

CAPE FEAR RIVER BASIN

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'49", Durham County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream of Burdens Creek.

DRAINAGE AREA.--21.1 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to January 1994, August 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 229.01 ft above NGVD of 1929, by levels. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. An average of 48.5 ft<sup>3</sup>/s was diverted from the Neuse River basin for municipal water supply; 20.0 ft<sup>3</sup>/s was returned to the Cape Fear River basin, of which 5.2 ft<sup>3</sup>/s entered upstream from station as treated effluent. About 11.6 ft<sup>3</sup>/s was returned to the Neuse River basin as treated effluent. Maximum discharge for period of record from rating curve extended above 2,000 ft<sup>3</sup>/s, by logarithmic plotting.

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	5.9	7.3	3.9	4.4	10	7.9	72	7.2	3.7	6.1	4.7	281
2	6.2	7.3	3.8	4.9	9.8	8.3	20	7.2	6.1	6.2	4.8	42
3	6.4	6.5	4.0	4.9	9.8	14	10	6.9	3.8	5.9	5.2	15
4	6.5	6.5	4.0	5.8	10	8.6	7.8	6.8	3.4	5.3	4.6	12
5	6.6	7.2	4.0	6.7	11	7.2	7.4	8.5	4.0	5.2	4.9	11
6	8.2	7.0	4.0	16	11	6.5	6.9	6.3	3.6	5.7	4.9	11
7	9.3	7.0	3.9	33	134	6.2	7.3	5.6	3.6	5.4	4.5	11
8	7.3	7.0	3.6	9.7	104	6.0	7.8	5.3	3.8	6.3	4.3	11
9	7.1	6.8	3.5	4.8	19	5.7	7.8	5.1	3.9	6.4	4.0	12
10	7.3	6.8	3.9	4.9	12	5.6	13	4.9	4.7	9.0	3.7	12
11	7.4	5.9	17	5.2	11	5.4	10	4.5	5.1	15	3.7	12
12	7.3	6.7	4.9	3.6	9.2	5.2	8.7	4.4	5.3	7.0	3.8	12
13	7.2	7.1	3.1	7.3	8.4	5.7	9.0	4.8	5.3	5.3	4.3	12
14	10	7.2	2.8	4.1	8.3	5.2	9.7	5.3	5.4	5.0	5.2	14
15	63	7.5	2.8	2.8	8.7	4.5	11	4.6	4.9	5.5	5.8	34
16	11	7.4	2.8	2.6	8.6	4.3	11	3.9	4.5	6.0	5.7	94
17	8.1	6.7	3.1	2.6	8.4	5.3	11	3.7	4.7	6.0	7.5	40
18	7.2	5.6	6.9	2.9	8.6	7.1	10	3.5	5.1	6.1	5.8	13
19	6.8	6.1	4.6	25	8.8	6.5	10	3.5	5.3	6.7	8.6	41
20	6.5	6.3	3.8	353	8.9	6.7	11	3.3	5.1	5.9	5.0	27
21	6.3	6.1	3.7	42	9.3	11	10	3.3	4.7	9.1	5.0	5.9
22	7.1	5.3	3.6	14	9.4	19	9.9	3.3	4.1	6.0	4.8	5.0
23	7.6	4.8	3.5	138	8.9	12	9.3	3.3	3.7	5.4	4.8	5.3
24	7.7	4.9	3.8	293	8.7	10	8.8	3.2	4.1	5.1	4.6	5.3
25	8.0	4.8	3.9	66	8.8	11	8.9	3.1	4.3	23	5.0	5.2
26	7.9	4.6	3.9	27	8.6	12	8.5	3.1	4.7	50	43	5.5
27	7.2	4.3	4.1	12	8.4	44	7.7	3.1	5.2	8.8	18	6.1
28	7.1	4.2	4.1	10	8.1	15	7.6	3.4	7.2	5.5	18	6.3
29	7.5	4.2	4.1	9.4	---	9.9	8.1	3.4	11	4.9	7.8	5.4
30	7.8	4.2	4.1	9.6	---	9.4	7.6	3.6	5.5	4.8	11	5.8
31	7.6	---	4.3	9.2	---	9.8	---	3.5	---	4.9	132	---
TOTAL	287.1	183.3	133.5	1134.4	489.7	295.0	347.8	141.6	145.8	257.5	355.0	772.8
MEAN	9.261	6.110	4.306	36.59	17.49	9.516	11.59	4.568	4.860	8.306	11.45	25.76
MAX	63	7.5	17	353	134	44	72	8.5	11	50	132	281
MIN	5.9	4.2	2.8	2.6	8.1	4.3	6.9	3.1	3.4	4.8	3.7	5.0
CFSM	0.44	0.29	0.20	1.73	0.83	0.45	0.55	0.22	0.23	0.39	0.54	1.22
IN.	0.51	0.32	0.24	2.00	0.86	0.52	0.61	0.25	0.26	0.45	0.63	1.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002,® BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	18.27	24.54	29.46	56.33	56.34	59.25	34.32	18.49	11.86	14.44	16.63	33.82
MAX	60.2	82.7	86.3	134	111	128	84.5	59.1	44.4	48.6	66.7	247
(WY)	1996	1993	1984	1998	1998	1998	1993	1990	1992	1989	1986	1999
MIN	3.27	3.89	4.31	12.6	10.8	8.18	4.00	4.57	4.55	3.33	3.50	2.49
(WY)	1986	1985	2002	1986	1991	1985	1985	2002	1987	1983	1983	1983

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1983 - 2002®

ANNUAL TOTAL	7876.5	4543.5	
ANNUAL MEAN	21.58	12.45	31.40
HIGHEST ANNUAL MEAN			49.1
LOWEST ANNUAL MEAN			12.4
HIGHEST DAILY MEAN	722	Mar 30	353
LOWEST DAILY MEAN	2.2	Jun 21	2.6
ANNUAL SEVEN-DAY MINIMUM	3.4	Jul 31	3.2
MAXIMUM PEAK FLOW			467
MAXIMUM PEAK STAGE			9.49
INSTANTANEOUS LOW FLOW			2.1
ANNUAL RUNOFF (CFSM)	1.02		0.59
ANNUAL RUNOFF (INCHES)	13.89		8.01
10 PERCENT EXCEEDS	30		14
50 PERCENT EXCEEDS	7.6		6.5
90 PERCENT EXCEEDS	4.0		3.7

® See PERIOD OF RECORD.  
\* See REMARKS.

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC--Continued

