Water-Data Report 2013

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 mi^2.

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 fair. 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 ft^3/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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	100	49	35	190	186	674	148	166	52	910	77	35
2	110	65	33	201	159	508	176	191	41	1,720	71	150
3	171	63	33	249	144	348	147	178	53	2,520	64	200
4	183	53	35	221	134	264	129	144	52	2,630	57	254
5	158	48	38	183	116	219	216	122	36	2,180	53	363
6	118	47	48	154	104	224	283	105	31	1,880	48	284
7	83	43	45	132	97	228	237	98	323	996	44	211
8	70	37	39	114	227	203	215	102	1,110	340	43	151
9	119	32	39	101	433	185	180	231	1,390	256	37	109
10	262	30	40	93	368	172	158	449	1,880	433	35	80
11	248	27	37	85	330	158	140	277	2,290	803	62	65
12	193	26	35	90	263	180	132	170	1,800	1,300	54	55
13	142	25	69	96	223	282	166	126	878	1,930	37	47
14	109	27	102	99	208	229	171	101	456	2,690	35	41
15	85	38	83	90	199	189	144	83	273	2,330	44	38
16	71	41	80	85	181	170	126	68	188	1,380	54	36
17	63	41	120	88	206	156	110	57	136	758	69	32
18	57	43	181	251	208	141	98	50	107	460	108	30
19	50	43	162	415	190	133	88	48	284	262	110	26
20	46	43	128	399	183	131	124	62	440	195	115	24
21	41	53	132	365	169	125	205	136	309	153	98	26
22	36	68	142	271	160	116	154	272	245	138	129	42
23	33	64	121	201	236	107	125	295	353	199	427	163
24	31	55	106	157	506	106	108	363	352	124	180	280
25	29	48	103	134	518	134	94	338	304	117	108	253
26	26	44	179	135	567	157	80	181	649	141	84	189
27	25	45	382	147	991	149	68	158	535	123	73	129
28	21	43	348	147	897	149	59	128	258	355	62	90
29	23	41	340	142	---	137	76	102	563	228	53	69
30	30	38	383	135	---	126	147	83	912	123	46	56
31	36	---	261	167	---	118	---	65	---	92	40	---
Total	2,769	1,320	3,879	5,337	8,203	6,218	4,304	4,949	16,300	27,766	2,517	3,528
Mean	89.3	44.0	125	172	293	201	143	160	543	896	81.2	118
Max	262	68	383	415	991	674	283	449	2,290	2,690	427	363
Min	21	25	33	85	97	106	59	48	31	92	35	24
Cfsm	0.39	0.19	0.54	0.74	1.26	0.86	0.62	0.69	2.34	3.86	0.35	0.51
In.	0.44	0.21	0.62	0.86	1.32	1.00	0.69	0.79	2.61	4.45	0.40	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	135	148	227	369	444	459	311	178	148	168	171	172
Max	1,202	684	717	999	1,285	1,204	969	835	698	896	783	2,861
(WY)	(1965)	(2007)	(1937)	(1954)	(1948)	(1989)	(1959)	(1989)	(1995)	(2013)	(1931)	(1999)
Min	1.86	5.91	16.0	24.1	49.6	85.3	53.3	17.3	7.24	6.75	2.48	1.71
(WY)	(2010)	(2006)	(1934)	(1934)	(1934)	(2006)	(1986)	(1986)	(2002)	(2007)	(2007)	(2005)

