

Water-Data Report 2010

**0214645080 TRIBUTARY TO BRIAR CREEK AT RUNNYMEDE LANE AT CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°10'01", long 80°50'12" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank upstream of culvert on Runnymede Lane, 3.5 mi south of city hall in Charlotte.

DRAINAGE AREA.--1.19 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 584.62 ft above 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 all years from rating curve extended above 100 ft<sup>3</sup>/s on basis of culvert computation of peak flow. Minimum discharge for period of record also occurred June 26, 2005, July 22, 2006, July 6, 7, 2007, September 13, 2007. Minimum discharge for current water year also occurred October 10-12.

## 0214645080 TRIBUTARY TO BRIAR CREEK AT RUNNYMEDE LANE AT CHARLOTTE, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.16	11	0.31	0.42	1.7	0.78	0.76	0.58	92	0.66	1.2	0.30
2	0.18	0.31	15	0.39	9.0	1.6	0.75	e0.59	61	0.53	0.46	0.30
3	0.18	0.22	1.4	0.37	2.6	2.1	0.72	e0.84	2.2	0.52	0.45	0.30
4	0.20	0.21	0.43	0.36	1.2	0.90	0.68	e0.61	0.90	0.49	0.42	0.29
5	2.1	0.20	0.44	0.35	43	0.83	0.64	e0.56	0.78	0.47	1.8	0.29
6	0.23	0.22	0.33	0.32	3.1	0.81	0.68	e0.58	1.7	0.44	0.57	0.29
7	0.19	0.23	0.30	0.31	1.0	0.80	0.67	e0.60	0.85	0.43	0.46	0.32
8	0.18	0.23	7.7	0.31	0.79	0.74	1.3	e0.63	0.60	0.42	0.29	0.31
9	0.18	0.23	13	0.29	0.78	0.70	0.76	e0.60	0.54	0.38	0.34	0.32
10	0.16	9.7	0.70	0.29	0.64	0.76	0.65	e0.59	0.99	0.38	0.25	0.31
11	0.18	40	0.43	0.30	0.60	0.99	0.65	e0.84	0.59	0.50	0.25	0.35
12	0.69	4.5	0.37	0.29	0.59	9.1	0.62	0.54	0.56	56	0.26	0.31
13	0.23	0.80	1.2	0.29	1.2	2.9	0.59	0.53	5.5	0.80	0.25	0.33
14	0.83	0.43	0.43	0.29	0.85	1.7	0.62	0.52	0.75	0.53	0.25	0.35
15	0.62	0.36	0.36	0.31	2.3	0.88	0.68	0.57	0.63	0.47	0.23	0.34
16	0.26	0.29	0.32	0.59	0.90	0.81	0.63	0.55	0.66	0.47	0.23	0.32
17	0.38	0.29	0.32	16	0.82	0.80	0.60	2.7	0.68	0.47	0.25	0.33
18	0.21	0.37	8.2	0.78	0.80	0.82	0.59	0.64	0.63	0.47	0.24	0.32
19	0.20	0.27	3.4	0.53	0.77	0.77	0.58	0.59	0.60	0.48	8.0	0.34
20	0.20	0.26	0.56	0.47	0.77	0.76	0.60	0.57	0.52	0.47	0.42	0.34
21	0.20	0.23	0.43	6.4	0.77	1.3	0.73	0.73	0.56	0.49	0.32	0.33
22	0.19	0.70	0.40	1.5	5.5	2.1	0.54	0.61	0.55	0.48	0.31	0.34
23	0.24	4.5	0.32	0.60	1.4	0.82	0.54	0.56	0.57	0.52	0.31	0.33
24	0.46	0.41	0.31	34	1.4	0.76	0.69	0.68	0.57	5.0	0.32	0.33
25	0.26	0.31	33	166	1.9	0.76	1.4	0.53	0.56	0.35	0.29	0.34
26	0.33	0.29	1.1	0.92	0.91	0.77	0.62	0.46	0.55	0.41	0.26	2.6
27	5.4	0.27	0.61	0.65	0.85	0.74	1.4	0.43	0.59	15	0.28	3.6
28	7.4	0.26	0.48	0.57	0.81	4.0	0.67	0.79	0.58	0.76	0.28	1.2
29	0.27	0.26	0.41	0.53	---	7.8	0.59	1.2	0.72	0.41	0.28	3.3
30	0.25	0.36	0.43	0.84	---	0.92	0.58	0.45	13	0.45	0.42	1.3
31	1.0	---	1.1	1.6	---	0.81	---	4.6	---	2.2	0.29	---
<b>Total</b>	23.56	77.71	93.79	236.87	86.95	50.33	21.53	25.27	190.93	91.45	19.98	20.03
<b>Mean</b>	0.76	2.59	3.03	7.64	3.11	1.62	0.72	0.82	6.36	2.95	0.64	0.67
<b>Max</b>	7.4	40	33	166	43	9.1	1.4	4.6	92	56	8.0	3.6
<b>Min</b>	0.16	0.20	0.30	0.29	0.59	0.70	0.54	0.43	0.52	0.35	0.23	0.29
<b>Cfsm</b>	0.64	2.18	2.54	6.42	2.61	1.36	0.60	0.69	5.35	2.48	0.54	0.56
<b>In.</b>	0.74	2.43	2.93	7.40	2.72	1.57	0.67	0.79	5.97	2.86	0.62	0.63

**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
<b>Mean</b>	0.89	2.08	2.26	2.75	1.51	2.02	0.92	0.99	2.35	1.89	2.19	0.69
<b>Max</b>	1.55	5.11	4.39	7.64	3.11	3.35	1.71	2.93	6.36	3.65	6.71	1.65
<b>(WY)</b>	(2006)	(2007)	(2006)	(2010)	(2010)	(2007)	(2008)	(2009)	(2010)	(2005)	(2008)	(2006)
<b>Min</b>	0.35	0.24	0.99	0.72	0.81	0.58	0.51	0.28	0.77	0.85	0.08	0.08
<b>(WY)</b>	(2009)	(2008)	(2008)	(2008)	(2006)	(2006)	(2009)	(2006)	(2008)	(2006)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2005 - 2010	
<b>Annual total</b>	535.92		938.40			
<b>Annual mean</b>	1.47		2.57		1.70	
<b>Highest annual mean</b>					2.57	2010
<b>Lowest annual mean</b>					1.11	2009
<b>Highest daily mean</b>	54	May 5	166	Jan 25	166	Jan 25, 2010
<b>Lowest daily mean</b>	0.07	Jul 4	0.16	Oct 1	0.04	Jun 25, 2005
<b>Annual seven-day minimum</b>	0.09	Jun 29	0.22	Nov 3	0.05	Sep 6, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 809	Jun 2	<sup>a</sup> 860	Aug 27, 2008
<b>Maximum peak stage</b>			10.97	Jun 2	12.66	Aug 27, 2008
<b>Instantaneous low flow</b>			<sup>a</sup> 0.14	Oct 1	<sup>a</sup> 0.03	Jun 25, 2005
<b>Annual runoff (cfsm)</b>	1.23		2.16		1.43	
<b>Annual runoff (inches)</b>	16.75		29.33		19.37	
<b>10 percent exceeds</b>	2.7		2.8		2.6	
<b>50 percent exceeds</b>	0.32		0.57		0.38	
<b>90 percent exceeds</b>	0.13		0.26		0.13	

<sup>a</sup> See Remarks.

