

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'21", long 78°54'48", 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 39.9 ft³/s was diverted from the Neuse River basin for municipal water supply; 17.4 ft³/s was returned to the Cape Fear River basin, of which 7.4 ft³/s entered upstream from station as treated effluent. About 15.9 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	20	12	44	74	119	25	8.9	e50	12	8.0	16
2	6.6	14	13	50	23	118	15	8.6	e30	59	11	9.0
3	7.0	13	13	49	18	68	12	8.0	e16	64	9.7	7.4
4	7.1	13	12	48	20	25	11	7.3	e20	14	8.2	7.3
5	6.8	15	222	22	35	42	9.7	7.4	e18	10	12	12
6	6.6	151	318	18	17	184	9.9	19	e14	8.5	13	7.3
7	6.9	102	191	15	192	161	125	12	e20	8.5	10	6.0
8	6.7	21	66	14	210	29	231	9.2	e60	8.3	15	16
9	7.0	16	39	13	33	20	457	9.2	e80	8.2	15	16
10	7.3	15	30	13	38	16	576	7.4	e50	7.8	24	8.7
11	960	17	69	12	63	13	403	6.7	e40	7.7	14	7.3
12	545	78	107	9.4	25	13	82	6.9	e30	8.0	10	6.8
13	35	243	156	9.9	17	12	35	6.8	e34	7.1	8.5	6.3
14	18	89	400	9.7	14	23	31	6.6	e24	24	16	6.3
15	14	25	95	9.6	17	13	30	6.7	e18	12	13	6.9
16	188	19	30	9.7	20	169	18	12	e22	9.3	47	8.4
17	94	150	22	10	23	167	12	7.5	e30	9.9	17	8.6
18	18	241	17	9.5	49	31	11	6.4	e20	8.9	10	39
19	12	55	18	9.2	138	20	10	23	e50	8.3	8.8	88
20	11	23	91	9.6	73	365	10	12	e70	7.4	8.1	15
21	13	18	116	9.9	35	370	10	9.3	e72	7.7	7.8	9.8
22	44	16	26	9.8	148	59	11	109	e28	7.5	20	e9.4
23	26	15	18	9.6	368	23	9.6	257	e14	20	16	e40
24	14	13	56	10	80	16	8.8	94	e10	41	8.1	e120
25	12	13	286	9.6	25	14	9.8	91	e10	17	7.7	e70
26	11	13	170	9.3	18	12	31	121	e8.8	8.9	7.6	e30
27	12	13	32	9.8	149	11	34	22	e7.8	7.5	7.1	e14
28	43	12	20	10	496	10	14	e10	e7.4	7.8	7.1	e8.0
29	240	11	16	10	---	11	11	e16	7.5	7.4	6.9	6.8
30	175	12	14	29	---	95	9.7	e22	7.9	12	7.1	6.6
31	45	---	13	162	---	174	---	e32	---	8.9	7.7	---
TOTAL	2,598.1	1,456	2,688	663.6	2,418	2,403	2,262.5	974.9	869.4	448.6	381.4	612.9
MEAN	83.8	48.5	86.7	21.4	86.4	77.5	75.4	31.4	29.0	14.5	12.3	20.4
MAX	960	243	400	162	496	370	576	257	80	64	47	120
MIN	6.1	11	12	9.2	14	10	8.8	6.4	7.4	7.1	6.9	6.0
CFSM	3.97	2.30	4.11	1.01	4.09	3.67	3.57	1.49	1.37	0.69	0.58	0.97
IN.	4.58	2.57	4.74	1.17	4.26	4.24	3.99	1.72	1.53	0.79	0.67	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003,® BY WATER YEAR (WY)

MEAN	21.5	25.7	32.3	54.6	57.9	60.2	36.5	19.2	12.8	14.4	16.4	33.2
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003 [®]	
ANNUAL TOTAL	10,681.7		17,776.4		32.3	
ANNUAL MEAN	29.3		48.7		49.1	
HIGHEST ANNUAL MEAN					12.4	
LOWEST ANNUAL MEAN					1996	
HIGHEST DAILY MEAN	960	Oct 11	960	Oct 11	3,350	Sep 6, 1996
LOWEST DAILY MEAN	2.6	Jan 16	6.0	Sep 7	0.74	Jul 16, 1991
ANNUAL SEVEN-DAY MINIMUM	3.2	May 21	6.7	Oct 1	1.5	Oct 7, 1985
MAXIMUM PEAK FLOW			2,450	Oct 11	5,140*	Sep 6, 1996
MAXIMUM PEAK STAGE			11.97	Oct 11	13.92	Sep 6, 1996
INSTANTANEOUS LOW FLOW			4.3	Sep 30	0.76	Oct 7, 1985
ANNUAL RUNOFF (CFSM)	1.39		2.31		1.53	
ANNUAL RUNOFF (INCHES)	18.83		31.34		20.81	
10 PERCENT EXCEEDS	60		130		61	
50 PERCENT EXCEEDS	8.6		15		9.0	
90 PERCENT EXCEEDS	4.1		7.4		4.0	

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

