

Water-Data Report 2008

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°10'31", long 80°49'51" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on left bank on upstream side of third footbridge 900 ft upstream of Colony Road at Charlotte.

DRAINAGE AREA.--19.0 mi².

SURFACE-WATER 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, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from slope-area measurement of peak flow.

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.65	1.4	1.7	7.4	157	5.3	11	6.6	2.3	1.3	4.9	4.8
2	0.69	1.4	1.3	4.8	14	5.1	5.6	6.1	2.6	1.1	1.1	3.9
3	0.73	1.1	1.5	4.4	7.5	5.0	19	5.2	2.7	1.1	0.85	2.8
4	2.5	1.1	1.7	4.5	6.9	193	18	4.8	2.7	1.1	0.79	3.2
5	1.5	1.3	1.8	3.9	5.7	138	40	4.9	2.2	6.7	0.81	2.8
6	0.76	1.1	2.2	4.0	5.6	21	12	4.4	1.8	64	0.73	3.0
7	0.72	1.1	1.8	3.8	5.8	54	7.1	4.2	1.4	4.9	0.69	2.6
8	1.0	1.2	1.8	4.3	4.6	23	6.1	4.2	1.2	185	0.68	2.4
9	1.0	1.2	2.2	5.4	4.4	9.8	5.6	4.9	1.0	27	0.67	4.0
10	0.91	1.2	2.8	16	4.4	8.7	5.5	3.7	1.5	13	1.00	148
11	0.65	1.2	2.7	13	4.8	7.5	5.6	18	16	6.1	0.80	35
12	0.89	1.3	3.2	4.9	10	7.4	22	5.2	13	2.3	0.71	6.1
13	0.63	1.3	3.7	3.8	47	5.9	6.4	3.5	1.7	177	31	5.0
14	0.64	1.4	2.7	3.6	24	5.3	5.4	3.5	1.7	21	3.0	3.5
15	0.68	7.6	14	3.5	10	195	4.9	3.8	2.3	3.4	26	3.2
16	0.98	2.2	62	3.3	8.7	39	4.6	13	2.2	2.3	5.9	91
17	1.1	1.4	4.2	78	7.0	15	4.4	3.6	1.6	1.8	14	16
18	0.81	1.2	3.5	13	45	9.8	4.6	4.1	1.4	1.8	2.0	4.6
19	29	1.2	2.7	22	7.4	59	4.4	5.3	1.3	1.5	0.95	3.7
20	1.9	1.2	3.3	13	5.2	27	7.1	3.3	22	1.5	0.72	3.2
21	0.81	1.3	16	5.3	9.8	13	5.3	3.4	96	1.5	0.71	3.0
22	0.86	2.5	4.2	8.4	132	10	3.3	3.0	71	12	0.69	3.2
23	0.96	1.8	13	8.8	11	6.6	2.8	2.9	101	54	0.77	2.8
24	40	1.4	6.2	4.6	6.3	6.9	2.0	3.4	9.0	2.7	0.70	2.8
25	79	1.9	3.3	4.1	7.7	5.7	2.5	3.1	2.3	1.2	54	2.6
26	57	7.5	58	4.3	91	5.5	61	3.1	2.1	1.2	510	107
27	10	3.2	7.5	4.4	11	5.6	88	4.6	8.7	1.6	1,720	55
28	2.1	1.4	34	4.2	5.8	5.5	144	64	1.7	1.1	22	7.8
29	1.4	1.2	35	4.5	5.3	5.5	21	9.8	1.5	1.5	9.0	5.0
30	1.4	1.5	99	9.0	---	5.2	8.2	3.2	1.4	1.1	7.9	4.3
31	1.3	---	26	4.2	---	16	---	2.5	---	19	4.2	---
Total	242.57	55.8	423.0	278.4	664.9	919.3	537.4	215.3	377.3	620.8	2,427.27	542.3
Mean	7.82	1.86	13.6	8.98	22.9	29.7	17.9	6.95	12.6	20.0	78.3	18.1
Max	79	7.6	99	78	157	195	144	64	101	185	1,720	148
Min	0.63	1.1	1.3	3.3	4.4	5.0	2.0	2.5	1.0	1.1	0.67	2.4
Cfsm	0.41	0.10	0.72	0.47	1.21	1.56	0.94	0.37	0.66	1.05	4.12	0.95
In.	0.47	0.11	0.83	0.55	1.30	1.80	1.05	0.42	0.74	1.22	4.75	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.9	17.2	18.9	24.4	25.1	31.3	30.2	19.0	23.7	28.2	22.3	20.7
Max	31.0	77.4	45.8	65.2	46.9	78.2	94.2	112	118	114	78.3	83.7
(WY)	(2000)	(2007)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2008)	(2004)
Min	2.29	1.86	5.83	7.15	8.05	8.87	5.93	6.95	2.99	8.57	1.80	2.64
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(2006)	(2002)	(2008)	(2002)	(1996)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1996 - 2008	
Annual total	5,982.49		7,304.34			
Annual mean	16.4		20.0		23.1	
Highest annual mean					53.3	2003
Lowest annual mean					10.8	2002
Highest daily mean	777	Mar 2	1,720	Aug 27	2,610	Jul 23, 1997
Lowest daily mean	0.58	Sep 10	0.63	Oct 13	0.18	Aug 14, 2002
Annual seven-day minimum	0.68	Sep 26	0.75	Aug 3	0.29	Aug 8, 2002
Maximum peak flow			3,550	Aug 27	^a 5,680	Jul 23, 1997
Maximum peak stage			16.09	Aug 27	16.09	Aug 27, 2008
Instantaneous low flow			0.55	Oct 11	0.12	Aug 13, 2002
Annual runoff (cfsm)	0.863		1.05		1.22	
Annual runoff (inches)	11.71		14.30		16.54	
10 percent exceeds	34		39		42	
50 percent exceeds	6.3		4.2		6.3	
90 percent exceeds	0.91		1.1		2.1	

^aSee Remarks.