

Water-Data Report 2008

02149000 COVE CREEK NEAR LAKE LURE, NC

Santee Basin
Upper Broad Subbasin

LOCATION.--Lat 35°25'24", long 82°06'42" referenced to North American Datum of 1983, Rutherford County, NC, Hydrologic Unit 03050105, on left bank 40 ft upstream from bridge on U.S. Highways 64 and 74, 1.0 mi upstream from mouth, and 5.0 mi east of Lake Lure.

DRAINAGE AREA.--79 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1950 to current year. Occasional low-flow measurements, water years 1949-50. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft above NGVD of 1929. Prior to December 20, 1954, nonrecording gage at same site and datum. Satellite telemetry at station.

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 August 8-13.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 23 ft, from records of North Carolina State Highway Commission.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	28	32	35	76	210	45	56	46	33	23	20	59
2	28	32	35	59	139	43	54	44	33	20	17	47
3	27	32	36	e51	83	42	54	43	32	19	16	39
4	34	32	36	e48	72	443	62	43	32	19	16	35
5	57	31	36	e46	63	540	121	42	30	27	14	32
6	37	31	35	45	62	170	337	42	29	35	13	30
7	33	31	35	44	69	211	165	40	28	29	12	28
8	31	31	35	42	58	238	116	39	27	23	12	27
9	31	32	36	42	55	157	95	42	26	27	12	27
10	31	33	36	45	51	117	83	39	27	34	12	73
11	29	33	36	61	46	97	76	41	27	41	12	171
12	28	32	35	52	47	85	74	41	25	25	11	69
13	29	33	34	46	50	76	66	41	24	34	12	53
14	29	32	33	44	46	71	61	41	24	46	15	43
15	28	40	34	41	44	79	59	42	25	28	19	38
16	28	36	72	40	44	109	56	52	23	24	19	43
17	29	34	45	48	44	79	55	44	22	22	21	43
18	29	34	38	51	66	72	53	42	20	20	19	37
19	31	34	37	52	51	101	53	42	20	19	16	34
20	31	34	37	48	47	186	53	39	20	19	15	33
21	29	34	47	e44	46	116	50	39	20	18	14	32
22	29	43	45	43	46	95	50	37	20	18	13	31
23	37	38	124	43	45	81	48	36	20	18	13	29
24	47	34	85	43	43	73	47	36	19	20	13	29
25	55	34	53	40	42	67	45	36	18	18	14	28
26	43	42	51	39	57	64	46	35	17	18	262	31
27	37	48	47	39	59	61	49	34	20	20	835	56
28	34	39	73	38	48	59	74	43	22	18	124	40
29	32	36	150	39	46	67	56	51	34	17	75	34
30	32	36	120	40	---	61	48	39	30	18	53	33
31	32	---	130	37	---	57	---	35	---	18	43	---
Total	1,035	1,043	1,681	1,426	1,779	3,762	2,262	1,266	747	735	1,762	1,304
Mean	33.4	34.8	54.2	46.0	61.3	121	75.4	40.8	24.9	23.7	56.8	43.5
Max	57	48	150	76	210	540	337	52	34	46	835	171
Min	27	31	33	37	42	42	45	34	17	17	11	27
Cfsm	0.42	0.44	0.69	0.58	0.78	1.54	0.95	0.52	0.32	0.30	0.72	0.55
In.	0.49	0.49	0.79	0.67	0.84	1.77	1.07	0.60	0.35	0.35	0.83	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	108	114	126	140	161	188	176	141	126	100	108	99.7
Max	381	334	278	314	335	479	391	384	309	308	396	486
(WY)	(1965)	(1993)	(1984)	(1993)	(1998)	(1979)	(1980)	(1975)	(1992)	(2003)	(2003)	(2004)
Min	24.5	33.1	38.2	39.5	52.5	68.6	59.0	39.4	24.9	23.7	21.3	24.5
(WY)	(1955)	(1955)	(1989)	(1956)	(2002)	(1988)	(2002)	(2002)	(2008)	(2008)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1951 - 2008	
Annual total	29,068		18,802			
Annual mean	79.6		51.4		133	
Highest annual mean					231	
Lowest annual mean					43.7	
Highest daily mean	1,290	Jan 1	835	Aug 27	4,340	Sep 8, 2004
Lowest daily mean	25	Sep 10	11	Aug 12	8.1	Aug 14, 2002
Annual seven-day minimum	26	Sep 7	12	Aug 7	9.2	Aug 9, 2002
Maximum peak flow			2,350	Aug 27	7,050	Jun 5, 1957
Maximum peak stage			9.26	Aug 27	18.53	Jun 5, 1957
Instantaneous low flow			^a 11	Aug 7	^a 7.7	Aug 14, 2002
Annual runoff (cfs)	1.01		0.650		1.68	
Annual runoff (inches)	13.69		8.85		22.81	
10 percent exceeds	129		76		223	
50 percent exceeds	50		39		102	
90 percent exceeds	29		19		46	

^aSee Remarks.