

Water-Data Report 2007

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.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. 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.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred August 15, 2002. Minimum discharge for current water year also occurred September 11-13.

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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	58	190	1,290	101	219	113	83	53	46	43	44
2	45	57	147	413	104	896	109	80	53	49	39	32
3	45	54	116	261	96	281	103	81	58	50	37	30
4	44	54	101	207	93	192	102	95	57	45	35	29
5	44	54	92	310	91	159	97	100	52	43	34	28
6	43	54	87	385	89	141	96	96	50	41	34	27
7	42	95	84	308	92	131	95	83	49	42	33	27
8	44	323	79	750	88	125	94	80	49	40	31	27
9	46	148	77	377	87	119	94	79	51	39	31	26
10	44	113	78	268	86	114	94	77	47	38	30	25
11	43	99	77	218	85	111	97	78	46	40	29	25
12	45	113	75	193	86	106	107	79	49	39	45	25
13	41	94	75	176	90	104	94	77	49	36	34	25
14	40	89	72	163	118	102	93	72	52	38	30	101
15	39	90	72	154	91	100	173	71	80	36	29	89
16	41	370	69	146	88	286	127	70	60	37	28	38
17	145	202	68	136	86	231	110	69	55	36	28	34
18	127	141	67	131	85	171	106	66	50	60	28	32
19	69	118	66	129	83	151	109	66	48	43	27	31
20	89	102	65	122	84	142	121	65	49	41	27	31
21	68	93	64	123	86	140	105	63	45	41	27	31
22	62	92	446	140	84	132	101	62	43	36	30	32
23	58	87	370	122	81	128	98	62	43	34	29	31
24	55	82	186	117	80	124	97	61	53	39	54	30
25	55	79	362	112	120	119	96	60	46	39	34	29
26	55	77	333	108	113	115	92	59	46	40	34	29
27	59	74	203	107	96	114	92	58	44	38	32	29
28	105	74	157	105	90	111	88	57	43	41	32	28
29	69	73	135	99	---	112	86	55	69	50	31	27
30	62	92	123	99	---	109	84	54	54	47	31	27
31	59	---	193	98	---	107	---	53	---	69	32	---
Total	1,831	3,251	4,329	7,367	2,573	5,192	3,073	2,211	1,543	1,313	1,018	1,019
Mean	59.1	108	140	238	91.9	167	102	71.3	51.4	42.4	32.8	34.0
Max	145	370	446	1,290	120	896	173	100	80	69	54	101
Min	39	54	64	98	80	100	84	53	43	34	27	25
Cfsm	0.75	1.37	1.77	3.01	1.16	2.12	1.30	0.90	0.65	0.54	0.42	0.43
In.	0.86	1.53	2.04	3.47	1.21	2.44	1.45	1.04	0.73	0.62	0.48	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	109	115	127	142	163	189	178	143	127	101	109	101
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	33.6	24.8	21.3	24.5
(WY)	(1955)	(1955)	(1989)	(1956)	(2002)	(1988)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1951 - 2007	
Annual total	34,281		34,720			
Annual mean	93.9		95.1		134	
Highest annual mean					231	1993
Lowest annual mean					43.7	2002
Highest daily mean	906	Aug 12	1,290	Jan 1	4,340	Sep 8, 2004
Lowest daily mean	38	Aug 1	25	Sep 10	8.1	Aug 14, 2002
Annual seven-day minimum	42	Oct 10	26	Sep 7	9.2	Aug 9, 2002
Maximum peak flow			2,510	Jan 1	7,050	Jun 5, 1957
Maximum peak stage			9.69	Jan 1	18.53	Jun 5, 1957
Instantaneous low flow			^a 25	Sep 10	^a 7.7	Aug 14, 2002
Annual runoff (cfsm)	1.19		1.20		1.70	
Annual runoff (inches)	16.14		16.35		23.06	
10 percent exceeds	146		152		225	
50 percent exceeds	75		75		103	
90 percent exceeds	45		31		48	

^a See Remarks.

