

SANTEE RIVER BASIN

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°13'41", long 80°52'09", Mecklenburg County, Hydrologic Unit 03050103, on right bank at bridge on West Morehead Street (US 29), 0.5 mi upstream of Irwin Creek, and 1.8 mi northeast of city hall, Charlotte.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--October 2000 to September 2001.

GAGE.--Water-stage recorder. Datum of gage is 617.43 ft above sea level, 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 current water year affected by regulation of unknown origin. Minimum discharge for current water year also occurred Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	11	11	9.3	10	11	16	9.5	42	8.0	6.6	6.6
2	e8.5	8.8	10	8.8	10	9.2	14	9.5	11	8.1	7.2	6.6
3	e7.5	8.4	11	10	11	24	17	8.3	9.3	9.1	4.7	97
4	8.1	8.5	10	11	9.1	69	15	8.7	8.3	27	6.9	66
5	8.6	8.0	10	11	10	17	15	7.6	8.3	14	4.9	8.7
6	8.1	8.7	12	11	9.4	11	14	7.0	8.3	9.7	6.7	9.8
7	8.3	10	11	8.7	11	9.9	16	8.0	8.1	7.4	6.3	9.2
8	8.7	7.2	10	24	10	9.3	15	11	13	10	6.4	12
9	8.6	21	7.8	10	9.5	9.2	15	11	6.9	7.2	6.4	18
10	8.6	16	7.3	11	13	8.1	13	6.9	8.6	7.7	6.0	9.9
11	10	10	7.4	9.4	8.2	8.5	13	8.0	7.5	9.0	6.5	7.1
12	6.8	8.3	9.5	23	14	17	9.0	7.7	7.9	8.8	7.2	8.2
13	8.2	7.0	11	12	13	14	34	7.2	14	11	6.0	6.9
14	8.0	24	15	10	16	9.1	9.0	6.9	9.1	8.4	6.5	10
15	8.2	9.5	9.4	11	11	56	12	7.0	7.8	6.6	18	6.7
16	9.7	6.7	20	10	9.9	14	9.0	7.3	6.5	8.8	7.9	8.2
17	8.0	19	27	9.9	89	9.9	11	7.8	7.0	8.5	5.5	8.3
18	6.1	7.2	9.1	14	12	9.5	7.2	6.4	6.4	14	9.1	8.3
19	10	29	11	50	12	9.7	9.8	10	8.7	14	5.8	7.8
20	13	13	9.8	33	11	122	8.5	12	8.0	11	5.5	32
21	8.5	7.3	9.6	14	11	82	8.8	14	11	12	6.3	9.2
22	9.8	7.6	10	12	35	18	8.0	25	20	10	6.1	7.8
23	13	9.0	9.0	13	13	15	9.9	8.9	11	15	6.4	8.9
24	7.4	7.1	7.4	11	12	15	9.9	23	6.3	33	8.9	e135
25	8.4	47	8.4	11	43	14	32	13	7.3	8.1	8.5	12
26	9.3	11	8.0	10	15	12	10	27	27	13	6.2	8.3
27	8.2	10	8.2	11	14	11	9.3	8.1	7.7	4.9	6.8	10
28	7.4	10	8.0	11	13	11	7.8	27	9.4	6.9	7.0	9.0
29	11	11	8.4	9.6	---	e270	7.2	14	7.2	5.2	6.6	7.8
30	8.4	12	8.9	16	---	42	9.5	8.1	8.6	6.2	8.1	7.7
31	9.9	---	8.1	11	---	21	---	12	---	6.9	6.4	---
TOTAL	272.3	373.3	323.3	426.7	455.1	958.4	384.9	347.9	322.2	329.5	217.4	563.0
MEAN	8.78	12.4	10.4	13.8	16.3	30.9	12.8	11.2	10.7	10.6	7.01	18.8
MAX	13	47	27	50	89	270	34	27	42	33	18	135
MIN	6.1	6.7	7.3	8.7	8.2	8.1	7.2	6.4	6.3	4.9	4.7	6.6
CFSM	.79	1.12	.94	1.24	1.46	2.79	1.16	1.01	.97	.96	.63	1.69
IN.	.91	1.25	1.08	1.43	1.53	3.21	1.29	1.17	1.08	1.10	.73	1.89

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	4974.0
ANNUAL MEAN	13.6
HIGHEST DAILY MEAN	270 Mar 29
LOWEST DAILY MEAN	4.7 Aug 3
ANNUAL SEVEN-DAY MINIMUM	6.0 Aug 3
MAXIMUM PEAK FLOW	NOT DETERMINED
MAXIMUM PEAK STAGE	8.03 Sep 24
INSTANTANEOUS LOW FLOW	2.4* Aug 20
ANNUAL RUNOFF (CFSM)	1.23
ANNUAL RUNOFF (INCHES)	16.67
10 PERCENT EXCEEDS	19
50 PERCENT EXCEEDS	9.5
90 PERCENT EXCEEDS	6.9

e Estimated.

* See REMARKS.

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC--Continued

