

## SANTEE RIVER BASIN

0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'02", long 80°58'22", North American Datum of 1983, 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 0.55 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 NGVD of 1929, from topographic map. Radio telemetry at station.

REMARKS.--Records 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 gage height for period of record from floodmarks. Minimum discharge for period of record also occurred on Sept. 3, 2001.

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	1.0	2.3	3.4	2.8	8.0	5.1	51	4.8	5.9	0.99	0.44	19
2	1.0	3.2	2.9	3.1	8.8	94	17	4.8	21	25	0.52	5.2
3	0.82	2.4	2.6	3.4	6.7	130	13	4.6	3.8	24	5.2	2.4
4	0.85	2.5	2.4	4.6	6.4	38	10	23	3.0	29	1.1	1.7
5	0.96	2.6	2.5	3.7	6.4	18	9.3	10	2.6	3.5	0.62	1.1
6	0.98	2.5	2.5	4.2	8.1	14	8.7	5.1	16	2.2	0.74	1.4
7	1.4	2.3	2.5	16	86	12	8.2	5.4	50	1.7	0.48	1.4
8	1.1	2.5	2.4	5.8	87	10	8.0	4.8	5.2	1.5	0.29	0.82
9	0.89	2.5	2.2	4.4	20	9.4	8.0	4.1	3.4	1.1	e0.28	2.2
10	0.84	2.4	19	4.0	22	8.9	9.4	3.8	2.9	0.94	e0.26	0.40
11	0.86	2.4	57	3.7	17	8.0	7.9	35	2.6	0.92	e0.22	0.24
12	0.96	2.4	5.9	3.6	11	27	8.7	6.8	2.0	0.80	e0.20	0.20
13	1.3	2.5	4.5	5.3	9.1	56	9.1	45	2.0	1.4	e0.20	0.12
14	1.5	2.6	3.7	4.7	8.0	27	7.4	44	1.8	152	e0.18	15
15	4.0	2.6	2.9	3.5	7.4	16	7.0	7.3	1.8	15	3.4	47
16	0.99	2.4	2.4	3.4	7.1	13	6.7	5.4	1.7	5.9	28	46
17	0.78	2.3	4.3	3.2	6.8	46	6.2	6.8	1.7	3.7	82	22
18	0.98	2.5	33	3.3	6.3	31	12	10	1.6	2.8	6.0	3.7
19	1.2	2.5	5.0	100	6.1	23	6.3	6.0	1.5	4.0	3.2	4.8
20	1.3	2.4	3.2	95	6.2	15	5.6	4.5	1.5	2.4	1.9	2.6
21	1.4	2.5	2.7	32	6.4	52	5.4	4.5	1.3	2.1	1.3	1.2
22	1.7	2.5	2.6	16	6.0	24	5.0	4.2	1.2	2.3	0.96	1.00
23	1.6	3.0	2.6	341	5.7	15	4.7	4.0	1.4	1.3	0.85	0.90
24	1.7	19	3.0	52	5.5	13	5.1	3.6	1.3	0.67	0.74	0.67
25	7.7	6.2	3.1	72	5.4	11	6.3	3.5	1.3	2.4	2.3	0.77
26	3.5	4.5	2.7	25	5.5	12	5.6	4.0	2.3	7.7	1.5	29
27	2.0	2.8	2.7	16	5.3	18	5.2	3.6	4.8	4.8	1.3	27
28	1.7	2.9	2.9	12	5.1	10	4.9	3.0	1.8	2.3	1.9	14
29	e1.4	2.6	2.9	10	---	9.1	4.6	2.7	1.5	1.4	2.5	3.2
30	e1.2	2.8	2.8	8.8	---	14	4.3	5.4	1.2	0.77	1.3	1.9
31	1.9	---	2.8	8.2	---	25	---	11	---	0.55	54	---
TOTAL	49.51	98.6	195.1	908.5	389.3	804.5	270.6	290.7	150.1	305.14	203.88	256.92
MEAN	1.597	3.287	6.294	29.31	13.90	25.95	9.020	9.377	5.003	9.843	6.577	8.564
MAX	7.7	19	57	341	87	130	51	45	50	152	82	47
MIN	0.78	2.3	2.2	2.8	5.1	5.1	4.3	2.7	1.2	0.55	0.18	0.12
CFSM	0.05	0.10	0.20	0.93	0.44	0.82	0.29	0.30	0.16	0.31	0.21	0.27
IN.	0.06	0.12	0.23	1.07	0.46	0.95	0.32	0.34	0.18	0.36	0.24	0.30

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	8.607	7.326	10.37	27.57	25.95	41.91	19.55	8.484	6.769	9.989	6.163	10.33
MAX	24.2	10.4	18.8	39.8	44.1	70.2	36.8	9.38	10.4	16.2	13.7	18.4
(WY)	2000	2000	1999	1999	2000	2001	2000	2002	1999	2000	2000	2000
MIN	1.60	3.29	6.29	9.69	13.9	13.0	9.02	7.61	5.00	4.66	1.43	5.41
(WY)	2002	2002	2002	2001	2002	1999	2002	2001	2002	2001	2001	1999

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

ANNUAL TOTAL	4533.14	3922.85		
ANNUAL MEAN	12.42	10.75		15.22
HIGHEST ANNUAL MEAN				23.1
LOWEST ANNUAL MEAN				10.7
HIGHEST DAILY MEAN	587	Mar 29	341	Jan 23
LOWEST DAILY MEAN	0.15	Sep 2	0.12	Sep 13
ANNUAL SEVEN-DAY MINIMUM	0.29	Aug 27	0.23	Aug 8
MAXIMUM PEAK FLOW			881	Jan 23
MAXIMUM PEAK STAGE			7.31	Jan 23
INSTANTANEOUS LOW FLOW			NOT DETERMINED	0.02*
ANNUAL RUNOFF (CFSM)	0.39		0.34	0.48
ANNUAL RUNOFF (INCHES)	5.36		4.63	6.57
10 PERCENT EXCEEDS	19		25	27
50 PERCENT EXCEEDS	4.3		3.7	5.7
90 PERCENT EXCEEDS	1.0		0.96	1.6

e Estimated.

\* See REMARKS.

0214291555 LONG CREEK NEAR RHYNE, NC--Continued

