

Water-Data Report 2008

02088500 LITTLE RIVER NEAR PRINCETON, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°30'41", long 78°09'37" referenced to North American Datum of 1983, Johnston County, NC, Hydrologic Unit 03020201, on left bank 600 ft downstream of bridge on Secondary Road 2320, 0.8 mi upstream from Little Creek, and 3 mi north of Princeton.

DRAINAGE AREA.--232 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1930 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1233: 1935(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 107.75 ft above NGVD of 1929. Prior to November 17, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Slight fluctuation and occasional regulation for short periods is caused by mills upstream from station. Maximum discharge for period of record, from rating curve extended above 9,000 ft³/s, by logarithmic plotting. Minimum discharge for period of record occurred several days in August 2002, September 12, 13, 2005, and September 8-14, 2007 due to regulation from unknown source. Minimum discharge for current water year also occurred October 24.

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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	0.46	95	19	355	92	146	195	1,160	32	3.6	14	27
2	0.36	65	13	362	328	126	272	759	30	3.1	11	33
3	0.36	46	10	337	242	109	290	349	29	2.9	9.4	16
4	0.31	35	7.4	225	175	104	289	192	26	2.5	7.5	11
5	0.34	27	6.6	158	142	307	444	139	24	2.3	5.7	9.3
6	0.36	21	8.4	128	123	409	1,240	111	25	2.6	3.8	211
7	0.45	15	8.7	111	108	341	1,310	92	19	17	3.2	456
8	0.37	12	8.2	95	93	834	925	78	17	20	4.2	421
9	0.38	8.9	7.2	84	81	801	591	75	15	13	3.6	324
10	0.34	6.6	6.3	76	72	549	368	83	13	29	2.8	265
11	0.36	4.6	6.5	68	64	412	273	73	12	62	2.5	173
12	0.41	3.4	13	62	54	291	229	75	16	79	2.3	110
13	0.42	2.6	9.0	54	82	218	235	95	38	35	2.7	89
14	0.46	2.0	7.6	48	184	176	220	99	22	19	2.4	71
15	0.42	1.5	9.4	45	203	158	168	100	23	14	3.5	59
16	0.37	1.1	88	41	173	379	140	96	30	11	2.7	48
17	0.36	2.9	109	40	159	372	120	85	27	9.2	1.7	47
18	0.39	3.7	109	49	194	275	106	75	19	6.9	1.3	52
19	0.34	4.0	86	65	275	227	94	80	15	5.7	1.1	47
20	0.28	4.4	77	119	223	200	152	73	13	5.7	1.0	37
21	0.24	5.4	65	138	167	167	416	89	10	4.5	1.0	29
22	0.21	4.7	53	118	157	142	227	83	8.5	4.2	0.87	26
23	0.20	4.3	45	109	188	126	167	70	8.1	3.8	0.69	23
24	0.31	4.0	50	103	181	108	145	61	7.6	27	0.53	19
25	10	5.6	56	93	156	95	129	55	11	37	0.39	17
26	12	7.7	99	81	144	88	118	47	11	41	0.44	45
27	76	8.3	215	74	177	81	101	41	8.5	24	2.2	75
28	69	9.7	211	69	167	76	138	38	6.3	22	5.6	207
29	59	13	166	63	153	72	575	49	4.8	16	5.6	167
30	63	25	172	61	---	71	978	46	4.1	15	6.6	230
31	113	---	289	59	---	92	---	36	---	14	3.4	---
Total	410.50	449.4	2,030.3	3,490	4,557	7,552	10,655	4,504	524.9	552.0	113.72	3,344.3
Mean	13.2	15.0	65.5	113	157	244	355	145	17.5	17.8	3.67	111
Max	113	95	289	362	328	834	1,310	1,160	38	79	14	456
Min	0.20	1.1	6.3	40	54	71	94	36	4.1	2.3	0.39	9.3
Cfs/m	0.06	0.06	0.28	0.49	0.68	1.05	1.53	0.63	0.08	0.08	0.02	0.48
In.	0.07	0.07	0.33	0.56	0.73	1.21	1.71	0.72	0.08	0.09	0.02	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	138	152	230	379	456	468	319	181	147	166	177	177
Max	1,202	684	717	999	1,285	1,204	969	835	698	826	783	2,861
(WY)	(1965)	(2007)	(1937)	(1954)	(1948)	(1989)	(1959)	(1989)	(1995)	(1959)	(1931)	(1999)
Min	6.00	5.91	16.0	24.1	49.6	85.3	53.3	17.3	7.24	6.75	2.48	1.71
(WY)	(1934)	(2006)	(1934)	(1934)	(1934)	(2006)	(1986)	(1986)	(2002)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1930 - 2008	
Annual total	33,494.50		38,183.12			
Annual mean	91.8		104		249	
Highest annual mean					511	
Lowest annual mean					91.8	
Highest daily mean	732	Jan 23	1,310	Apr 7	17,600	Sep 17, 1999
Lowest daily mean	0.00	Sep 9	0.20	Oct 23	0.00	Aug 12, 2002
Annual seven-day minimum	0.01	Sep 8	0.28	Oct 18	0.01	Sep 8, 2007
Maximum peak flow			1,420	Apr 6	^a 20,700	Sep 17, 1999
Maximum peak stage			7.47	Apr 6	16.58	Sep 17, 1999
Instantaneous low flow			^a 0.18	Oct 23	^a 0.00	Aug 12, 2002
Annual runoff (cfs)	0.396		0.450		1.07	
Annual runoff (inches)	5.37		6.12		14.58	
10 percent exceeds	281		267		618	
50 percent exceeds	19		48		115	
90 percent exceeds	0.43		1.9		19	

^aSee Remarks.