



Water-Data Report 2009

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 bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi².

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 800 ft³/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year also occurred August 18-19, 22, 24-26, September 29-30.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.62	0.61	1.7	0.57	1.5	71	4.3	3.3	1.7	2.0	0.98	0.23
2	0.71	0.39	0.65	0.62	2.9	21	4.3	8.5	1.8	1.8	3.1	0.24
3	0.84	0.67	0.75	0.62	4.0	5.7	5.3	3.8	1.7	1.7	0.55	0.29
4	0.84	0.36	0.82	8.3	1.5	3.7	3.8	6.1	15	0.92	0.43	0.35
5	0.85	0.46	0.79	0.93	1.3	2.8	3.7	113	84	0.92	2.4	0.40
6	0.73	0.39	0.86	54	1.3	2.4	4.1	20	5.9	1.0	2.1	0.40
7	0.66	0.42	0.87	16	1.4	2.1	3.9	7.6	2.7	1.1	0.30	0.42
8	13	0.55	0.79	e2.5	1.5	2.2	4.2	4.1	2.1	1.0	0.37	0.34
9	2.1	0.58	0.91	e2.0	1.5	2.2	3.9	3.3	1.9	9.5	0.54	0.56
10	0.52	0.69	7.0	2.0	1.5	2.2	12	3.1	1.9	0.99	0.45	1.3
11	0.34	0.78	40	2.3	2.4	2.4	10	7.0	2.8	0.55	0.43	0.31
12	0.44	0.95	19	1.7	2.7	2.6	3.9	3.0	5.9	0.61	0.77	0.21
13	0.55	1.1	1.2	1.7	1.5	3.6	3.9	2.8	1.8	0.84	0.66	0.19
14	0.81	9.1	0.90	1.5	2.1	7.8	9.4	2.7	1.6	0.88	0.64	0.15
15	1.00	4.1	1.5	1.5	1.6	15	4.2	3.4	1.4	1.1	0.76	0.17
16	1.1	0.64	0.99	1.4	4.5	5.5	3.8	3.9	1.6	1.2	28	0.15
17	1.8	0.40	0.61	1.5	1.5	3.8	4.2	3.2	7.9	1.3	0.78	0.80
18	4.2	0.41	0.49	1.6	8.3	3.0	4.3	4.7	3.5	1.2	0.13	0.38
19	0.29	0.46	0.51	1.7	2.6	4.9	4.4	2.3	1.8	0.75	0.15	0.60
20	0.34	0.75	0.92	1.7	1.8	5.4	14	2.3	1.3	0.59	0.75	3.1
21	0.34	0.74	5.7	1.4	1.7	3.1	4.5	2.2	1.3	0.72	0.17	0.21
22	0.38	0.64	0.76	1.3	1.7	3.6	4.3	2.1	1.5	4.9	0.85	0.56
23	0.67	0.68	0.61	1.3	1.6	3.9	4.1	2.6	1.5	41	0.24	0.63
24	0.90	0.77	0.62	1.4	1.6	4.0	3.8	10	1.9	12	0.15	0.35
25	2.6	3.4	0.91	1.4	1.5	4.9	3.7	40	2.0	0.36	0.12	0.57
26	0.52	0.91	0.51	1.3	1.7	6.1	3.9	7.0	2.1	0.29	0.18	4.1
27	0.55	0.81	0.74	1.4	2.9	9.6	4.0	4.2	2.0	0.40	0.29	2.6
28	0.80	0.85	1.00	4.2	24	34	3.9	9.5	1.9	45	0.30	0.22
29	0.84	1.1	1.1	1.9	---	10	3.7	4.6	2.0	33	0.30	0.12
30	0.73	24	0.53	1.5	---	5.2	3.5	2.1	1.8	3.1	0.23	0.11
31	0.63	---	0.55	1.4	---	4.2	---	1.9	---	6.7	0.75	---
Total	40.70	57.71	94.29	122.64	84.1	257.9	151.0	294.3	166.3	177.42	47.87	20.06
Mean	1.31	1.92	3.04	3.96	3.00	8.32	5.03	9.49	5.54	5.72	1.54	0.67
Max	13	24	40	54	24	71	14	113	84	45	28	4.1
Min	0.29	0.36	0.49	0.57	1.3	2.1	3.5	1.9	1.3	0.29	0.12	0.11
Cfsm	0.25	0.37	0.58	0.76	0.58	1.60	0.97	1.83	1.07	1.10	0.30	0.13
In.	0.29	0.41	0.67	0.88	0.60	1.84	1.08	2.11	1.19	1.27	0.34	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.88	3.97	4.30	4.89	4.76	8.04	6.71	5.45	5.25	4.81	6.07	5.97
Max	7.12	20.7	10.6	12.0	7.54	21.6	22.2	30.3	25.3	13.2	28.8	24.4
(WY)	(2000)	(2007)	(2003)	(1999)	(2007)	(2003)	(2003)	(2003)	(2003)	(2005)	(2008)	(2004)
Min	0.41	0.41	1.08	1.08	1.78	2.61	1.36	1.46	0.33	1.25	0.29	0.45
(WY)	(2001)	(2008)	(2002)	(2008)	(2002)	(2006)	(2002)	(2008)	(2002)	(2007)	(2001)	(2007)

SUMMARY STATISTICS

	Calendar Year 2008	Water Year 2009	Water Years 1998 - 2009	
Annual total	1,963.01	1,514.29		
Annual mean	5.36	4.15	5.25	
Highest annual mean			12.7	2003
Lowest annual mean			1.96	2002
Highest daily mean	677 Aug 27	113 May 5	677 Aug 27, 2008	
Lowest daily mean	0.00 Aug 12	0.11 Sep 30	0.00 Aug 17, 1999	
Annual seven-day minimum	0.01 Aug 18	0.22 Aug 24	0.00 Aug 4, 2002	
Maximum peak flow		a1,030 May 5	a3,480 Aug 27, 2008	
Maximum peak stage		5.57 May 5	9.43 Aug 27, 2008	
Instantaneous low flow		a0.09 Nov 4	a0.00 Aug 18, 1999	
Annual runoff (cfsm)	1.03	0.798	1.01	
Annual runoff (inches)	14.04	10.83	13.73	
10 percent exceeds	6.5	7.7	8.4	
50 percent exceeds	0.88	1.5	1.6	
90 percent exceeds	0.13	0.38	0.16	

^a See Remarks.

