Water-Data Report 2012

0214291555 LONG CREEK NEAR RHYNE, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°18′02″, long 80°58′22″ referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, 0.6 mi upstream from bridge on North Carolina Highway 27 and 0.55 mi northwest of Rhyne.

DRAINAGE AREA.--31.5 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--WDR NC-04-1: 2001 (annual maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 612.45 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--No estimate daily discharges. Records fair. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for all years affected by regulation. No flow occurs several days most years.

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 0214291555, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/0214291555.2012.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	4.2	5.4	15	16	14	17	8.6	2.1	4.0	3.5	1.3	19
2	3.8	3.8	12	15	14	23	7.4	1.7	4.1	39	0.96	32
3	3.7	4.9	11	14	13	334	6.4	1.1	2.9	9.9	18	8.2
4	3.9	281	9.9	12	14	47	6.4	1.2	2.8	4.1	320	45
5	3.9	24	9.6	12	102	22	5.7	2.1	3.0	3.0	17	56
6	3.7	14	9.4	12	28	15	36	0.70	270	2.3	14	9.3
7	4.0	11	80	12	20	12	9.7	3.0	23	2.9	19	5.7
8	3.7	9.6	43	11	17	11	5.7	17	9.6	1.5	20	5.0
9	3.5	8.8	17	12	16	21	5.3	79	5.9	1.7	15	5.7
10	3.7	7.9	13	16	15	12	5.5	9.3	4.8	1.1	68	5.4
11	25	7.6	11	47	15	10	4.6	3.8	13	42	11	4.8
12	63	6.8	10	32	13	10	5.1	2.6	48	8.5	6.8	4.7
13	12	6.6	9.6	17	13	11	5.0	4.4	28	26	5.1	3.4
14	6.8	6.9	9.3	13	13	10	4.7	266	8.2	18	4.1	4.6
15	4.5	7.0	9.4	12	13	9.9	4.6	38	5.2	22	3.6	4.5
16	3.8	30	11	11	13	8.6	3.4	254	3.3	101	1.6	3.6
17	3.5	73	68	29	15	30	3.4	15	3.8	42	7.8	6.5
18	4.2	22	18	197	13	37	4.4	5.9	3.4	56	17	79
19	183	13	13	33	29	11	8.7	3.4	3.7	27	7.6	25
20	29	10	12	22	46	8.3	4.5	2.3	5.8	19	15	8.2
21	10	9.7	369	197	18	7.5	3.8	1.7	4.0	31	5.9	5.2
22	6.7	10	95	76	16	6.8	3.6	3.6	3.3	5.9	34	3.7
23	5.3	41	74	46	26	6.8	5.6	230	3.4	3.9	29	2.3
24	4.5	14	28	35	19	19	3.2	12	3.6	3.3	6.7	3.3
25	4.6	10	21	25	22	11	2.4	6.0	4.2	2.5	4.6	3.4
26	4.2	9.1	17	22	15	7.7	3.8	3.5	5.8	4.2	3.6	3.5
27	5.4	8.7	306	30	14	6.6	3.2	2.6	4.9	2.3	3.2	3.3
28	5.9	37	67	20	15	6.2	2.6	2.1	2.5	1.9	3.1	1.6
29	47	147	29	16	15	6.2	1.8	81	3.3	1.5	3.2	12
30	12	26	22	15	---	6.1	2.1	32	3.3	0.89	2.9	4.4
31	6.3	---	19	14	---	15	---	6.6	---	0.32	3.9	---
Total	484.8	865.8	1,438.2	1,041	596	758.7	177.2	1,093.70	490.8	488.21	672.96	378.3
Mean	15.6	28.9	46.4	33.6	20.6	24.5	5.91	35.3	16.4	15.7	21.7	12.6
Max	183	281	369	197	102	334	36	266	270	101	320	79
Min	3.5	3.8	9.3	11	13	6.1	1.8	0.70	2.5	0.32	0.96	1.6
Cfsm	0.50	0.92	1.47	1.07	0.65	0.78	0.19	1.12	0.52	0.50	0.69	0.40
In.	0.57	1.02	1.70	1.23	0.70	0.90	0.21	1.29	0.58	0.58	0.79	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.2	25.8	37.8	33.5	36.8	58.0	35.1	26.3	29.5	20.1	33.2	24.0
Max	37.5	87.2	129	98.5	103	146	163	146	96.6	56.5	119	86.3
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2003)	(2008)	(2006)
Min	1.60	3.29	6.29	9.69	13.9	13.0	5.91	7.61	5.00	4.66	1.43	1.60
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2012)	(2001)	(2002)	(2001)	(2001)	(2005)

