

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°12'13", long 80°50'13", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge at Medical Center Drive, 3.3 mi upstream from Briar Creek, and 1.3 mi south of city hall in Charlotte.

DRAINAGE AREA.--11.8 mi<sup>2</sup>, revised.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year. Fragmentary records 1964-1966, in files of Geological Survey as "Little Sugar Creek at Brunswick Avenue at Charlotte".

GAGE.--Water-stage recorder. Datum of gage is 612.82 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record and current water year also occurred on Aug. 8, 9, 10, 11, 12, 13, 14, 2002.

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	2.4	2.8	2.9	2.8	4.1	4.0	23	6.1	5.1	14	1.3	10
2	2.4	6.2	2.4	2.8	3.5	129	5.8	3.4	4.0	2.8	24	3.1
3	2.3	3.3	2.4	6.3	3.3	53	4.7	6.2	2.2	3.5	3.5	2.4
4	2.4	2.5	2.5	5.8	3.4	6.8	4.3	49	2.0	3.3	1.4	2.1
5	2.3	2.7	2.7	4.2	3.4	4.8	4.1	4.8	1.9	1.4	1.2	2.2
6	29	2.7	2.8	125	20	4.6	3.8	3.3	22	1.3	1.2	2.4
7	3.1	2.8	2.7	6.9	53	4.1	3.8	3.2	5.6	1.3	1.1	2.3
8	2.4	2.8	2.7	3.9	13	4.0	3.8	3.1	1.9	1.3	1.1	2.3
9	2.3	2.7	2.6	3.3	4.8	4.2	4.1	3.2	1.7	1.2	1.1	2.4
10	2.3	2.8	118	3.2	14	4.3	5.7	5.3	1.7	1.2	1.1	2.5
11	2.3	2.8	22	3.3	5.2	3.6	3.7	10	1.7	1.4	1.0	2.4
12	2.4	3.0	3.7	5.0	4.0	29	5.6	3.1	1.7	1.5	1.0	2.2
13	2.4	2.9	4.1	6.4	4.0	25	4.5	30	1.7	79	1.1	2.3
14	10	3.1	3.3	3.2	3.6	5.7	3.6	5.7	1.6	199	1.1	21
15	3.4	3.2	2.9	3.0	3.7	4.5	5.4	3.0	1.6	3.6	9.0	71
16	2.4	2.9	3.2	2.9	4.6	4.1	3.9	2.8	1.5	2.4	148	20
17	2.1	2.9	28	2.9	3.9	56	3.3	3.0	1.6	2.1	83	23
18	2.2	2.9	14	3.0	3.4	6.9	3.3	20	1.7	1.9	3.7	3.1
19	2.1	2.9	4.0	183	3.3	5.0	3.3	3.4	1.9	1.8	2.3	2.7
20	2.2	3.2	3.2	18	4.0	7.0	3.3	2.9	1.9	1.7	1.9	2.3
21	2.3	3.0	3.1	23	3.6	40	3.3	2.8	1.6	1.7	1.7	2.3
22	2.3	2.9	2.7	5.4	3.3	5.9	3.3	2.8	1.6	1.7	1.6	2.2
23	2.4	6.8	2.8	208	3.2	4.7	3.2	2.7	1.9	1.6	1.6	2.1
24	2.5	25	4.6	15	3.2	4.4	3.3	2.7	1.9	25	23	2.1
25	34	3.0	2.8	33	3.2	4.2	7.4	2.6	2.1	58	15	2.1
26	2.6	2.5	2.8	5.7	3.3	8.0	3.3	2.6	19	3.9	4.6	44
27	2.3	2.5	2.7	4.6	3.2	5.3	3.2	2.6	2.6	1.9	7.5	10
28	2.3	2.5	2.7	4.3	3.2	4.0	3.2	2.8	1.9	1.4	5.2	4.4
29	2.7	2.6	2.7	4.0	---	4.0	3.4	3.0	1.9	1.4	2.4	2.5
30	2.7	3.5	2.7	3.8	---	12	3.5	128	1.9	1.4	1.8	2.3
31	2.7	---	2.8	3.8	---	62	---	7.1	---	1.3	212	---
TOTAL	141.2	115.4	262.5	705.5	188.4	520.1	140.1	331.2	101.4	425.0	565.5	255.7
MEAN	4.555	3.847	8.468	22.76	6.729	16.78	4.670	10.68	3.380	13.71	18.24	8.523
MAX	34	25	118	208	53	129	23	128	22	199	212	71
MIN	2.1	2.5	2.4	2.8	3.2	3.6	3.2	2.6	1.5	1.2	1.0	2.1
CFSM	0.39	0.33	0.72	1.93	0.57	1.42	0.40	0.91	0.29	1.16	1.55	0.72
IN.	0.45	0.36	0.83	2.22	0.59	1.64	0.44	1.04	0.32	1.34	1.78	0.81

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	14.42	12.01	10.73	24.40	22.33	19.42	19.04	11.89	12.96	22.37	16.77	17.20
MEAN	14.42	12.01	10.73	24.40	22.33	19.42	19.04	11.89	12.96	22.37	16.77	17.20
MAX	28.9	30.3	23.1	48.5	36.9	29.8	42.0	21.5	20.3	81.8	50.0	29.6
(WY)	1996	1996	1998	1998	1995	2001	1998	1995	1995	1997	1995	2000
MIN	3.88	3.85	6.02	10.3	6.73	8.45	4.67	4.37	3.38	9.61	4.65	8.52
(WY)	2001	2002	2001	2001	2002	1999	2002	1999	2002	1999	1997	2002

## SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1995 - 2002

ANNUAL TOTAL	4044.4	3752.0	
ANNUAL MEAN	11.08	10.28	16.94
HIGHEST ANNUAL MEAN			23.8
LOWEST ANNUAL MEAN			10.3
HIGHEST DAILY MEAN	314	Mar 29	212
LOWEST DAILY MEAN	2.0	Sep 18	1.0
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 16	1.1
MAXIMUM PEAK FLOW			1860
MAXIMUM PEAK STAGE			9.77
INSTANTANEOUS LOW FLOW			1.0*
ANNUAL RUNOFF (CFSM)	0.94		0.87
ANNUAL RUNOFF (INCHES)	12.75		11.83
10 PERCENT EXCEEDS	21		21
50 PERCENT EXCEEDS	3.7		3.2
90 PERCENT EXCEEDS	2.5		1.7
			1970
			Jul 23 1997
			1.0
			Aug 11 2002
			1.1
			Aug 7 2002
			5310
			Jul 23 1997
			14.83
			Jul 23 1997
			1.0*
			Aug 7 2002
			1.44
			19.50
			32
			5.2
			2.5

\* See REMARKS.

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

