

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 sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Sept. 19, 20, 2001.

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	14	5.0	6.2	5.2	7.3	35	182	10	27	6.2	7.1	13
2	8.6	5.9	6.1	5.3	6.6	33	61	9.1	20	9.1	4.4	3.3
3	8.5	5.7	5.9	5.1	6.2	34	51	7.8	9.9	3.9	2.9	2.1
4	8.1	7.6	5.7	5.2	5.8	84	38	7.3	8.4	47	2.2	17
5	7.8	7.3	5.8	5.3	6.0	67	31	7.2	7.1	41	1.9	5.9
6	7.9	6.5	5.9	5.3	5.7	45	27	6.7	12	16	1.8	4.3
7	7.4	6.3	5.9	5.3	5.5	40	25	6.2	18	9.7	1.4	1.1
8	7.3	6.5	5.8	18	5.5	38	22	6.1	8.4	23	1.3	2.0
9	6.6	17	5.6	7.8	5.6	36	20	5.8	7.0	14	1.2	1.9
10	7.0	17	5.7	5.8	8.9	33	19	5.8	5.7	52	1.4	2.5
11	7.0	5.1	5.8	5.7	5.6	3.0	18	5.9	5.3	15	76	1.0
12	6.6	4.6	5.7	5.9	9.6	32	17	11	5.2	9.4	30	.91
13	6.5	4.6	5.4	5.7	13	40	20	12	7.4	9.4	9.4	.73
14	6.0	26	7.5	5.8	14	32	16	6.4	13	6.9	5.4	.82
15	6.1	7.8	6.1	6.4	13	72	15	6.1	5.8	5.4	3.1	.70
16	6.2	5.4	32	6.2	21	52	14	35	4.9	4.7	2.4	.65
17	6.5	6.9	47	5.9	220	41	13	26	4.1	5.2	1.8	.74
18	5.8	4.9	13	30	62	36	15	12	3.7	17	10	.56
19	5.8	6.0	14	93	47	34	12	8.7	3.5	10	9.1	.54
20	5.4	8.8	12	91	40	63	11	10	3.1	5.5	2.4	16
21	6.4	4.9	8.3	35	37	128	11	17	2.9	4.2	1.6	1.9
22	6.0	4.3	7.6	22	40	64	10	12	11	3.6	1.5	1.2
23	5.6	4.4	6.0	16	40	36	9.9	16	17	3.6	1.3	.81
24	5.6	4.4	6.0	11	37	25	14	8.5	4.7	4.1	23	57
25	6.0	32	5.8	8.2	63	14	51	9.0	6.8	5.3	2.5	24
26	6.2	27	5.5	7.2	48	7.3	22	108	6.8	69	1.6	8.6
27	6.0	13	5.9	7.1	41	5.3	15	25	43	127	2.2	3.4
28	6.0	9.5	5.9	6.3	37	4.6	13	21	9.3	23	3.6	2.2
29	5.8	8.2	5.7	6.3	---	138	11	14	6.2	18	1.3	1.8
30	5.3	7.2	5.6	25	---	e167	10	10	4.5	26	1.1	1.8
31	4.9	---	5.3	10	---	75	---	8.1	---	7.5	4.2	---
TOTAL	208.9	279.8	274.7	478.0	851.3	1514.2	793.9	453.7	291.7	601.7	219.1	178.46
MEAN	6.74	9.33	8.86	15.4	30.4	48.8	26.5	14.6	9.72	19.4	7.07	5.95
MAX	14	32	47	93	220	167	182	108	43	127	76	57
MIN	4.9	4.3	5.3	5.1	5.5	3.0	9.9	5.8	2.9	3.6	1.1	.54
CFSM	.42	.59	.56	.97	1.91	3.07	1.66	.92	.61	1.22	.44	.37
IN.	.49	.65	.64	1.12	1.99	3.54	1.86	1.06	.68	1.41	.51	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	10.1	8.95	11.1	18.7	28.9	34.8	27.6	12.0	9.80	13.5	11.2	37.4
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	8.58	8.86	15.4	27.4	20.7	26.5	9.30	7.08	7.35	7.07	5.95
(WY)	2001	2000	2001	2001	2000	2000	2001	2000	1999	2000	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1999 - 2001
ANNUAL TOTAL	7462.1	6145.46	
ANNUAL MEAN	20.4	16.8	19.1
HIGHEST ANNUAL MEAN			21.3
LOWEST ANNUAL MEAN			16.8
HIGHEST DAILY MEAN	557	220	557
LOWEST DAILY MEAN	2.2	.54	.54
ANNUAL SEVEN-DAY MINIMUM	3.0	.68	.68
MAXIMUM PEAK STAGE		7.60	10.64
INSTANTANEOUS LOW FLOW		.51*	.51
ANNUAL RUNOFF (CFSM)	1.28	1.06	1.20
ANNUAL RUNOFF (INCHES)	17.46	14.38	16.29
10 PERCENT EXCEEDS	41	40	40
50 PERCENT EXCEEDS	8.5	7.3	8.2
90 PERCENT EXCEEDS	4.3	2.5	3.4

e Estimated.

* See REMARKS.

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

