

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'10", long 80°46'16", North American Datum of 1983, 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 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.61	0.82	0.20	0.17	1.1	0.93	8.1	0.96	0.78	0.00	0.00	e4.0
2	0.40	7.0	0.17	0.30	0.64	35	2.2	0.65	0.73	0.38	4.4	e0.40
3	0.18	1.1	0.17	1.4	0.69	18	1.8	1.4	0.51	4.4	0.49	0.13
4	0.05	0.64	0.18	1.2	0.67	2.3	1.5	12	0.31	0.75	0.00	0.09
5	0.01	0.61	0.18	0.53	0.70	0.97	1.5	1.3	0.27	0.01	0.00	0.12
6	7.9	0.33	0.07	25	4.7	0.70	1.5	0.83	1.8	0.00	0.00	0.12
7	0.35	0.00	0.07	3.6	17	0.63	1.5	0.69	1.8	0.00	0.00	0.04
8	0.16	0.00	0.14	1.7	5.2	0.48	1.4	0.69	0.17	0.00	0.00	0.02
9	0.09	0.00	0.17	1.1	1.5	0.57	1.5	0.63	0.19	0.00	0.00	0.00
10	0.27	0.01	26	0.93	3.7	0.58	2.2	1.4	0.28	0.88	0.00	0.00
11	0.38	0.02	5.0	0.95	1.4	0.43	1.2	2.2	0.25	0.23	0.00	0.00
12	0.30	0.03	0.37	0.88	1.1	7.9	1.5	0.63	0.19	0.00	0.00	0.00
13	0.29	0.07	0.39	1.7	0.97	7.9	1.4	6.4	0.14	1.2	0.00	0.00
14	1.9	0.09	0.23	0.45	0.93	1.4	1.2	1.5	0.11	21	0.00	0.79
15	0.31	0.07	0.11	0.33	0.94	0.87	1.5	0.61	0.07	0.61	0.50	19
16	0.01	0.02	0.08	0.31	1.00	0.69	1.2	0.59	0.05	0.18	25	6.1
17	0.02	0.02	4.7	0.33	1.0	18	1.1	0.60	0.17	0.07	47	0.38
18	0.01	0.02	3.0	0.38	0.98	4.1	1.0	5.3	0.48	0.05	0.69	0.07
19	0.02	0.02	0.13	57	0.95	2.7	0.99	0.74	0.41	0.03	0.01	0.07
20	0.08	0.07	0.08	9.2	1.3	3.4	0.94	0.69	0.05	0.01	0.00	0.05
21	0.08	0.11	0.08	9.1	1.2	16	0.92	0.69	0.00	0.12	0.00	0.02
22	0.08	0.10	0.08	2.1	1.1	3.5	0.84	0.69	0.00	0.01	0.00	0.01
23	0.08	0.22	0.09	83	1.0	2.6	0.77	0.72	0.00	0.00	0.00	0.01
24	0.41	2.8	0.33	5.8	0.93	2.2	0.86	0.71	0.00	8.1	9.9	0.00
25	9.2	0.03	0.08	13	0.94	2.0	1.7	0.58	0.00	13	2.9	0.00
26	0.32	0.03	0.23	1.9	1.1	2.6	0.69	0.48	2.1	0.88	0.41	7.6
27	0.30	0.07	0.08	1.2	1.00	2.0	0.73	0.52	0.30	0.02	2.0	3.0
28	0.31	0.13	0.09	0.97	0.93	1.5	0.81	0.56	0.04	0.00	5.6	0.44
29	0.53	0.15	0.09	0.85	---	1.7	0.67	0.66	0.00	0.00	0.09	0.02
30	0.70	0.27	0.10	0.73	---	4.3	0.69	15	0.00	0.00	0.00	0.01
31	0.60	---	0.16	0.76	---	11	---	2.3	---	0.00	76	---
TOTAL	25.95	14.85	42.85	226.87	54.67	156.95	43.91	62.72	11.20	51.93	174.99	42.49
MEAN	0.837	0.495	1.382	7.318	1.952	5.063	1.464	2.023	0.373	1.675	5.645	1.416
MAX	9.2	7.0	26	83	17	35	8.1	15	2.1	21	76	19
MIN	0.01	0.00	0.07	0.17	0.64	0.43	0.67	0.48	0.00	0.00	0.00	0.00
CFSM	0.16	0.10	0.27	1.41	0.38	0.97	0.28	0.39	0.07	0.32	1.09	0.27
IN.	0.19	0.11	0.31	1.62	0.39	1.12	0.31	0.45	0.08	0.37	1.25	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
MEAN	3.655	2.079	3.057	10.23	5.567	7.563	10.18	3.376	3.219	4.281	4.539	9.287			
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	0.50	0.49	1.38	4.74	1.95	2.85	1.46	1.99	0.37	1.68	0.36	1.42			
(WY)	2001	2002	2002	2001	2002	1999	2002	1999	2002	2002	2001	2002			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

ANNUAL TOTAL	1660.45	909.38		
ANNUAL MEAN	4.549	2.491		
HIGHEST ANNUAL MEAN			8.10	2000
LOWEST ANNUAL MEAN			2.49	2002
HIGHEST DAILY MEAN	210	Jul 4	83	Jan 23
LOWEST DAILY MEAN	0.00	Aug 9	0.00	Nov 7
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 5	0.00	Aug 4
MAXIMUM PEAK FLOW			1060	Aug 17
MAXIMUM PEAK STAGE			3.81	Aug 17
INSTANTANEOUS LOW FLOW			0.00*	Nov 7
ANNUAL RUNOFF (CFSM)	0.87		0.48	
ANNUAL RUNOFF (INCHES)	11.88		6.51	13.49
10 PERCENT EXCEEDS	7.1		5.1	7.9
50 PERCENT EXCEEDS	0.83		0.57	1.2
90 PERCENT EXCEEDS	0.02		0.00	0.09

e Estimated.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

