	e3.6	e12	e7.1	e8.0	---	8.6	2.6	3.3	1.8	1.00	43	3.9
31	e3.3	---	e5.3	6.8	---	18	---	2.7	---	0.81	82	---
TOTAL	227.1	152.4	281.7	621.9	257.9	408.7	163.9	102.9	140.5	127.51	154.38	415.7
MEAN	7.326	5.080	9.087	20.06	9.211	13.18	5.463	3.319	4.683	4.113	4.980	13.86
MAX	34	12	42	98	75	46	21	9.1	31	21	82	159
MIN	1.6	2.8	4.4	4.9	3.5	3.4	2.6	1.8	1.4	0.81	0.14	1.6
CFSM	0.46	0.32	0.57	1.26	0.58	0.83	0.34	0.21	0.29	0.26	0.31	0.87
IN.	0.53	0.36	0.66	1.46	0.60	0.96	0.38	0.24	0.33	0.30	0.36	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	9.157	7.662	10.44	19.14	22.39	27.57	20.22	9.085	8.521	11.15	9.614	31.49
MAX	13.4	9.33	13.4	21.9	30.4	48.8	28.7	14.6	12.6	19.4	14.3	79.5
(WY)	2000	2001	2000	2000	2001	2001	2000	2001	2000	2001	2000	2000
MIN	6.74	5.08	8.86	15.4	9.21	13.2	5.46	3.32	4.68	4.11	4.98	5.95
(WY)	2001	2002	2001	2001	2002	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

	2001	2002	1999	2000	2001	2002
ANNUAL TOTAL	6043.26	3054.59				
ANNUAL MEAN	16.56	8.369	15.50			
HIGHEST ANNUAL MEAN			21.3			2000
LOWEST ANNUAL MEAN			8.37			2002
HIGHEST DAILY MEAN	220	Feb 17	159	Sep 1	557	Sep 15 2000
LOWEST DAILY MEAN	0.54	Sep 19	0.14	Aug 25	0.14	Aug 25 2002
ANNUAL SEVEN-DAY MINIMUM	0.68	Sep 13	0.38	Aug 8	0.38	Aug 8 2002
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			NOT DETERMINED		10.64	Sep 15 2000
INSTANTANEOUS LOW FLOW			0.06	Aug 14	0.06	Aug 14 2002
ANNUAL RUNOFF (CFSM)	1.04		0.53		0.97	
ANNUAL RUNOFF (INCHES)	14.14		7.15		13.24	
10 PERCENT EXCEEDS	40		17		36	
50 PERCENT EXCEEDS	7.2		4.6		6.9	
90 PERCENT EXCEEDS	2.2		1.5		2.1	

e Estimated.

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued

