

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°52'06", North American Datum of 1983, 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, which are poor. Minimum discharge for period of record and current water year affected by regulation of unknown origin.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	8.7	7.2	6.9	6.6	7.1	21	9.0	9.7	20	3.8	10
2	7.5	8.3	8.8	7.5	6.2	64	8.9	6.2	8.4	10	8.4	6.6
3	7.8	6.9	7.5	7.8	7.5	36	7.7	7.4	8.5	9.5	4.9	4.9
4	6.7	8.0	9.3	7.5	5.3	11	7.1	24	8.5	7.1	5.5	4.4
5	6.8	7.2	8.8	7.7	6.9	8.5	7.0	8.1	9.1	8.5	4.4	4.0
6	11	7.3	8.4	38	16	8.0	6.8	5.7	25	9.7	4.4	4.7
7	6.8	8.2	7.9	10	41	5.6	6.6	7.7	10	7.7	3.9	4.4
8	7.4	11	8.0	9.4	19	7.9	6.9	6.4	7.8	6.3	5.8	4.2
9	6.8	7.2	10	7.6	8.6	6.6	7.6	7.9	9.6	10	3.6	4.5
10	7.2	8.6	61	7.0	14	7.7	7.9	5.4	7.8	10	4.8	4.8
11	e7.1	7.3	18	5.3	8.1	7.2	6.0	22	e7.4	9.5	4.4	5.0
12	e7.5	8.5	8.9	6.7	7.5	23	8.1	8.0	7.7	7.0	4.6	4.4
13	e6.5	8.1	9.6	7.7	7.9	18	6.2	38	7.1	54	4.0	3.5
14	e13	11	6.8	7.3	8.9	12	7.1	11	7.0	170	4.6	21
15	e8.0	7.7	5.9	6.0	8.6	7.2	6.7	10	7.8	8.3	7.6	39
16	9.1	9.8	7.0	5.3	9.1	6.5	6.5	7.4	7.4	6.1	36	14
17	7.9	9.1	25	6.2	8.3	29	6.4	6.6	6.6	8.5	16	10
18	9.8	9.0	13	5.8	7.6	10	5.3	12	6.7	8.1	5.4	5.7
19	7.7	7.5	9.4	93	5.9	9.9	5.8	6.6	8.8	5.9	6.0	12
20	7.4	8.5	8.8	19	5.1	9.1	7.1	e8.9	7.7	7.5	4.8	5.2
21	6.2	8.0	6.1	19	7.1	27	6.3	e9.0	5.9	6.3	5.4	4.9
22	10	9.8	6.0	11	6.2	9.7	5.7	e7.2	8.8	6.9	4.1	4.9
23	8.9	8.6	8.2	130	5.7	8.2	5.3	e5.7	5.3	4.9	4.7	6.1
24	12	24	7.8	17	5.6	8.4	7.1	7.2	7.1	5.1	11	5.0
25	23	9.0	6.1	24	6.4	8.8	7.7	5.7	6.8	11	9.3	4.6
26	7.1	8.3	5.3	11	8.3	11	4.4	6.4	11	7.6	7.2	35
27	7.1	9.7	8.0	9.4	8.7	10	5.3	6.9	9.0	6.2	7.5	15
28	6.2	14	7.3	6.9	11	6.5	6.9	e6.7	8.3	4.4	5.6	7.3
29	8.5	8.6	6.9	7.4	---	7.7	5.2	8.4	6.0	5.7	4.7	5.6
30	8.2	7.0	5.7	7.6	---	13	5.5	14	7.1	7.1	3.7	5.6
31	8.2	---	7.4	6.7	---	53	---	8.8	---	4.5	70	---
TOTAL	264.9	274.9	324.1	521.7	267.1	457.6	212.1	304.3	253.9	453.4	276.1	266.3
MEAN	8.545	9.163	10.45	16.83	9.539	14.76	7.070	9.816	8.463	14.63	8.906	8.877
MAX	23	24	61	130	41	64	21	38	25	170	70	39
MIN	6.2	6.9	5.3	5.3	5.1	5.6	4.4	5.4	5.3	4.4	3.6	3.5
CFSM	0.92	0.99	1.13	1.82	1.03	1.59	0.76	1.06	0.91	1.58	0.96	0.96
IN.	1.06	1.10	1.30	2.09	1.07	1.84	0.85	1.22	1.02	1.82	1.11	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	7.892	9.718	9.960	14.42	11.47	19.76	8.923	9.624	8.290	12.03	8.930	13.43
MAX	8.55	10.3	10.5	16.8	13.4	24.8	10.8	9.82	8.65	14.6	11.5	16.8
(WY)	2002	2001	2002	2002	2001	2001	2001	2002	2001	2002	2000	2000
MIN	7.24	9.16	9.46	12.0	9.54	14.8	7.07	9.43	7.75	8.41	6.37	8.88
(WY)	2001	2002	2001	2001	2002	2002	2002	2001	2000	2001	2001	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	4151.6	3876.4	
ANNUAL MEAN	11.37	10.62	11.14
HIGHEST ANNUAL MEAN			12.3 2000
LOWEST ANNUAL MEAN			10.6 2002
HIGHEST DAILY MEAN	220 Mar 29	170 Jul 14	220 Mar 29 2001
LOWEST DAILY MEAN	3.9 Aug 3	3.5 Sep 13	3.5 Sep 13 2002
ANNUAL SEVEN-DAY MINIMUM	4.9 Aug 3	4.4 Sep 7	4.4 Sep 7 2002
MAXIMUM PEAK FLOW		1330 Jul 14	1530 Jul 12 2000
MAXIMUM PEAK STAGE		5.84 Jul 14	6.14 Jul 12 2000
INSTANTANEOUS LOW FLOW		1.6* Aug 6	1.6* Aug 6 2002
ANNUAL RUNOFF (CFSM)	1.23	1.15	1.20
ANNUAL RUNOFF (INCHES)	16.66	15.56	16.32
10 PERCENT EXCEEDS	14	15	16
50 PERCENT EXCEEDS	8.4	7.6	7.8
90 PERCENT EXCEEDS	6.1	5.1	5.4

e Estimated.

* See REMARKS.

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC--Continued

