

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°52'06", Mecklenburg County, Hydrologic Unit 03050103, on right upstream side of culvert on State Street, 1.1 mi upstream of Irwin Creek, and 2.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.--9.27 mi².

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 630.54 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair except those for discharges above 500 ft³/s, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 500 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record and current water year affected by regulation of unknown origin.

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	5.6	5.7	5.6	5.9	5.8	14	26	16	7.8	8.4	7.5	5.1
2	5.3	5.6	7.3	6.2	7.4	10	8.0	73	5.7	6.2	5.3	3.9
3	5.7	8.1	5.3	5.9	28	8.7	6.7	11	5.4	12	4.0	4.1
4	6.0	7.2	7.0	5.4	8.9	6.4	7.0	6.6	6.0	6.7	4.0	4.3
5	5.3	6.1	8.3	23	6.2	6.4	6.2	5.7	4.6	12	4.7	4.0
6	5.0	6.6	5.5	8.4	120	6.6	6.0	5.0	5.8	8.0	3.9	7.4
7	6.0	7.1	5.0	6.1	19	5.9	7.6	5.8	8.0	7.0	4.1	300
8	12	7.4	6.0	5.4	7.9	7.2	6.9	4.7	5.1	6.5	4.0	229
9	6.3	6.2	4.6	8.0	5.9	6.3	5.1	7.9	8.1	7.0	4.1	12
10	6.8	7.0	51	6.3	6.0	6.1	6.3	6.3	4.1	6.6	3.8	7.9
11	36	8.1	9.4	5.7	6.0	5.3	7.3	5.6	4.4	10	4.7	7.3
12	7.3	9.0	5.9	5.4	31	5.5	21	4.9	5.1	6.0	110	7.8
13	5.3	5.3	30	6.7	7.5	5.5	65	6.5	16	6.7	23	6.1
14	6.9	6.6	56	7.3	8.9	5.8	10	6.4	106	6.1	30	6.3
15	7.7	6.7	10	6.0	13	7.9	8.2	4.9	10	5.6	8.8	4.7
16	6.5	5.8	8.0	5.2	7.7	10	6.8	4.7	8.6	6.4	5.4	6.2
17	5.6	5.6	16	6.0	5.4	6.0	5.6	13	4.4	162	5.5	80
18	5.8	5.7	7.6	11	6.4	11	5.8	5.3	4.2	23	4.4	9.7
19	6.0	21	7.1	6.2	6.0	7.5	7.5	5.6	3.7	4.2	5.7	8.5
20	5.8	7.0	7.0	5.2	5.3	6.1	5.5	5.8	4.0	4.4	4.6	5.2
21	6.1	5.4	6.6	5.8	5.0	7.9	5.3	6.1	125	3.3	4.9	4.1
22	5.8	5.6	6.4	6.6	5.6	7.9	5.4	7.3	8.4	4.4	5.0	4.4
23	6.5	6.0	6.3	5.8	5.7	7.6	6.1	8.1	40	3.5	4.6	6.5
24	6.3	5.7	6.4	5.5	5.2	6.0	5.6	6.2	13	3.8	4.2	4.5
25	5.5	6.0	6.0	7.9	5.0	7.7	5.3	6.5	180	3.3	4.8	3.9
26	5.8	6.8	6.2	7.2	7.9	7.0	7.8	7.0	48	4.5	4.4	4.8
27	6.7	5.4	6.3	8.6	23	6.0	6.3	6.5	11	87	3.9	116
28	14	9.0	6.3	9.5	25	5.7	6.3	6.4	8.0	8.2	4.4	145
29	17	5.6	6.1	8.2	19	6.6	4.6	6.9	6.2	18	11	10
30	6.4	5.4	6.4	7.9	---	9.3	5.3	5.3	6.2	5.9	35	8.5
31	6.8	---	5.3	6.1	---	31	---	21	---	4.9	18	---
TOTAL	243.8	208.7	330.9	224.4	413.7	250.9	286.5	292.0	672.8	461.6	347.7	1,027.2
MEAN	7.86	6.96	10.7	7.24	14.3	8.09	9.55	9.42	22.4	14.9	11.2	34.2
MAX	36	21	56	23	120	31	65	73	180	162	110	300
MIN	5.0	5.3	4.6	5.2	5.0	5.3	4.6	4.7	3.7	3.3	3.8	3.9
CFSM	0.85	0.75	1.15	0.78	1.54	0.87	1.03	1.02	2.42	1.61	1.21	3.69
IN.	0.98	0.84	1.33	0.90	1.66	1.01	1.15	1.17	2.70	1.85	1.40	4.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	12.9	10.7	14.0	11.8	14.1	24.3	19.1	21.9	19.4	15.7	16.1	17.2
MAX	28.0	16.6	25.6	16.8	19.3	49.7	49.0	58.9	49.8	27.3	42.3	34.2
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	7.24	6.96	9.46	7.24	9.54	8.09	7.07	9.42	7.75	8.41	6.37	8.88
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(2004)	(2002)	(2004)	(2000)	(2001)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	10,511.0		4,760.2		16.9	
ANNUAL MEAN	28.8		13.0		10.6	
HIGHEST ANNUAL MEAN					32.6 2003	
LOWEST ANNUAL MEAN					10.6 2002	
HIGHEST DAILY MEAN	923	May 22	300	Sep 7	923	May 22, 2003
LOWEST DAILY MEAN	4.6	Dec 9	3.3	Jul 21	3.3	Jul 21, 2004
ANNUAL SEVEN-DAY MINIMUM	5.6	Oct 1	3.8	Jul 19	3.8	Jul 19, 2004
MAXIMUM PEAK FLOW			2,620*	Jul 17	3,100*	Jun 7, 2003
MAXIMUM PEAK STAGE			8.37	Jul 17	9.47	Jun 7, 2003
INSTANTANEOUS LOW FLOW			2.2*	Jul 23	1.6*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	3.11		1.40		1.82	
ANNUAL RUNOFF (INCHES)	42.18		19.10		24.72	
10 PERCENT EXCEEDS	51		18		23	
50 PERCENT EXCEEDS	10		6.3		8.0	
90 PERCENT EXCEEDS	6.0		4.6		5.4	

* See REMARKS.