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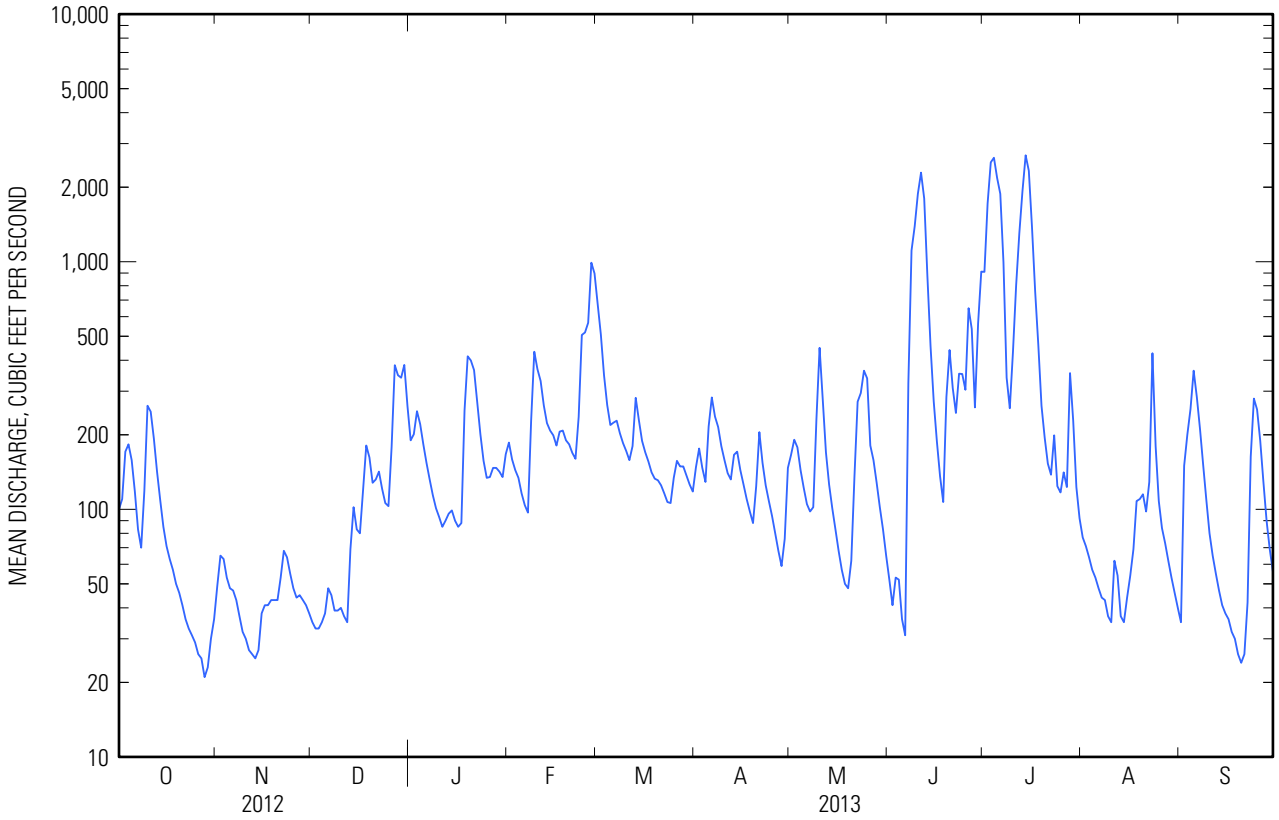
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1930 - 2013	
Annual total	36,306.1		87,090			
Annual mean	99.2		239		244	
Highest annual mean					511	1960
Lowest annual mean					91.8	1951
Highest daily mean	606	Apr 23	2,690	Jul 14	17,600	Sep 17, 1999
Lowest daily mean	2.4	Jul 21	21	Oct 28	0.00	Aug 12, 2002
Annual seven-day minimum	5.6	Jul 15	26	Oct 24	0.01	Sep 8, 2007
Maximum peak flow			2,840	Jul 3	[a]20,700	Sep 17, 1999
Maximum peak stage			11.46	Jul 4	16.58	Sep 17, 1999
Instantaneous low flow			20	Oct 28	[a]0.00	Aug 12, 2002
Annual runoff (cfsm)	0.428		1.03		1.05	
Annual runoff (inches)	5.82		13.96		14.27	
10 percent exceeds	193		433		604	
50 percent exceeds	71		129		112	
90 percent exceeds	17		38		18	

[a] See Remarks.