

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 mi².

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 41.3 ft³/s was diverted from the Neuse River basin for municipal water supply; 16.0 ft³/s was returned to the Cape Fear River basin, of which 0.19 ft³/s entered upstream from station as treated effluent. About 13.2 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	5.3	e9.4	10	16	16	92	17	7.8	8.8	e25	e55
2	6.5	4.3	e8.7	9.9	14	14	40	e70	7.5	8.3	e26	e13
3	6.5	4.6	e8.8	9.6	80	14	19	e152	7.3	14	e27	e9.4
4	5.9	4.7	e10	9.6	84	13	15	e78	24	21	e17	e8.2
5	6.2	4.8	66	11	24	12	14	e23	16	9.7	e17	e8.6
6	6.3	5.1	14	21	21	12	14	15	8.7	8.1	e51	e14
7	6.3	6.1	8.8	14	121	14	13	12	8.2	7.8	e10	e51
8	6.8	5.3	10	11	33	13	13	11	9.8	7.3	e7.2	e74
9	9.0	5.2	12	12	20	12	14	10	13	7.1	e6.3	e59
10	9.1	4.7	32	14	17	12	11	9.9	9.3	6.7	e6.5	e30
11	7.7	4.6	266	11	15	11	11	9.1	8.5	30	e7.0	e13
12	6.7	5.1	69	11	47	11	24	9.2	15	36	e13	e9.6
13	6.3	5.5	20	12	66	10	47	8.8	9.0	e33	e80	e8.8
14	6.6	5.9	194	11	25	9.7	33	8.4	8.6	e7.8	e113	e9.2
15	24	5.3	190	11	21	59	22	8.0	8.3	e7.3	e104	e11
16	9.6	5.2	30	11	48	167	16	7.7	8.5	e6.7	e43	e14
17	6.5	5.4	73	10	38	155	14	7.7	8.5	e15	e13	e49
18	6.3	5.3	64	23	27	53	13	8.0	8.6	e65	e9.5	e114
19	e5.0	24	24	20	27	71	13	8.1	7.5	e12	e8.4	e33
20	4.7	35	18	13	21	28	13	7.7	6.7	e6.4	e8.2	e11
21	4.8	e21	14	11	16	21	13	8.0	6.6	e5.8	e12	e9.0
22	4.9	e10	14	11	14	17	12	7.8	7.5	e16	e32	e8.3
23	5.0	e9.5	13	11	13	15	12	59	9.7	e77	e9.6	e8.3
24	4.6	e8.9	17	9.5	12	14	11	19	21	e13	e8.6	e8.4
25	3.8	e8.6	18	9.3	12	13	9.6	11	11	e6.4	e7.2	e7.4
26	4.3	e8.3	13	9.8	11	13	11	9.2	19	e6.6	e7.4	e7.4
27	5.9	e7.8	12	10	23	12	24	8.4	16	e15	e8.4	e12
28	7.2	e8.8	11	13	36	12	14	8.0	10	e55	e7.2	e31
29	70	e10	11	19	22	13	11	7.1	15	e38	e14	e22
30	23	e10	11	26	---	13	9.5	10	11	e76	e123	e10
31	7.4	---	11	26	---	15	---	9.1	---	e21	e177	---
TOTAL	293.3	254.3	1,272.7	410.7	924	864.7	578.1	637.2	327.6	647.8	998.5	718.6
MEAN	9.46	8.48	41.1	13.2	31.9	27.9	19.3	20.6	10.9	20.9	32.2	24.0
MAX	70	35	266	26	121	167	92	152	24	77	177	114
MIN	3.8	4.3	8.7	9.3	11	9.7	9.5	7.1	6.6	5.8	6.3	7.4
CFSM	0.45	0.40	1.95	0.63	1.51	1.32	0.91	0.97	0.52	0.99	1.53	1.14
IN.	0.52	0.45	2.24	0.72	1.63	1.52	1.02	1.12	0.58	1.14	1.76	1.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, @ BY WATER YEAR (WY)

MEAN	21.0	24.9	32.7	52.6	56.6	58.6	35.6	19.2	12.7	14.8	17.2	32.7
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	12,854.6		7,927.5		31.8	
ANNUAL MEAN	35.2		21.7		49.1	
HIGHEST ANNUAL MEAN					12.4	
LOWEST ANNUAL MEAN					12.4	
HIGHEST DAILY MEAN	576	Apr 10	266	Dec 11	3,350	Sep 6, 1996
LOWEST DAILY MEAN	3.8	Oct 25	3.8	Oct 25	0.74	Jul 16, 1991
ANNUAL SEVEN-DAY MINIMUM	4.6	Oct 20	4.6	Oct 20	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			NOT DETERMINED		0.76	Oct 7, 1985
ANNUAL RUNOFF (CFSM)	1.67		1.03		1.51	
ANNUAL RUNOFF (INCHES)	22.66		13.98		20.46	
10 PERCENT EXCEEDS	76		51		60	
50 PERCENT EXCEEDS	12		11		9.2	
90 PERCENT EXCEEDS	6.4		6.4		4.0	

@ See PERIOD OF RECORD.

* See REMARKS.

e Estimated.

