

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

LOCATION.--Lat 35°12'13", long 80°50'13", 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>.

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".

REVISED RECORDS.--WDR NC-96-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 612.82 ft above 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 on Aug. 8-14, 2002. Minimum discharge for current water year also occurred on Oct. 5-10.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.1	4.1	18	12	73	10	5.8	11	12	7.6	12
2	2.2	4.0	4.2	11	11	45	9.7	14	7.5	168	7.7	5.9
3	2.1	3.8	4.1	26	11	15	9.0	7.5	90	10	29	5.6
4	2.1	4.2	19	11	27	13	8.8	8.7	35	7.3	271	14
5	2.1	67	188	9.8	11	19	14	7.9	9.2	6.8	129	6.8
6	1.9	55	13	9.8	29	267	23	176	27	6.5	14	5.3
7	2.0	5.9	8.6	9.5	58	16	330	13	762	6.5	9.6	5.1
8	1.9	4.9	6.9	9.6	13	11	68	7.9	150	6.8	30	5.4
9	2.0	4.6	6.3	9.5	12	9.8	185	6.6	99	35	18	5.5
10	2.3	4.6	5.9	9.4	27	9.0	580	6.1	14	11	26	5.2
11	289	51	61	9.2	12	8.5	46	5.8	10	65	7.4	5.1
12	5.3	162	7.8	9.1	11	8.2	15	5.5	21	35	21	4.9
13	178	12	185	9.1	10	8.0	11	5.3	9.1	202	13	4.9
14	6.7	6.2	15	9.2	17	7.6	9.2	5.3	7.9	15	100	4.8
15	73	5.3	8.4	9.0	15	57	8.1	94	7.4	7.9	13	4.8
16	136	125	7.3	11	17	180	7.4	13	105	6.9	67	4.7
17	6.6	e45	6.6	12	31	15	6.8	6.0	113	104	17	4.8
18	4.7	e7.2	6.5	9.4	31	22	231	11	105	8.9	9.1	4.9
19	4.0	5.9	6.5	9.0	15	34	41	7.9	38	121	7.0	5.2
20	4.1	5.3	56	9.3	13	633	12	5.5	12	10	6.6	4.9
21	14	4.9	7.5	12	12	23	12	272	9.3	15	6.3	4.6
22	17	4.7	6.4	10	148	14	8.9	755	8.5	9.5	29	66
23	4.3	4.5	6.3	16	25	11	7.4	43	8.0	9.1	6.3	62
24	3.9	4.4	253	11	13	10	6.9	47	7.8	6.3	5.9	5.4
25	4.7	4.3	118	11	12	9.2	20	284	7.5	5.9	5.7	5.0
26	5.2	4.3	16	12	33	8.9	13	62	7.4	25	5.7	5.1
27	3.7	4.3	13	11	83	11	7.1	199	9.8	7.4	5.6	8.9
28	63	4.1	11	9.9	20	8.3	6.4	14	13	6.3	5.5	9.8
29	13	4.2	11	14	---	8.7	6.2	11	7.6	81	5.4	4.9
30	6.6	4.3	11	121	---	132	6.2	8.5	7.9	128	52	5.1
31	4.6	---	11	18	---	13	---	85	---	14	36	---
TOTAL	868.2	627.0	1,084.4	465.8	729	1,700.2	1,719.1	2,193.3	1,719.9	1,153.1	966.4	296.6
MEAN	28.0	20.9	35.0	15.0	26.0	54.8	57.3	70.8	57.3	37.2	31.2	9.89
MAX	289	162	253	121	148	633	580	755	762	202	271	66
MIN	1.9	3.8	4.1	9.0	10	7.6	6.2	5.3	7.4	5.9	5.4	4.6
CFSM	2.37	1.77	2.96	1.27	2.21	4.65	4.86	6.00	4.86	3.15	2.64	0.84
IN.	2.74	1.98	3.42	1.47	2.30	5.36	5.42	6.91	5.42	3.64	3.05	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY)

MEAN	15.9	13.0	13.4	23.4	22.7	23.4	23.3	18.4	17.9	24.0	18.4	16.4
MAX	28.9	30.3	35.0	48.5	36.9	54.8	57.3	70.8	57.3	81.8	50.0	29.6
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1995 - 2003	
ANNUAL TOTAL	5,812.5		13,519.5		19.2	
ANNUAL MEAN	15.9		37.0		37.0	
HIGHEST ANNUAL MEAN					10.3	2003
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	289	Oct 11	762	Jun 7	1,970	Jul 23, 1997
LOWEST DAILY MEAN	1.0	Aug 11	1.9	Oct 6	1.0	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 7	2.0	Oct 3	1.1	Aug 7, 2002
MAXIMUM PEAK FLOW			4,400	Jun 7	5,310	Jul 23, 1997
MAXIMUM PEAK STAGE			13.89	Jun 7	14.83	Jul 23, 1997
INSTANTANEOUS LOW FLOW			1.9*	Oct 4	1.0*	Aug 7, 2002
ANNUAL RUNOFF (CF5M)	1.35		3.14		1.62	
ANNUAL RUNOFF (INCHES)	18.32		42.62		22.07	
10 PERCENT EXCEEDS	36		102		37	
50 PERCENT EXCEEDS	4.0		9.8		5.6	
90 PERCENT EXCEEDS	1.7		4.7		2.6	

e Estimated.  
 \* See REMARKS.

