

Water-Data Report 2010

**02088383 LITTLE RIVER NEAR ZEBULON, NC**

Neuse Basin  
Upper Neuse Subbasin

LOCATION.--Lat 35°49'19", long 78°21'08" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on left bank 300 ft upstream of bridge on North Carolina Highway 97, .5 mi below full branch, and 2 mi west of Zebulon.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2008 to current year.

GAGE.--Water-stage recorder. Datum of gage is 230 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

## 02088383 LITTLE RIVER NEAR ZEBULON, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.0	4.1	30	70	82	48	100	14	50	2.5	7.5	3.4
2	3.3	4.8	53	67	82	47	76	12	49	2.4	6.0	2.9
3	2.6	5.5	331	55	126	62	64	11	55	2.1	5.0	2.7
4	1.9	7.0	252	50	175	61	54	11	37	1.6	4.1	2.3
5	1.4	6.0	123	47	e250	51	49	11	28	1.2	8.8	2.1
6	1.4	5.1	107	47	e800	44	44	11	23	0.96	29	1.9
7	1.3	4.4	80	49	e1,000	40	41	9.2	19	1.2	17	1.7
8	1.1	4.2	67	51	216	37	37	8.3	16	1.0	13	1.3
9	1.1	3.8	502	48	146	35	145	6.6	12	0.65	9.5	1.2
10	1.0	8.5	451	45	150	34	96	5.9	10	5.0	7.6	1.2
11	0.94	113	169	44	118	36	67	4.7	8.6	4.2	6.3	1.1
12	1.1	435	99	44	95	47	51	4.3	7.9	2.4	9.4	1.3
13	2.0	313	83	43	91	73	44	4.0	25	1.9	8.0	1.1
14	1.5	151	80	43	84	76	38	3.4	31	1.7	6.3	0.89
15	1.6	81	73	43	79	70	35	3.4	18	1.5	5.2	0.83
16	1.7	54	66	43	74	59	30	3.6	16	1.3	4.3	0.79
17	1.7	42	59	132	68	51	28	34	38	1.9	3.9	0.76
18	1.9	35	53	253	63	49	26	242	24	2.4	4.0	0.71
19	2.2	49	88	158	59	44	25	221	17	2.1	8.7	0.61
20	2.2	50	119	102	55	41	23	127	12	1.8	13	0.58
21	2.0	43	90	90	52	40	22	64	8.8	1.8	9.5	0.58
22	1.8	38	69	239	57	58	24	41	7.3	1.7	7.2	0.52
23	1.4	45	61	204	64	66	21	110	6.0	5.7	18	0.49
24	1.3	44	53	124	63	58	23	96	5.1	11	35	0.49
25	1.3	41	64	393	63	48	28	76	4.3	5.4	20	0.49
26	1.4	36	101	446	60	46	35	60	3.8	4.0	10	0.75
27	2.7	30	96	169	54	43	33	44	3.2	3.2	7.4	21
28	3.3	30	71	104	50	39	25	30	2.6	2.9	5.9	25
29	2.4	30	60	85	---	555	21	92	2.3	2.4	5.1	25
30	2.6	29	52	91	---	e600	18	79	2.3	34	4.5	199
31	2.9	---	63	95	---	178	---	61	---	12	3.9	---
<b>Mean</b>	1.90	58.1	118	112	153	88.3	44.1	48.4	18.1	4.00	9.78	10.1
<b>Max</b>	4.0	435	502	446	1,000	600	145	242	55	34	35	199
<b>Min</b>	0.94	3.8	30	43	50	34	18	3.4	2.3	0.65	3.9	0.49

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	7.23	45.7	88.8	79.1	91.8	126	51.3	39.5	26.9	3.44	8.02	7.10
<b>Max</b>	12.6	58.1	118	112	153	164	58.4	48.4	35.8	4.00	9.78	10.1
<b>(WY)</b>	(2009)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2009)	(2010)	(2010)	(2010)
<b>Min</b>	1.90	33.4	59.3	46.2	30.8	88.3	44.1	30.7	18.1	2.89	6.27	4.12
<b>(WY)</b>	(2010)	(2009)	(2009)	(2009)	(2009)	(2010)	(2010)	(2009)	(2010)	(2009)	(2009)	(2009)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2009 - 2010	
<b>Annual mean</b>	46.7		54.9		47.7	
<b>Highest annual mean</b>					54.9	2010
<b>Lowest annual mean</b>					40.6	2009
<b>Highest daily mean</b>	913	Mar 29	1,000	Feb 7	1,000	Feb 7, 2010
<b>Lowest daily mean</b>	0.94	Oct 11	0.49	Sep 23	0.49	Sep 23, 2010
<b>Annual seven-day minimum</b>	1.1	Oct 6	0.54	Sep 19	0.54	Sep 19, 2010
<b>Maximum peak flow</b>			Not Determined		Not Determined	
<b>Maximum peak stage</b>			3.14	Feb 6	3.14	Feb 6, 2010
<b>Instantaneous low flow</b>			0.44	Sep 26	0.44	Sep 26, 2010
<b>10 percent exceeds</b>	100		115		96	
<b>50 percent exceeds</b>	23		29		26	
<b>90 percent exceeds</b>	2.3		1.4		2.2	

