

02092500 TRENT RIVER NEAR TRENTON, NC

LOCATION.--Lat 35°03'51", long 77°27'41", Jones County, Hydrologic Unit 03020204, on left bank 50 ft downstream of Free 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.

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 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. Minimum discharge for period of record also occurred Oct. 24, 25, 26, 1974. Minimum discharge for current water year also occurred Sept. 9, 10.

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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	29	471	194	162	241	288	32	40	818	128	7.0
2	113	26	410	161	163	271	299	31	43	1,060	150	6.4
3	95	23	335	138	149	268	379	29	52	1,100	154	5.8
4	110	25	263	121	155	236	383	26	58	945	130	5.1
5	90	30	206	108	174	187	390	24	66	740	114	4.9
6	92	36	163	98	176	152	394	64	66	555	89	4.4
7	84	35	138	90	159	129	359	299	63	383	62	3.9
8	68	32	123	82	140	112	295	414	66	246	44	3.9
9	56	29	111	75	130	102	244	551	107	150	34	3.8
10	48	26	111	71	118	92	228	581	238	101	27	4.2
11	42	25	160	66	110	87	226	493	232	74	24	4.1
12	36	28	209	61	100	83	211	382	188	58	26	4.0
13	38	136	225	58	89	79	190	305	140	47	24	5.5
14	64	251	209	71	81	70	210	271	105	45	20	16
15	69	291	172	158	81	63	278	202	80	72	17	139
16	93	299	139	225	75	59	345	146	61	74	15	250
17	135	279	117	267	73	74	403	207	48	55	14	305
18	142	234	103	279	70	125	404	158	39	46	13	340
19	126	177	107	262	66	164	348	120	32	42	13	336
20	108	133	89	214	61	184	260	97	28	36	12	283
21	92	112	77	171	58	206	176	106	24	37	12	178
22	77	92	71	148	58	194	128	121	21	45	11	116
23	65	109	71	133	59	175	100	122	18	76	13	78
24	56	245	86	121	67	174	80	108	15	91	22	58
25	50	330	99	110	106	188	65	102	14	84	24	46
26	45	377	115	102	145	197	55	97	15	61	19	38
27	42	369	181	95	159	186	48	81	16	45	14	35
28	39	400	242	86	184	190	43	68	15	34	11	32
29	36	449	263	77	---	263	38	57	161	33	9.5	28
30	33	482	259	87	---	304	34	49	433	28	8.2	24
31	29	---	232	134	---	306	---	44	---	35	7.5	---
TOTAL	2,292	5,109	5,557	4,063	3,168	5,161	6,901	5,387	2,484	7,216	1,261.2	2,365.0
MEAN	73.9	170	179	131	113	166	230	174	82.8	233	40.7	78.8
MAX	142	482	471	279	184	306	404	581	433	1,100	154	340
MIN	29	23	71	58	58	59	34	24	14	28	7.5	3.8
CFSM	0.44	1.01	1.07	0.78	0.67	0.99	1.37	1.03	0.49	1.39	0.24	0.47
IN.	0.51	1.13	1.23	0.90	0.70	1.14	1.53	1.19	0.55	1.60	0.28	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	110	93.1	166	287	321	339	215	121	127	161	176	170
MAX	864	378	551	703	1,024	963	684	435	768	1,381	1,587	2,121
(WY)	(1972)	(2004)	(1958)	(1978)	(1998)	(1983)	(1973)	(1978)	(1961)	(1962)	(1955)	(1999)
MIN	1.58	1.80	6.65	17.2	31.8	36.5	23.1	10.2	2.77	4.78	1.81	2.55
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1985)	(1985)	(1993)	(1993)	(1995)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	77,392		50,964.2		191	
ANNUAL MEAN	211		140		316	
HIGHEST ANNUAL MEAN					74.2	1960
LOWEST ANNUAL MEAN					12,000	2002
HIGHEST DAILY MEAN	3,160	Aug 17	1,100	Jul 3	12,000	Sep 17, 1999
LOWEST DAILY MEAN	18	May 29	3.8	Sep 9	0.33	Oct 7, 1993
ANNUAL SEVEN-DAY MINIMUM	20	May 27	4.0	Sep 6	0.39	Oct 22, 1973
MAXIMUM PEAK FLOW			1,120	Jul 3	15,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			11.96	Jul 3	22.33*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			3.6*	Sep 7	0.30*	Oct 23, 1974
ANNUAL RUNOFF (CFSM)	1.26		0.831		1.14	
ANNUAL RUNOFF (INCHES)	17.14		11.28		15.49	
10 PERCENT EXCEEDS	444		304		474	
50 PERCENT EXCEEDS	120		95		82	
90 PERCENT EXCEEDS	36		21		8.1	

* See REMARKS.

