Water-Data Report 2012

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^2.

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 ft^3/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 ft^3/s, from information provided by North Carolina State Highway Commission.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02092500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02092500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	124	49	72	39	183	203	554	39	654	14	259	721
2	120	47	86	39	159	171	458	34	1,060	21	218	635
3	125	46	97	37	133	150	403	29	1,190	27	177	861
4	120	50	96	36	113	210	373	25	962	21	142	1,090
5	107	75	89	34	100	327	341	22	680	15	120	1,030
6	92	168	83	31	93	471	303	30	502	12	99	821
7	76	245	76	29	91	604	268	76	333	10	80	646
8	62	289	70	28	92	651	250	105	185	8.9	79	546
9	51	302	64	27	90	586	241	93	121	7.9	124	512
10	43	283	59	27	84	483	222	80	85	20	160	495
11	38	236	54	29	82	384	192	91	66	83	224	459
12	35	184	50	38	80	299	161	136	58	177	373	395
13	36	143	47	62	73	229	131	172	53	307	421	318
14	62	116	44	89	66	182	106	165	52	282	430	239
15	186	96	41	100	59	152	87	120	56	294	397	183
16	373	83	40	97	54	131	73	81	51	308	341	149
17	567	73	38	89	53	115	62	68	42	267	294	125
18	595	67	36	81	52	107	52	70	35	204	251	134
19	539	61	34	81	58	98	47	81	30	150	352	424
20	443	58	32	88	80	92	47	81	26	112	692	493
21	354	55	31	98	119	90	48	70	23	201	917	511
22	294	54	30	111	159	89	48	58	20	309	1,030	467
23	252	55	31	136	175	91	51	49	17	338	996	385
24	213	56	32	158	177	114	60	42	16	442	968	289
25	173	58	32	165	189	202	69	39	17	519	969	203
26	138	59	31	159	209	313	68	37	32	621	1,090	148
27	111	57	30	146	233	438	60	32	27	681	1,320	116
28	91	56	31	133	243	738	55	30	22	638	1,280	94
29	77	57	34	141	230	917	50	27	18	548	1,080	81
30	64	61	38	170	---	858	45	105	15	437	931	75
31	54	---	40	189	---	686	---	389	---	331	837	---
Total	5,615	3,239	1,568	2,687	3,529	10,181	4,925	2,476	6,448	7,405.8	16,651	12,645
Mean	181	108	50.6	86.7	122	328	164	79.9	215	239	537	422
Max	595	302	97	189	243	917	554	389	1,190	681	1,320	1,090
Min	35	46	30	27	52	89	45	22	15	7.9	79	75
Cfsm	1.08	0.64	0.30	0.52	0.72	1.95	0.98	0.48	1.28	1.42	3.20	2.51
In.	1.24	0.72	0.35	0.59	0.78	2.25	1.09	0.55	1.43	1.64	3.69	2.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	125	108	171	278	312	319	204	114	119	151	169	187
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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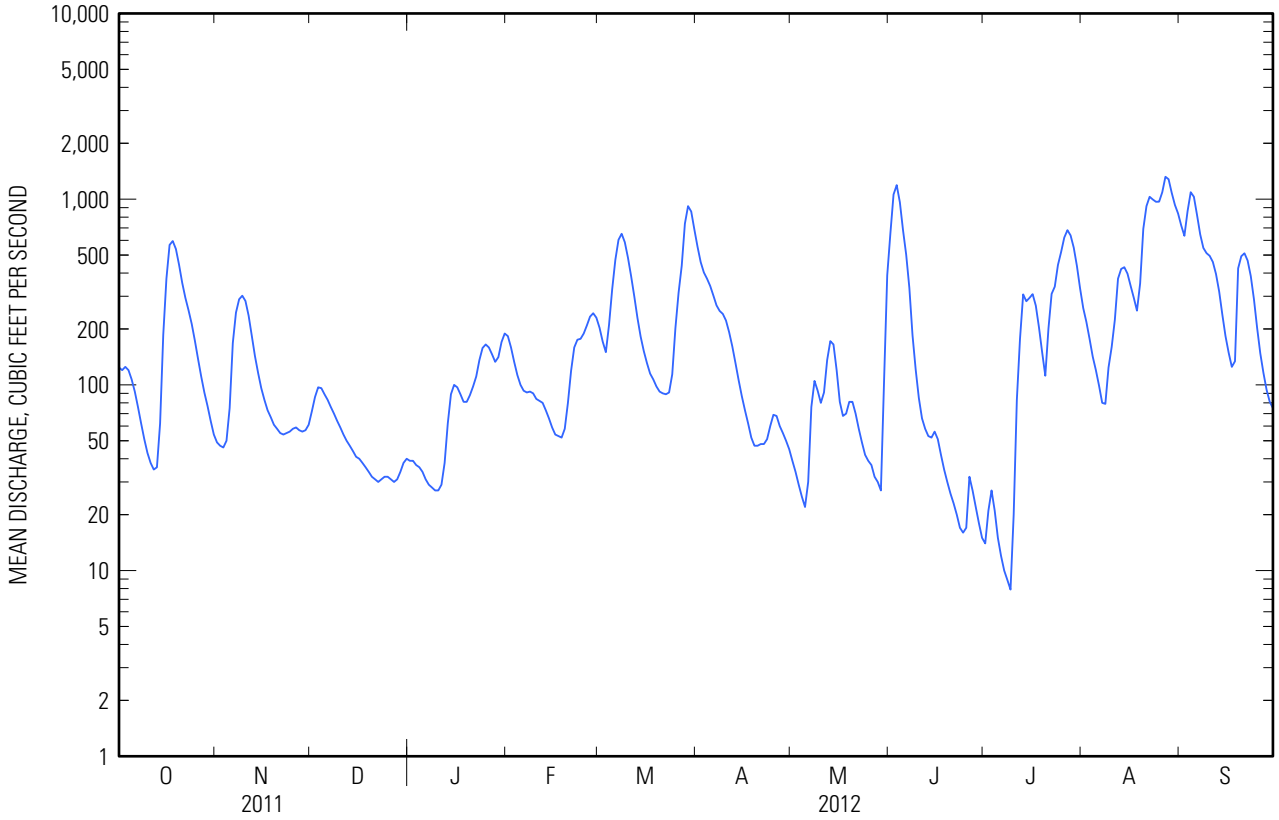
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1951 - 2012	
Annual total	42,699.16		77,369.8			
Annual mean	117		211		189	
Highest annual mean					316	1960
Lowest annual mean					55.8	2008
Highest daily mean	1,170	Aug 31	1,320	Aug 27	12,000	Sep 17, 1999
Lowest daily mean	0.46	Jul 11	7.9	Jul 9	0.18	Aug 27, 2008
Annual seven-day minimum	0.46	Jul 16	14	Jul 4	0.28	Dec 7, 2007
Maximum peak flow			1,360	Aug 27	[a]15,000	Sep 17, 1999
Maximum peak stage			12.69	Aug 27	[a]22.33	Sep 17, 1999
Instantaneous low flow			6.9	Jul 10	0.10	Aug 28, 2008
Annual runoff (cfsm)	0.696		1.26		1.12	
Annual runoff (inches)	9.45		17.13		15.27	
10 percent exceeds	291		558		467	
50 percent exceeds	68		100		78	
90 percent exceeds	1.1		31		7.2	

[a] See Remarks.