

NEUSE RIVER BASIN

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

LOCATION.--Lat 36°08'30", long 78°55'10", Durham County, Hydrologic Unit 03020201, on right bank, 5 feet downstream from bridge on Secondary Road 1461, and 1.8 mi northwest of Orange Factory.

DRAINAGE AREA.--78.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1987, equivalent records published as "Little River near Orange Factory, NC" (02085220), September 1961 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 380 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from extension of rating curve above 2,300 ft<sup>3</sup>/s, based on contracted-opening measurement of peak flow; maximum gage height, 13.26 ft, from high-water mark in gage shelter. No flow occurs periodically.

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	2.6	1.3	2.8	4.0	19	10	58	9.2	3.5	2.3	0.07	422
2	2.5	1.3	2.6	3.9	17	13	59	9.3	3.1	1.5	0.06	101
3	2.5	1.4	2.6	4.9	15	119	40	8.7	2.7	0.98	0.05	32
4	2.3	1.5	2.6	5.2	14	141	31	9.8	2.7	0.70	0.04	15
5	2.1	1.6	2.9	5.3	12	58	26	13	2.5	0.53	0.02	9.2
6	1.7	1.6	3.0	8.5	12	35	23	13	2.4	0.40	0.01	5.6
7	1.8	1.5	3.0	24	55	27	21	12	2.3	0.33	0.00	3.8
8	1.5	1.3	3.0	26	112	23	20	11	2.1	0.30	0.00	2.9
9	1.5	1.3	e3.0	19	59	20	19	10	1.8	0.25	0.00	2.3
10	1.3	1.4	e3.2	15	37	20	20	9.1	1.6	0.21	0.00	1.7
11	1.6	1.6	12	17	30	20	21	7.8	1.5	0.21	0.00	1.5
12	1.5	1.7	17	16	24	20	21	7.0	1.4	0.16	0.00	1.1
13	1.3	1.7	10	14	21	20	19	7.6	1.2	0.13	0.00	0.88
14	1.5	1.7	8.0	12	18	21	19	7.3	0.95	0.13	0.00	1.4
15	2.5	1.7	6.1	9.8	17	20	19	7.3	0.84	0.10	0.03	2.1
16	3.1	1.7	5.0	8.5	16	18	17	8.1	0.75	0.09	0.06	2.8
17	2.6	1.8	4.4	7.6	15	21	16	8.2	0.63	0.08	0.05	2.7
18	2.2	1.8	4.9	7.2	14	42	16	7.7	0.53	0.07	21	1.9
19	1.9	1.9	4.9	45	13	73	16	7.1	0.47	0.06	80	1.6
20	2.0	2.2	4.8	312	13	47	15	7.2	0.42	0.07	7.1	1.3
21	2.8	5.3	5.3	101	13	45	15	6.1	0.37	0.06	2.9	1.1
22	2.3	3.2	5.0	64	13	64	14	5.7	0.32	0.04	1.6	0.99
23	1.7	2.3	4.9	115	12	42	14	5.6	0.28	0.10	0.96	0.98
24	1.4	2.2	4.8	219	12	33	14	5.4	0.25	0.15	0.57	0.85
25	1.1	2.3	4.5	134	12	27	13	5.4	0.18	0.11	0.42	0.94
26	0.90	2.7	4.4	106	11	25	12	4.7	0.43	0.12	0.66	0.91
27	0.88	2.8	4.4	55	11	49	12	4.1	14	0.09	2.5	0.83
28	0.82	2.7	4.7	39	10	61	12	3.9	3.7	0.09	2.0	0.77
29	0.92	2.8	4.5	30	---	38	11	3.7	5.5	0.10	1.3	0.71
30	1.2	2.9	4.3	25	---	31	10	3.3	3.9	0.09	2.1	0.66
31	1.3	---	4.2	21	---	29	---	3.5	---	0.08	159	---
TOTAL	55.32	61.2	156.8	1473.9	627	1212	623	231.8	62.32	9.63	282.50	621.52
MEAN	1.785	2.040	5.058	47.55	22.39	39.10	20.77	7.477	2.077	0.311	9.113	20.72
MAX	3.1	5.3	17	312	112	141	59	13	14	2.3	159	422
MIN	0.82	1.3	2.6	3.9	10	10	10	3.3	0.18	0.04	0.00	0.66
CFSM	0.02	0.03	0.06	0.61	0.29	0.50	0.27	0.10	0.03	0.00	0.12	0.26
IN.	0.03	0.03	0.07	0.70	0.30	0.58	0.30	0.11	0.03	0.00	0.13	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	29.38	36.80	53.58	126.5	126.9	176.8	106.0	51.62	36.29	28.35	20.66	50.08				
MAX	97.7	120	162	257	379	456	236	165	194	104	114	329				
(WY)	1996	1996	1997	1998	1998	1993	1993	1990	1995	1989	1989	1996				
MIN	0.14	1.33	5.06	24.2	22.4	30.9	17.1	7.48	2.10	0.32	0.37	1.27				
(WY)	1994	1999	2002	2001	2002	1988	1995	2002	2002	2002	1999	1990				

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	15969.17		5416.99			
ANNUAL MEAN	43.75		14.84		69.96	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					14.8	
HIGHEST DAILY MEAN	1930		422		6500	
LOWEST DAILY MEAN	0.56		0.00		0.00	
ANNUAL SEVEN-DAY MINIMUM	0.98		0.00		0.00	
MAXIMUM PEAK FLOW			732		11600*	
MAXIMUM PEAK STAGE			4.23		13.26*	
INSTANTANEOUS LOW FLOW			0.00*		0.00*	
ANNUAL RUNOFF (CFSM)	0.56		0.19		0.89	
ANNUAL RUNOFF (INCHES)	7.60		2.58		12.16	
10 PERCENT EXCEEDS	71		31		140	
50 PERCENT EXCEEDS	13		3.9		22	
90 PERCENT EXCEEDS	1.7		0.16		1.7	

e Estimated.  
\* See REMARKS.

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC--Continued

