

Water-Data Report 2007

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 feet 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 gage height for period of record 15.41 ft, from floodmarks. Maximum discharge for period of record from slope-area measurement of peak flow. Minimum discharge for current water year also occurred September 9-11, 29, 30.

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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.3	4.2	27	71	79	307	12	8.3	3.5	16	2.0	2.5
2	3.2	3.9	11	16	30	777	12	8.2	3.6	3.6	1.7	4.0
3	3.1	3.6	8.9	11	14	34	8.6	8.1	36	2.8	1.4	1.2
4	3.2	3.6	7.5	11	12	22	8.5	8.5	5.5	2.7	1.4	1.1
5	3.3	3.7	7.3	147	11	18	8.0	12	3.9	2.5	1.3	2.2
6	4.8	3.8	7.3	46	10	16	7.9	8.9	3.7	5.2	2.8	5.0
7	3.7	84	7.4	87	11	15	7.8	6.3	3.5	137	2.6	4.2
8	69	61	6.7	194	11	14	7.8	6.3	3.5	9.9	1.3	2.2
9	5.7	8.3	6.7	27	9.3	13	8.0	32	3.2	7.6	1.2	0.68
10	3.5	6.1	7.3	17	9.2	13	8.0	10	3.0	4.8	1.0	0.58
11	3.2	39	6.8	14	8.8	12	24	6.5	4.6	7.4	0.91	0.85
12	6.3	149	6.7	13	10	12	67	8.3	24	11	0.89	1.0
13	3.1	10	6.8	12	130	12	9.5	8.9	34	2.8	0.86	0.84
14	2.7	7.9	7.4	11	109	12	13	5.8	59	2.5	0.84	28
15	2.6	11	7.5	11	17	11	269	5.8	16	12	0.82	30
16	2.6	415	6.4	9.9	14	50	26	5.9	5.2	10	0.85	1.4
17	280	21	6.3	8.7	12	14	13	6.0	3.9	3.0	0.85	0.94
18	40	11	7.0	19	11	11	11	5.9	3.5	25	0.81	0.90
19	7.3	8.5	6.6	13	10	11	37	5.7	3.3	3.0	0.79	1.2
20	5.4	7.5	6.6	9.4	10	10	41	6.1	3.3	2.2	0.79	1.0
21	4.5	293	6.8	53	10	9.9	12	6.4	3.0	2.0	1.7	0.89
22	4.4	1,030	144	74	9.6	11	10	6.5	2.9	1.8	1.4	0.87
23	4.1	47	21	15	9.0	10	9.7	6.3	2.6	1.8	28	0.85
24	3.5	20	11	12	8.8	9.8	9.4	6.0	10	1.6	15	0.78
25	3.5	14	205	11	106	9.6	9.2	5.6	128	1.6	1.2	1.0
26	3.8	13	28	10	22	9.2	8.9	5.2	29	1.5	6.7	0.72
27	43	11	15	10	14	9.2	42	4.8	8.5	75	10	0.66
28	86	9.2	11	9.9	13	10	9.5	4.4	3.4	36	1.2	0.76
29	6.5	8.7	10	9.2	---	13	8.4	4.3	2.8	38	0.92	0.67
30	4.7	13	9.4	9.0	---	9.0	8.2	4.0	35	10	1.0	0.60
31	4.6	---	22	8.9	---	8.8	---	3.7	---	3.3	35	---
Total	624.6	2,321.0	648.4	970.0	720.7	1,493.5	726.4	230.7	451.4	443.6	127.23	97.59
Mean	20.1	77.4	20.9	31.3	25.7	48.2	24.2	7.44	15.0	14.3	4.10	3.25
Max	280	1,030	205	194	130	777	269	32	128	137	35	30
Min	2.6	3.6	6.3	8.7	8.8	8.8	7.8	3.7	2.6	1.5	0.79	0.58
Cfsm	1.06	4.07	1.10	1.65	1.35	2.54	1.27	0.39	0.79	0.75	0.22	0.17
In.	1.22	4.54	1.27	1.90	1.41	2.92	1.42	0.45	0.88	0.87	0.25	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.6	18.6	19.4	25.7	25.2	31.4	31.3	20.1	24.6	28.8	17.6	21.0
Max	31.0	77.4	45.8	65.2	46.9	78.2	94.2	112	118	114	44.9	83.7
(WY)	(2000)	(2007)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2006)	(2004)
Min	2.29	3.49	5.83	7.15	8.05	8.87	5.93	7.44	2.99	8.57	1.80	2.64
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(1996)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1996 - 2007	
Annual total	8,727.3		8,855.12			
Annual mean	23.9		24.3		23.4	
Highest annual mean					53.3	2003
Lowest annual mean					10.8	2002
Highest daily mean	1,030	Nov 22	1,030	Nov 22	2,610	Jul 23, 1997
Lowest daily mean	1.9	Aug 3	0.58	Sep 10	0.18	Aug 14, 2002
Annual seven-day minimum	2.0	Jul 29	0.74	Sep 24	0.29	Aug 8, 2002
Maximum peak flow			2,600	Mar 2	^a 5,680	Jul 23, 1997
Maximum peak stage			11.20	Mar 2	^a 15.41	Jul 23, 1997
Instantaneous low flow			^a 0.55	Sep 8	0.12	Aug 13, 2002
Annual runoff (cfsm)	1.26		1.28		1.23	
Annual runoff (inches)	17.09		17.34		16.74	
10 percent exceeds	39		39		42	
50 percent exceeds	6.3		8.5		6.5	
90 percent exceeds	3.0		1.2		2.2	

^a See Remarks.

