

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'07", long 80°46'18", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 672.00 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record and current water year from rating curve extended above 76 ft³/s by step-backwater analysis. No flow occurred most years.

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	1.0	.28	.39	2.8	.48	1.5	4.5	1.2	20	.22	.18	.21
2	.86	.34	.27	2.3	.48	1.5	2.8	1.0	1.8	.25	.10	.00
3	.77	.54	.14	2.0	.56	7.8	4.3	.91	.66	3.5	.02	25
4	.54	.57	.21	1.2	.69	45	2.7	.91	.85	210	.03	43
5	.53	.50	.25	1.6	.90	4.5	2.2	.88	.76	7.8	.05	1.3
6	.61	.09	.22	1.7	.86	2.1	2.1	.93	.83	.83	.01	.80
7	.52	.07	.43	2.6	1.1	1.7	3.6	.87	.93	.52	.01	.35
8	.52	.09	.46	13	1.2	1.5	1.9	.91	2.6	1.2	.01	.01
9	.53	3.5	.44	3.6	1.6	1.4	1.9	.89	.86	.77	.00	.99
10	.59	2.5	.41	3.6	3.0	1.3	1.9	.90	.70	.60	.00	.06
11	.48	.07	.38	4.8	1.6	1.6	1.9	.90	.68	.61	.00	.01
12	.37	.15	.28	15	5.6	8.1	1.9	.96	.67	.59	.06	.02
13	.30	.15	.73	5.2	3.2	4.3	12	1.0	94	1.1	.04	.02
14	.34	7.5	3.8	3.3	6.8	2.1	1.9	.90	4.8	.67	.21	.17
15	.17	.19	.46	3.1	1.9	32	2.4	1.1	.74	.43	.11	.00
16	.12	.31	5.8	3.6	1.9	4.8	1.6	1.2	.45	.36	.10	.00
17	.34	5.1	19	3.9	62	2.6	2.2	1.4	.38	.48	.06	.00
18	.67	.14	2.5	7.1	3.6	2.1	1.6	1.4	.32	.17	7.3	.00
19	.96	12	3.3	28	2.2	1.9	1.5	1.1	.42	.29	1.5	.00
20	.89	2.2	2.6	18	1.8	59	1.5	1.4	.45	.21	.05	3.5
21	.50	.41	1.2	4.9	1.6	71	1.4	8.1	.33	.19	.02	.00
22	e.50	.31	1.6	1.9	14	4.8	1.2	7.5	10	.33	.01	.00
23	e.52	.38	1.7	1.4	2.3	2.5	1.0	1.6	1.4	2.4	.02	.00
24	.55	.46	1.8	1.2	1.4	2.3	1.6	5.3	.20	7.1	.16	169
25	.58	30	1.9	1.2	10	1.9	16	2.3	.03	2.5	.03	1.3
26	.67	1.5	2.2	1.4	2.5	1.8	1.2	18	.12	7.4	.10	.48
27	.33	.52	1.8	1.4	1.6	2.0	.82	.58	.26	.43	.18	.44
28	.11	.34	1.4	1.2	1.5	2.0	.82	10	23	.37	.22	.39
29	.16	.27	1.6	1.2	---	151	1.0	5.1	2.0	.77	.17	.40
30	.26	.28	2.5	4.0	---	16	1.2	.59	.32	.74	.02	.51
31	.11	---	2.7	.69	---	5.7	---	.46	---	.28	.41	---
TOTAL	15.40	70.76	62.47	146.89	136.37	447.8	82.64	80.29	170.56	253.11	11.18	247.96
MEAN	.50	2.36	2.02	4.74	4.87	14.4	2.75	2.59	5.69	8.16	.36	8.27
MAX	1.0	30	19	28	62	151	16	18	94	210	7.3	169
MIN	.11	.07	.14	.69	.48	1.3	.82	.46	.03	.17	.00	.00
CFSM	.10	.45	.39	.91	.94	2.78	.53	.50	1.09	1.57	.07	1.59
IN.	.11	.51	.45	1.05	.98	3.20	.59	.57	1.22	1.81	.08	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN	4.59	2.61	3.62	11.2	6.76	8.40	12.4	3.71	3.93	4.93	4.26	11.3
MAX	11.8	2.85	5.84	21.6	8.61	14.4	30.5	7.38	5.69	8.16	8.04	27.3
(WY)	2000	2000	1999	1999	2000	2001	1998	2000	2001	2001	1998	2000
MIN	.50	2.36	2.02	4.74	4.87	2.85	2.75	1.99	1.95	3.60	.36	4.15
(WY)	2001	2001	2001	2001	2001	1999	2001	1999	2000	2000	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	2569.15	1725.43	
ANNUAL MEAN	7.02	4.73	6.05
HIGHEST ANNUAL MEAN			8.10
LOWEST ANNUAL MEAN			4.73
HIGHEST DAILY MEAN	432	Sep 23	432
LOWEST DAILY MEAN	.07	Nov 7	.00
ANNUAL SEVEN-DAY MINIMUM	.23	Oct 27	.01
MAXIMUM PEAK FLOW			2230*
MAXIMUM PEAK STAGE			5.32
INSTANTANEOUS LOW FLOW			.00*
ANNUAL RUNOFF (CFSM)	1.35	.91	1.16
ANNUAL RUNOFF (INCHES)	18.38	12.34	15.82
10 PERCENT EXCEEDS	11	7.2	10
50 PERCENT EXCEEDS	1.9	.96	1.6
90 PERCENT EXCEEDS	.35	.09	.31

e Estimated.
* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

