

Water-Data Report 2010

**02128000 LITTLE RIVER NEAR STAR, NC**

Upper Pee Dee Basin  
Upper Pee Dee Subbasin

LOCATION.--Lat 35°23'14", long 79°49'53" referenced to North American Datum of 1983, Montgomery County, NC, Hydrologic Unit 03040104, on left bank, 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mi upstream from Norfolk Southern Railway bridge, 0.3 mi downstream from West Fork Little River, and 3 mi west of Star.

DRAINAGE AREA.--106 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1954 to current year. Occasional low-flow measurements, water years 1949-54.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.00 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No flow also occurred August 13-15, 25-26, 2002. Minimum discharge for current water year also occurred September 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

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**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	4.7	50	33	85	82	71	77	27	357	5.8	7.0	0.95
2	3.3	124	145	76	118	69	72	26	226	14	6.0	e0.60
3	3.6	36	1,350	63	484	116	69	25	138	8.0	5.0	e0.50
4	3.8	20	198	54	361	212	66	26	60	5.6	4.5	e0.40
5	4.0	13	110	54	1,690	128	62	26	41	4.2	4.1	e0.30
6	4.8	9.7	89	62	2,680	98	60	24	50	3.3	5.2	e0.30
7	3.4	7.5	67	62	358	84	58	22	84	2.6	15	e0.20
8	2.4	6.9	57	46	185	73	55	20	39	2.1	13	e0.20
9	2.2	6.1	713	46	144	68	54	18	28	1.8	7.5	e0.20
10	2.0	6.2	330	62	165	64	52	16	25	2.2	5.1	0.10
11	2.4	1,010	116	67	128	67	50	16	24	3.9	3.6	0.09
12	2.1	714	79	43	104	91	47	17	22	4.4	2.5	0.09
13	1.7	502	68	55	105	669	45	18	20	5.1	1.9	0.10
14	1.9	131	97	65	106	255	47	17	32	5.8	1.5	0.13
15	2.4	70	89	40	98	143	46	17	52	12	1.4	0.12
16	2.7	48	70	39	118	101	42	19	41	15	3.1	0.11
17	3.0	37	53	482	98	85	39	60	25	12	2.5	0.09
18	3.1	30	55	292	82	78	40	504	19	22	1.8	0.07
19	3.6	28	258	117	73	73	40	194	16	28	10	0.06
20	4.3	27	193	82	68	68	37	112	14	14	40	0.04
21	3.8	25	95	106	66	65	35	51	13	9.3	9.4	0.03
22	3.3	23	70	507	87	64	35	38	11	6.5	4.5	0.03
23	3.0	480	64	185	198	63	35	35	10	5.1	5.4	0.03
24	3.3	290	57	121	134	59	33	33	9.1	3.9	4.8	0.02
25	4.0	99	388	1,390	163	56	39	46	8.3	3.6	3.3	0.02
26	4.1	62	864	339	110	59	55	41	7.4	12	2.6	0.03
27	5.8	53	182	148	89	60	40	34	6.7	19	2.1	0.15
28	40	65	110	109	81	58	33	28	5.3	58	1.6	0.41
29	59	43	84	93	---	335	29	24	4.8	32	1.5	0.82
30	21	35	65	98	---	192	28	25	4.8	15	1.1	1,560
31	12	---	72	93	---	101	---	26	---	9.0	1.2	---
<b>Total</b>	220.7	4,051.4	6,221	5,081	8,175	3,725	1,420	1,585	1,393.4	345.2	178.2	1,566.19
<b>Mean</b>	7.12	135	201	164	292	120	47.3	51.1	46.4	11.1	5.75	52.2
<b>Max</b>	59	1,010	1,350	1,390	2,680	669	77	504	357	58	40	1,560
<b>Min</b>	1.7	6.1	33	39	66	56	28	16	4.8	1.8	1.1	0.02
<b>Cfsm</b>	0.07	1.27	1.89	1.55	2.75	1.13	0.45	0.48	0.44	0.11	0.05	0.49
<b>In.</b>	0.08	1.42	2.18	1.78	2.87	1.31	0.50	0.56	0.49	0.12	0.06	0.55

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	65.4	69.3	97.8	160	198	213	168	93.3	68.7	61.2	54.0	51.6
<b>Max</b>	337	366	361	511	467	678	430	296	273	578	474	286
<b>(WY)</b>	(1991)	(1986)	(1973)	(1998)	(1960)	(1998)	(1958)	(1990)	(1972)	(1997)	(2003)	(2004)
<b>Min</b>	4.03	1.78	11.0	23.5	36.6	47.0	38.0	13.7	2.55	1.20	0.50	0.76
<b>(WY)</b>	(1987)	(2008)	(2002)	(2001)	(2009)	(1967)	(1967)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1954 - 2010	
<b>Annual total</b>	29,529.4		33,962.09			
<b>Annual mean</b>	80.9		93.0		108	
<b>Highest annual mean</b>					243	2003
<b>Lowest annual mean</b>					27.4	2002
<b>Highest daily mean</b>	1,630	Mar 2	2,680	Feb 6	9,800	Jul 23, 1997
<b>Lowest daily mean</b>	1.1	Sep 15	0.02	Sep 24	0.00	Aug 12, 2002
<b>Annual seven-day minimum</b>	1.7	Sep 15	0.03	Sep 20	0.00	Aug 10, 2002
<b>Maximum peak flow</b>			5,560	Feb 6	15,400	Jul 23, 1997
<b>Maximum peak stage</b>			11.26	Feb 6	18.60	Jul 23, 1997
<b>Instantaneous low flow</b>			<sup>a</sup> 0.02	Sep 24	<sup>a</sup> 0.00	Aug 12, 2002
<b>Annual runoff (cfsm)</b>	0.763		0.878		1.02	
<b>Annual runoff (inches)</b>	10.36		11.92		13.86	
<b>10 percent exceeds</b>	144		183		187	
<b>50 percent exceeds</b>	31		36		48	
<b>90 percent exceeds</b>	3.6		1.8		7.9	

<sup>a</sup> See Remarks.

