



Water-Data Report 2010

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 streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from slope-area measurement of peak flow. Minimum discharge for current water year also occurred September 20.

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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	132	9.8	13	28	14	14	6.3	515	12	22	3.2
2	2.4	6.4	156	12	102	25	13	6.4	111	6.0	5.1	3.1
3	2.4	4.7	40	11	50	36	12	12	22	4.9	5.7	2.8
4	2.3	4.1	13	e11	29	18	12	7.0	9.9	4.2	4.2	2.5
5	22	3.9	12	11	e598	15	11	5.6	8.2	3.9	52	2.5
6	3.6	3.7	8.8	11	88	14	10	5.4	7.8	3.7	30	3.0
7	2.6	3.9	8.0	11	e37	14	9.7	5.1	11	3.4	49	2.4
8	2.4	3.9	52	12	e31	13	17	4.9	5.6	3.3	5.8	2.3
9	2.3	3.8	220	11	26	13	16	4.4	5.3	3.2	4.8	2.4
10	2.4	108	20	e11	e25	14	8.8	4.4	20	3.1	4.2	2.2
11	2.2	505	13	e11	e23	20	8.5	9.2	7.4	5.5	3.8	3.5
12	5.8	124	11	10	18	122	8.5	5.5	4.8	389	3.6	3.2
13	4.2	18	24	11	27	124	8.1	4.6	91	19	3.5	2.2
14	8.2	9.8	13	11	20	43	7.7	4.5	16	7.3	4.1	2.1
15	7.1	7.7	11	11	36	21	7.7	4.1	38	5.7	17	2.0
16	4.5	6.8	10	12	20	17	7.7	4.5	12	5.0	5.0	2.0
17	4.6	6.2	9.4	208	17	16	7.4	56	6.3	12	3.5	2.1
18	3.1	7.9	78	24	17	15	6.9	17	5.2	7.2	3.1	1.8
19	2.5	7.3	65	18	15	14	6.7	5.5	4.7	4.4	595	1.8
20	2.6	5.6	18	16	14	13	7.3	4.9	4.4	4.1	25	1.7
21	3.0	5.3	13	77	14	21	12	6.4	4.1	3.7	8.1	1.9
22	2.9	7.7	12	36	81	35	7.1	11	3.8	3.5	5.9	1.9
23	3.0	67	11	20	25	15	6.6	4.8	3.6	3.3	5.2	1.9
24	6.1	10	10	124	27	13	7.7	5.7	3.5	13	5.3	1.9
25	3.6	7.8	409	910	26	12	34	6.4	3.3	4.5	4.6	1.8
26	2.7	7.1	37	42	17	12	7.1	4.6	3.3	4.3	5.7	28
27	54	8.8	20	29	16	11	20	4.1	3.1	214	5.0	80
28	42	6.3	16	e25	15	34	16	13	4.1	35	4.0	29
29	4.6	6.2	14	e27	---	162	6.7	38	3.0	6.9	3.7	51
30	3.7	7.9	13	28	---	21	6.4	4.8	217	4.9	3.5	48
31	6.7	---	26	37	---	16	---	103	---	21	3.3	---
Total	221.8	1,106.8	1,373.0	1,801	1,442	933	323.6	379.1	1,154.4	821.0	900.7	294.2
Mean	7.15	36.9	44.3	58.1	51.5	30.1	10.8	12.2	38.5	26.5	29.1	9.81
Max	54	505	409	910	598	162	34	103	515	389	595	80
Min	2.2	3.7	8.0	10	14	11	6.4	4.1	3.0	3.1	3.1	1.7
Cfsm	0.38	1.94	2.33	3.06	2.71	1.58	0.57	0.64	2.03	1.39	1.53	0.52
In.	0.43	2.17	2.69	3.53	2.82	1.83	0.63	0.74	2.26	1.61	1.76	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.7	18.0	20.4	26.2	25.9	31.5	27.7	20.7	24.7	27.8	22.0	19.0
Max	31.0	77.4	45.8	65.2	51.5	78.2	94.2	112	118	114	78.3	83.7
(WY)	(2000)	(2007)	(2003)	(1998)	(2010)	(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 2009		Water Year 2010		Water Years 1996 - 2010	
Annual total	8,582.6		10,750.6			
Annual mean	23.5		29.5		23.3	
Highest annual mean					53.3 2003	
Lowest annual mean					10.8 2002	
Highest daily mean	644	May 5	910	Jan 25	2,610	Jul 23, 1997
Lowest daily mean	2.0	Sep 8	1.7	Sep 20	0.18	Aug 14, 2002
Annual seven-day minimum	2.3	Sep 3	1.8	Sep 18	0.29	Aug 8, 2002
Maximum peak flow			2,860	Jan 25	^a 5,680	Jul 23, 1997
Maximum peak stage			14.25	Jan 25	16.09	Aug 27, 2008
Instantaneous low flow			^a 1.6	Sep 19	0.12	Aug 13, 2002
Annual runoff (cfsm)	1.24		1.55		1.22	
Annual runoff (inches)	16.80		21.05		16.63	
10 percent exceeds	41		49		41	
50 percent exceeds	6.3		8.8		6.3	
90 percent exceeds	2.8		3.0		2.2	

^a See Remarks.

