

SANTEE RIVER BASIN

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC

LOCATION.--Lat 34°57'07", long 80°45'21", North American Datum of 1983, Union County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on State Highway 16, 680 ft downstream of West Fork Twelve Mile Creek, and 2.5 mi north of Waxhaw.

DRAINAGE AREA.--76.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-60. October 1960 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above NGVD of 1929. Prior to Mar. 13, 1962, water-stage recorder at site 20 ft upstream, Mar. 13, 1962 to June 4, 1997, water-stage recorder at site 100 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records poor. No flow also occurred Oct. 6, 1968, Oct. 7-15, 1970, Oct. 1-22, 1983 and Aug. 26, 2001. Minimum discharge for current water year also occurred July 22.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900 is 23.6 ft, Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	0.17	0.35	6.7	14	7.1	320	7.6	8.4	0.16	0.58	159
2	2.0	0.17	0.37	6.6	13	32	60	8.2	5.1	0.09	0.44	18
3	1.4	0.17	0.41	7.3	12	194	33	8.4	3.4	0.15	0.29	10
4	0.91	0.15	0.39	8.7	13	58	25	15	2.0	0.09	0.25	6.5
5	1.2	0.13	0.37	9.3	15	16	20	21	2.0	0.07	0.24	5.0
6	1.3	0.09	0.39	41	13	15	19	12	2.8	0.06	0.20	4.9
7	2.4	0.10	0.40	74	100	14	17	9.1	13	0.09	0.17	4.4
8	2.1	0.11	0.37	18	174	13	16	7.8	4.5	0.10	0.15	4.2
9	1.4	0.17	0.34	12	43	12	15	6.9	2.1	0.06	0.13	4.2
10	1.3	0.20	0.74	9.1	23	11	16	6.4	1.1	0.09	0.11	4.2
11	0.99	0.21	31	7.5	21	11	16	6.8	0.79	0.10	0.18	3.5
12	0.91	0.19	4.4	6.3	17	10	15	8.0	0.93	0.21	0.26	3.5
13	0.83	0.16	6.5	5.9	17	19	15	8.0	1.1	15	0.21	3.6
14	13	0.16	5.6	6.1	17	20	15	13	0.77	25	0.17	3.8
15	41	0.18	4.5	5.4	13	15	14	9.7	0.69	2.0	0.17	63
16	3.1	0.22	4.0	4.7	12	13	13	6.7	0.66	0.44	0.22	181
17	1.3	0.23	3.7	4.1	12	44	12	5.9	0.63	0.13	0.67	12
18	0.87	0.23	8.0	4.3	11	53	11	6.0	0.65	0.11	0.69	6.0
19	0.87	0.27	9.9	84	11	22	10	11	0.64	0.07	0.68	3.5
20	0.38	0.32	5.6	433	9.5	16	9.6	7.9	0.54	0.06	0.63	2.3
21	0.29	0.43	3.8	51	9.2	139	8.8	6.1	0.51	0.06	0.55	2.0
22	0.29	0.34	e3.6	42	9.1	58	8.2	5.4	0.50	0.07	0.46	1.7
23	0.27	0.39	e3.4	276	8.6	17	7.4	5.0	0.46	0.06	0.37	1.8
24	0.24	0.88	e3.0	95	8.2	17	6.7	4.5	0.40	0.06	0.30	1.7
25	0.23	1.4	e2.6	291	7.9	15	6.4	4.9	0.32	0.13	0.61	1.4
26	0.20	1.5	e2.4	64	7.5	14	7.1	5.7	0.31	0.63	1.5	1.8
27	0.17	0.89	e2.4	29	7.7	15	7.6	4.9	0.25	0.25	1.2	2.5
28	0.12	0.55	e5.0	21	7.3	14	6.1	4.2	0.19	0.21	2.1	3.0
29	0.16	0.42	6.1	17	---	12	6.8	3.6	0.08	0.24	1.5	1.9
30	0.18	0.39	6.2	16	---	12	6.9	16	0.28	0.42	0.93	1.3
31	0.18	---	6.6	15	---	19	---	28	---	0.50	291	---
TOTAL	81.49	10.82	132.43	1671.0	626.0	927.1	743.6	273.7	55.10	46.71	306.96	521.7
MEAN	2.629	0.361	4.272	53.90	22.36	29.91	24.79	8.829	1.837	1.507	9.902	17.39
MAX	41	1.5	31	433	174	194	320	28	13	25	291	181
MIN	0.12	0.09	0.34	4.1	7.3	7.1	6.1	3.6	0.08	0.06	0.11	1.3
CFSM	0.03	0.00	0.06	0.70	0.29	0.39	0.32	0.12	0.02	0.02	0.13	0.23
IN.	0.04	0.01	0.06	0.81	0.30	0.45	0.36	0.13	0.03	0.02	0.15	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	49.52	35.03	62.03	130.8	155.8	158.5	89.75	42.40	31.36	34.49	41.12	29.67
MAX	372	161	261	331	351	425	289	178	111	238	318	161
(WY)	1991	1986	1984	1978	1990	1980	1973	1989	1992	1978	1995	1987
MIN	0.39	0.36	4.27	11.5	22.4	25.8	12.9	4.45	1.26	1.51	0.34	0.15
(WY)	1984	2002	2002	1981	2002	1985	2001	2001	1986	2002	2001	1968

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	5437.01		5396.61		71.35	
ANNUAL MEAN	14.90		14.79		150	
HIGHEST ANNUAL MEAN					14.8	
LOWEST ANNUAL MEAN					1991	
HIGHEST DAILY MEAN	711	Mar 21	433	Jan 20	6700	Aug 27 1995
LOWEST DAILY MEAN	0.00	Aug 26	0.06	Jul 6	0.00	Oct 6 1968
ANNUAL SEVEN-DAY MINIMUM	0.04	Sep 13	0.07	Jul 18	0.00	Oct 7 1970
MAXIMUM PEAK FLOW			974	Aug 31	9970	Aug 27 1995
MAXIMUM PEAK STAGE			9.18	Aug 31	21.94	Aug 27 1995
INSTANTANEOUS LOW FLOW			0.04*	Jul 9	0.00*	Oct 5 1968
ANNUAL RUNOFF (CFSM)	0.19		0.19		0.93	
ANNUAL RUNOFF (INCHES)	2.64		2.62		12.67	
10 PERCENT EXCEEDS	25		21		128	
50 PERCENT EXCEEDS	3.8		4.2		18	
90 PERCENT EXCEEDS	0.16		0.17		2.2	

e Estimated.
 * See REMARKS.

