



Water-Data Report 2012

**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 mi<sup>2</sup>.

**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 382.89 ft above North American Vertical Datum of 1988. 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 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.

## Water-Data Report 2012

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.41	0.59	37	14	9.5	27	25	18	26	0.70	3.0	1.2
<b>2</b>	0.32	0.63	21	12	9.6	23	25	44	192	0.61	2.0	1.2
<b>3</b>	0.27	0.57	14	11	8.8	181	18	25	74	0.53	1.5	151
<b>4</b>	0.23	162	10	9.6	8.6	156	17	16	25	0.55	1.3	205
<b>5</b>	0.21	110	8.2	10	10	61	18	71	14	0.53	1.1	67
<b>6</b>	0.19	35	7.3	9.2	10	34	20	204	11	0.46	0.92	55
<b>7</b>	0.18	17	14	8.7	12	25	21	67	8.3	0.49	1.1	38
<b>8</b>	0.17	9.0	79	8.2	11	20	15	36	6.7	0.48	1.7	14
<b>9</b>	0.16	4.9	40	8.7	9.7	21	14	32	5.5	0.56	1.3	18
<b>10</b>	0.17	4.0	21	9.2	9.0	20	13	49	4.7	0.80	1.4	11
<b>11</b>	0.19	3.3	14	11	9.6	18	9.6	32	4.7	43	119	6.7
<b>12</b>	0.26	3.0	10	14	7.8	16	8.8	20	8.3	57	77	5.0
<b>13</b>	0.23	3.7	8.0	21	6.8	15	9.3	14	88	18	13	4.0
<b>14</b>	0.21	3.9	6.8	16	6.9	14	9.5	19	26	6.6	6.0	3.3
<b>15</b>	0.20	3.5	6.0	12	6.7	13	9.0	51	11	3.9	3.9	3.1
<b>16</b>	0.19	3.0	5.8	10	7.6	12	8.6	52	6.9	2.5	2.8	4.5
<b>17</b>	0.18	13	16	9.3	9.9	13	8.7	30	5.3	1.7	2.1	5.1
<b>18</b>	0.18	18	37	8.9	8.9	13	9.3	20	4.6	1.4	1.9	418
<b>19</b>	1.1	28	19	8.4	12	15	11	14	2.7	1.3	69	451
<b>20</b>	0.92	16	13	8.2	49	22	11	10	2.2	1.2	24	116
<b>21</b>	0.65	11	24	9.6	78	23	11	8.6	2.8	1.4	15	46
<b>22</b>	0.49	8.2	153	10	45	21	50	11	3.4	5.7	11	21
<b>23</b>	0.43	6.0	108	11	36	19	82	121	3.4	25	5.9	14
<b>24</b>	0.36	4.8	54	12	43	84	47	106	2.3	65	4.1	8.6
<b>25</b>	0.30	3.9	29	11	55	815	24	61	2.1	8.3	3.4	6.2
<b>26</b>	0.27	3.8	20	10	35	199	112	27	1.7	4.4	3.5	4.9
<b>27</b>	0.26	3.4	18	14	25	91	114	16	1.4	6.2	3.1	4.1
<b>28</b>	0.25	3.5	28	15	24	51	46	12	1.1	23	2.2	3.4
<b>29</b>	0.54	102	31	15	23	42	23	9.4	1.0	81	2.0	5.6
<b>30</b>	0.52	111	21	12	---	32	19	8.2	0.83	8.5	1.7	7.6
<b>31</b>	0.57	---	16	9.7	---	26	---	7.1	---	4.3	1.4	---
<b>Total</b>	10.61	696.69	889.1	348.7	587.4	2,122	808.8	1,211.3	546.93	375.11	387.32	1,699.5
<b>Mean</b>	0.34	23.2	28.7	11.2	20.3	68.5	27.0	39.1	18.2	12.1	12.5	56.6
<b>Max</b>	1.1	162	153	21	78	815	114	204	192	81	119	451
<b>Min</b>	0.16	0.57	5.8	8.2	6.7	12	8.6	7.1	0.83	0.46	0.92	1.2
<b>Cfsm</b>	0.00	0.30	0.37	0.14	0.26	0.88	0.34	0.50	0.23	0.15	0.16	0.72
<b>In.</b>	0.01	0.33	0.42	0.17	0.28	1.01	0.38	0.58	0.26	0.18	0.18	0.81

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2012, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	30.2	48.8	74.9	102	109	157	101	51.0	39.6	29.2	23.2	49.3
<b>Max</b>	222	209	294	257	379	456	346	203	194	141	125	329
(WY) (2003)	(2010)	(2010)	(1998)	(1998)	(1993)	(2003)	(2003)	(1995)	(2003)	(2003)	(2003)	(1996)
<b>Min</b>	0.14	0.07	5.06	7.50	19.1	12.7	17.1	7.48	2.08	0.31	0.19	0.01
(WY) (1994)	(2008)	(2002)	(2008)	(2011)	(2006)	(1995)	(2002)	(2002)	(2002)	(2002)	(2007)	(2007)

**0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2011</b>	<b>Water Year 2012</b>	<b>Water Years 1987 - 2012</b>	
<b>Annual total</b>	7,695.89	9,683.46		
<b>Annual mean</b>	21.1	26.5	67.8	
<b>Highest annual mean</b>			195	2003
<b>Lowest annual mean</b>			14.8	2002
<b>Highest daily mean</b>	316	Mar 31	815	Mar 25
<b>Lowest daily mean</b>	0.07	Aug 25	0.16	Oct 9
<b>Annual seven-day minimum</b>	0.08	Aug 22	0.18	Oct 5
<b>Maximum peak flow</b>			1,550	Sep 18
<b>Maximum peak stage</b>			5.07	Sep 18
<b>Instantaneous low flow</b>			0.14	Oct 9
<b>Annual runoff (cfsm)</b>	0.270	0.338		0.867
<b>Annual runoff (inches)</b>	3.66	4.61		11.78
<b>10 percent exceeds</b>	52	62		135
<b>50 percent exceeds</b>	8.3	10		21
<b>90 percent exceeds</b>	0.25	0.58		1.3

<sup>a</sup> See Remarks

