

Water-Data Report 2007

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. No flow also occurred August 13-15, 25-26, 2002.

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 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.6	22	105	119	93	95	80	65	21	15	7.9	0.47
2	5.3	19	151	214	169	2,690	88	62	20	13	6.4	0.37
3	5.1	17	94	119	154	437	82	61	40	11	4.1	0.83
4	4.8	15	76	96	101	208	78	61	80	8.7	2.9	0.67
5	4.8	15	68	94	85	149	74	63	42	7.4	2.8	0.54
6	5.2	16	62	518	78	131	70	71	33	6.5	2.4	0.42
7	5.3	178	61	257	77	118	69	64	32	6.0	1.6	0.35
8	8.4	642	57	1,360	75	113	68	56	26	5.1	1.1	0.31
9	13	154	54	389	71	106	68	60	21	4.7	0.91	0.27
10	18	70	54	187	71	102	68	59	18	7.1	0.78	0.22
11	11	48	54	136	67	103	77	56	16	9.0	0.67	0.18
12	8.4	247	53	116	65	94	610	54	44	10	0.59	0.14
13	16	145	54	109	88	92	209	69	46	8.5	0.51	0.11
14	17	70	53	100	917	89	119	65	38	8.3	0.43	0.10
15	11	51	53	95	258	89	1,310	49	30	6.7	0.38	0.17
16	8.0	862	51	91	149	200	1,090	42	25	6.6	0.34	11
17	18	386	48	82	121	321	274	41	34	6.1	0.30	5.2
18	603	114	47	78	110	143	169	38	41	36	0.29	2.1
19	90	74	47	96	98	109	134	37	26	23	0.30	1.2
20	42	59	46	96	93	100	117	36	19	13	0.27	0.89
21	28	75	45	84	93	95	109	35	18	7.4	0.25	0.72
22	22	4,740	109	293	92	91	101	33	16	5.2	0.24	0.57
23	19	998	495	210	91	90	95	32	14	4.1	0.36	0.46
24	17	259	150	131	87	88	93	32	12	3.5	0.35	0.39
25	15	150	1,010	104	144	86	91	30	41	3.0	1.4	0.36
26	13	113	763	92	381	84	87	29	42	2.4	3.4	0.32
27	16	93	216	86	157	82	81	28	32	2.3	1.9	0.29
28	79	81	132	83	109	81	79	26	19	3.2	0.85	0.25
29	76	75	104	78	---	81	74	25	14	2.9	0.63	0.20
30	37	71	92	73	---	81	69	24	12	3.1	0.49	0.17
31	26	---	86	72	---	81	---	22	---	7.1	0.58	---
<b>Total</b>	1,247.9	9,859	4,490	5,658	4,094	6,429	5,733	1,425	872	255.9	45.42	29.27
<b>Mean</b>	40.3	329	145	183	146	207	191	46.0	29.1	8.25	1.47	0.98
<b>Max</b>	603	4,740	1,010	1,360	917	2,690	1,310	71	80	36	7.9	11
<b>Min</b>	4.8	15	45	72	65	81	68	22	12	2.3	0.24	0.10
<b>Cfsm</b>	0.38	3.10	1.37	1.72	1.38	1.96	1.80	0.43	0.27	0.08	0.01	0.01
<b>In.</b>	0.44	3.46	1.58	1.99	1.44	2.26	2.01	0.50	0.31	0.09	0.02	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	68.5	70.5	97.6	164	202	216	172	95.8	69.6	63.8	56.4	53.1
<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	7.77	11.0	23.5	38.6	47.0	38.0	13.7	2.55	1.20	0.50	0.76
<b>(WY)</b>	(1987)	(2002)	(2002)	(2001)	(2002)	(1967)	(1967)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
<b>Annual total</b>	30,829.4		40,138.49			
<b>Annual mean</b>	84.5		110		111	
<b>Highest annual mean</b>					243	2003
<b>Lowest annual mean</b>					27.4	2002
<b>Highest daily mean</b>	4,740	Nov 22	4,740	Nov 22	9,800	Jul 23, 1997
<b>Lowest daily mean</b>	2.0	Aug 29	0.10	Sep 14	0.00	Aug 12, 2002
<b>Annual seven-day minimum</b>	2.7	Aug 17	0.17	Sep 9	0.00	Aug 10, 2002
<b>Maximum peak flow</b>			6,760	Nov 22	15,400	Jul 23, 1997
<b>Maximum peak stage</b>			12.38	Nov 22	18.60	Jul 23, 1997
<b>Instantaneous low flow</b>			0.07	Sep 14	0.00	Aug 12, 2002
<b>Annual runoff (cfsm)</b>	0.797		1.04		1.04	
<b>Annual runoff (inches)</b>	10.82		14.09		14.18	
<b>10 percent exceeds</b>	114		162		192	
<b>50 percent exceeds</b>	41		54		50	
<b>90 percent exceeds</b>	5.8		0.59		8.7	

<sup>a</sup> See Remarks.

