

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 mi².

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 sea level, by levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those discharges below 10 ft³/s, which are poor. An average of 59.0 ft³/s was diverted from the Neuse River basin for municipal water supply; 21.0 ft³/s was returned to the Cape Fear River basin, of which 5.8 ft³/s entered upstream from station as treated effluent. About 12.7 ft³/s was returned to the Neuse River basin as treated effluent. Maximum discharge for period of record from rating curve extended above 2,000 ft³/s, by logarithmic plotting.

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	5.8	3.5	5.1	18	20	e14	345	e6.0	e80	e5.0	e3.0	18
2	6.4	3.7	e5.1	18	19	e13	402	e5.9	e50	e4.9	2.6	16
3	6.1	3.9	e5.1	18	17	e20	76	e5.8	e30	e4.8	3.1	11
4	5.8	3.9	e5.1	19	17	e200	30	e5.7	e18	e5.0	3.6	10
5	5.9	4.5	e5.2	19	21	e130	16	e5.5	e12	e5.0	3.8	10
6	5.7	5.2	e5.2	18	21	e80	11	e5.4	e8.5	e4.9	4.2	9.1
7	5.0	5.5	5.2	19	19	e48	10	e5.3	e6.0	e4.8	4.2	8.5
8	4.7	5.9	5.4	21	18	e30	9.1	e5.0	e5.5	e7.0	4.2	8.2
9	5.2	6.2	5.4	22	e17	e25	9.0	e5.0	e5.0	e7.8	3.8	9.4
10	5.2	6.5	5.4	22	e16	e20	8.4	e4.9	e4.4	e8.0	3.8	11
11	5.0	6.5	5.6	21	e16	e16	8.1	e4.8	e4.0	e6.2	7.7	11
12	4.7	6.9	5.6	22	e15	e14	7.6	e4.8	e3.5	e5.0	87	9.3
13	4.4	7.7	5.4	21	e25	e14	7.3	e5.0	e6.0	e5.0	34	9.3
14	4.1	9.9	5.7	22	e40	e13	6.4	e4.6	e30	e4.9	e32	9.1
15	3.9	7.5	5.6	23	e36	e15	6.2	e4.0	e15	e4.8	e18	9.4
16	4.7	7.3	6.7	23	e30	e16	6.5	e20	e6.0	e4.7	11	8.6
17	4.8	7.3	153	22	e400	e13	6.8	e10	e4.5	e4.5	11	8.9
18	4.9	7.1	170	23	e120	e8.0	6.8	e5.2	e3.3	e4.4	11	8.8
19	4.8	7.6	29	23	e60	e6.0	6.7	e5.1	e2.9	e4.3	12	8.7
20	4.5	9.8	29	50	e35	e9.0	6.4	e5.0	e2.4	e4.1	13	8.6
21	4.5	8.7	25	34	e21	459	5.9	e5.0	e2.2	e4.0	14	9.5
22	4.5	8.2	23	23	e19	280	6.0	e5.5	e3.8	e4.0	11	8.5
23	5.0	7.4	21	20	e17	37	e6.0	e6.0	e6.0	e4.0	10	8.3
24	4.8	7.2	20	19	e18	15	e6.0	e5.6	e5.2	e8.0	23	19
25	4.7	16	19	18	e19	11	e9.0	e5.3	e40	e16	12	34
26	4.4	42	19	17	e20	9.7	e7.5	e42	e19	e18	9.8	8.2
27	4.1	6.8	19	16	e17	8.8	e6.0	e17	e10	e90	9.9	6.2
28	3.6	5.7	19	16	e15	8.3	e5.0	e7.0	e8.5	e18	14	5.5
29	3.3	5.5	18	18	---	125	e5.4	e6.1	e7.0	e4.0	12	5.2
30	3.4	5.2	19	21	---	722	e5.6	e5.6	e6.0	e5.0	38	5.4
31	3.5	---	18	22	---	224	---	e5.0	---	e3.8	188	---
TOTAL	147.4	239.1	687.8	668	1108	2603.8	1047.7	233.1	404.7	279.9	614.7	312.7
MEAN	4.75	7.97	22.2	21.5	39.6	84.0	34.9	7.52	13.5	9.03	19.8	10.4
MAX	6.4	42	170	50	400	722	402	42	80	90	188	34
MIN	3.3	3.5	5.1	16	15	6.0	5.0	4.0	2.2	3.8	2.6	5.2
CFSM	.23	.38	1.05	1.02	1.88	3.98	1.66	.36	.64	.43	.94	.49
IN.	.26	.42	1.21	1.18	1.95	4.59	1.85	.41	.71	.49	1.08	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,® BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	18.8	25.6	30.9	57.4	58.6	62.2	35.7	19.3	12.3	14.8	16.9	34.3							
MAX	60.2	82.7	86.3	134	111	128	84.5	59.1	44.4	48.6	66.7	247							
(WY)	1986	1993	1984	1998	1998	1998	1993	1990	1992	1989	1986	1999							
MIN	3.27	3.89	4.32	12.6	10.8	8.18	4.00	6.98	4.55	3.33	3.50	2.49							
(WY)	1986	1985	1989	1986	1991	1985	1985	1999	1987	1983	1983	1983							

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1983 - 2001®

ANNUAL TOTAL	8737.5	8346.9	
ANNUAL MEAN	23.9	22.9	32.5
HIGHEST ANNUAL MEAN			49.1
LOWEST ANNUAL MEAN			14.7
HIGHEST DAILY MEAN	579	Jan 31	722
LOWEST DAILY MEAN	3.3	Oct 29	2.2
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 28	3.4
MAXIMUM PEAK FLOW			902
MAXIMUM PEAK STAGE			10.23
INSTANTANEOUS LOW FLOW			NOT DETERMINED
ANNUAL RUNOFF (CFSM)	1.13		1.08
ANNUAL RUNOFF (INCHES)	15.40		14.72
10 PERCENT EXCEEDS	45		30
50 PERCENT EXCEEDS	11		8.3
90 PERCENT EXCEEDS	5.2		4.4

e Estimated.
® See PERIOD OF RECORD.
* See REMARKS.

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

