

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 mi².

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 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. Minimum discharge for current water year also occurred June 12, 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.3	5.1	4.6	4.3	33	37	18	3.7	6.6	7.5	5.2
2	4.0	4.1	4.5	4.7	6.0	15	7.8	79	3.0	6.6	6.5	4.4
3	4.0	4.0	3.8	4.7	44	8.6	6.2	12	3.1	33	e5.3	4.1
4	4.0	3.9	9.7	4.9	5.4	6.7	5.9	5.9	8.0	6.5	e5.2	4.1
5	3.9	5.3	8.6	23	5.2	6.1	5.6	4.5	3.2	27	4.7	4.1
6	3.9	5.4	4.5	6.5	225	5.8	5.4	4.5	2.9	9.7	4.9	14
7	4.1	4.4	4.2	4.8	20	5.6	5.4	4.2	3.2	5.6	3.7	498
8	19	7.3	4.1	4.5	6.6	6.3	5.5	4.0	6.4	5.2	3.7	385
9	7.1	4.2	4.0	7.0	5.5	6.5	5.3	4.1	6.4	5.1	3.8	14
10	4.5	4.2	88	e3.9	5.1	6.6	5.1	4.4	3.2	5.0	3.8	8.3
11	61	4.4	9.6	4.3	4.7	6.0	11	4.0	2.7	11	6.8	6.8
12	5.2	4.6	4.8	4.5	55	6.1	31	20	2.5	7.7	280	e6.5
13	4.6	4.1	49	4.6	7.2	5.7	92	4.9	32	5.0	113	e6.2
14	4.5	4.2	89	4.6	12	5.6	9.2	4.0	126	5.0	134	6.0
15	4.3	4.3	7.8	4.5	26	7.9	6.7	3.9	12	4.6	12	5.3
16	4.2	4.4	5.7	4.1	9.1	9.6	6.1	e3.4	11	4.6	7.5	5.3
17	4.2	4.7	23	4.2	5.7	5.1	6.3	e3.6	3.8	246	6.1	193
18	4.1	4.7	6.0	12	5.2	8.9	5.4	18	3.5	121	5.5	11
19	4.1	33	5.6	4.8	5.0	7.4	5.8	6.9	3.2	6.8	8.7	6.8
20	4.1	5.2	4.7	4.1	4.8	5.5	5.4	3.8	3.0	5.5	5.1	6.0
21	4.1	4.2	4.7	4.2	4.8	8.3	5.3	3.6	155	7.9	5.2	5.6
22	4.0	4.1	5.0	4.2	4.5	4.4	5.1	3.3	9.9	4.6	5.4	5.5
23	4.1	3.9	4.8	4.4	4.9	4.2	5.0	3.7	92	4.2	4.7	5.2
24	3.9	5.2	5.2	4.4	4.8	4.2	4.6	4.4	21	3.9	4.4	5.1
25	3.8	4.2	4.7	6.6	4.4	4.2	4.8	3.3	186	3.8	4.4	5.1
26	5.1	4.1	4.5	e4.9	9.7	4.2	7.8	3.3	50	4.8	4.0	5.1
27	5.2	3.9	4.5	e9.5	36	4.1	6.3	3.7	8.8	159	4.0	207
28	32	6.3	4.7	e9.1	58	4.1	4.5	5.7	7.4	7.4	3.9	392
29	34	4.8	4.7	6.6	39	4.2	4.6	3.7	6.6	67	37	13
30	5.0	3.9	5.1	5.3	---	11	4.6	3.3	6.1	7.0	36	8.6
31	4.3	---	4.9	4.6	---	101	---	27	---	5.3	44	---
TOTAL	264.6	165.3	394.5	184.1	627.9	321.9	320.7	278.1	785.6	802.4	780.8	1,846.3
MEAN	8.54	5.51	12.7	5.94	21.7	10.4	10.7	8.97	26.2	25.9	25.2	61.5
MAX	61	33	89	23	225	101	92	79	186	246	280	498
MIN	3.8	3.9	3.8	3.9	4.3	4.1	4.5	3.3	2.5	3.8	3.7	4.1
CFSM	0.72	0.47	1.08	0.50	1.83	0.88	0.91	0.76	2.22	2.19	2.13	5.22
IN.	0.83	0.52	1.24	0.58	1.98	1.01	1.01	0.88	2.48	2.53	2.46	5.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	15.2	12.3	13.4	21.6	22.6	22.1	22.0	17.5	18.7	24.2	19.1	20.9
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	8.52
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(1999)	(1997)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	11,767.8		6,772.2		19.1	
ANNUAL MEAN	32.2		18.5		37.0	
HIGHEST ANNUAL MEAN					10.3	2003
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	762	Jun 7	498	Sep 7	1,970	Jul 23, 1997
LOWEST DAILY MEAN	3.8	Oct 25	2.5	Jun 12	1.0	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	4.0	Oct 19	3.6	May 21	1.1	Aug 7, 2002
MAXIMUM PEAK FLOW			3,400	Jul 17	5,310	Jul 23, 1997
MAXIMUM PEAK STAGE			12.29	Jul 17	14.83	Jul 23, 1997
INSTANTANEOUS LOW FLOW			2.2*	Jun 11	1.0*	Aug 7, 2002
ANNUAL RUNOFF (CFSM)	2.73		1.57		1.62	
ANNUAL RUNOFF (INCHES)	37.10		21.35		22.00	
10 PERCENT EXCEEDS	76		33		36	
50 PERCENT EXCEEDS	9.1		5.2		5.5	
90 PERCENT EXCEEDS	4.3		3.9		2.7	

* See REMARKS.
e Estimated.

