

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 good 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.

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	6.8	6.5	6.5	11	10	34	17	8.7	15	10	14	19
2	6.6	7.2	5.8	8.7	8.5	29	10	13	12	110	10	8.2
3	6.6	6.5	6.5	18	9.2	17	7.3	10	51	11	32	7.6
4	5.5	6.9	12	7.8	31	11	6.2	10	26	10	436	10
5	6.6	37	103	7.6	13	14	9.0	11	12	9.9	124	8.5
6	4.3	38	12	11	16	216	15	77	23	8.6	24	7.4
7	6.3	7.6	10	10	36	20	234	16	517	11	18	7.0
8	5.7	6.6	8.6	8.3	10	14	46	13	209	9.7	56	9.5
9	7.2	6.5	7.5	9.3	9.3	11	117	9.3	63	40	32	10
10	5.5	6.1	7.2	8.8	14	13	538	8.5	16	11	48	11
11	205	16	39	6.9	9.5	11	57	9.8	13	43	22	8.4
12	7.9	119	9.6	7.6	9.3	9.6	19	7.8	14	18	58	9.8
13	251	15	114	6.9	9.2	9.3	14	7.1	11	93	27	6.8
14	8.9	7.7	20	8.1	11	8.4	12	7.2	11	11	206	6.9
15	46	7.3	12	7.2	11	35	11	94	11	10	23	7.5
16	138	84	10	7.9	11	139	10	22	197	10	31	6.0
17	9.0	34	8.9	8.2	17	18	9.6	11	31	120	12	7.3
18	7.4	11	7.9	9.4	20	20	133	25	78	13	11	7.3
19	7.6	8.2	7.8	8.9	11	17	48	13	45	25	11	6.8
20	7.5	6.8	23	7.5	10	726	16	9.8	17	13	9.4	5.6
21	12	6.6	8.6	8.1	9.7	21	15	88	13	28	10	6.9
22	9.6	6.3	7.0	7.9	119	13	14	923	15	12	17	58
23	5.8	5.8	7.1	12	21	11	15	60	17	12	9.4	45
24	5.6	5.6	210	8.8	13	9.4	10	28	17	10	7.9	e10
25	7.1	5.3	72	9.0	11	9.2	17	115	15	8.7	8.2	e11
26	7.1	5.9	14	8.8	25	8.4	30	40	8.5	20	8.9	e9.0
27	6.0	5.7	11	8.7	48	8.9	12	71	9.4	9.7	7.9	9.8
28	38	5.3	9.2	8.3	18	8.9	11	15	11	8.6	7.4	9.4
29	13	6.1	8.6	12	---	6.8	9.7	14	7.6	42	7.8	7.5
30	8.9	6.8	7.6	70	---	61	8.4	13	9.4	91	7.1	6.6
31	6.5	---	7.3	16	---	12	---	77	---	18	16	---
TOTAL	869.0	497.3	793.7	348.7	540.7	1,541.9	1,471.2	1,827.2	1,494.9	847.2	1,312.0	343.8
MEAN	28.0	16.6	25.6	11.2	19.3	49.7	49.0	58.9	49.8	27.3	42.3	11.5
MAX	251	119	210	70	119	726	538	923	517	120	436	58
MIN	4.3	5.3	5.8	6.9	8.5	6.8	6.2	7.1	7.6	8.6	7.1	5.6
CFSM	3.02	1.79	2.76	1.21	2.08	5.37	5.29	6.36	5.38	2.95	4.57	1.24
IN.	3.49	2.00	3.19	1.40	2.17	6.19	5.90	7.33	6.00	3.40	5.26	1.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	14.6	12.0	15.2	13.4	14.1	29.8	22.3	26.1	18.7	15.9	17.3	12.9
MAX	28.0	16.6	25.6	16.8	19.3	49.7	49.0	58.9	49.8	27.3	42.3	16.8
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	7.24	9.16	9.46	11.2	9.54	14.8	7.07	9.43	7.75	8.41	6.37	8.88
(WY)	(2001)	(2002)	(2001)	(2003)	(2002)	(2002)	(2002)	(2001)	(2000)	(2001)	(2001)	(2002)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	5,172.5		11,887.6		18.2	
ANNUAL MEAN	14.2		32.6		32.6	
HIGHEST ANNUAL MEAN					10.6	2003
LOWEST ANNUAL MEAN					10.6	2002
HIGHEST DAILY MEAN	251	Oct 13	923	May 22	923	May 22, 2003
LOWEST DAILY MEAN	3.5	Sep 13	4.3	Oct 6	3.5	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	4.4	Sep 7	5.7	Nov 23	4.4	Sep 7, 2002
MAXIMUM PEAK FLOW			3,100*	Jun 7	3,100*	Jun 7, 2003
MAXIMUM PEAK STAGE			9.47	Jun 7	9.47	Jun 7, 2003
INSTANTANEOUS LOW FLOW			3.0*	Oct 9	1.6*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	1.53		3.51		1.96	
ANNUAL RUNOFF (INCHES)	20.76		47.70		26.61	
10 PERCENT EXCEEDS	22		66		25	
50 PERCENT EXCEEDS	7.5		11		8.6	
90 PERCENT EXCEEDS	5.1		6.8		5.8	

e Estimated.
 * See REMARKS.

