

Water-Data Report 2013

02092500 TRENT RIVER NEAR TRENTON, NC

Neuse Basin
Lower Neuse Subbasin

LOCATION.--Lat 35°03'51", long 77°27'41" referenced to North American Datum of 1983, Jones County, NC, Hydrologic Unit 03020204, on left bank 50 ft downstream of bridge on Secondary Road 1129, 800 ft downstream of Little Chinquapin Branch, 1.5 mi southwest of Phillips Crossroads, and 6 mi west of Trenton.

DRAINAGE AREA.--168 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above National Geodetic Vertical Datum of 1929. Prior to March 21, 1951, nonrecording gage on bridge 50 ft upstream at same datum. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 4,000 ft³/s on basis of one section slope-conveyance measurement of peak flow; maximum gage height, 22.33 ft, from high-water mark in gage house.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 17.3 ft; discharge, 7,600 ft³/s, from information provided by North Carolina State Highway Commission.

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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	67	200	33	542	124	759	59	76	7.3	487	27	30
2	66	160	35	542	147	790	57	78	6.6	617	25	29
3	74	128	35	508	149	661	55	70	13	707	23	84
4	82	102	32	472	139	520	54	60	30	774	37	165
5	83	83	31	444	124	404	60	52	30	809	72	210
6	78	72	31	406	109	315	72	46	25	772	83	238
7	70	66	32	356	99	250	78	41	55	665	78	229
8	62	61	31	301	269	206	73	37	131	541	62	175
9	58	55	32	251	483	174	67	33	188	382	46	110
10	57	51	31	213	707	151	61	29	229	235	35	70
11	58	47	30	185	842	132	56	25	267	157	32	51
12	57	43	30	169	787	124	54	22	271	135	29	39
13	54	41	39	158	652	139	68	19	238	234	25	32
14	50	40	62	151	561	163	80	17	189	423	28	26
15	47	39	81	144	508	176	74	15	142	753	44	22
16	47	39	84	136	477	171	65	13	108	925	67	19
17	52	39	85	127	445	157	58	12	82	853	70	18
18	53	40	90	148	406	139	52	11	60	638	69	17
19	48	42	100	184	367	122	48	10	50	471	80	16
20	43	44	103	201	332	107	83	11	46	294	107	14
21	40	44	107	196	293	94	155	13	41	153	141	14
22	38	43	130	177	254	83	203	15	41	96	179	14
23	35	42	159	156	226	74	186	18	78	69	184	18
24	32	41	153	136	227	70	144	22	152	54	174	29
25	30	40	132	118	238	74	115	19	179	48	147	34
26	28	41	146	108	268	80	94	16	158	59	120	31
27	28	44	252	104	402	83	75	13	172	72	94	29
28	58	40	312	102	580	79	59	11	222	56	72	30
29	151	36	364	99	---	73	51	9.7	273	54	56	29
30	218	34	427	97	---	68	61	8.6	384	49	45	25
31	230	---	485	103	---	63	---	7.9	---	31	37	---
Total	2,094	1,797	3,694	7,034	10,215	6,501	2,417	830.2	3,867.9	11,613	2,288	1,847
Mean	67.5	59.9	119	227	365	210	80.6	26.8	129	375	73.8	61.6
Max	230	200	485	542	842	790	203	78	384	925	184	238
Min	28	34	30	97	99	63	48	7.9	6.6	31	23	14
Cfsm	0.40	0.36	0.71	1.35	2.17	1.25	0.48	0.16	0.77	2.23	0.44	0.37
In.	0.46	0.40	0.82	1.56	2.26	1.44	0.54	0.18	0.86	2.57	0.51	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	124	107	170	277	313	318	202	112	119	155	167	185
Max	864	922	633	703	1,024	963	684	435	768	1,381	1,587	2,121
(WY)	(1972)	(2007)	(2010)	(1978)	(1998)	(1983)	(1973)	(1978)	(1961)	(1962)	(1955)	(1999)
Min	1.23	1.80	6.65	17.2	31.8	36.5	23.1	10.2	2.77	0.84	1.81	1.64
(WY)	(2008)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1985)	(1985)	(2011)	(1993)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1951 - 2013	
Annual total	74,532.8		54,198.1			
Annual mean	204		148		188	
Highest annual mean					316	1960
Lowest annual mean					55.8	2008
Highest daily mean	1,320	Aug 27	925	Jul 16	12,000	Sep 17, 1999
Lowest daily mean	7.9	Jul 9	6.6	Jun 2	0.18	Aug 27, 2008
Annual seven-day minimum	14	Jul 4	9.2	May 27	0.28	Dec 7, 2007
Maximum peak flow			943	Jul 16	^a 15,000 Sep 17, 1999	
Maximum peak stage			11.41	Jul 16	^a 22.33 Sep 17, 1999	
Instantaneous low flow			6.1	Jun 3	0.10	Aug 28, 2008
Annual runoff (cfsm)	1.21		0.884		1.12	
Annual runoff (inches)	16.50		12.00		15.22	
10 percent exceeds	547		406		466	
50 percent exceeds	92		74		78	
90 percent exceeds	30		25		7.3	

^a See Remarks.

