

Water-Data Report 2013

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

Upper Pee Dee Basin
South Yadkin Subbasin

LOCATION.--Lat 35°50'42", long 80°39'32" referenced to North American Datum of 1983, Rowan County, NC, Hydrologic Unit 03040102, on right bank 90 ft downstream of Secondary Road 1972 bridge, 1 mi upstream from Little Creek, 4 mi downstream of Fifth Creek, 4.5 mi upstream from Hunting Creek, and 6.5 mi southwest of Mocksville.

DRAINAGE AREA.--306 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to current year.

PRECIPITATION: October 2001 to current year, published as station 35503708393045.

REVISED RECORDS.--WDR NC-80-1: Drainage area. WDR-US-2009: 2003 (maximum discharge), 2004 (maximum discharge), 2007 (maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 663.62 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred August 15, 2002. Minimum discharge for current water year also occurred November 10, 11, 12.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of October 3, 1929, reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 ft³/s).

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	144	93	99	178	1,090	483	e280	360	219	239	689	320
2	128	94	99	191	547	387	e243	303	213	252	622	806
3	146	95	100	187	414	333	216	280	1,370	1,570	432	461
4	136	96	99	170	344	295	231	255	1,260	1,600	369	363
5	114	96	98	158	300	276	448	242	516	2,550	332	282
6	103	96	99	153	272	334	379	1,040	1,230	1,500	394	255
7	100	96	99	148	253	353	297	2,540	2,800	1,010	460	238
8	110	94	99	142	519	294	267	1,220	1,630	1,750	359	232
9	109	89	100	139	486	272	250	705	1,320	751	597	225
10	104	89	101	137	354	258	238	527	920	530	650	219
11	99	89	103	137	326	248	228	447	1,840	496	648	212
12	95	89	101	141	311	316	1,100	459	916	1,500	613	209
13	93	95	99	138	302	625	802	385	605	936	487	255
14	91	111	96	139	295	418	440	333	561	684	538	222
15	110	119	96	185	269	336	361	311	475	650	375	199
16	154	107	99	630	252	302	354	295	407	472	326	197
17	149	99	115	1,520	240	281	316	280	370	442	313	195
18	116	93	125	4,010	227	263	289	265	363	445	459	188
19	112	94	120	4,030	223	286	273	275	376	374	542	188
20	106	93	111	887	226	270	305	750	350	422	519	193
21	101	97	140	570	211	244	300	577	312	502	411	206
22	99	100	156	433	235	231	260	384	299	560	374	427
23	98	100	132	349	268	224	246	354	281	403	368	334
24	97	99	131	303	265	296	237	460	280	352	329	232
25	96	99	202	271	241	358	228	495	313	307	298	215
26	96	98	549	255	783	302	216	352	296	290	268	216
27	94	98	1,290	239	1,510	261	208	305	304	1,760	260	213
28	94	100	440	227	717	243	302	276	270	4,790	256	198
29	94	99	281	219	---	233	702	256	268	1,780	247	193
30	91	98	234	238	---	228	496	242	243	608	239	192
31	92	---	196	1,680	---	240	---	228	---	518	242	---
Total	3,371	2,915	5,809	18,204	11,480	9,490	10,512	15,201	20,607	30,043	13,016	7,885
Mean	109	97.2	187	587	410	306	350	490	687	969	420	263
Max	154	119	1,290	4,030	1,510	625	1,100	2,540	2,800	4,790	689	806
Min	91	89	96	137	211	224	208	228	213	239	239	188
Cfsm	0.36	0.32	0.61	1.92	1.34	1.00	1.15	1.60	2.24	3.17	1.37	0.86
In.	0.41	0.35	0.71	2.21	1.40	1.15	1.28	1.85	2.51	3.65	1.58	0.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	237	255	335	416	471	525	451	357	296	231	217	222
Max	1,246	791	812	1,088	1,458	1,485	1,110	885	889	969	706	880
(WY)	(1965)	(1958)	(2010)	(1978)	(1960)	(1975)	(1958)	(1984)	(2003)	(2013)	(1970)	(1979)
Min	41.0	63.2	102	97.7	141	167	114	91.4	37.6	24.6	14.8	34.5
(WY)	(2002)	(2002)	(1956)	(1956)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1939 - 2013	
Annual total	72,454		148,533			
Annual mean	198		407		333	
Highest annual mean					592	1960
Lowest annual mean					87.0	2002
Highest daily mean	4,190	May 16	4,790	Jul 28	11,800	Mar 21, 2003
Lowest daily mean	62	Sep 2	89	Nov 9	3.0	Aug 13, 2002
Annual seven-day minimum	66	Aug 27	92	Nov 7	3.3	Aug 9, 2002
Maximum peak flow			5,280	Jan 19	13,000	Mar 21, 2003
Maximum peak stage			12.88	Jan 19	20.28	Mar 21, 2003
Instantaneous low flow			^a 88	Nov 9	^a 2.8	Aug 14, 2002
Annual runoff (cfsm)	0.647		1.33		1.09	
Annual runoff (inches)	8.81		18.06		14.79	
10 percent exceeds	264		750		572	
50 percent exceeds	136		268		230	
90 percent exceeds	84		99		106	

^a See Remarks.

