

## SANTEE RIVER BASIN

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'24", 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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 630.54 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair 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, FOR PERIOD JUNE TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	8.6	6.2	18	7.6
2	---	---	---	---	---	---	---	---	9.2	4.5	7.5	11
3	---	---	---	---	---	---	---	---	9.0	5.6	7.7	65
4	---	---	---	---	---	---	---	---	8.7	6.4	50	47
5	---	---	---	---	---	---	---	---	13	5.2	7.2	8.5
6	---	---	---	---	---	---	---	---	7.6	6.3	7.6	8.7
7	---	---	---	---	---	---	---	---	6.0	28	6.5	6.2
8	---	---	---	---	---	---	---	---	6.6	6.3	7.8	4.7
9	---	---	---	---	---	---	---	---	4.8	5.0	8.9	4.9
10	---	---	---	---	---	---	---	---	5.7	6.6	13	3.9
11	---	---	---	---	---	---	---	---	5.7	7.0	8.1	5.2
12	---	---	---	---	---	---	---	---	6.2	112	6.8	5.7
13	---	---	---	---	---	---	---	---	5.5	8.0	6.1	5.0
14	---	---	---	---	---	---	---	---	6.9	23	5.8	5.1
15	---	---	---	---	---	---	---	---	10	11	6.1	6.0
16	---	---	---	---	---	---	---	---	e6.7	6.5	6.4	4.3
17	---	---	---	---	---	---	---	---	e5.2	6.0	5.5	6.4
18	---	---	---	---	---	---	---	---	e9.0	6.4	81	33
19	---	---	---	---	---	---	---	---	e7.5	9.7	7.5	21
20	---	---	---	---	---	---	---	---	5.7	8.3	7.1	7.9
21	---	---	---	---	---	---	---	---	4.6	e7.1	6.4	7.5
22	---	---	---	---	---	---	---	---	6.1	7.1	6.9	69
23	---	---	---	---	---	---	---	---	e7.5	7.2	6.0	99
24	---	---	---	---	---	---	---	---	5.1	16	11	10
25	---	---	---	---	---	---	---	---	5.0	11	6.7	13
26	---	---	---	---	---	---	---	---	5.8	7.7	6.3	8.1
27	---	---	---	---	---	---	---	---	8.4	25	6.8	7.5
28	---	---	---	---	---	---	---	---	25	18	6.7	8.1
29	---	---	---	---	---	---	---	---	10	7.5	7.3	6.5
30	---	---	---	---	---	---	---	---	e7.5	5.8	8.3	7.3
31	---	---	---	---	---	---	---	---	---	14	10	---
TOTAL	---	---	---	---	---	---	---	---	232.6	404.4	357.0	503.1
MEAN	---	---	---	---	---	---	---	---	7.75	13.0	11.5	16.8
MAX	---	---	---	---	---	---	---	---	25	112	81	99
MIN	---	---	---	---	---	---	---	---	4.6	4.5	5.5	3.9
CFSM	---	---	---	---	---	---	---	---	.84	1.41	1.24	1.81
IN.	---	---	---	---	---	---	---	---	.93	1.62	1.43	2.02

