

Water-Data Report 2010

02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°56'44", long 81°14'13" referenced to North American Datum of 1983, Alexander County, NC, Hydrologic Unit 03050101, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mi downstream of Grassy Creek, 0.4 mi upstream from Lambert Creek, 2.2 mi northeast of All Healing Springs, and 4 mi northwest of Taylorsville.

DRAINAGE AREA.--28.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1953 to September 1995, October 1997 to current year.

REVISED RECORDS.--WDR NC-79-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,070 ft above National Geodetic Vertical Datum of 1929, by barometer. Prior to June 13, 1953, nonrecording gage at same site and datum. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	45	19	43	51	42	57	34	28	13	16	10
2	15	29	208	40	79	43	52	33	27	13	15	9.9
3	15	23	161	37	92	42	50	38	26	12	15	9.7
4	14	20	68	36	79	41	48	35	24	12	14	8.7
5	16	18	55	34	348	40	46	32	24	11	17	8.8
6	16	17	46	33	299	39	45	31	23	11	17	8.9
7	15	16	40	32	131	39	43	30	22	10	13	9.1
8	13	16	39	31	103	39	52	30	20	9.8	12	9.5
9	13	15	190	30	89	38	56	28	21	11	11	11
10	13	24	88	29	78	37	47	28	21	15	12	8.9
11	13	299	59	30	69	40	44	29	20	11	13	9.5
12	13	100	48	29	65	44	43	31	19	22	11	11
13	14	55	62	28	62	92	42	29	19	19	10	9.0
14	18	41	58	27	57	66	40	28	20	23	12	8.3
15	19	33	50	27	56	55	40	38	23	14	16	8.1
16	16	29	43	27	53	49	39	33	22	15	13	7.5
17	15	27	39	170	51	46	38	50	20	22	12	7.3
18	14	27	40	80	49	44	37	39	17	20	21	7.3
19	13	30	41	58	48	42	37	35	17	17	61	7.3
20	13	26	38	49	47	40	37	32	18	18	20	7.1
21	14	24	37	54	47	44	44	32	17	19	16	6.8
22	14	24	38	58	52	160	38	35	20	15	15	7.3
23	14	28	39	51	52	82	37	33	e16	18	13	8.8
24	17	25	41	211	51	64	37	31	e16	15	14	7.3
25	16	24	447	960	49	56	48	30	15	14	17	6.8
26	16	23	167	133	46	57	40	28	15	14	14	11
27	20	22	88	89	45	50	39	26	14	23	15	21
28	35	20	67	72	43	58	37	25	14	27	13	22
29	20	20	55	63	---	86	35	26	13	17	12	13
30	17	20	49	64	---	75	34	25	13	14	12	14
31	18	---	46	55	---	63	---	28	---	14	11	---
Total	494	1,120	2,466	2,680	2,291	1,713	1,282	982	584	488.8	483	294.9
Mean	15.9	37.3	79.5	86.5	81.8	55.3	42.7	31.7	19.5	15.8	15.6	9.83
Max	35	299	447	960	348	160	57	50	28	27	61	22
Min	13	15	19	27	43	37	34	25	13	9.8	10	6.8
Cfsm	0.57	1.32	2.82	3.07	2.90	1.96	1.52	1.12	0.69	0.56	0.55	0.35
In.	0.65	1.48	3.25	3.54	3.02	2.26	1.69	1.30	0.77	0.64	0.64	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.1	27.4	35.6	41.9	48.4	56.3	55.0	40.5	36.3	26.8	24.9	24.0
Max	103	115	79.5	117	134	153	137	111	106	88.1	123	102
(WY)	(1965)	(1978)	(2010)	(1978)	(1960)	(1975)	(1958)	(2009)	(1975)	(1984)	(1970)	(1979)
Min	6.04	7.03	8.16	9.36	10.8	19.0	17.5	11.9	5.72	6.21	3.83	4.71
(WY)	(1955)	(1956)	(1956)	(1956)	(2001)	(2006)	(2002)	(2002)	(2008)	(2008)	(2002)	(2007)

