

SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'31", long 80°49'51", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of third footbridge 900 feet upstream of Colony Road at Charlotte. Located within Myers Park Country Club.

DRAINAGE AREA.--19.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 598.02 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record 15.41 ft, from floodmarks. Maximum discharge for period of record from slope-area measurement of peak flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1995 reached a stage of 15.6 ft, present site and datum, from floodmarks; discharge not determined.

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	1.7	2.1	2.7	2.6	7.9	3.3	37	7.2	3.0	2.3	0.38	15
2	1.7	26	2.1	2.6	4.6	138	6.7	4.7	e3.0	1.2	12	2.8
3	1.5	3.1	1.9	5.6	4.4	75	6.1	9.1	e2.6	0.97	5.4	1.8
4	1.4	1.1	2.0	6.9	4.6	13	5.0	56	e2.0	3.5	0.72	1.4
5	e1.4	1.3	1.9	4.3	4.8	7.7	4.7	6.2	1.8	0.94	0.46	1.1
6	e4.0	2.3	1.9	103	15	6.8	4.6	3.4	16	0.71	0.43	1.0
7	e2.0	2.8	2.0	9.9	72	6.1	4.5	3.0	13	0.60	0.30	0.93
8	e1.8	3.1	2.1	4.2	24	5.7	4.5	2.8	1.9	0.58	0.29	0.89
9	e1.6	1.5	2.1	3.3	6.9	5.6	4.7	2.8	1.6	0.64	0.34	0.85
10	1.5	1.2	108	3.2	15	5.7	8.9	4.4	1.6	0.59	0.37	0.80
11	1.5	1.1	36	3.0	6.6	4.9	4.7	8.8	1.7	1.1	0.33	0.82
12	2.1	0.80	3.8	4.0	4.9	38	6.2	2.9	1.5	1.1	0.28	0.75
13	3.8	1.0	4.9	8.1	4.6	31	6.2	38	1.4	39	0.23	0.74
14	8.2	1.5	3.7	3.2	4.0	9.2	4.9	8.9	1.4	127	0.18	8.6
15	3.1	1.6	2.7	3.0	3.8	6.6	5.4	3.1	1.4	2.9	17	79
16	1.7	1.6	2.4	2.8	3.6	6.3	5.3	2.3	1.2	1.4	51	34
17	1.3	1.5	18	2.7	3.3	65	4.8	2.3	1.2	1.0	197	7.1
18	1.5	1.5	24	2.7	3.1	11	4.6	17	1.2	0.83	8.4	1.8
19	1.8	1.7	3.4	208	3.1	7.2	4.3	3.0	1.2	0.77	1.8	1.5
20	1.8	2.0	2.8	44	3.7	9.4	4.1	2.2	1.2	0.69	1.2	1.3
21	1.7	2.0	2.6	31	3.9	61	4.3	2.2	1.1	0.79	0.73	1.1
22	1.8	1.8	3.1	7.4	3.1	10	3.9	2.3	1.1	0.79	0.64	1.1
23	1.8	2.3	2.6	240	3.1	6.9	3.7	2.3	1.1	1.1	e0.60	0.99
24	1.9	24	4.6	22	3.0	6.1	3.7	2.5	1.2	33	9.4	0.96
25	39	2.9	2.7	60	2.9	5.6	7.1	2.4	1.2	55	13	e0.95
26	2.1	2.2	2.8	9.1	3.0	8.1	3.3	2.3	16	4.3	4.5	e4.0
27	1.5	2.4	2.9	6.7	3.2	7.0	3.3	2.2	3.0	0.90	8.5	10
28	1.5	3.8	3.0	6.2	3.3	4.9	3.6	2.2	1.2	0.62	11	4.4
29	1.7	2.0	2.7	5.5	---	4.8	3.9	2.3	1.1	0.54	2.1	1.6
30	2.5	2.5	2.6	5.1	---	13	3.9	106	2.9	0.43	0.98	1.3
31	2.0	---	2.7	5.8	---	41	---	12	---	0.38	325	---
TOTAL	138.9	104.70	260.7	825.9	225.4	623.9	177.9	326.8	89.8	285.67	674.56	224.58
MEAN	4.481	3.490	8.410	26.64	8.050	20.13	5.930	10.54	2.993	9.215	21.76	7.486
MAX	40	26	108	240	72	138	37	106	16	127	325	79
MIN	1.3	0.80	1.9	2.6	2.9	3.3	3.3	2.2	1.1	0.38	0.18	0.74
CFSM	0.24	0.18	0.44	1.40	0.42	1.06	0.31	0.55	0.16	0.49	1.15	0.39
IN.	0.27	0.20	0.51	1.62	0.44	1.22	0.35	0.64	0.18	0.56	1.32	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	14.03	10.71	14.03	32.16	26.80	27.19	29.87
MAX	31.0	19.4	31.5	65.2	46.9	38.7	72.2
(WY)	2000	1998	1998	1998	2001	1998	1996
MIN	2.29	3.49	5.83	9.18	8.05	11.5	5.93
(WY)	2001	2002	2001	2001	2002	1999	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1996 - 2002

ANNUAL TOTAL	4378.68	3958.81		
ANNUAL MEAN	12.00	10.85	19.64	
HIGHEST ANNUAL MEAN			30.8	1998
LOWEST ANNUAL MEAN			10.8	2002
HIGHEST DAILY MEAN	366	Mar 29	325	Aug 31
LOWEST DAILY MEAN	0.77	Aug 23	0.18	Aug 14
ANNUAL SEVEN-DAY MINIMUM	0.93	Aug 21	0.29	Aug 8
MAXIMUM PEAK FLOW			1350	Aug 17
MAXIMUM PEAK STAGE			8.63	Aug 17
INSTANTANEOUS LOW FLOW			0.12	Aug 13
ANNUAL RUNOFF (CFSM)	0.63		0.57	
ANNUAL RUNOFF (INCHES)	8.57		7.75	
10 PERCENT EXCEEDS	23		23	
50 PERCENT EXCEEDS	3.6		3.0	
90 PERCENT EXCEEDS	1.3		0.90	

e Estimated.
* See REMARKS.

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC--Continued

