



Water-Data Report 2011

0214645080 TRIBUTARY TO BRIAR CREEK AT RUNNEMEDE 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 mi².

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 poor. Maximum discharge for all years from rating curve extended above 100 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record and current water year, no flow, occurred several 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	0.36	0.44	5.4	1.3	0.76	1.1	1.0	0.55	0.08	0.11	0.20	0.00
2	0.35	0.46	0.57	1.6	4.1	0.85	0.90	0.55	0.07	0.14	0.07	3.4
3	0.35	0.48	0.62	0.66	0.77	0.83	0.87	1.4	0.07	0.06	0.05	0.15
4	0.36	1.4	0.68	0.64	8.4	0.83	0.84	3.1	0.06	0.22	0.04	0.06
5	0.35	0.46	0.61	0.60	6.4	0.88	2.8	0.51	0.05	0.09	36	4.8
6	0.35	0.43	0.65	0.61	1.0	7.5	0.90	0.96	0.09	3.3	0.06	0.64
7	0.36	0.44	0.65	0.59	0.87	1.0	0.86	0.46	4.8	2.7	0.03	0.06
8	0.36	0.49	0.64	0.58	0.82	0.90	0.74	0.44	0.04	0.30	0.18	0.03
9	0.36	0.50	0.64	0.58	0.81	6.4	3.4	0.41	2.3	0.46	0.06	0.03
10	0.36	0.48	0.65	0.66	0.86	3.2	1.0	0.40	0.10	0.12	0.03	0.02
11	0.41	0.42	0.79	0.93	0.75	1.1	0.72	1.5	1.5	0.10	2.4	0.02
12	0.46	0.45	1.2	e0.82	0.74	0.96	0.70	0.47	1.6	0.10	0.04	0.02
13	0.45	0.52	0.43	0.71	0.74	0.91	0.71	0.18	0.20	0.07	0.09	0.02
14	0.64	0.52	0.43	0.68	0.75	1.1	0.76	0.12	0.08	0.12	0.04	0.02
15	0.33	0.53	0.43	0.68	0.85	1.8	0.66	0.16	0.08	0.09	0.02	0.01
16	0.33	0.88	0.49	0.71	0.75	e1.2	3.0	0.14	0.11	0.09	0.02	0.00
17	0.33	0.68	0.46	0.73	0.77	1.0	0.52	2.2	0.07	0.07	0.02	0.00
18	0.35	0.49	0.43	0.84	0.75	1.0	0.57	0.16	0.26	0.05	0.01	0.00
19	0.35	0.47	0.38	0.75	0.72	0.94	0.54	0.11	0.10	0.03	0.01	0.01
20	0.51	0.47	0.38	0.73	0.73	0.90	0.61	0.10	0.08	0.10	0.01	0.02
21	0.35	0.48	0.55	0.74	0.74	0.97	0.69	0.10	0.66	0.07	0.01	0.74
22	0.35	0.49	0.59	0.74	0.75	0.86	1.1	0.08	0.97	0.04	0.01	0.20
23	0.36	0.49	0.58	0.71	0.75	0.80	0.63	0.08	0.09	0.03	0.02	62
24	0.37	0.50	0.58	0.73	0.75	1.0	0.62	0.06	3.4	0.02	0.01	5.7
25	1.6	0.52	0.73	0.75	0.80	0.79	0.56	0.07	0.22	0.22	0.00	0.13
26	0.61	0.67	1.0	1.3	0.81	5.7	0.39	0.07	0.07	0.17	0.00	1.1
27	0.59	0.53	0.61	0.76	0.81	4.6	0.36	1.5	0.07	0.11	0.00	e6.1
28	0.51	0.49	0.62	0.74	5.2	2.7	1.6	0.11	3.6	0.06	0.00	3.1
29	0.42	0.46	0.61	0.74	---	1.1	0.55	0.08	1.4	0.04	0.00	0.09
30	0.41	0.57	0.60	0.74	---	10	0.55	0.10	0.15	0.03	0.00	0.09
31	0.44	---	0.59	0.75	---	1.3	---	0.09	---	5.5	0.00	---
Total	13.73	16.21	23.59	24.10	42.95	64.22	29.15	16.26	22.37	14.61	39.43	88.56
Mean	0.44	0.54	0.76	0.78	1.53	2.07	0.97	0.52	0.75	0.47	1.27	2.95
Max	1.6	1.4	5.4	1.6	8.4	10	3.4	3.1	4.8	5.5	36	62
Min	0.33	0.42	0.38	0.58	0.72	0.79	0.36	0.06	0.04	0.02	0.00	0.00
Cfsm	0.37	0.45	0.64	0.65	1.29	1.74	0.82	0.44	0.63	0.40	1.07	2.48
In.	0.43	0.51	0.74	0.75	1.34	2.01	0.91	0.51	0.70	0.46	1.23	2.77

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	0.82	1.82	2.01	2.42	1.51	2.03	0.93	0.91	2.08	1.69	2.06	1.02
Max	1.55	5.11	4.39	7.64	3.11	3.35	1.71	2.93	6.36	3.65	6.71	2.95
(WY)	(2006)	(2007)	(2006)	(2010)	(2010)	(2007)	(2008)	(2009)	(2010)	(2005)	(2008)	(2011)
Min	0.35	0.24	0.76	0.72	0.81	0.58	0.51	0.28	0.75	0.47	0.08	0.08
(WY)	(2009)	(2008)	(2011)	(2008)	(2006)	(2006)	(2009)	(2006)	(2011)	(2011)	(2007)	(2007)

0214645080 TRIBUTARY TO BRIAR CREEK AT RUNNymede LANE AT CHARLOTTE, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2005 - 2011	
Annual total	796.87	395.18		
Annual mean	2.18	1.08	1.59	
Highest annual mean			2.57	2010
Lowest annual mean			1.08	2011
Highest daily mean	166	Jan 25	166	Jan 25, 2010
Lowest daily mean	0.23	Aug 15	^a 0.00	Aug 25, 2011
Annual seven-day minimum	0.24	Aug 12	0.00	Aug 25, 2011
Maximum peak flow			^a 688	Sep 23
Maximum peak stage			8.25	Sep 23
Instantaneous low flow			^a 0.00	Aug 21
Annual runoff (cfsm)	1.83	0.910		1.34
Annual runoff (inches)	24.91	12.35		18.21
10 percent exceeds	1.7	1.6		2.4
50 percent exceeds	0.58	0.52		0.41
90 percent exceeds	0.32	0.03		0.11

^a See Remarks.

