

SANTEE RIVER BASIN

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

LOCATION.--Lat 35°12'11", long 80°50'15", 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 mi², 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 sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 6, 8, 1997 and may have been affected by regulation of unknown origin. Minimum discharge for current water year also occurred Sept. 19.

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	4.3	3.5	3.2	3.4	8.8	4.5	10	3.8	36	2.7	3.1	3.1
2	3.4	3.5	3.3	e3.6	8.9	5.1	6.8	3.7	5.6	2.9	3.0	2.6
3	3.4	3.5	3.1	e3.6	8.9	23	9.2	3.6	3.9	3.3	3.0	140
4	3.1	4.0	3.3	3.5	8.8	88	6.3	3.5	3.6	116	3.0	92
5	3.5	4.1	3.3	e3.5	8.8	10	5.7	3.5	3.4	14	2.8	4.7
6	3.3	3.1	4.1	3.4	8.8	5.8	5.6	3.4	3.3	3.5	2.9	3.4
7	20	3.4	4.9	3.3	8.8	5.2	5.5	3.3	3.2	2.9	2.8	3.1
8	3.0	3.6	4.8	22	8.9	4.9	5.4	3.4	7.4	5.8	2.8	2.9
9	3.1	18	4.7	5.4	8.8	4.9	5.5	3.5	3.7	3.9	2.7	11
10	3.3	12	4.8	4.0	13	4.6	5.3	3.5	3.2	3.0	3.5	3.5
11	3.1	3.0	4.8	3.8	8.7	4.8	5.3	3.5	3.2	2.8	13	2.5
12	3.2	2.9	4.8	19	16	15	5.1	3.6	3.1	2.7	4.4	2.4
13	3.3	2.9	6.5	6.2	17	9.2	30	3.6	108	5.1	5.6	2.4
14	3.2	24	9.3	3.6	18	5.0	5.2	3.3	9.8	2.8	3.0	3.2
15	3.2	3.7	3.5	3.5	9.8	75	6.4	3.7	3.8	2.5	3.2	2.5
16	3.7	3.0	21	3.6	10	8.4	5.0	3.8	3.3	2.5	2.9	2.2
17	3.8	16	44	3.5	121	6.0	4.3	4.0	3.0	2.6	2.7	2.1
18	3.1	3.4	4.6	8.1	8.4	5.4	4.2	4.1	3.2	3.8	42	2.0
19	3.0	34	e4.5	62	6.5	5.1	4.4	4.1	2.9	3.9	7.5	2.0
20	3.0	9.7	e4.2	33	5.8	151	4.4	4.0	2.8	2.6	3.1	26
21	3.1	4.4	e4.0	15	5.4	87	4.2	28	2.8	2.5	2.9	3.1
22	3.2	3.5	e3.8	11	40	10	4.1	31	42	2.5	2.7	2.6
23	3.3	3.4	3.6	10	6.1	7.2	4.2	5.7	6.1	4.8	2.6	2.6
24	e3.5	3.3	3.6	9.5	4.9	6.4	6.0	36	3.0	63	4.4	242
25	e3.3	83	3.5	9.2	34	6.3	54	11	3.0	9.3	2.6	5.3
26	3.4	6.9	3.6	9.1	6.7	5.8	4.8	31	21	13	2.4	3.1
27	3.4	4.1	3.8	9.1	5.0	5.5	4.2	4.1	3.9	3.7	2.5	2.6
28	3.5	3.5	3.4	9.2	4.8	5.4	3.9	33	6.0	3.5	2.5	2.4
29	3.4	3.4	3.4	9.2	---	314	3.8	20	4.8	3.9	2.8	2.3
30	3.5	3.3	e3.6	16	---	25	3.8	4.6	2.8	3.3	3.1	2.3
31	3.6	---	3.6	9.2	---	10	---	3.8	---	3.1	7.9	---
TOTAL	120.2	280.1	186.6	318.5	420.6	923.5	232.6	281.1	311.8	301.9	153.4	581.9
MEAN	3.88	9.34	6.02	10.3	15.0	29.8	7.75	9.07	10.4	9.74	4.95	19.4
MAX	20	83	44	62	121	314	54	36	108	116	42	242
MIN	3.0	2.9	3.1	3.3	4.8	4.5	3.8	3.3	2.8	2.5	2.4	2.0
CFSM	.33	.79	.51	.87	1.27	2.52	.66	.77	.88	.83	.42	1.64
IN.	.38	.88	.59	1.00	1.33	2.91	.73	.89	.98	.95	.48	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001
MEAN	15.8	13.2	11.0	24.6	24.5	19.8	21.1
MAX	28.9	30.3	23.1	48.5	36.9	29.8	42.0
(WY)	1996	1996	1998	1998	1995	2001	1998
MIN	3.88	5.48	6.02	10.3	13.6	8.45	7.06
(WY)	2001	1999	2001	2001	1999	1999	1995

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1995 - 2001

ANNUAL TOTAL	5453.8	4112.2	
ANNUAL MEAN	14.9	11.3	17.9
HIGHEST ANNUAL MEAN			23.8
LOWEST ANNUAL MEAN			11.3
HIGHEST DAILY MEAN	341	Sep 23	314
LOWEST DAILY MEAN	2.9	Aug 23	2.0
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 8	2.3
MAXIMUM PEAK FLOW			1350
MAXIMUM PEAK STAGE			8.48
INSTANTANEOUS LOW FLOW			1.7*
ANNUAL RUNOFF (CFSM)	1.26	.95	1.52
ANNUAL RUNOFF (INCHES)	17.19	12.96	20.60
10 PERCENT EXCEEDS	26	20	33
50 PERCENT EXCEEDS	5.2	3.9	5.6
90 PERCENT EXCEEDS	3.4	2.8	2.8

e Estimated.
* See REMARKS.

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