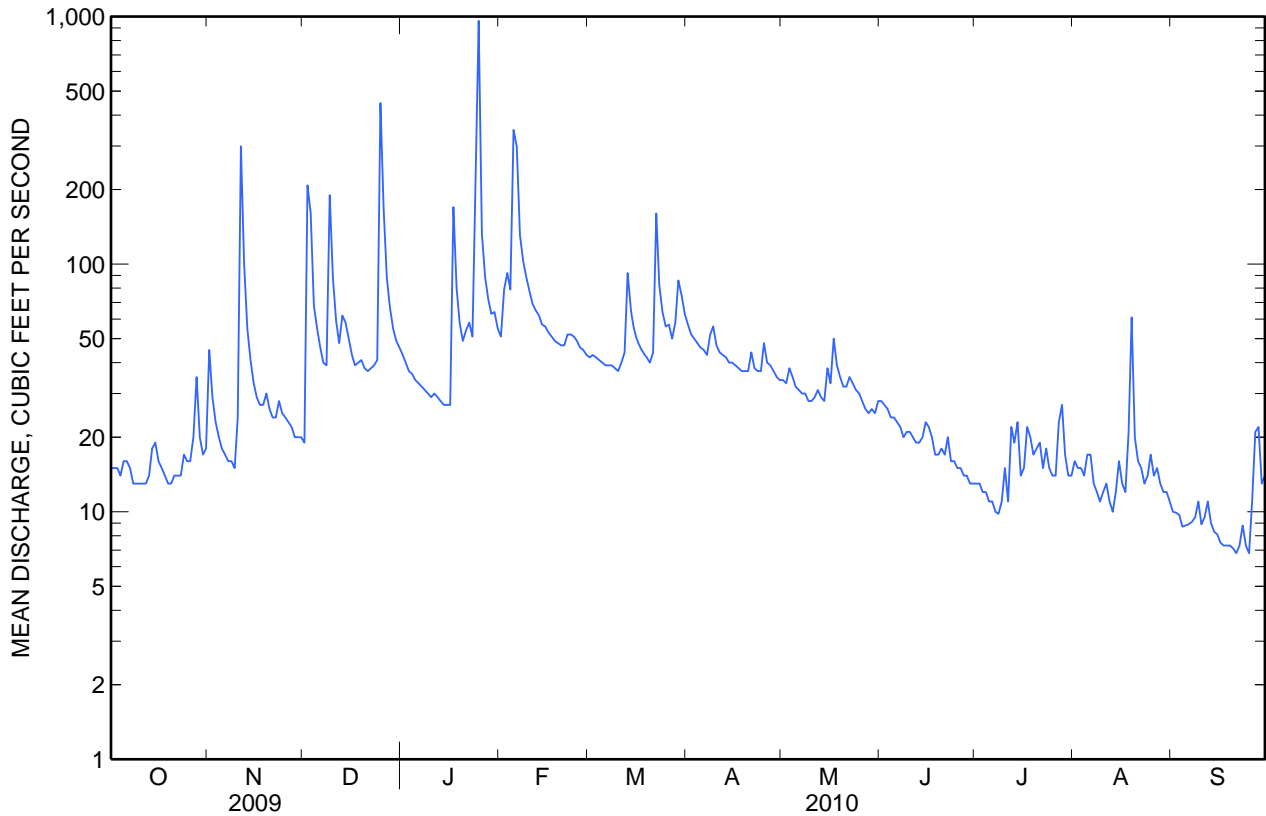
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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1953 - 2010 ^a	
Annual total	15,853		14,878.7			
Annual mean	43.4		40.8		37.0	
Highest annual mean					65.2	1993
Lowest annual mean					13.7	2002
Highest daily mean	1,260	Jun 4	960	Jan 25	2,270	Aug 10, 1970
Lowest daily mean	11	Feb 3	6.8	Sep 21	1.5	Sep 12, 2002
Annual seven-day minimum	12	Jan 31	7.2	Sep 16	1.8	Aug 18, 2008
Maximum peak flow			2,950	Jan 25	4,850	Aug 10, 1970
Maximum peak stage			11.69	Jan 25	15.68	Aug 10, 1970
Instantaneous low flow			5.6	Sep 26	^b 0.32	Jan 3, 2001
Annual runoff (cfsm)	1.54		1.45		1.31	
Annual runoff (inches)	20.91		19.63		17.82	
10 percent exceeds	68		64		65	
50 percent exceeds	24		28		25	
90 percent exceeds	14		12		11	

^a See Period of Record.

^b See Remarks



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PERIOD OF RECORD.--August 2001 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.39	0.00	0.01	---	0.00	0.00	0.00	0.40	0.00	0.05	0.00
2	0.00	0.00	2.11	0.00	---	0.10	0.00	0.00	0.24	0.00	0.00	0.00
3	0.00	0.00	0.01	0.00	---	0.00	0.00	0.49	0.00	0.00	0.00	0.00
4	0.02	0.00	0.00	0.00	---	0.00	0.00	0.00	0.11	0.00	0.00	0.00
5	0.21	0.00	0.18	0.00	---	0.00	0.00	0.00	0.00	0.00	0.65	0.00
6	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.79	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.08
9	0.01	0.00	0.67	0.00	0.03	0.00	0.00	0.00	0.00	0.61	0.00	0.00
10	0.05	1.78	0.00	0.00	0.01	0.00	0.00	0.00	0.15	0.00	0.07	0.00
11	0.00	1.75	0.00	0.00	0.00	0.35	0.00	0.06	0.00	0.00	0.00	0.14
12	0.16	0.03	0.00	0.00	0.00	0.88	0.00	0.00	0.00	1.33	0.10	0.00
13	0.01	0.00	0.64	0.00	0.14	0.27	0.00	0.00	0.17	0.57	0.01	0.00
14	0.64	0.00	0.01	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.55	0.00
15	0.05	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.87	0.00	0.10	0.00
16	0.08	0.00	0.00	0.05	0.00	0.00	0.00	0.68	0.00	0.03	0.00	0.00
17	0.03	0.00	0.00	1.92	0.00	0.00	0.00	0.67	0.00	0.41	0.27	0.01
18	0.00	0.33	---	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.36	0.00
19	0.00	0.08	---	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.37	0.00
20	0.00	0.00	---	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.50	0.00	0.82	0.41	0.32	0.04	0.00	0.06	0.00
22	0.00	0.33	0.00	0.01	0.26	0.70	0.00	0.24	0.00	0.00	0.00	0.17
23	0.01	0.14	0.00	0.00	0.04	0.00	0.03	0.14	0.00	0.00	0.00	0.01
24	0.08	0.00	0.00	2.38	0.02	0.00	0.33	0.03	0.08	0.00	0.83	0.00
25	0.00	0.00	1.75	0.69	0.01	0.14	0.56	0.00	0.00	0.15	0.08	0.06
26	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.16	0.01	0.75
27	1.24	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.44	0.25	1.35
28	0.04	0.00	0.00	0.00	0.00	0.63	0.00	0.01	0.00	0.02	0.00	0.01
29	0.00	0.00	0.00	---	---	0.17	0.00	0.00	0.00	0.00	0.00	0.30
30	0.00	0.06	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02
31	0.67	---	0.10	---	---	0.00	---	0.31	---	0.11	0.00	---
Total	3.32	4.94	---	---	---	4.11	2.66	3.47	2.08	3.89	5.76	2.90

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