

## SANTEE RIVER BASIN

0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'03", long 80°55'24", Mecklenburg County, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, .6 mi upstream from bridge on NC Highway 27 and 5.5 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage 610 ft above sea level, from topographic map. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Maximum discharge for current water year and period of record from slope area computation of peak flow. Maximum stage for current water year and period of record from floodmarks. Minimum discharge for current water year and period of record also occurred on Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.9	4.7	e4.5	6.2	10	30	5.2	35	3.3	1.6	.33
2	3.8	2.3	4.5	e4.6	6.0	9.0	21	5.5	17	5.2	1.3	.15
3	3.6	1.8	4.6	e4.6	5.9	13	22	5.5	6.5	5.7	1.0	.44
4	3.4	1.6	4.3	e4.8	5.8	101	20	5.1	4.9	7.9	3.0	.69
5	3.6	1.8	4.4	e5.0	5.7	30	16	4.9	4.7	27	1.6	7.6
6	3.7	2.2	4.4	e5.1	5.8	16	15	4.6	3.9	4.2	.96	2.6
7	3.5	2.0	4.3	e5.0	6.0	12	14	4.3	3.2	2.6	1.3	1.6
8	3.2	2.1	4.4	14	5.6	10	12	4.7	5.6	2.7	.81	1.3
9	3.2	14	4.3	10	5.6	9.4	11	5.6	4.7	3.7	.65	1.2
10	4.1	15	4.2	5.6	8.2	8.4	10	4.8	3.3	2.7	.79	1.1
11	4.8	8.4	4.2	5.2	6.5	7.9	9.7	3.9	2.8	2.5	.77	1.0
12	6.8	7.0	4.3	7.2	7.0	8.5	9.1	3.2	3.0	2.6	5.1	.96
13	6.2	7.1	4.2	14	11	16	16	3.3	2.7	5.0	1.1	.80
14	4.1	17	8.6	6.7	14	8.4	13	3.0	7.1	3.5	3.5	.63
15	4.1	9.0	7.7	5.8	8.3	90	9.7	3.0	3.3	2.5	1.1	.85
16	3.5	5.6	15	5.6	7.4	39	9.9	2.8	2.6	2.8	1.3	2.8
17	3.5	13	38	5.2	112	17	8.8	3.2	2.5	1.6	2.2	1.4
18	3.7	8.2	10	5.8	21	12	8.9	3.0	2.0	1.7	6.0	.77
19	3.6	13	7.5	34	14	10	9.0	2.7	1.9	8.2	3.1	1.3
20	4.2	20	8.7	50	11	91	8.7	15	1.6	3.6	1.0	9.0
21	4.0	11	e6.1	21	9.6	431	8.5	11	1.9	2.1	1.0	5.4
22	3.8	6.6	e5.7	11	30	55	8.3	21	8.8	1.5	.76	3.6
23	3.5	5.9	e5.0	8.5	17	27	7.6	18	23	3.6	.74	1.8
24	2.9	5.5	e4.8	7.5	11	19	8.2	5.4	e3.9	5.2	.69	84
25	3.2	31	e4.7	7.8	63	17	24	6.4	e15	9.1	.80	15
26	2.9	20	e4.6	6.4	29	14	8.2	24	11	12	.51	4.1
27	2.6	7.9	e4.4	6.3	15	12	6.4	5.9	7.6	3.6	.37	2.2
28	2.3	5.9	e4.5	6.1	12	11	5.9	25	3.2	2.4	.31	1.3
29	2.4	5.4	e4.4	6.3	---	587	5.5	15	2.9	2.1	.30	1.2
30	2.1	5.4	e4.4	9.0	---	440	5.2	6.6	2.5	2.0	.27	1.1
31	1.6	---	e4.5	7.8	---	46	---	4.3	---	1.8	.31	---
TOTAL	111.9	257.6	205.4	300.4	459.6	2177.6	361.6	235.9	198.1	144.4	44.24	268.09
MEAN	3.61	8.59	6.63	9.69	16.4	70.2	12.1	7.61	6.60	4.66	1.43	8.94
MAX	6.8	31	38	50	112	587	30	25	35	27	6.0	84
MIN	1.6	1.6	4.2	4.5	5.6	7.9	5.2	2.7	1.6	1.5	.27	.15
CFSM	.11	.27	.21	.31	.52	2.23	.38	.24	.21	.15	.05	.28
IN.	.13	.30	.24	.35	.54	2.57	.43	.28	.23	.17	.05	.32

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	10.9	8.67	11.7	27.0	29.9	47.2	23.1	8.19	7.36	10.0	6.02	10.9
MAX	24.2	10.4	18.8	39.8	44.1	70.2	36.8	8.81	10.4	16.2	13.7	18.4
(WY)	2000	2000	1999	1999	2000	2001	2000	2000	1999	2000	2000	2000
MIN	3.61	6.99	6.63	9.69	16.4	13.0	12.1	7.61	5.08	4.66	1.43	5.41
(WY)	2001	1999	2001	2001	2001	1999	2001	2001	2000	2001	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	7651.0		4764.83			
ANNUAL MEAN	20.9		13.1		16.7	
HIGHEST ANNUAL MEAN					23.1	
LOWEST ANNUAL MEAN					13.1	
HIGHEST DAILY MEAN	476	Mar 20	587	Mar 29	587	Mar 29 2001
LOWEST DAILY MEAN	1.5	Sep 17	.15	Sep 2	.15	Sep 2 2001
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 30	.29	Aug 27	.29	Aug 27 2001
MAXIMUM PEAK FLOW			2600*		2600*	
MAXIMUM PEAK STAGE			9.45* Mar 29		9.45* Mar 29 0000	
INSTANTANEOUS LOW FLOW			.02* Sep 2		.02* Sep 2 2001	
ANNUAL RUNOFF (CFSM)	.66		.41		.53	
ANNUAL RUNOFF (INCHES)	9.04		5.63		7.21	
10 PERCENT EXCEEDS	36		20		27	
50 PERCENT EXCEEDS	7.6		5.2		6.2	
90 PERCENT EXCEEDS	2.9		1.3		2.3	

e Estimated.

\* See REMARKS.

0214291555 LONG CREEK NEAR RHYNE, NC--Continued