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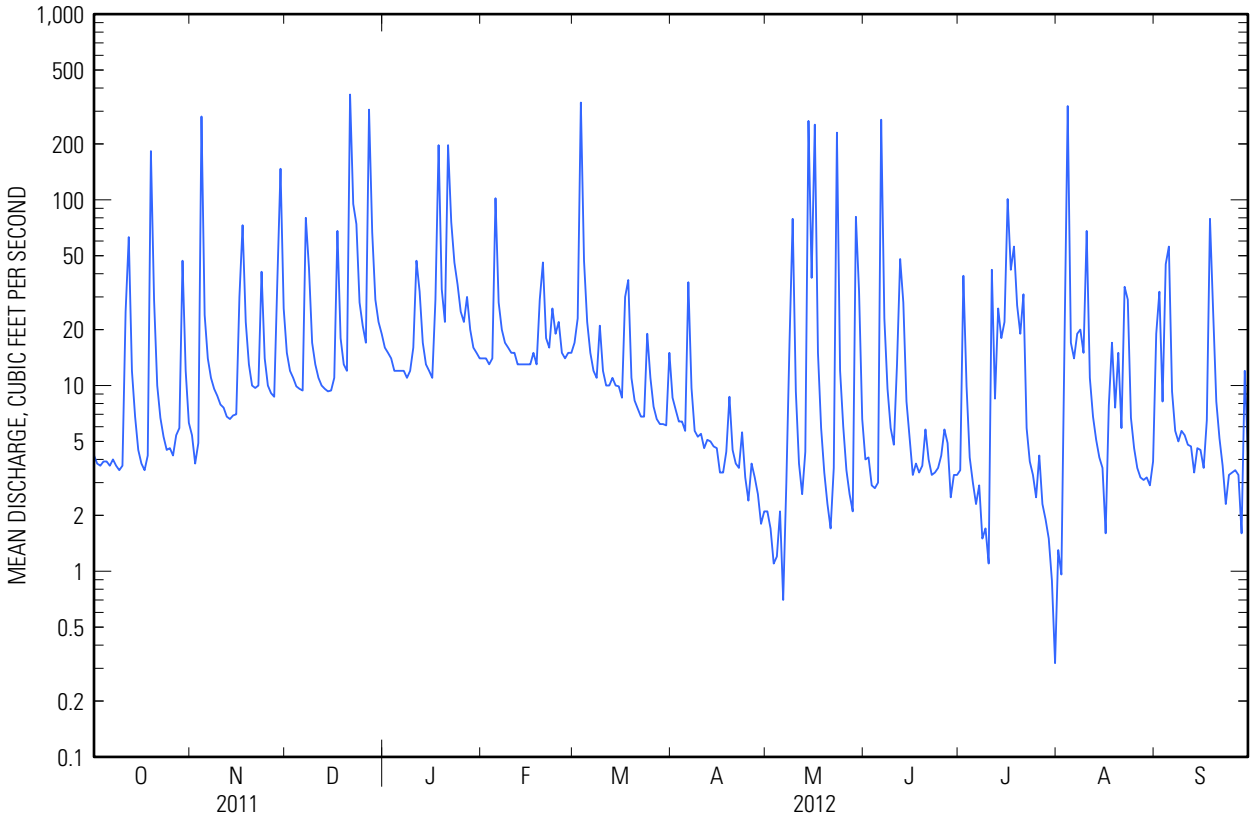
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1999 - 2012	
Annual total	11,305.85		8,485.67			
Annual mean	31.0		23.2		31.2	
Highest annual mean					78.4	2003
Lowest annual mean					10.7	2002
Highest daily mean	1,000	Aug 5	369	Dec 21	2,920	Aug 27, 2008
Lowest daily mean	0.79	Jul 25	0.32	Jul 31	[a]0.00	Aug 23, 2008
Annual seven-day minimum	1.7	Jul 24	1.3	Jul 27	0.23	Aug 8, 2002
Maximum peak flow			1,130	Dec 21	4,670	Aug 27, 2008
Maximum peak stage			7.45	Dec 21	12.27	Aug 27, 2008
Instantaneous low flow			[a]0.00	Sep 28	[a]0.00	Sep 22, 2005
Annual runoff (cfsm)	0.983		0.736		0.990	
Annual runoff (inches)	13.35		10.02		13.45	
10 percent exceeds	65		44		51	
50 percent exceeds	9.9		9.6		9.8	
90 percent exceeds	3.7		3.0		2.6	

[a] See Remarks.