



Water-Data Report 2009

0214645075 TRIBUTARY TO BRIAR CREEK AT COLONY ROAD AT CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°10'08", long 80°49'51" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank downstream of culvert on Colony Road, 4.0 mi south of city hall in Charlotte.

DRAINAGE AREA.--1.03 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2005 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 607.42 ft above North American Vertical Datum of 1988. 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 200 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record also occurred June 10, August 18, 22, 25, September 8-11, 17, 19, 24-26, 2007. Minimum discharge for current water year also occurred June 30, July 1-8, 17-22, September 3-4, 7-8.

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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	0.24	0.15	0.51	0.08	0.28	30	0.39	0.34	0.18	0.06	0.27	0.11
2	0.22	0.15	0.21	0.09	1.1	7.0	0.53	0.48	0.13	0.07	0.84	0.12
3	0.19	0.51	0.18	0.10	1.0	1.2	0.69	0.35	0.15	0.07	0.25	0.11
4	0.18	0.28	0.17	6.4	0.25	0.62	0.70	2.5	15	0.06	0.23	0.10
5	0.18	0.15	0.18	0.33	0.23	0.45	0.35	47	18	0.07	0.58	0.08
6	0.17	0.13	0.19	17	0.23	0.36	0.37	3.1	1.5	0.21	1.3	0.09
7	0.18	0.13	0.19	5.3	0.26	0.31	0.32	0.69	0.57	0.06	0.20	0.09
8	2.8	0.13	0.20	0.58	0.24	0.27	0.31	0.43	0.39	0.06	0.22	0.08
9	0.73	0.15	0.20	0.38	0.23	0.26	0.33	0.29	0.35	0.62	0.17	0.14
10	0.27	0.16	2.7	0.34	0.23	0.27	2.5	0.25	0.29	0.14	0.17	0.51
11	0.25	0.15	13	0.47	0.49	0.31	0.97	0.40	0.40	0.11	0.14	0.09
12	0.21	0.18	6.4	0.30	0.31	0.27	0.32	0.23	0.56	0.13	0.28	0.08
13	0.20	0.37	0.24	0.28	0.22	0.67	0.32	0.22	0.32	1.4	0.17	0.07
14	0.20	2.5	0.41	0.24	0.35	2.0	1.2	0.19	0.24	0.11	0.13	0.09
15	0.16	0.86	0.36	0.24	0.22	4.1	0.29	0.18	0.18	0.08	0.13	0.09
16	0.16	0.17	0.15	0.25	1.3	1.5	0.27	0.23	0.16	0.09	e1.5	0.64
17	0.85	0.15	0.14	0.25	0.24	0.71	0.26	0.60	4.2	0.08	e0.18	0.18
18	1.2	0.14	0.12	0.27	3.2	0.51	0.26	0.68	0.34	0.07	e0.15	0.14
19	0.20	0.15	0.11	0.27	0.85	1.1	0.30	0.18	0.23	0.05	e0.15	2.2
20	0.18	0.14	0.93	e0.34	0.34	0.73	1.9	0.22	0.21	0.05	e0.64	2.5
21	0.18	0.16	1.5	e0.33	0.30	0.39	0.30	0.23	0.17	0.07	0.21	0.15
22	0.14	0.19	0.17	e0.51	0.28	0.37	0.26	0.17	0.16	7.6	0.16	0.14
23	0.14	0.15	0.14	e0.38	0.30	0.37	0.27	0.19	0.14	2.0	0.16	0.17
24	0.15	0.15	0.14	e0.35	0.31	0.37	0.27	7.8	0.12	0.35	0.14	0.16
25	0.60	0.55	0.20	e0.33	0.28	0.58	0.23	16	0.10	0.09	0.14	0.21
26	0.15	0.24	0.12	e0.32	0.35	0.62	0.23	1.1	0.09	0.08	0.15	2.7
27	0.13	0.13	0.18	0.28	0.58	1.6	0.23	0.58	0.09	0.36	0.11	0.69
28	0.14	0.12	0.58	1.2	8.5	14	0.23	0.63	0.08	12	0.11	0.17
29	0.14	0.53	0.23	0.36	---	1.8	0.28	0.36	0.13	3.6	0.10	0.16
30	0.14	8.7	0.18	0.28	---	0.69	0.32	0.24	0.07	0.62	0.12	0.17
31	0.14	---	0.16	0.27	---	0.43	---	0.22	---	0.29	0.22	---
Total	10.82	17.67	30.19	38.12	22.47	73.86	15.20	86.08	44.55	30.65	9.32	12.23
Mean	0.35	0.59	0.97	1.23	0.80	2.38	0.51	2.78	1.49	0.99	0.30	0.41
Max	2.8	8.7	13	17	8.5	30	2.5	47	18	12	1.5	2.7
Min	0.13	0.12	0.11	0.08	0.22	0.26	0.23	0.17	0.07	0.05	0.10	0.07
Cfsm	0.34	0.57	0.95	1.19	0.78	2.31	0.49	2.70	1.44	0.96	0.29	0.40
In.	0.39	0.64	1.09	1.38	0.81	2.67	0.55	3.11	1.61	1.11	0.34	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.57	0.82	1.19	1.04	0.86	1.48	0.81	0.95	1.13	1.11	2.27	0.54
Max	0.95	1.63	2.21	1.40	1.04	2.38	1.54	2.78	1.48	1.76	5.12	1.06
(WY)	(2006)	(2007)	(2006)	(2007)	(2008)	(2009)	(2008)	(2009)	(2009)	(2008)	(2008)	(2008)
Min	0.35	0.21	0.71	0.65	0.59	0.55	0.49	0.19	0.74	0.58	0.30	0.09
(WY)	(2009)	(2008)	(2007)	(2008)	(2006)	(2006)	(2006)	(2007)	(2008)	(2006)	(2009)	(2007)

0214645075 TRIBUTARY TO BRIAR CREEK AT COLONY ROAD AT CHARLOTTE, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2008	Water Year 2009	Water Years 2005 - 2009	
Annual total	500.81	391.16		
Annual mean	1.37	1.07	1.10	
Highest annual mean			1.33	2008
Lowest annual mean			0.91	2006
Highest daily mean	109 Aug 27	47 May 5	109 Aug 27, 2008	
Lowest daily mean	0.07 Aug 22	0.05 Jul 19	0.04 Sep 10, 2007	
Annual seven-day minimum	0.10 Aug 18	0.07 Jul 15	0.05 Aug 12, 2007	
Maximum peak flow		^a 1,020 May 5	^a 1,020 May 5, 2009	
Maximum peak stage		7.14 May 5	7.14 May 5, 2009	
Instantaneous low flow		^a 0.05 Jun 28	^a 0.04 Jun 9, 2007	
Annual runoff (cfsm)	1.33	1.04	1.07	
Annual runoff (inches)	18.09	14.13	14.57	
10 percent exceeds	1.6	1.5	1.7	
50 percent exceeds	0.38	0.24	0.31	
90 percent exceeds	0.14	0.11	0.11	

^a See Remarks.

