

Water-Data Report 2007

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

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°08'30", long 78°55'09" referenced to North American Datum of 1983, Durham County, NC, 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 mi².

SURFACE-WATER RECORDS

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.--No estimated daily discharges. Records fair. Maximum discharge for period of record from extension of rating curve above 2,300 ft³/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. Minimum discharge for current water year occurred on many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	9.1	45	84	34	55	47	17	7.6	5.3	0.35	0.11
2	2.0	6.9	59	180	56	730	45	16	6.8	5.1	0.31	0.08
3	1.8	5.2	46	86	73	242	40	16	20	4.4	0.34	0.07
4	1.8	4.6	38	62	48	116	34	16	30	3.7	0.40	0.04
5	1.7	3.2	32	55	40	83	29	17	44	3.3	0.35	0.03
6	2.3	2.9	29	535	35	65	25	18	44	3.2	0.28	0.01
7	3.0	35	28	185	33	53	26	16	21	2.7	0.23	0.00
8	3.1	261	25	680	31	47	24	14	14	2.2	0.21	0.00
9	3.2	78	23	249	29	41	23	17	11	2.2	0.18	0.00
10	3.4	29	23	126	28	38	23	27	9.8	2.0	0.16	0.00
11	3.3	17	23	90	26	36	23	25	7.7	2.6	0.14	0.00
12	3.0	295	22	72	25	33	213	70	8.7	4.3	0.11	0.00
13	2.1	155	21	63	27	30	132	65	9.3	3.1	0.07	0.00
14	1.6	59	21	55	419	31	67	29	25	2.5	0.05	0.02
15	1.2	31	21	51	176	29	1,200	19	22	2.4	0.04	0.05
16	1.2	396	20	48	96	247	809	16	13	2.3	0.04	0.03
17	1.2	237	23	40	73	491	209	14	9.9	2.1	0.11	0.01
18	6.2	80	19	36	61	138	114	14	7.4	2.2	0.13	0.00
19	8.2	45	18	43	49	88	79	13	6.5	1.9	0.09	0.00
20	6.5	27	17	43	43	68	61	12	5.2	1.5	0.07	0.00
21	4.4	38	17	39	44	56	47	12	4.9	1.3	0.08	0.00
22	4.0	2,050	24	236	43	49	38	11	5.2	1.7	0.11	0.00
23	3.9	656	102	171	37	46	32	11	4.8	1.5	0.39	0.00
24	3.1	207	68	98	32	44	28	11	4.4	1.3	0.34	0.00
25	2.5	114	423	74	48	40	26	11	9.1	1.2	0.30	0.00
26	1.8	84	453	59	203	34	23	11	6.4	0.99	0.24	0.00
27	1.8	65	136	52	100	36	23	10	5.4	0.93	0.21	0.00
28	66	53	80	47	69	116	22	11	5.2	0.69	0.18	0.00
29	64	47	57	41	---	80	19	12	5.0	0.55	0.16	0.00
30	31	43	45	36	---	79	18	9.3	6.3	0.51	0.16	0.00
31	15	---	41	33	---	58	---	9.1	---	0.45	0.13	---
Total	256.6	5,133.9	1,999	3,669	1,978	3,299	3,499	569.4	379.6	70.12	5.96	0.45
Mean	8.28	171	64.5	118	70.6	106	117	18.4	12.7	2.26	0.19	0.01
Max	66	2,050	453	680	419	730	1,200	70	44	5.3	0.40	0.11
Min	1.2	2.9	17	33	25	29	18	9.1	4.4	0.45	0.04	0.00
Cfsm	0.11	2.19	0.82	1.51	0.90	1.36	1.49	0.23	0.16	0.03	0.00	0.00
In.	0.12	2.44	0.95	1.75	0.94	1.57	1.66	0.27	0.18	0.03	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.5	48.5	71.6	115	120	168	112	53.4	42.2	33.4	26.1	47.6
Max	222	171	215	257	379	456	346	203	194	141	125	329
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1993)	(2003)	(2003)	(1995)	(2003)	(2003)	(1996)
Min	0.14	1.33	5.06	24.2	22.4	12.7	17.1	7.48	2.08	0.31	0.19	0.01
(WY)	(1994)	(1999)	(2002)	(2001)	(2002)	(2006)	(1995)	(2002)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1987 - 2007	
Annual total	16,228.2		20,860.03			
Annual mean	44.5		57.2		72.6	
Highest annual mean					195	2003
Lowest annual mean					14.8	2002
Highest daily mean	2,050	Nov 22	2,050	Nov 22	6,500	Sep 6, 1996
Lowest daily mean	1.2	Oct 15	0.00	Sep 7	0.00	Aug 19, 1988
Annual seven-day minimum	1.8	Aug 25	0.00	Sep 7	0.00	Aug 19, 1988
Maximum peak flow			2,680	Nov 22	^a 11,600	Sep 6, 1996
Maximum peak stage			6.12	Nov 22	^a 13.26	Sep 6, 1996
Instantaneous low flow			^a 0.00	Sep 6	^a 0.00	Aug 19, 1998
Annual runoff (cfsm)	0.569		0.731		0.929	
Annual runoff (inches)	7.72		9.92		12.62	
10 percent exceeds	77		107		144	
50 percent exceeds	16		20		25	
90 percent exceeds	3.0		0.10		1.7	

^a See Remarks.

