

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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 good. Maximum discharge for period of record from rating curve extended above 4,000 ft<sup>3</sup>/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. Minimum discharge for period of record also occurred October 24, 25, 26, 1974. Minimum discharge for current water year occurred on September 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 17.3 ft; discharge, 7,600 ft<sup>3</sup>/s, from information provided by North Carolina State Highway Commission.

## 02092500 TRENT RIVER NEAR TRENTON, 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	123	314	425	430	214	141	45	37	15	4.0	7.9	1.9
2	106	299	369	387	371	228	43	33	13	4.7	17	1.7
3	92	247	316	370	471	365	42	29	16	5.1	14	1.6
4	80	183	276	369	584	398	40	27	23	4.7	11	1.7
5	71	137	243	361	594	355	37	27	32	4.4	9.2	1.6
6	65	110	219	581	511	288	35	29	40	4.5	8.3	1.4
7	61	105	203	671	414	229	33	32	34	5.1	7.3	1.4
8	60	262	188	639	330	194	31	34	27	4.4	6.2	1.2
9	78	357	173	565	263	167	29	37	22	3.9	5.1	1.3
10	129	422	160	498	216	145	28	41	20	4.4	4.3	1.4
11	162	453	150	435	189	129	27	43	19	6.2	4.5	1.1
12	167	449	141	372	170	114	26	43	18	6.7	4.4	1.2
13	155	460	134	312	157	101	26	111	16	5.7	5.4	1.9
14	141	460	127	262	170	91	25	146	14	4.9	5.7	1.8
15	127	465	122	228	191	84	61	119	13	4.7	5.0	3.1
16	106	472	117	204	203	79	231	91	12	4.3	4.2	2.1
17	87	501	112	186	193	97	371	69	11	4.5	3.4	1.8
18	85	510	107	174	179	114	584	75	10	5.8	2.8	1.8
19	96	505	102	180	167	114	623	85	9.2	12	2.5	1.7
20	103	476	98	191	152	103	503	78	8.4	19	2.4	2.3
21	97	461	92	195	140	93	336	66	8.2	24	2.5	2.4
22	85	1,620	89	233	129	85	220	54	7.0	30	3.0	1.9
23	78	3,630	326	318	120	80	160	45	5.9	28	2.7	1.4
24	74	5,210	464	373	110	77	122	38	5.3	21	2.3	1.4
25	70	4,070	632	401	101	72	98	33	4.8	16	2.1	1.5
26	64	2,200	978	389	114	65	80	29	4.5	12	2.5	1.5
27	60	1,280	1,190	341	140	59	66	25	4.1	9.4	3.8	1.5
28	132	870	1,240	287	148	54	56	23	3.7	8.3	3.0	1.5
29	230	621	940	252	---	52	49	20	3.6	7.1	2.3	1.1
30	283	500	684	231	---	49	43	18	4.0	10	2.1	0.94
31	305	---	536	212	---	48	---	16	---	6.9	2.0	---
<b>Total</b>	3,572	27,649	10,953	10,647	6,741	4,270	4,070	1,553	423.7	291.7	158.9	49.14
<b>Mean</b>	115	922	353	343	241	138	136	50.1	14.1	9.41	5.13	1.64
<b>Max</b>	305	5,210	1,240	671	594	398	623	146	40	30	17	3.1
<b>Min</b>	60	105	89	174	101	48	25	16	3.6	3.9	2.0	0.94
<b>Cfsm</b>	0.69	5.49	2.10	2.04	1.43	0.82	0.81	0.30	0.08	0.06	0.03	0.01
<b>In.</b>	0.79	6.12	2.43	2.36	1.49	0.95	0.90	0.34	0.09	0.06	0.04	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	120	108	171	288	317	331	211	119	124	160	172	189
<b>Max</b>	864	922	551	703	1,024	963	684	435	768	1,381	1,587	2,121
<b>(WY)</b>	(1972)	(2007)	(1958)	(1978)	(1998)	(1983)	(1973)	(1978)	(1961)	(1962)	(1955)	(1999)
<b>Min</b>	1.58	1.80	6.65	17.2	31.8	36.5	23.1	10.2	2.77	4.78	1.81	1.64
<b>(WY)</b>	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1985)	(1985)	(1993)	(1993)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1951 - 2007	
<b>Annual total</b>	119,610		70,378.44			
<b>Annual mean</b>	328		193		194	
<b>Highest annual mean</b>					316	1960
<b>Lowest annual mean</b>					74.2	2002
<b>Highest daily mean</b>	7,960	Sep 3	5,210	Nov 24	12,000	Sep 17, 1999
<b>Lowest daily mean</b>	16	Jun 5	0.94	Sep 30	0.33	Oct 7, 1993
<b>Annual seven-day minimum</b>	21	May 30	1.3	Sep 6	0.39	Oct 22, 1973
<b>Maximum peak flow</b>			5,400	Nov 24	<sup>a</sup> 15,000	Sep 17, 1999
<b>Maximum peak stage</b>			16.64	Nov 24	<sup>a</sup> 22.33	Sep 17, 1999
<b>Instantaneous low flow</b>			<sup>a</sup> 0.94	Sep 29	<sup>a</sup> 0.30	Oct 23, 1974
<b>Annual runoff (cfsm)</b>	1.95		1.15		1.15	
<b>Annual runoff (inches)</b>	26.49		15.58		15.65	
<b>10 percent exceeds</b>	569		460		474	
<b>50 percent exceeds</b>	121		78		82	
<b>90 percent exceeds</b>	37		2.5		8.0	

<sup>a</sup> See Remarks.