## SUMMARY STATISTICS

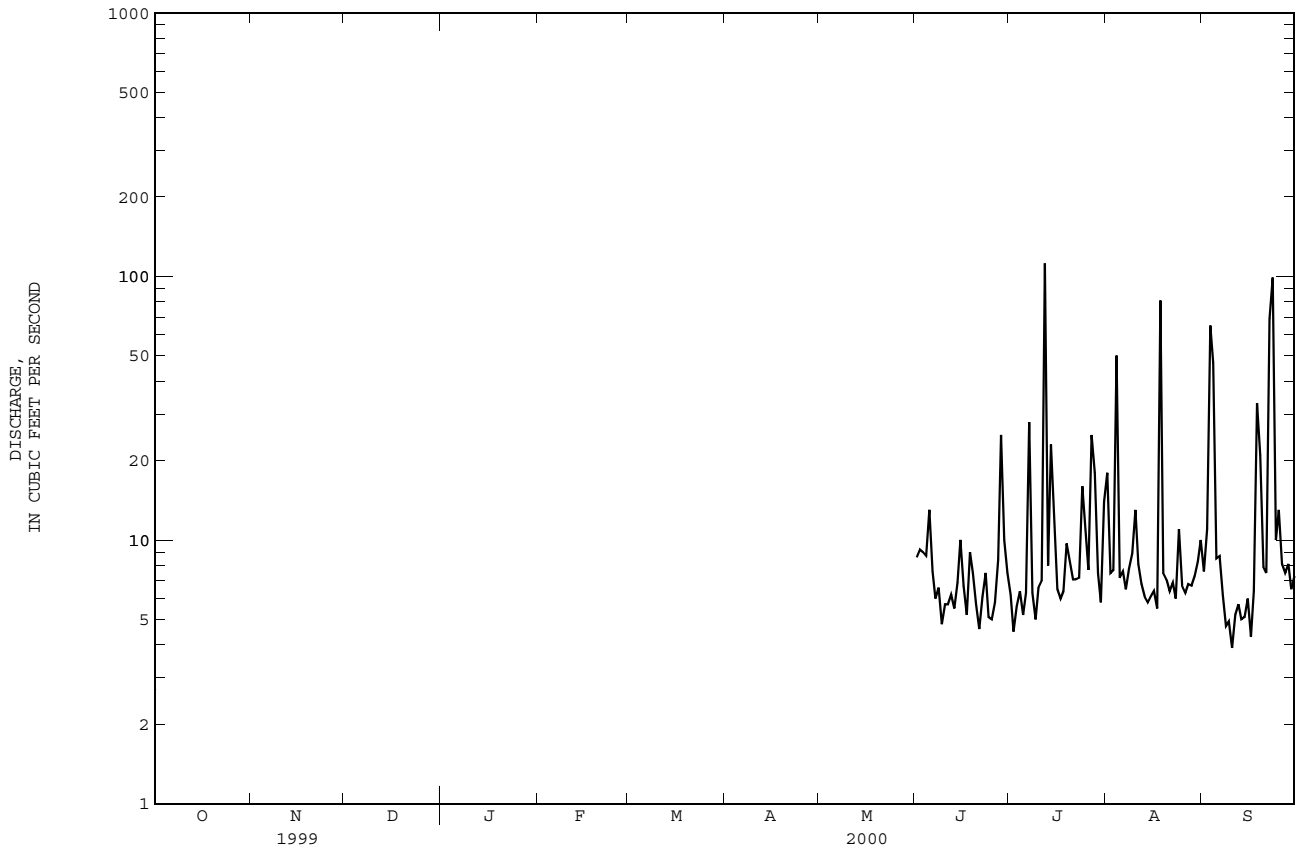
FOR PERIOD JUNE TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	1530	Jul 12
MAXIMUM PEAK STAGE	6.14	Jul 12
INSTANTANEOUS LOW FLOW	2.1*	Jun 26

e Estimated.

\* See REMARKS.

