

Water-Data Report 2008

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. Elevation of gage is 610 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Radio telemetry at site.

REMARKS.--No estimated daily discharges. Records fair. 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 the current water year also occurred August 21-25.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.07	0.12	0.28	0.46	11	0.45	0.69	0.47	0.35	0.15	0.16	0.26
2	0.09	0.10	0.29	0.41	0.72	0.45	0.57	0.43	0.41	0.10	0.14	0.17
3	0.08	0.11	0.28	0.41	0.51	0.47	1.2	0.42	0.33	0.12	0.14	0.17
4	0.35	0.10	0.28	0.43	0.44	19	1.5	0.41	0.33	0.10	0.15	0.17
5	0.08	0.09	0.28	0.44	0.41	2.2	1.6	0.43	0.32	1.5	0.14	0.16
6	0.08	0.10	0.28	0.36	0.45	0.63	0.61	0.42	0.28	7.3	0.11	0.13
7	0.08	0.11	0.30	0.36	0.40	3.3	0.53	0.47	0.27	0.24	0.11	0.13
8	0.07	0.10	0.30	0.36	0.40	1.2	0.50	0.42	0.27	15	0.11	0.14
9	0.08	0.10	0.30	0.35	0.38	0.59	0.50	0.45	0.28	0.79	0.10	0.14
10	0.08	0.10	0.31	0.66	0.36	0.55	0.52	0.38	0.28	0.45	0.15	3.6
11	0.08	0.10	0.32	0.74	0.37	0.50	0.51	0.93	1.4	0.24	0.10	0.71
12	0.09	0.10	0.32	0.37	0.86	0.48	2.2	0.43	0.37	0.19	0.11	0.20
13	0.09	0.10	0.32	0.37	1.9	0.47	0.49	0.42	0.27	19	2.3	0.20
14	0.08	0.11	0.31	0.37	0.54	0.48	0.45	0.39	0.25	1.2	0.19	0.19
15	0.08	0.42	1.5	0.35	0.41	15	0.45	0.42	0.24	0.22	0.22	0.16
16	0.08	0.20	2.7	0.34	0.41	1.5	0.44	0.81	0.24	0.18	0.17	8.5
17	0.08	0.21	0.35	5.6	0.58	0.66	0.44	0.42	0.24	0.16	1.2	0.83
18	0.08	0.23	0.40	0.63	0.80	0.58	0.45	0.67	0.19	0.18	0.15	0.23
19	1.4	0.22	0.40	1.6	0.41	3.5	0.47	0.45	0.16	0.14	0.11	0.20
20	0.09	0.23	0.39	0.61	0.41	0.98	0.45	0.55	4.7	0.15	0.11	0.22
21	0.07	0.23	1.1	0.42	1.0	0.62	0.45	0.48	3.9	0.15	0.09	0.23
22	0.07	0.37	0.38	0.69	1.7	0.58	0.48	0.38	4.2	3.4	0.07	0.21
23	0.08	0.25	1.1	0.44	0.53	0.56	0.49	0.40	1.2	2.0	0.07	0.20
24	1.9	0.26	0.34	0.40	0.49	0.53	0.46	0.44	0.19	0.31	0.08	0.23
25	2.4	0.54	0.33	0.40	0.49	0.53	0.46	0.38	0.18	0.18	1.1	0.23
26	2.6	0.44	2.7	0.62	2.8	0.55	8.0	0.41	0.40	0.18	40	9.4
27	0.23	0.30	0.38	0.38	0.55	0.56	6.7	0.40	0.31	0.16	109	3.9
28	0.14	0.27	2.6	0.39	0.47	0.58	13	4.4	0.19	0.15	0.52	0.45
29	0.13	0.26	0.86	0.39	0.45	0.57	1.2	0.43	0.15	0.23	1.1	0.29
30	0.12	0.29	6.6	0.58	---	0.56	0.54	0.36	0.17	0.18	0.41	0.27
31	0.12	---	0.82	0.37	---	1.2	---	0.36	---	0.15	0.28	---
Total	11.07	6.16	27.12	20.30	30.24	59.83	46.35	18.23	22.07	54.50	158.69	31.92
Mean	0.36	0.21	0.87	0.65	1.04	1.93	1.54	0.59	0.74	1.76	5.12	1.06
Max	2.6	0.54	6.6	5.6	11	19	13	4.4	4.7	19	109	9.4
Min	0.07	0.09	0.28	0.34	0.36	0.45	0.44	0.36	0.15	0.10	0.07	0.13
Cfsm	0.35	0.20	0.85	0.64	1.01	1.87	1.50	0.57	0.71	1.71	4.97	1.03
In.	0.40	0.22	0.98	0.73	1.09	2.16	1.67	0.66	0.80	1.97	5.73	1.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.65	0.89	1.26	0.98	0.88	1.18	0.91	0.34	0.95	1.17	3.25	0.57
Max	0.95	1.63	2.21	1.40	1.04	1.93	1.54	0.59	1.16	1.76	5.12	1.06
(WY)	(2006)	(2007)	(2006)	(2007)	(2008)	(2008)	(2008)	(2008)	(2006)	(2008)	(2008)	(2008)
Min	0.36	0.21	0.71	0.65	0.59	0.55	0.49	0.19	0.74	0.58	1.38	0.09
(WY)	(2008)	(2008)	(2007)	(2008)	(2006)	(2006)	(2006)	(2007)	(2008)	(2006)	(2006)	(2007)

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

SUMMARY STATISTICS

	Water Year 2008		Water Years 2005 - 2008	
Annual total	486.48			
Annual mean	1.33		1.12	
Highest annual mean			1.33	2008
Lowest annual mean			0.91	2006
Highest daily mean	109	Aug 27	109	Aug 27, 2008
Lowest daily mean	0.07	Oct 1	0.04	Sep 10, 2007
Annual seven-day minimum	0.08	Oct 5	0.05	Aug 12, 2007
Maximum peak flow	^a 920	Aug 27	^a 920	Aug 27, 2008
Maximum peak stage	6.86	Aug 27	6.86	Aug 27, 2008
Instantaneous low flow	^a 0.05	Oct 1	^a 0.04	Jun 9, 2007
Annual runoff (cfsm)	1.29		1.09	
Annual runoff (inches)	17.57		14.78	
10 percent exceeds	1.8		1.8	
50 percent exceeds	0.38		0.36	
90 percent exceeds	0.10		0.11	

^aSee Remarks.