

## 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>.

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 and crest-stage gage. 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.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	5.1	7.6	4.4	6.5	13	12	28	64	53	11	2.9
2	7.5	5.6	4.6	4.4	6.8	9.2	20	5.9	124	9.3	7.5	2.8
3	21	8.2	4.4	4.4	71	8.2	8.8	5.5	9.8	5.2	23	2.6
4	7.4	68	4.3	4.4	12	7.7	e9.0	5.6	6.3	4.5	9.8	2.7
5	5.9	8.1	4.1	4.4	8.9	8.1	e8.5	5.2	5.3	4.5	5.2	2.5
6	5.7	5.5	36	4.7	8.4	7.0	7.2	6.6	18	4.3	4.7	3.0
7	5.5	5.3	9.7	4.7	8.1	7.1	11	5.1	56	100	4.3	3.0
8	5.3	5.0	5.1	4.4	8.1	90	8.6	4.9	7.1	8.3	85	3.3
9	5.3	5.0	14	4.3	8.1	9.1	7.9	4.9	9.5	4.8	174	3.1
10	5.3	4.7	113	4.4	8.6	7.7	6.7	180	19	4.4	26	3.1
11	5.2	5.0	8.4	4.4	7.8	7.1	6.5	25	7.7	18	8.7	2.7
12	5.3	56	6.3	4.4	7.2	6.4	117	56	4.7	6.4	6.3	2.8
13	58	7.2	5.3	4.4	7.8	6.2	89	11	4.7	34	9.0	2.9
14	6.3	4.2	5.2	160	34	16	68	6.2	4.6	19	31	2.9
15	6.8	4.1	5.6	8.8	9.6	6.3	11	6.6	4.4	3.8	8.4	2.8
16	5.6	4.1	5.3	7.3	8.1	80	8.9	5.5	4.4	3.5	5.2	50
17	5.0	4.1	5.3	6.7	10	52	8.1	5.3	4.1	3.5	33	7.7
18	5.0	4.0	5.1	6.3	6.7	11	7.9	5.2	4.1	3.6	4.7	3.4
19	5.2	3.9	5.0	6.2	5.8	8.6	7.3	5.0	5.1	5.0	4.4	3.3
20	5.3	4.0	5.0	6.4	10	7.8	6.9	39	4.8	14	3.7	3.2
21	5.1	3.8	5.1	6.2	40	7.3	6.8	5.4	3.9	5.3	3.4	3.2
22	5.0	3.9	5.0	6.1	9.3	50	31	4.7	3.9	43	3.0	3.1
23	5.1	12	48	5.9	6.9	96	9.7	5.0	3.8	8.1	149	3.0
24	7.9	48	7.1	5.9	57	12	6.4	4.8	3.8	3.9	6.4	2.7
25	5.5	12	5.4	6.0	9.2	8.8	6.3	4.7	3.7	3.6	3.5	2.7
26	5.1	4.9	5.9	6.0	7.5	7.9	6.5	4.8	19	3.3	3.1	2.9
27	5.2	36	6.8	5.6	17	26	6.5	4.6	7.2	3.2	2.9	5.4
28	6.3	20	5.2	5.4	137	222	6.0	4.4	108	55	3.1	3.1
29	6.2	5.3	4.6	8.9	---	15	5.4	4.4	7.0	178	3.4	12
30	5.2	4.8	4.4	35	---	9.9	26	10	9.0	393	5.9	4.5
31	5.0	---	4.4	8.1	---	55	---	4.7	---	32	4.0	---
TOTAL	245.7	367.8	361.2	358.5	537.4	878.4	540.9	474.0	536.9	1,037.5	652.6	153.3
MEAN	7.93	12.3	11.7	11.6	19.2	28.3	18.0	15.3	17.9	33.5	21.1	5.11
MAX	58	68	113	160	137	222	117	180	124	393	174	50
MIN	5.0	3.8	4.1	4.3	5.8	6.2	5.4	4.4	3.7	3.2	2.9	2.5
CFSM	0.67	1.04	0.99	0.98	1.63	2.40	1.53	1.30	1.52	2.84	1.78	0.43
IN.	0.77	1.16	1.14	1.13	1.69	2.77	1.71	1.49	1.69	3.27	2.06	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	14.5	12.3	13.2	20.7	22.3	22.6	21.7	17.3	18.6	25.0	19.2	19.5
MAX	28.9	30.3	35.0	48.5	36.9	54.8	57.3	70.8	57.3	81.8	50.0	61.5
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	3.88	3.85	6.02	5.94	6.73	8.45	4.67	4.37	3.38	9.61	4.65	5.11
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(1999)	(1997)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	6,922.5		6,144.2		18.9	
ANNUAL MEAN	18.9		16.8		37.0	
HIGHEST ANNUAL MEAN					10.3	2003
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	498	Sep 7	393	Jul 30	1,970	Jul 23, 1997
LOWEST DAILY MEAN	2.5	Jun 12	2.5	Sep 5	1.0	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	May 21	2.8	Sep 1	1.1	Aug 7, 2002
MAXIMUM PEAK FLOW			3,290	Jul 30	5,310	Jul 23, 1997
MAXIMUM PEAK STAGE			12.12	Jul 30	14.83	Jul 23, 1997
INSTANTANEOUS LOW FLOW			2.2	Sep 5	1.0*	Aug 7, 2002
ANNUAL RUNOFF (CFSM)	1.60		1.43		1.60	
ANNUAL RUNOFF (INCHES)	21.82		19.37		21.76	
10 PERCENT EXCEEDS	36		41		36	
50 PERCENT EXCEEDS	5.4		6.2		5.6	
90 PERCENT EXCEEDS	4.0		3.6		2.7	

\* See REMARKS.

e Estimated.

