

SANTEE RIVER BASIN

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°13'42", long 80°52'09", North American Datum of 1983, 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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 617.43 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for period of record and current water year also occurred Aug. 5, 6, 2002.

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	9.1	9.4	7.7	7.1	8.9	9.2	28	11	13	46	4.0	13
2	8.8	9.6	9.4	7.8	8.0	94	11	7.0	9.9	10	13	7.9
3	9.3	7.4	8.2	9.4	9.6	46	9.0	8.9	9.5	9.8	5.8	5.5
4	8.1	8.9	10	7.9	7.1	11	7.9	37	9.1	6.9	6.5	5.1
5	7.8	7.5	9.6	8.1	8.8	7.8	7.8	9.5	9.8	8.1	5.3	4.3
6	17	8.0	9.0	50	23	7.4	7.5	6.2	31	9.6	5.4	5.3
7	7.6	8.6	8.5	10	56	5.0	7.3	8.4	12	7.4	4.5	4.8
8	8.7	12	8.8	9.7	25	7.1	7.5	7.2	8.3	5.6	6.8	4.6
9	7.6	7.5	11	7.7	11	6.1	8.6	8.8	11	9.4	4.4	4.6
10	8.4	9.5	81	7.0	20	7.1	9.3	6.4	8.4	9.5	5.5	5.0
11	8.3	8.1	23	5.0	11	6.4	6.6	28	7.7	8.9	5.2	5.5
12	8.5	9.6	9.5	7.0	9.6	32	9.8	8.9	7.9	6.2	5.5	4.8
13	7.7	9.2	11	8.1	10	21	7.0	47	7.4	81	4.9	3.7
14	15	13	7.2	7.3	11	12	8.0	12	7.0	229	5.2	29
15	8.5	9.4	6.1	5.8	11	6.8	7.8	11	8.1	11	11	54
16	10	13	7.2	5.1	12	6.1	7.0	7.9	7.5	7.6	55	19
17	9.0	13	31	5.9	11	39	7.2	7.2	6.5	11	24	22
18	11	13	16	5.7	10	10	5.8	17	6.3	10	6.1	6.4
19	8.3	11	9.9	124	7.9	9.4	6.1	7.0	8.6	7.2	7.1	13
20	8.3	13	9.3	23	6.9	9.5	7.8	9.6	7.8	8.9	5.4	6.0
21	6.5	12	6.5	24	9.5	35	7.0	10	5.4	7.8	6.1	5.3
22	11	16	6.2	10	8.1	9.6	6.3	8.2	8.7	9.2	4.4	5.1
23	9.6	15	8.4	195	7.6	7.8	5.5	6.0	5.0	5.9	5.2	6.3
24	13	32	9.1	24	7.6	8.2	8.0	7.6	6.6	6.3	14	5.1
25	32	9.7	6.5	35	8.4	8.5	9.6	6.1	6.7	14	14	4.4
26	7.7	8.8	5.3	14	11	15	4.8	6.7	14	11	9.2	50
27	7.6	10	8.2	12	11	11	5.7	7.7	8.9	7.3	11	18
28	6.9	15	7.6	9.2	14	6.3	7.9	7.3	8.0	5.0	7.2	8.6
29	9.1	9.4	7.3	9.4	---	7.5	5.7	9.3	5.6	6.3	5.8	5.8
30	8.9	7.7	5.8	9.8	---	16	5.8	18	6.6	8.4	4.2	5.7
31	9.0	---	7.4	8.7	---	87	---	11	---	5.2	106	---
TOTAL	308.3	336.3	371.7	672.7	355.0	564.8	243.3	363.9	272.3	589.5	377.7	337.8
MEAN	9.945	11.21	11.99	21.70	12.68	18.22	8.110	11.74	9.077	19.02	12.18	11.26
MAX	32	32	81	195	56	94	28	47	31	229	106	54
MIN	6.5	7.4	5.3	5.0	6.9	5.0	4.8	6.0	5.0	5.0	4.0	3.7
CFSM	0.90	1.01	1.08	1.95	1.14	1.64	0.73	1.06	0.82	1.71	1.10	1.01
IN.	1.03	1.13	1.25	2.25	1.19	1.89	0.82	1.22	0.91	1.98	1.27	1.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2001	2002	2002	2001	2001	2002	2002	2001	2001	2002	2002
MEAN	9.365	11.83	11.21	17.73	14.47	24.68	10.47	11.48	9.908	14.82	9.598	15.01
MAX	9.95	12.4	12.0	21.7	16.3	30.9	12.8	11.7	10.7	19.0	12.2	18.8
(WY)	2002	2001	2002	2002	2001	2001	2001	2002	2001	2002	2002	2001
MIN	8.78	11.2	10.4	13.8	12.7	18.5	8.11	11.2	9.08	10.6	7.01	11.3
(WY)	2001	2002	2001	2001	2002	2002	2002	2001	2002	2001	2001	2002

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

ANNUAL TOTAL	5021.4	4793.3	
ANNUAL MEAN	13.76	13.13	13.39
HIGHEST ANNUAL MEAN			13.6 2001
LOWEST ANNUAL MEAN			13.2 2002
HIGHEST DAILY MEAN	270 Mar 29	229 Jul 14	270 Mar 29 2001
LOWEST DAILY MEAN	4.7 Aug 3	3.7 Sep 13	3.7 Sep 13 2002
ANNUAL SEVEN-DAY MINIMUM	6.0 Aug 3	4.7 Sep 7	4.7 Sep 7 2002
MAXIMUM PEAK FLOW		1290 Jul 14	1930 Sep 24 2001
MAXIMUM PEAK STAGE		6.86 Jul 14	8.03 Sep 24 2001
INSTANTANEOUS LOW FLOW		1.8* Aug 1	1.8* Aug 1 2002
ANNUAL RUNOFF (CFSM)	1.24	1.18	1.21
ANNUAL RUNOFF (INCHES)	16.83	16.06	16.39
10 PERCENT EXCEEDS	18	21	20
50 PERCENT EXCEEDS	9.4	8.4	9.0
90 PERCENT EXCEEDS	6.7	5.5	6.2

\* See REMARKS.

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

