

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'47", 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.--Records fair except those for estimated daily discharges, which are poor. An average of 47.9 ft<sup>3</sup>/s was diverted from the Neuse River basin for municipal water supply; 16.2 ft<sup>3</sup>/s was returned to the Cape Fear River basin, of which 0.21 ft<sup>3</sup>/s entered upstream from station as treated effluent. About 13.0 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	e7.2	e16	e8.7	e26	e56	17	17	6.4	8.2	46	4.5
2	e12	e7.2	e15	e8.6	e20	e40	86	13	14	12	10	4.2
3	e24	e8.3	e13	e8.8	e23	e26	120	9.3	12	11	7.2	3.8
4	e20	e11	e11	e8.7	e40	16	24	8.3	8.5	7.7	6.2	3.6
5	e9.4	e11	e10	e9.1	e31	14	16	7.9	6.8	7.7	5.6	3.8
6	e8.6	e8.9	e10	e9.9	e23	12	14	22	7.3	8.1	4.9	4.5
7	e7.7	e7.7	e12	e11	e18	12	16	16	7.3	12	4.5	4.3
8	e8.1	e7.4	e12	e9.9	e15	102	66	9.2	20	210	5.0	4.3
9	e7.2	e7.7	e16	e9.5	e14	114	173	8.5	13	20	214	4.3
10	e7.0	e7.5	e61	e9.4	e13	24	31	8.1	10	7.9	158	3.9
11	e7.1	e8.5	e69	e9.3	e13	18	19	7.9	9.5	6.8	17	4.0
12	e12	e23	e33	e9.3	e11	23	15	7.7	8.1	6.4	9.9	4.4
13	e62	e85	e18	e19	e11	16	33	7.8	8.5	6.3	22	5.4
14	e63	e35	e14	e157	e12	13	23	7.0	e8.2	5.9	65	5.9
15	e17	e14	e14	e169	e14	13	15	6.8	e7.8	5.4	11	6.7
16	e8.5	e8.9	e14	e53	e14	40	12	7.5	7.8	4.7	7.8	5.6
17	e5.8	e8.4	e13	e34	e13	282	11	7.3	6.9	6.2	20	5.0
18	e4.7	e8.6	e9.8	e28	e13	132	11	6.8	6.2	13	9.9	4.8
19	e6.4	e9.4	e8.7	e20	e11	29	11	6.7	6.6	9.8	7.5	5.4
20	e7.2	e8.3	e8.1	e16	e11	20	11	9.7	12	140	6.2	5.6
21	e6.7	e8.4	e8.3	e16	e11	15	11	10	8.3	13	5.5	18
22	e7.3	e11	e9.2	e15	e11	12	10	7.0	7.7	8.2	5.4	8.0
23	e6.7	e22	e16	e14	e13	44	9.5	7.1	8.2	6.2	6.1	6.3
24	e7.0	e29	e41	e13	e24	33	8.7	9.8	7.4	5.4	5.9	5.6
25	e7.9	e24	e22	e12	e54	18	8.8	8.4	6.5	5.8	5.7	5.3
26	e7.6	e17	e16	e12	e35	15	8.8	7.7	6.2	6.0	5.1	5.3
27	e7.3	e22	e12	e12	e25	13	8.6	6.0	7.0	5.3	4.6	5.0
28	e7.2	e26	e10	e12	e35	92	8.3	4.7	15	5.6	4.3	4.5
29	e7.7	e42	e9.3	e14	---	135	8.8	3.9	16	83	4.6	4.5
30	e7.1	e36	e9.3	e28	---	28	9.2	4.2	9.8	24	4.9	4.6
31	e7.1	---	e9.5	e38	---	18	---	5.7	---	18	4.9	---
TOTAL	387.3	530.4	540.2	794.2	554	1,425	815.7	269.0	279.0	689.6	694.7	161.1
MEAN	12.5	17.7	17.4	25.6	19.8	46.0	27.2	8.68	9.30	22.2	22.4	5.37
MAX	63	85	69	169	54	282	173	22	20	210	214	18
MIN	4.7	7.2	8.1	8.6	11	12	8.3	3.9	6.2	4.7	4.3	3.6
CFSM	0.59	0.84	0.83	1.21	0.94	2.18	1.29	0.41	0.44	1.05	1.06	0.25
IN.	0.68	0.94	0.95	1.40	0.98	2.51	1.44	0.47	0.49	1.22	1.22	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, @ BY WATER YEAR (WY)

MEAN	20.6	24.6	32.0	51.4	54.8	58.0	35.2	18.7	12.5	15.1	17.4	31.5
MAX	83.8	82.7	86.7	134	111	128	84.5	59.1	44.4	48.6	66.7	247
(WY)	(2003)	(1993)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005 <sup>@</sup>	
ANNUAL TOTAL	7,565.1		7,140.2		31.2	
ANNUAL MEAN	20.7		19.6		12.4	
HIGHEST ANNUAL MEAN					49.1	1996
LOWEST ANNUAL MEAN					12.4	2002
HIGHEST DAILY MEAN	177	Aug 31	282	Mar 17	3,350	Sep 6, 1996
LOWEST DAILY MEAN	4.7	Oct 18	3.6	Sep 4	0.74	Jul 16, 1991
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 17	4.1	Sep 2	1.5	Oct 7, 1985
MAXIMUM PEAK FLOW			NOT DETERMINED		5,140*	Sep 6, 1996
MAXIMUM PEAK STAGE			NOT DETERMINED		13.92	Sep 6, 1996
INSTANTANEOUS LOW FLOW			2.3	Sep 7	0.76	Oct 7, 1985
ANNUAL RUNOFF (CFSM)	0.980		0.927		1.48	
ANNUAL RUNOFF (INCHES)	13.34		12.59		20.09	
10 PERCENT EXCEEDS	47		35		58	
50 PERCENT EXCEEDS	12		9.9		9.2	
90 PERCENT EXCEEDS	7.4		5.4		4.1	

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

e Estimated

