

Water-Data Report 2008

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 NGVD of 1929. Prior to Mar. 21, 1951, nonrecording gage on bridge 50 ft upstream at same datum. Satellite telemetry at station.

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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.0	6.8	2.1	54	41	176	45	60	12	1.7	3.0	0.20
2	1.1	5.2	1.8	54	42	148	55	52	11	1.6	2.2	3.6
3	0.90	3.9	1.4	48	46	128	60	45	10	2.0	1.7	5.4
4	0.78	2.8	0.99	41	49	111	60	40	8.8	1.8	1.4	4.5
5	0.90	1.4	0.54	35	53	118	103	38	8.1	1.6	1.2	5.2
6	0.85	1.3	0.71	31	51	170	465	42	7.4	2.1	0.97	6.8
7	0.78	1.3	0.29	29	48	184	740	57	6.9	1.6	0.77	8.4
8	0.72	1.3	0.24	26	45	215	950	55	5.9	1.2	0.75	11
9	0.64	1.4	0.26	24	41	253	922	44	5.4	1.2	0.58	16
10	0.89	1.5	0.29	21	37	268	677	40	4.8	1.1	0.45	15
11	0.89	1.5	0.32	18	34	261	526	42	4.3	1.0	0.63	22
12	0.77	1.2	0.25	18	31	232	392	45	3.9	0.99	0.52	30
13	0.54	1.2	0.29	21	49	192	287	51	3.4	1.2	2.5	24
14	0.50	2.0	0.31	25	128	154	211	53	2.9	1.5	2.8	16
15	0.64	3.4	1.0	25	190	128	165	51	2.0	1.8	10	11
16	0.65	4.1	2.3	23	205	116	134	42	1.8	1.6	27	9.0
17	0.58	4.0	19	23	190	111	112	35	1.8	1.1	25	7.8
18	0.59	4.3	14	24	330	104	95	29	1.6	1.1	13	6.5
19	0.70	4.5	17	28	404	95	80	25	1.4	1.2	7.8	3.9
20	0.58	4.7	17	53	453	91	70	22	1.5	0.95	4.7	2.4
21	0.53	4.2	16	100	484	87	64	24	1.9	0.81	3.1	4.6
22	0.63	4.3	21	124	465	82	62	24	2.6	1.2	2.2	7.5
23	0.63	4.1	34	124	431	76	63	21	4.7	1.8	1.6	8.5
24	0.79	4.0	41	121	397	68	62	19	5.1	2.6	1.0	8.6
25	1.6	4.1	38	110	375	62	59	17	5.5	2.5	0.53	11
26	1.4	4.2	34	94	341	56	54	15	6.2	2.0	0.29	22
27	2.3	4.1	40	78	297	51	49	13	4.8	2.0	0.18	34
28	1.5	4.5	47	66	249	47	47	12	3.0	6.2	0.94	60
29	0.94	2.8	49	56	211	43	56	14	2.3	6.8	0.89	59
30	5.0	2.1	47	48	---	40	63	14	2.3	5.4	0.52	52
31	7.9	---	48	44	---	40	---	13	---	4.0	0.32	---
Total	38.22	96.2	495.09	1,586	5,717	3,907	6,728	1,054	143.3	63.65	118.54	475.90
Mean	1.23	3.21	16.0	51.2	197	126	224	34.0	4.78	2.05	3.82	15.9
Max	7.9	6.8	49	124	484	268	950	60	12	6.8	27	60
Min	0.50	1.2	0.24	18	31	40	45	12	1.4	0.81	0.18	0.20
Cfsm	0.01	0.02	0.10	0.30	1.17	0.75	1.33	0.20	0.03	0.01	0.02	0.09
In.	0.01	0.02	0.11	0.35	1.27	0.87	1.49	0.23	0.03	0.01	0.03	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	118	106	168	284	315	327	211	117	122	157	169	186
Max	864	922	551	703	1,024	963	684	435	768	1,381	1,587	2,121
(WY)	(1972)	(2007)	(1958)	(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	2.05	1.81	1.64
(WY)	(2008)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1985)	(1985)	(2008)	(1993)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1951 - 2008	
Annual total	28,833.95		20,422.90			
Annual mean	79.0		55.8		191	
Highest annual mean					316	1960
Lowest annual mean					55.8	2008
Highest daily mean	671	Jan 7	950	Apr 8	12,000	Sep 17, 1999
Lowest daily mean	0.24	Dec 8	0.18	Aug 27	0.18	Aug 27, 2008
Annual seven-day minimum	0.28	Dec 7	0.28	Dec 7	0.28	Dec 7, 2007
Maximum peak flow			989	Apr 8	^a 15,000	Sep 17, 1999
Maximum peak stage			11.91	Apr 8	^a 22.33	Sep 17, 1999
Instantaneous low flow			0.10	Aug 28	0.10	Aug 28, 2008
Annual runoff (cfsm)	0.470		0.332		1.14	
Annual runoff (inches)	6.38		4.52		15.46	
10 percent exceeds	262		138		470	
50 percent exceeds	16		11		80	
90 percent exceeds	1.0		0.78		7.5	

^aSee Remarks.

