

Water-Data Report 2008

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 mi².

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 station.

REMARKS.--No estimated daily discharges. Records good. No flow also occurred August 13-15, 25-26, 2002. Minimum discharge for current water year also occurred October 21-23.

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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.16	5.4	1.7	107	71	39	95	101	27	1.3	2.6	4.1
2	0.13	3.4	1.8	50	202	33	136	74	22	1.1	2.0	2.6
3	0.13	2.1	1.9	33	67	29	71	60	18	1.1	1.3	1.9
4	0.14	1.4	1.6	24	41	63	115	52	15	1.1	1.00	1.5
5	0.13	1.2	1.8	19	32	743	498	46	14	1.9	0.71	1.2
6	0.12	1.3	1.8	17	28	172	251	40	14	29	0.63	12
7	0.10	1.5	1.6	16	25	134	146	34	11	32	0.53	69
8	0.09	1.3	1.4	15	22	355	96	33	9.5	13	0.54	23
9	0.08	1.2	1.3	14	19	140	75	36	8.3	9.5	0.40	11
10	0.07	1.3	1.6	15	18	85	65	51	7.4	6.6	0.33	7.1
11	0.06	1.4	2.0	16	15	63	56	70	6.4	9.8	0.30	5.9
12	0.05	1.4	2.2	14	15	55	52	101	5.5	6.0	0.32	16
13	0.04	1.6	2.3	14	30	51	54	72	5.0	4.4	0.61	11
14	0.04	1.8	2.2	12	63	44	47	42	4.3	4.1	0.65	6.7
15	0.03	1.8	3.3	12	56	54	44	35	4.1	15	0.44	4.5
16	0.03	1.6	13	12	39	383	41	38	4.0	11	3.1	4.6
17	0.03	1.8	31	15	30	132	41	47	3.8	6.8	3.6	4.6
18	0.03	1.6	21	82	55	73	40	51	3.2	4.8	1.5	3.8
19	0.03	1.5	12	64	58	59	37	75	2.8	3.8	0.89	3.6
20	0.03	1.6	7.7	41	43	91	49	66	2.7	3.2	0.55	4.9
21	0.02	1.5	6.4	33	33	90	79	61	9.0	2.6	0.34	3.5
22	0.02	1.6	5.0	29	30	57	65	51	5.3	2.1	0.22	2.7
23	0.02	1.8	4.0	27	32	49	49	33	4.1	58	0.15	1.9
24	0.04	1.8	6.2	24	30	45	43	27	3.5	47	0.10	1.6
25	0.07	1.7	6.8	20	28	38	39	24	3.0	19	0.08	1.1
26	136	1.8	34	19	32	33	36	22	2.9	11	0.12	4.6
27	443	1.7	93	17	198	33	94	21	2.6	6.5	54	81
28	65	1.7	42	16	89	32	882	22	2.3	4.5	186	43
29	25	1.7	29	15	50	30	771	81	1.9	3.5	34	23
30	12	1.8	307	15	---	30	178	51	1.5	2.8	14	14
31	8.1	---	532	14	---	36	---	34	---	2.3	7.3	---
Total	690.79	53.3	1,178.6	821	1,451	3,271	4,245	1,551	224.1	324.8	318.31	375.4
Mean	22.3	1.78	38.0	26.5	50.0	106	142	50.0	7.47	10.5	10.3	12.5
Max	443	5.4	532	107	202	743	882	101	27	58	186	81
Min	0.02	1.2	1.3	12	15	29	36	21	1.5	1.1	0.08	1.1
Cfs/m	0.21	0.02	0.36	0.25	0.47	1.00	1.33	0.47	0.07	0.10	0.10	0.12
In.	0.24	0.02	0.41	0.29	0.51	1.15	1.49	0.54	0.08	0.11	0.11	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	67.6	69.2	96.5	161	199	214	171	94.9	68.5	62.8	55.6	52.3
Max	337	366	361	511	467	678	430	296	273	578	474	286
(WY)	(1991)	(1986)	(1973)	(1998)	(1960)	(1998)	(1958)	(1990)	(1972)	(1997)	(2003)	(2004)
Min	4.03	1.78	11.0	23.5	38.6	47.0	38.0	13.7	2.55	1.20	0.50	0.76
(WY)	(1987)	(2008)	(2002)	(2001)	(2002)	(1967)	(1967)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1954 - 2008	
Annual total	26,464.28		14,504.30			
Annual mean	72.5		39.6		109	
Highest annual mean					243	2003
Lowest annual mean					27.4	2002
Highest daily mean	2,690	Mar 2	882	Apr 28	9,800	Jul 23, 1997
Lowest daily mean	0.02	Oct 21	0.02	Oct 21	0.00	Aug 12, 2002
Annual seven-day minimum	0.03	Oct 17	0.03	Oct 17	0.00	Aug 10, 2002
Maximum peak flow			1,670	Apr 28	15,400	Jul 23, 1997
Maximum peak stage			6.16	Apr 28	18.60	Jul 23, 1997
Instantaneous low flow			^a 0.02	Oct 18	^a 0.00	Aug 12, 2002
Annual runoff (cfs)	0.684		0.374		1.03	
Annual runoff (inches)	9.29		5.09		14.01	
10 percent exceeds	131		80		190	
50 percent exceeds	21		14		49	
90 percent exceeds	0.26		0.50		8.3	

^aSee Remarks.