

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.--Records fair except those for estimated daily discharges and those 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. Minimum discharge for current water year also occurred Sept. 30.

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	8.8	6.5	7.3	6.1	6.3	e13	12	17	31	12	8.1	4.6
2	6.6	7.0	5.5	6.1	6.7	e9.0	14	7.5	72	11	5.3	5.3
3	16	6.9	5.5	5.8	39	9.7	9.4	7.9	11	9.4	13	4.1
4	6.6	50	4.7	6.2	9.9	8.3	11	7.5	8.2	7.3	7.2	5.3
5	6.1	9.4	5.4	e5.8	6.7	8.5	10	6.5	6.5	8.5	6.3	5.2
6	5.5	5.6	17	e6.2	7.7	7.1	11	8.5	7.2	8.4	4.5	5.2
7	4.6	5.7	7.5	5.5	6.5	8.8	10	7.9	6.0	28	5.8	4.7
8	e5.0	5.8	5.6	6.2	6.8	58	8.6	6.8	12	7.0	74	5.8
9	e5.8	6.4	19	6.1	6.0	10	7.9	6.4	16	7.0	17	5.1
10	e5.3	4.7	126	5.5	7.4	11	8.7	32	12	7.5	8.4	4.1
11	e4.8	4.8	13	5.4	5.6	9.2	10	11	8.7	18	7.1	3.6
12	e5.0	25	9.0	8.1	6.5	9.0	60	8.8	e7.7	13	7.5	5.8
13	10	7.6	7.5	7.8	6.3	7.5	37	8.1	7.4	15	6.9	3.5
14	6.2	4.9	6.5	75	16	10	50	6.5	6.8	7.6	6.4	4.6
15	5.0	5.3	7.0	7.8	6.5	7.4	14	9.3	6.2	6.7	6.0	4.7
16	5.4	5.4	6.5	7.6	6.8	40	9.6	6.5	6.5	4.9	5.9	18
17	5.6	5.3	6.9	6.8	6.5	e35	9.4	7.0	6.2	6.5	8.9	4.9
18	5.3	3.9	7.1	5.8	5.8	e12	e8.9	6.5	5.6	6.9	5.4	4.4
19	5.7	4.6	7.4	8.0	5.6	10	7.7	6.8	90	6.2	6.5	4.3
20	5.8	5.0	6.7	9.3	8.2	9.7	7.2	19	15	4.8	e5.6	5.3
21	5.7	5.0	6.2	8.1	23	8.5	8.6	6.8	11	6.7	e6.1	5.9
22	5.3	4.8	6.3	5.9	8.6	26	16	6.2	8.8	21	e4.0	4.8
23	5.2	8.1	31	6.0	6.8	76	8.6	8.1	9.4	7.1	8.5	5.2
24	7.1	27	8.2	6.6	28	15	7.5	7.0	10	5.9	6.5	5.6
25	5.5	13	6.7	9.6	8.2	11	9.8	5.7	9.9	7.7	5.9	4.8
26	5.5	5.5	6.6	7.9	7.3	8.1	8.0	5.9	17	5.5	4.0	3.9
27	4.0	27	7.0	6.2	11	17	7.9	7.6	30	6.5	5.2	6.8
28	6.3	16	6.0	5.2	88	200	6.7	6.1	55	28	5.0	5.8
29	9.5	6.7	5.9	8.0	---	21	8.6	6.2	15	36	5.4	9.1
30	5.3	5.1	5.8	19	---	13	15	7.6	8.7	74	5.4	5.0
31	5.4	---	6.5	7.9	---	27	---	6.9	---	14	5.8	---
TOTAL	193.9	298.0	377.3	291.5	357.7	715.8	413.1	271.6	516.8	408.1	277.6	165.4
MEAN	6.25	9.93	12.2	9.40	12.8	23.1	13.8	8.76	17.2	13.2	8.95	5.51
MAX	16	50	126	75	88	200	60	32	90	74	74	18
MIN	4.0	3.9	4.7	5.2	5.6	7.1	6.7	5.7	5.6	4.8	4.0	3.5
CFSM	0.67	1.07	1.31	1.01	1.38	2.49	1.49	0.95	1.86	1.42	0.97	0.59
IN.	0.78	1.20	1.51	1.17	1.44	2.87	1.66	1.09	2.07	1.64	1.11	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	11.6	10.6	13.7	11.3	13.9	24.1	18.0	19.3	19.1	15.2	14.9	15.3
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	6.25	6.96	9.46	7.24	9.54	8.09	7.07	8.76	7.75	8.41	6.37	5.51
(WY)	(2005)	(2004)	(2001)	(2004)	(2002)	(2004)	(2002)	(2005)	(2000)	(2001)	(2001)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	4,846.0		4,286.8			
ANNUAL MEAN	13.2		11.7		15.8	
HIGHEST ANNUAL MEAN					32.6	2003
LOWEST ANNUAL MEAN					10.6	2002
HIGHEST DAILY MEAN	300	Sep 7	200	Mar 28	923	May 22, 2003
LOWEST DAILY MEAN	3.3	Jul 21	3.5	Sep 13	3.3	Jul 21, 2004
ANNUAL SEVEN-DAY MINIMUM	3.8	Jul 19	4.5	Sep 9	3.8	Jul 19, 2004
MAXIMUM PEAK FLOW			1,220	Jun 19	3,100*	Jun 7, 2003
MAXIMUM PEAK STAGE			5.67	Jun 19	9.47	Jun 7, 2003
INSTANTANEOUS LOW FLOW			2.2*	Sep 13	1.6*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	1.43		1.27		1.71	
ANNUAL RUNOFF (INCHES)	19.45		17.20		23.22	
10 PERCENT EXCEEDS	19		19		23	
50 PERCENT EXCEEDS	6.3		7.0		7.8	
90 PERCENT EXCEEDS	4.6		5.1		5.3	

* See REMARKS.

e Estimated.

