

Water-Data Report 2010

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.--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 current water year also occurred October 2-4, 11.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.16	9.8	0.26	0.35	1.7	0.62	0.81	0.69	54	1.0	1.6	0.48
2	0.18	0.42	13	0.32	7.9	1.6	0.80	0.69	58	0.83	0.65	0.47
3	0.18	0.33	1.3	0.31	2.4	2.1	0.78	0.92	3.2	0.75	0.59	0.47
4	0.22	0.32	0.41	0.30	0.85	0.75	0.74	0.65	1.8	0.69	0.59	0.46
5	2.0	0.34	0.42	0.29	40	0.65	0.73	0.59	1.6	0.66	2.2	0.46
6	0.26	0.33	0.30	0.24	2.7	0.63	0.76	0.60	2.4	0.60	1.2	0.45
7	0.22	0.34	0.30	0.24	0.79	0.62	0.74	0.61	1.8	0.54	0.85	0.49
8	0.21	0.33	6.9	0.25	0.60	0.62	1.4	0.64	1.4	0.48	0.58	0.48
9	0.22	0.32	11	0.23	0.60	0.62	0.87	0.61	1.2	0.48	0.73	0.51
10	0.20	8.3	0.78	0.23	0.49	0.68	0.72	0.60	1.8	0.50	0.47	0.50
11	0.17	33	0.46	0.23	0.47	0.95	0.73	0.86	1.2	0.75	0.48	0.62
12	0.65	4.4	0.41	0.23	0.43	8.6	0.71	0.60	1.2	32	0.47	0.61
13	0.26	0.72	1.3	0.24	1.0	2.8	0.69	0.59	5.4	1.4	0.48	0.63
14	0.83	0.37	0.45	0.25	0.66	2.0	0.71	0.55	1.4	0.85	0.46	0.62
15	0.66	0.30	0.37	0.26	2.0	0.85	0.79	0.52	1.1	0.60	0.43	0.61
16	0.28	0.26	0.33	0.70	0.75	0.77	0.74	0.52	0.98	0.62	0.36	0.58
17	0.40	0.24	0.29	14	0.66	0.74	0.71	2.6	0.92	0.60	0.47	0.59
18	0.25	0.32	7.1	0.80	0.62	0.74	0.71	0.52	0.85	0.54	0.43	0.57
19	0.25	0.26	3.3	0.53	0.61	0.72	0.70	0.52	0.79	0.52	4.3	0.60
20	0.23	0.24	0.58	0.45	0.59	0.70	0.75	0.51	0.74	0.47	0.82	0.57
21	0.23	0.21	0.47	5.8	0.60	1.4	0.91	0.71	0.74	0.46	0.60	0.56
22	0.22	0.70	0.48	1.5	4.9	2.1	0.72	0.54	0.72	0.43	0.58	0.59
23	0.21	3.7	0.39	0.51	1.3	0.77	0.70	0.48	0.72	0.44	0.57	0.57
24	0.38	0.35	0.38	36	1.4	0.73	0.90	0.58	0.67	5.1	0.60	0.58
25	0.24	0.28	28	33	1.9	0.74	1.6	0.40	0.64	0.61	0.53	0.57
26	0.23	0.26	1.0	0.84	0.77	0.78	0.73	0.38	0.63	0.80	0.48	3.1
27	5.0	0.24	0.50	0.55	0.70	0.72	1.5	0.37	0.65	14	0.51	3.7
28	1.5	0.23	0.40	0.50	0.64	3.7	0.74	0.78	0.55	1.5	0.50	1.8
29	0.36	0.23	0.34	0.47	---	6.9	0.68	0.92	0.74	0.50	0.52	4.2
30	0.35	0.34	0.45	0.72	---	0.97	0.67	0.37	11	0.50	0.73	2.2
31	1.1	---	0.96	1.5	---	0.84	---	4.3	---	2.1	0.47	---
Total	17.65	67.48	82.63	101.84	78.03	47.41	24.74	24.22	158.84	71.32	24.25	28.64
Mean	0.57	2.25	2.67	3.29	2.79	1.53	0.82	0.78	5.29	2.30	0.78	0.95
Max	5.0	33	28	36	40	8.6	1.6	4.3	58	32	4.3	4.2
Min	0.16	0.21	0.26	0.23	0.43	0.62	0.67	0.37	0.55	0.43	0.36	0.45
Cfsm	0.55	2.18	2.59	3.19	2.71	1.48	0.80	0.76	5.14	2.23	0.76	0.93
In.	0.64	2.44	2.98	3.68	2.82	1.71	0.89	0.87	5.74	2.58	0.88	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.57	1.10	1.49	1.49	1.24	1.49	0.81	0.92	2.17	1.41	1.90	0.61
Max	0.95	2.25	2.67	3.29	2.79	2.38	1.54	2.78	5.29	2.30	5.12	1.06
(WY)	(2006)	(2010)	(2010)	(2010)	(2010)	(2009)	(2008)	(2009)	(2010)	(2010)	(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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2005 - 2010	
Annual total	500.24		727.05			
Annual mean	1.37		1.99		1.33	
Highest annual mean					1.99	2010
Lowest annual mean					0.91	2006
Highest daily mean	47	May 5	58	Jun 2	109	Aug 27, 2008
Lowest daily mean	0.05	Jul 19	0.16	Oct 1	0.04	Sep 10, 2007
Annual seven-day minimum	0.07	Jul 15	0.24	Jan 6	0.05	Aug 12, 2007
Maximum peak flow			^a 951	Jun 2	^a 1,020	May 5, 2009
Maximum peak stage			6.95	Jun 2	7.14	May 5, 2009
Instantaneous low flow			^a 0.14	Oct 1	^a 0.04	Jun 9, 2007
Annual runoff (cfsm)	1.33		1.93		1.29	
Annual runoff (inches)	18.07		26.26		17.49	
10 percent exceeds	2.1		2.7		2.0	
50 percent exceeds	0.30		0.62		0.39	
90 percent exceeds	0.11		0.26		0.12	

^a See Remarks.

