



Water-Data Report 2011

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 602.42 ft above North American Vertical Datum of 1988. Radio telemetry at streamgage.

REMARKS.--Records 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. No flow occurred on many days in 2011.

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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	0.86	0.92	4.7	1.9	0.76	0.99	1.3	0.97	0.05	0.08	e0.22	0.04
2	0.85	1.0	0.57	2.1	4.4	0.77	1.1	0.99	0.04	0.04	e0.11	3.8
3	0.84	1.1	0.55	0.87	1.0	0.75	1.1	1.9	0.06	0.02	e0.10	0.51
4	0.87	2.3	0.63	0.86	9.0	0.74	1.0	3.1	0.07	0.44	0.05	0.36
5	0.80	0.75	0.62	0.85	6.8	0.78	3.1	1.0	0.04	0.10	15	5.8
6	0.87	0.69	0.69	0.87	1.1	7.2	0.99	1.6	0.31	3.8	0.48	1.7
7	0.89	0.68	0.68	0.86	0.99	0.97	0.98	0.98	e3.7	3.3	0.25	0.38
8	0.87	0.55	0.69	0.80	0.95	0.80	0.92	0.93	e0.07	0.64	0.59	0.07
9	0.89	0.51	0.75	0.80	0.87	6.2	3.6	0.87	2.3	0.74	0.36	0.05
10	0.88	0.56	0.70	0.92	0.97	3.3	1.2	0.85	0.13	0.10	0.05	0.00
11	0.88	0.53	0.71	1.4	0.87	1.00	0.98	2.1	1.7	0.08	2.6	0.01
12	0.87	0.54	1.5	1.2	0.91	0.86	0.97	0.78	1.7	0.06	0.15	0.03
13	0.79	0.58	0.46	0.93	0.88	0.80	0.92	0.33	0.27	0.05	0.48	0.02
14	1.2	0.58	0.46	0.91	0.85	1.0	0.91	0.16	0.06	0.27	0.15	0.00
15	0.77	0.54	0.48	0.93	1.00	1.6	0.92	0.24	0.06	0.06	0.04	0.00
16	0.80	1.0	0.63	0.92	0.87	e1.0	3.6	0.25	0.13	0.04	0.02	0.00
17	0.79	0.73	0.70	0.98	0.90	0.91	1.0	2.6	0.05	0.00	0.00	0.03
18	0.81	0.54	0.69	1.0	0.89	0.96	0.97	0.31	0.41	0.00	0.00	0.03
19	0.81	0.49	0.68	0.90	0.88	0.95	0.92	0.17	0.10	0.00	0.00	0.03
20	1.2	0.48	0.77	0.90	0.87	0.95	0.92	0.12	0.05	0.28	0.00	0.03
21	0.96	0.51	0.75	0.90	0.86	0.95	0.92	0.09	1.0	0.01	0.00	1.2
22	0.94	0.53	0.80	0.90	0.88	0.95	1.6	0.07	0.75	0.00	0.03	0.67
23	1.1	0.56	0.79	0.89	0.73	0.94	0.97	0.07	0.05	0.00	0.00	40
24	1.1	0.49	0.82	0.85	0.67	1.2	0.95	0.05	3.3	0.00	0.00	8.4
25	2.6	0.55	1.1	0.89	0.67	0.91	0.90	0.07	0.25	e0.50	0.00	0.62
26	1.7	0.69	1.6	1.7	0.67	6.6	0.86	0.06	0.09	0.17	0.00	1.8
27	1.5	0.55	0.89	0.86	0.65	4.5	0.90	1.8	0.08	0.04	0.00	6.1
28	1.1	0.46	0.95	0.80	4.9	2.9	2.0	0.22	4.5	0.01	0.00	3.7
29	0.85	0.41	0.88	0.77	---	1.2	0.96	0.11	1.3	0.00	0.00	0.24
30	0.85	0.50	0.85	0.76	---	11	1.0	0.07	0.13	0.00	0.00	0.17
31	0.90	---	0.83	0.74	---	1.7	---	0.05	---	5.9	e0.01	---
Total	31.14	20.32	27.92	30.96	45.79	65.38	38.46	22.91	22.75	16.73	20.69	75.79
Mean	1.00	0.68	0.90	1.00	1.64	2.11	1.28	0.74	0.76	0.54	0.67	2.53
Max	2.6	2.3	4.7	2.1	9.0	11	3.6	3.1	4.5	5.9	15	40
Min	0.77	0.41	0.46	0.74	0.65	0.74	0.86	0.05	0.04	0.00	0.00	0.00
Cfsm	0.98	0.66	0.87	0.97	1.59	2.05	1.24	0.72	0.74	0.52	0.65	2.45
In.	1.12	0.73	1.01	1.12	1.65	2.36	1.39	0.83	0.82	0.60	0.75	2.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.64	1.03	1.39	1.41	1.31	1.59	0.89	0.89	1.89	1.23	1.65	0.88
Max	1.00	2.25	2.67	3.29	2.79	2.38	1.54	2.78	5.29	2.30	5.12	2.53
(WY)	(2011)	(2010)	(2010)	(2010)	(2010)	(2009)	(2008)	(2009)	(2010)	(2010)	(2008)	(2011)
Min	0.35	0.21	0.71	0.65	0.59	0.55	0.49	0.19	0.74	0.54	0.30	0.09
(WY)	(2009)	(2008)	(2007)	(2008)	(2006)	(2006)	(2006)	(2007)	(2008)	(2011)	(2009)	(2007)

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

	Calendar Year 2010	Water Year 2011	Water Years 2005 - 2011	
Annual total	638.67	418.84		
Annual mean	1.75	1.15	1.29	
Highest annual mean			1.99	2010
Lowest annual mean			0.91	2006
Highest daily mean	58 Jun 2	40 Sep 23	109 Aug 27, 2008	
Lowest daily mean	0.23 Jan 9	a0.00 Jul 17	a0.00 Jul 17, 2011	
Annual seven-day minimum	0.24 Jan 6	0.00 Aug 23	0.00 Aug 23, 2011	
Maximum peak flow		a751 Sep 23	a1,020 May 5, 2009	
Maximum peak stage		6.32 Sep 23	7.14 May 5, 2009	
Instantaneous low flow		a0.00 Jun 6	a0.00 Jun 6, 2011	
Annual runoff (cfsm)	1.70	1.11	1.25	
Annual runoff (inches)	23.07	15.13	17.02	
10 percent exceeds	2.0	2.0	2.0	
50 percent exceeds	0.71	0.80	0.45	
90 percent exceeds	0.47	0.03	0.11	

^a See Remarks.

