

Water-Data Report 2010

**0214642825 BRIAR CREEK NEAR CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°14'10", long 80°46'16" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, 400 ft upstream from Shamrock Drive bridge and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1998 to current year.

REVISED RECORDS.--WDR NC-2003-1B: 1998-2002 (daily discharges).

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 672.00 ft, North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 1,000 ft<sup>3</sup>/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year also occurred October 3, 4, 5.

## 0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

**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	0.14	20	2.7	2.9	7.9	2.1	2.0	1.5	144	1.9	2.0	1.1
2	0.17	1.2	28	2.8	34	4.6	2.0	1.6	8.9	1.2	1.0	1.0
3	0.14	0.79	8.4	2.7	14	6.1	2.1	2.7	3.0	1.2	1.0	1.0
4	0.09	0.67	3.2	2.6	6.3	2.7	2.0	1.4	1.9	1.3	1.0	0.99
5	3.5	0.71	3.1	2.6	139	2.2	2.0	1.3	1.7	1.3	17	0.95
6	0.53	0.69	2.3	2.5	15	2.0	2.0	1.3	2.1	1.3	21	1.1
7	0.53	0.74	2.3	2.5	5.2	2.1	1.9	1.2	2.3	1.3	5.5	1.1
8	0.56	0.73	13	2.5	3.8	2.2	3.1	1.2	1.4	1.3	1.1	1.3
9	0.73	0.69	41	2.5	3.8	2.2	2.3	1.2	1.4	1.3	0.94	1.5
10	1.1	16	5.3	2.3	3.4	2.4	1.6	1.3	1.6	1.3	0.84	1.5
11	1.1	119	3.4	2.4	2.8	3.5	1.7	2.3	1.7	1.2	1.0	1.8
12	2.0	34	3.1	2.5	2.9	36	1.7	1.2	1.7	63	1.2	2.0
13	1.0	4.7	6.2	2.5	5.2	16	1.7	1.1	15	2.3	1.2	1.5
14	2.7	2.8	3.0	2.7	3.2	6.8	1.6	1.1	2.1	0.95	2.2	1.7
15	2.3	2.1	2.7	2.5	6.1	3.3	1.6	1.2	3.7	0.79	2.5	1.5
16	1.1	1.9	2.4	2.9	2.6	2.6	1.6	1.3	1.3	2.2	0.80	e1.2
17	1.4	2.3	2.2	38	2.2	2.5	1.6	12	1.0	1.4	0.62	0.91
18	0.93	3.3	15	4.9	2.2	2.5	1.5	2.2	1.1	1.1	0.59	e0.92
19	1.2	1.9	14	3.4	2.1	2.5	1.5	1.2	1.3	0.79	221	1.1
20	1.5	2.0	4.4	2.9	2.1	2.5	1.6	1.1	1.4	0.71	4.5	1.6
21	1.0	2.6	3.0	15	2.2	4.0	2.3	3.7	1.2	0.62	2.0	1.5
22	0.98	3.5	2.6	6.9	14	5.6	1.6	1.6	1.1	0.62	2.0	1.4
23	1.3	15	2.5	3.4	3.4	2.8	1.6	0.99	1.2	0.78	2.2	1.2
24	1.9	2.7	2.4	49	4.1	2.6	1.9	1.1	1.2	0.80	2.2	1.4
25	0.85	2.2	110	304	3.1	2.8	6.6	1.2	1.2	0.37	2.3	0.89
26	0.83	3.2	9.1	10	2.2	2.9	1.3	1.1	1.2	0.41	3.6	4.0
27	e19	3.0	4.7	6.4	2.2	2.6	3.4	1.0	1.5	64	1.3	11
28	e10	2.4	3.6	5.5	2.2	6.0	2.2	5.9	1.2	3.3	1.2	5.4
29	0.84	2.8	2.9	5.2	---	23	1.3	5.8	1.0	1.1	1.3	9.0
30	1.1	4.0	2.9	8.4	---	3.0	1.4	0.94	34	0.82	1.2	9.7
31	1.5	---	6.2	11	---	2.3	---	17	---	2.2	1.2	---
<b>Total</b>	62.02	257.62	315.6	515.4	297.2	164.4	60.7	79.73	243.4	162.86	307.49	71.26
<b>Mean</b>	2.00	8.59	10.2	16.6	10.6	5.30	2.02	2.57	8.11	5.25	9.92	2.38
<b>Max</b>	19	119	110	304	139	36	6.6	17	144	64	221	11
<b>Min</b>	0.09	0.67	2.2	2.3	2.1	2.0	1.3	0.94	1.0	0.37	0.59	0.89
<b>Cfsm</b>	0.38	1.65	1.96	3.20	2.04	1.02	0.39	0.49	1.56	1.01	1.91	0.46
<b>In.</b>	0.44	1.84	2.26	3.69	2.13	1.18	0.43	0.57	1.74	1.17	2.20	0.51

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2.80	4.35	4.79	5.87	5.24	7.81	6.35	5.23	5.47	4.84	6.37	5.70
<b>Max</b>	7.12	20.7	10.6	16.6	10.6	21.6	22.2	30.3	25.3	13.2	28.8	24.4
<b>(WY)</b>	(2000)	(2007)	(2003)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2005)	(2008)	(2004)
<b>Min</b>	0.41	0.41	1.08	1.08	1.78	2.61	1.36	1.46	0.33	1.25	0.29	0.45
<b>(WY)</b>	(2001)	(2008)	(2002)	(2008)	(2002)	(2006)	(2002)	(2008)	(2002)	(2007)	(2001)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
<b>Annual total</b>	1,956.83		2,537.68			
<b>Annual mean</b>	5.36		6.95		5.39	
<b>Highest annual mean</b>					12.7	2003
<b>Lowest annual mean</b>					1.96	2002
<b>Highest daily mean</b>	119	Nov 11	304	Jan 25	677	Aug 27, 2008
<b>Lowest daily mean</b>	0.09	Oct 4	0.09	Oct 4	0.00	Aug 17, 1999
<b>Annual seven-day minimum</b>	0.14	Sep 28	0.62	Jul 20	0.00	Aug 4, 2002
<b>Maximum peak flow</b>			<sup>a</sup> 2,530	Jan 25	<sup>a</sup> 3,480	Aug 27, 2008
<b>Maximum peak stage</b>			8.17	Jan 25	9.43	Aug 27, 2008
<b>Instantaneous low flow</b>			<sup>a</sup> 0.09	Oct 1	<sup>a</sup> 0.00	Aug 18, 1999
<b>Annual runoff (cfsm)</b>	1.03		1.34		1.04	
<b>Annual runoff (inches)</b>	14.00		18.15		14.10	
<b>10 percent exceeds</b>	9.5		10		8.5	
<b>50 percent exceeds</b>	2.1		2.1		1.7	
<b>90 percent exceeds</b>	0.39		0.94		0.19	

<sup>a</sup> See Remarks.

