



Water-Data Report 2011

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 and crest-stage gage. Datum of gage is 598.02 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from slope-area measurement of peak flow. Minimum discharge for current water year also occurred July 29, 30, 31.

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 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.4	2.1	89	12	3.3	34	12	4.3	3.2	2.2	5.7	0.69
2	2.7	1.9	4.3	26	72	8.0	8.7	3.8	3.1	1.8	1.8	41
3	2.4	2.1	3.3	5.0	5.2	6.4	7.3	9.2	2.9	1.8	1.3	14
4	2.6	23	3.7	3.5	114	5.8	7.1	79	2.8	6.1	1.0	1.5
5	2.2	4.5	4.5	3.3	104	6.0	53	5.7	2.9	7.1	605	51
6	2.2	2.6	3.0	4.2	10	142	8.1	8.1	2.7	46	23	32
7	2.2	2.4	3.1	3.6	6.3	17	6.9	5.3	2.8	24	6.3	3.9
8	2.3	2.5	3.8	3.3	5.4	8.6	6.2	4.3	2.4	5.0	11	1.8
9	2.1	2.4	3.2	3.1	4.4	84	43	4.0	27	7.0	18	1.5
10	2.1	2.2	3.1	5.3	4.8	73	21	3.8	25	2.1	2.7	1.3
11	2.1	2.6	3.1	13	4.2	15	7.1	65	13	2.0	9.5	1.0
12	2.0	2.3	18	7.4	4.0	9.5	6.5	28	17	1.5	3.5	0.95
13	2.1	2.2	4.3	6.2	3.8	8.0	5.4	5.7	4.8	1.6	3.4	0.90
14	6.1	2.3	3.0	5.0	3.8	7.1	5.4	6.0	2.6	5.1	3.5	0.80
15	2.4	2.4	3.2	4.9	3.8	11	5.0	7.0	2.3	1.6	25	0.74
16	1.9	3.0	12	4.7	4.2	17	88	4.9	2.9	1.7	2.0	0.66
17	1.8	4.7	6.0	5.3	4.0	6.6	9.9	268	2.4	1.3	1.5	0.69
18	1.9	2.8	3.5	6.5	4.2	6.1	6.1	14	3.0	1.2	1.4	0.75
19	1.8	2.6	3.3	4.3	3.7	5.8	5.3	8.0	2.6	1.1	1.3	0.77
20	3.6	2.3	2.7	3.6	3.5	5.5	5.2	6.5	2.1	3.4	1.3	0.81
21	2.6	2.1	3.0	3.5	3.6	5.5	5.4	5.8	8.2	1.1	3.1	15
22	1.8	2.1	3.2	3.3	3.6	5.2	23	5.3	132	1.7	16	8.5
23	2.1	2.3	3.5	3.3	3.4	5.2	6.8	5.1	3.8	0.89	1.6	507
24	1.7	2.3	3.1	3.3	3.6	9.7	5.0	4.3	9.4	0.84	1.1	69
25	14	2.3	4.4	3.4	4.2	5.0	4.8	4.0	5.2	1.1	1.0	199
26	7.9	6.0	17	18	4.0	46	4.6	3.9	2.2	1.0	0.96	40
27	6.3	3.4	6.2	5.7	3.8	87	4.4	32	2.4	0.84	0.98	60
28	32	2.4	3.7	3.8	124	28	28	12	74	0.70	0.79	220
29	2.7	2.3	3.5	3.5	---	9.6	4.8	4.6	47	0.64	0.72	9.4
30	2.2	4.5	3.3	3.3	---	174	4.4	4.0	3.9	0.61	0.70	6.9
31	2.2	---	3.1	3.5	---	21	---	3.7	---	149	0.69	---
Total	126.4	102.6	234.1	184.8	518.8	872.6	408.4	625.3	415.6	282.02	755.84	1,291.56
Mean	4.08	3.42	7.55	5.96	18.5	28.1	13.6	20.2	13.9	9.10	24.4	43.1
Max	32	23	89	26	124	174	88	268	132	149	605	507
Min	1.7	1.9	2.7	3.1	3.3	5.0	4.4	3.7	2.1	0.61	0.69	0.66
Cfsm	0.21	0.18	0.40	0.31	0.98	1.48	0.72	1.06	0.73	0.48	1.28	2.27
In.	0.25	0.20	0.46	0.36	1.02	1.71	0.80	1.22	0.81	0.55	1.48	2.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.1	17.0	19.6	25.0	25.5	31.3	26.8	20.7	24.0	26.6	22.2	20.5
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	5.96	8.05	8.87	5.93	6.95	2.99	8.57	1.80	2.64
(WY)	(2001)	(2008)	(2001)	(2011)	(2002)	(2006)	(2002)	(2008)	(2002)	(1996)	(2001)	(2005)

SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011		Water Years 1996 - 2011	
Annual total	8,512.1		5,818.02		
Annual mean	23.3		15.9		22.8
Highest annual mean				53.3	2003
Lowest annual mean				10.8	2002
Highest daily mean	910	Jan 25	605	Aug 5	2,610 Jul 23, 1997
Lowest daily mean	1.7	Sep 20	0.61	Jul 30	0.18 Aug 14, 2002
Annual seven-day minimum	1.8	Sep 18	0.75	Sep 14	0.29 Aug 8, 2002
Maximum peak flow			2,450	Sep 23	^a 5,680 Jul 23, 1997
Maximum peak stage			10.93	Sep 23	16.09 Aug 27, 2008
Instantaneous low flow			^a 0.60	Jul 28	0.12 Aug 13, 2002
Annual runoff (cfsm)	1.23		0.839		1.20
Annual runoff (inches)	16.67		11.39		16.28
10 percent exceeds	35		28		41
50 percent exceeds	6.1		4.0		6.1
90 percent exceeds	2.2		1.4		2.1

^a See Remarks.

