

Water-Data Report 2007

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.

02088500 LITTLE RIVER NEAR PRINCETON, NC—Continued

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	20	87	253	292	195	195	117	55	5.3	4.9	1.2	0.67
2	22	70	260	283	424	231	117	52	4.6	3.2	0.85	0.55
3	22	57	272	253	460	471	108	46	12	2.5	0.86	0.38
4	20	48	309	229	362	622	97	40	15	2.2	0.87	0.26
5	19	41	293	211	279	524	86	35	44	2.2	0.71	0.12
6	18	38	254	337	224	340	76	34	38	2.2	0.68	0.12
7	22	49	230	485	198	223	69	32	27	3.2	0.65	0.12
8	20	231	204	525	183	181	65	30	22	6.5	0.68	0.01
9	21	340	181	627	170	158	63	29	22	2.7	0.67	0.00
10	61	374	165	571	159	144	61	29	19	2.0	0.64	0.00
11	78	427	157	454	149	137	58	29	16	7.4	0.59	0.00
12	61	377	149	348	141	133	65	31	14	5.5	0.48	0.00
13	48	522	143	278	140	125	104	30	14	3.2	0.63	0.00
14	40	564	142	236	315	120	114	33	12	1.7	0.53	0.09
15	34	638	141	214	451	117	151	38	9.8	1.4	0.44	41
16	29	909	137	202	328	137	402	35	8.6	1.3	0.36	12
17	27	1,630	131	188	246	455	490	50	7.9	1.3	0.36	7.7
18	69	1,600	125	179	213	612	370	44	6.5	36	0.52	3.7
19	84	1,280	121	249	181	671	296	35	5.6	25	0.60	2.2
20	60	949	113	278	161	584	195	29	5.5	33	0.60	1.5
21	46	522	105	241	151	332	148	26	12	18	0.50	1.4
22	43	1,190	106	579	144	229	125	25	5.5	12	0.52	1.00
23	44	1,900	338	732	136	196	103	22	3.9	8.5	0.36	1.1
24	41	1,800	446	595	132	169	87	19	3.0	6.2	0.56	0.85
25	39	1,670	686	487	127	154	75	16	3.0	3.6	0.56	0.68
26	34	1,480	1,840	374	219	144	67	14	2.8	2.5	0.80	0.77
27	34	745	1,500	290	299	135	62	11	2.9	2.0	33	0.77
28	219	407	1,030	245	236	128	63	8.9	8.5	2.7	18	0.74
29	265	322	724	219	---	122	60	7.5	4.6	2.5	6.2	0.64
30	153	264	459	194	---	121	59	6.5	5.4	2.3	2.7	0.57
31	106	---	343	181	---	119	---	5.8	---	1.6	0.84	---
Total	1,799	20,531	11,357	10,576	6,423	8,029	3,953	897.7	360.4	209.3	76.96	78.94
Mean	58.0	684	366	341	229	259	132	29.0	12.0	6.75	2.48	2.63
Max	265	1,900	1,840	732	460	671	490	55	44	36	33	41
Min	18	38	105	179	127	117	58	5.8	2.8	1.3	0.36	0.00
Cfsm	0.25	2.95	1.58	1.47	0.99	1.12	0.57	0.12	0.05	0.03	0.01	0.01
In.	0.29	3.29	1.82	1.70	1.03	1.29	0.63	0.14	0.06	0.03	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	140	153	232	382	460	471	319	181	149	168	180	178
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)

02088500 LITTLE RIVER NEAR PRINCETON, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1930 - 2007	
Annual total	69,683.3		64,291.30			
Annual mean	191		176		251	
Highest annual mean					511	1960
Lowest annual mean					91.8	1951
Highest daily mean	2,290	Jun 18	1,900	Nov 23	17,600	Sep 17, 1999
Lowest daily mean	2.5	Aug 21	0.00	Sep 9	0.00	Aug 12, 2002
Annual seven-day minimum	3.7	Aug 16	0.01	Sep 8	0.01	Sep 8, 2007
Maximum peak flow			1,930	Nov 23	^a 20,700	Sep 17, 1999
Maximum peak stage			9.83	Nov 23	16.58	Sep 17, 1999
Instantaneous low flow			^a 0.00	Sep 8	^a 0.00	Aug 12, 2002
Annual runoff (cfsm)	0.823		0.759		1.08	
Annual runoff (inches)	11.17		10.31		14.69	
10 percent exceeds	375		459		621	
50 percent exceeds	84		60		116	
90 percent exceeds	21		0.68		19	

^a See Remarks.