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



## SANTÉE RIVER BASIN

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

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	7.0	9.0	9.9	8.9	8.5	10	13	9.3	e30	6.6	5.1	6.8
2	7.4	7.6	9.5	8.3	8.6	8.2	12	9.9	e10	6.9	5.7	7.0
3	5.9	6.7	10	9.4	9.0	18	14	8.5	e8.3	7.1	3.9	61
4	7.1	7.2	9.7	11	7.8	51	13	8.9	7.0	19	5.5	46
5	7.4	5.9	9.6	11	9.2	14	13	7.9	7.3	10	4.0	7.3
6	7.2	7.3	12	11	8.2	10	12	7.6	7.1	8.2	5.3	8.6
7	7.4	8.3	10	8.6	10	9.1	14	8.4	6.9	6.1	5.1	8.3
8	7.2	5.9	9.8	20	9.4	8.9	13	11	10	7.7	5.0	9.9
9	7.5	15	7.0	9.5	8.3	8.9	13	9.3	5.9	6.2	5.3	12
10	7.0	13	6.7	10	11	7.6	11	6.3	7.5	6.5	4.6	8.6
11	8.2	8.9	6.8	9.2	7.2	8.2	10	7.0	6.4	7.8	5.3	6.2
12	5.4	7.0	8.8	19	12	14	7.1	6.8	6.8	7.3	5.9	7.4
13	6.8	6.1	11	11	11	12	27	6.5	11	8.8	4.6	6.2
14	6.4	18	13	9.9	13	8.3	7.4	6.0	7.6	7.2	5.2	8.9
15	6.5	8.3	8.5	11	9.5	42	10	6.3	6.7	6.1	16	6.1
16	8.1	5.8	16	9.3	8.7	12	7.7	6.5	5.7	7.6	7.8	7.3
17	6.2	15	22	9.8	63	8.9	9.1	7.0	6.1	7.5	5.3	7.2
18	5.3	6.2	8.2	12	10	8.7	6.0	5.8	5.7	8.4	7.8	7.3
19	8.4	22	10	37	11	8.9	8.4	8.9	7.7	10	5.6	6.8
20	11	11	8.7	26	10	84	7.2	9.8	7.1	9.7	5.7	22
21	6.7	6.5	9.0	12	10	62	7.1	10	9.2	9.9	6.2	7.1
22	8.3	7.1	8.5	11	27	15	6.7	18	14	7.7	6.3	5.9
23	11	8.4	8.1	11	12	13	8.1	7.4	9.3	11	6.4	7.1
24	5.3	6.4	6.8	9.3	10	12	7.7	16	5.4	22	8.8	112
25	6.6	35	7.9	9.0	35	12	23	9.4	6.6	7.8	8.4	9.8
26	7.2	9.9	7.3	8.9	13	11	9.6	20	17	12	6.4	7.0
27	6.8	9.4	7.6	9.1	12	9.8	8.9	6.9	6.3	4.3	7.1	8.7
28	5.4	9.4	7.5	9.4	11	10	7.6	19	7.7	6.0	7.3	7.5
29	8.9	9.9	7.8	8.2	---	220	7.1	11	6.1	4.6	6.8	6.5
30	6.4	12	8.3	13	---	33	9.6	e7.0	7.2	5.1	8.1	6.7
31	8.4	---	7.4	9.3	---	17	---	e10	---	5.7	6.9	---
TOTAL	224.4	308.2	293.4	372.1	375.4	767.5	323.3	292.4	259.6	260.8	197.4	439.2
MEAN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.65	8.41	6.37	14.6
MAX	11	35	22	37	63	220	27	20	30	22	16	112
MIN	5.3	5.8	6.7	8.2	7.2	7.6	6.0	5.8	5.4	4.3	3.9	5.9
CFSM	.78	1.11	1.02	1.29	1.45	2.67	1.16	1.02	.93	.91	.69	1.58
IN.	.90	1.24	1.18	1.49	1.51	3.08	1.30	1.17	1.04	1.05	.79	1.76

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.20	10.7	8.94	15.7
MAX	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.65	13.0	11.5	16.8
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	7.75	8.41	6.37	14.6
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001	2001	2001

## SUMMARY STATISTICS

## FOR 2001 WATER YEAR

## WATER YEARS 2000 - 2001

ANNUAL TOTAL	4113.7	
ANNUAL MEAN	11.3	11.5
HIGHEST ANNUAL MEAN		12.3
LOWEST ANNUAL MEAN		11.3
HIGHEST DAILY MEAN	220	Mar 29 2001
LOWEST DAILY MEAN	3.9	Aug 3 2000
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 3 2001
MAXIMUM PEAK FLOW	1140	Mar 29 2000
MAXIMUM PEAK STAGE	5.52	Mar 29 2000
INSTANTANEOUS LOW FLOW	2.1*	Aug 10 2000
ANNUAL RUNOFF (CFSM)	1.22	1.24
ANNUAL RUNOFF (INCHES)	16.51	16.89
10 PERCENT EXCEEDS	15	16
50 PERCENT EXCEEDS	8.4	8.1
90 PERCENT EXCEEDS	6.0	5.7

e Estimated.

\* See REMARKS.

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

