



Water-Data Report 2011

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 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 1,000 ft³/s by culvert computation of peak flow. No flow occurs most years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.74	1.1	15	2.6	0.51	5.6	2.7	1.5	1.5	0.48	0.30	0.01
2	0.48	1.2	1.2	4.8	11	2.4	2.1	1.6	1.5	0.54	0.07	3.4
3	0.55	1.4	1.1	0.95	0.82	2.0	2.0	2.7	1.5	0.59	0.07	0.81
4	0.62	4.7	1.3	0.67	17	2.0	1.9	9.2	1.5	1.9	0.07	0.03
5	0.61	0.71	1.4	0.72	15	2.1	9.0	1.2	1.5	1.1	197	7.0
6	0.67	0.61	1.2	0.98	1.5	25	1.9	1.7	1.6	1.8	2.0	2.7
7	0.73	0.41	1.2	0.79	0.89	4.3	1.7	1.2	1.6	0.73	0.59	0.16
8	0.64	0.51	1.6	0.83	0.72	2.7	1.7	1.1	2.1	0.94	5.6	0.07
9	0.42	0.57	1.2	0.86	0.60	22	4.5	1.2	3.2	1.4	1.2	0.10
10	0.40	0.49	1.2	1.7	0.60	e14	2.7	1.2	3.6	0.44	0.13	0.07
11	0.37	0.62	1.3	4.1	0.61	e7.3	1.6	11	1.2	0.51	0.16	0.02
12	0.35	0.63	3.7	2.2	0.62	e3.6	1.7	4.2	2.3	0.23	0.31	0.01
13	0.31	0.78	1.3	1.8	0.62	e2.5	1.7	1.2	1.5	2.6	0.34	0.01
14	0.50	0.76	0.50	1.7	0.72	e2.2	1.8	1.5	1.00	0.57	8.6	0.01
15	0.32	0.96	0.52	1.9	0.84	3.5	1.8	1.7	1.1	0.15	1.8	0.00
16	0.29	1.0	1.2	1.7	0.78	4.0	11	15	1.6	0.42	0.07	0.00
17	0.30	1.3	1.8	1.1	0.64	2.5	2.0	95	1.7	0.47	0.05	0.00
18	0.27	1.3	0.74	1.4	0.61	2.6	1.6	2.6	2.2	0.31	0.12	0.00
19	0.30	1.2	0.74	0.86	0.58	2.8	1.4	1.4	2.6	0.16	0.31	0.00
20	0.51	0.71	0.66	0.57	0.61	3.2	1.3	1.0	2.3	0.10	0.37	0.00
21	0.53	0.89	0.98	0.62	0.64	3.5	1.4	1.0	9.5	0.30	1.1	2.2
22	0.34	0.92	0.82	0.62	0.63	3.4	4.3	1.1	15	0.09	3.0	1.1
23	0.38	1.1	0.89	0.60	0.61	3.5	1.4	1.2	0.79	0.01	0.04	109
24	0.47	2.0	1.2	0.60	0.66	4.2	1.3	1.1	1.5	0.00	0.03	13
25	2.0	1.8	1.5	0.68	0.81	3.0	1.3	1.1	1.2	0.18	0.12	23
26	1.3	2.5	4.1	3.4	0.70	10	1.3	1.1	0.98	0.08	0.15	5.0
27	8.6	1.9	1.4	0.90	0.79	13	1.3	3.9	1.1	0.01	0.14	22
28	4.5	2.0	1.0	0.56	19	6.7	4.5	2.0	6.4	0.00	0.08	41
29	0.95	2.4	1.0	0.48	---	3.0	1.2	1.4	4.5	0.00	0.03	0.60
30	1.1	3.4	0.71	0.49	---	34	1.4	1.6	0.57	0.00	0.01	0.42
31	1.1	---	0.60	0.48	---	5.8	---	1.4	---	51	0.01	---
Total	30.65	39.87	53.06	41.66	79.11	206.4	75.5	174.1	78.64	67.11	223.87	231.72
Mean	0.99	1.33	1.71	1.34	2.83	6.66	2.52	5.62	2.62	2.16	7.22	7.72
Max	8.6	4.7	15	4.8	19	34	11	95	15	51	197	109
Min	0.27	0.41	0.50	0.48	0.51	2.0	1.2	1.0	0.57	0.00	0.01	0.00
Cfsm	0.19	0.26	0.33	0.26	0.54	1.28	0.48	1.08	0.50	0.42	1.39	1.49
In.	0.22	0.29	0.38	0.30	0.57	1.48	0.54	1.25	0.56	0.48	1.60	1.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.66	4.12	4.55	5.52	5.06	7.72	6.08	5.26	5.27	4.65	6.43	5.84
Max	7.12	20.7	10.6	16.6	10.6	21.6	22.2	30.3	25.3	13.2	28.8	24.4
(WY)	(2000)	(2007)	(2003)	(2010)	(2010)	(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)

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	Calendar Year 2010	Water Year 2011	Water Years 1998 - 2011	
Annual total	2,026.02	1,301.69		
Annual mean	5.55	3.57	5.25	
Highest annual mean			12.7	2003
Lowest annual mean			1.96	2002
Highest daily mean	304	Jan 25	197	Aug 5
Lowest daily mean	0.27	Oct 18	0.00	Jul 24
Annual seven-day minimum	0.33	Oct 13	0.00	Sep 14
Maximum peak flow			a1,690	Aug 5
Maximum peak stage			6.68	Aug 5
Instantaneous low flow			^a 0.00	Jul 24
Annual runoff (cfsm)	1.07	0.686		1.01
Annual runoff (inches)	14.49	9.31		13.73
10 percent exceeds	6.3	4.9		8.4
50 percent exceeds	1.6	1.1		1.6
90 percent exceeds	0.64	0.12		0.19

^a See Remarks.

