

Water-Data Report 2007

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 miles south of city hall in Charlotte.

DRAINAGE AREA.--1.03 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2005 to September 2007.

GAGE.--Water-stage recorder. Elevation of gage is 610 ft above NGVD of 1929 (from topographic map). Radio telemetry at site.

REMARKS.--Records fair, except those for estimated daily discharges which are poor. Minimum discharge for 2006 water year also occurred June 8-10, July 10, 17-22, July 31-August 5. Minimum discharge for current water year and period of record also occurred June 10, August 18, 22, 25, September 8-11, 17, 19, 24-26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

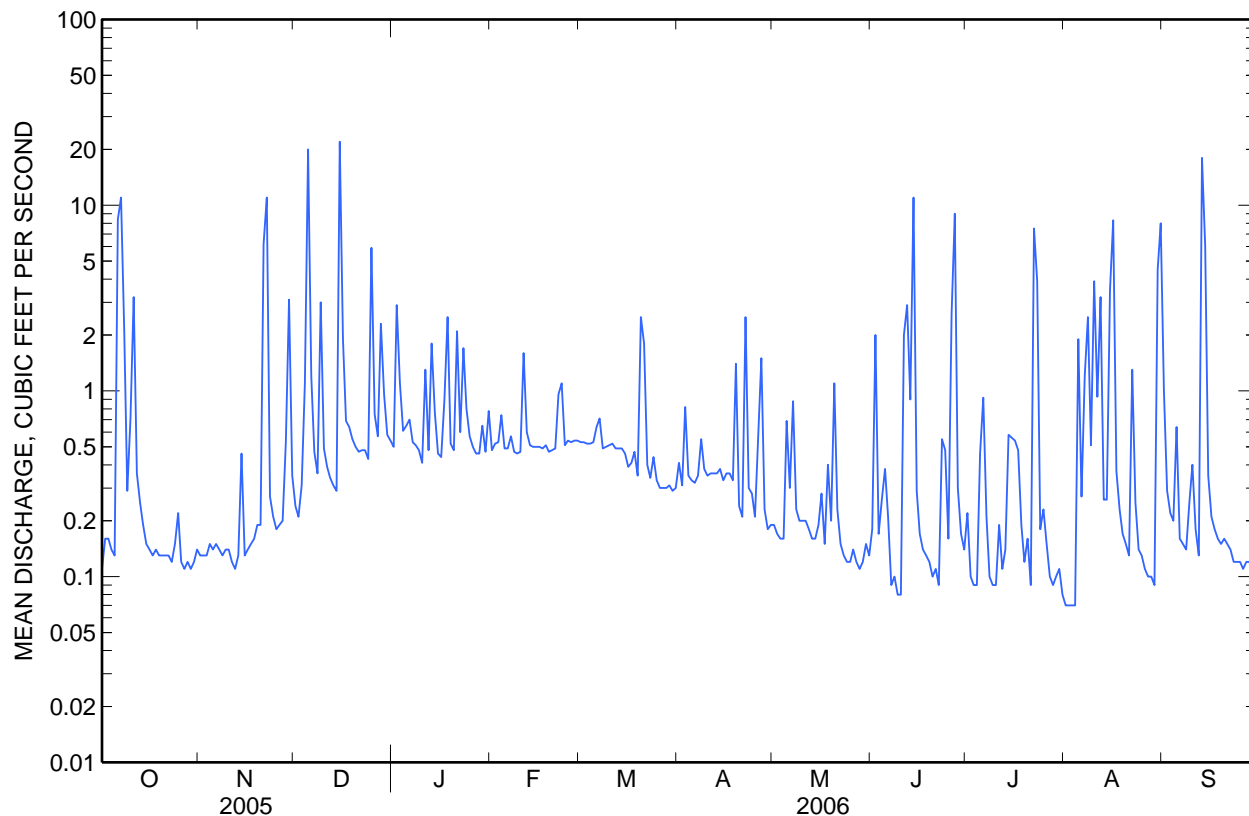
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.11	0.13	0.24	0.50	0.48	0.53	0.41	0.19	0.18	0.22	0.07	1.0
2	0.16	0.13	0.21	2.9	0.52	0.53	0.31	0.17	2.0	0.10	0.07	0.29
3	0.16	0.13	0.31	1.1	0.53	0.52	0.82	0.16	0.17	0.09	0.07	0.22
4	0.14	0.15	1.1	0.61	0.74	0.52	0.35	0.16	0.26	0.09	0.07	0.20
5	0.13	0.14	e20	0.65	0.49	0.53	0.33	0.69	0.38	0.46	e1.9	0.64
6	8.4	0.15	1.2	0.70	0.49	0.64	0.32	0.30	0.21	0.92	0.27	0.16
7	e11	0.14	0.47	0.53	0.57	0.71	0.35	0.88	0.09	0.21	1.2	0.15
8	2.1	0.13	0.36	0.51	0.47	0.49	0.55	0.23	0.10	0.10	e2.5	0.14
9	0.29	0.14	3.0	0.48	0.46	0.50	0.38	0.20	0.08	0.09	0.51	0.25
10	0.71	0.14	0.49	0.41	0.47	0.51	0.35	0.20	0.08	0.09	e3.9	0.40
11	3.2	0.12	0.39	1.3	1.6	0.52	0.36	0.20	e2.0	0.19	0.93	0.18
12	0.36	0.11	0.34	0.48	0.60	0.49	0.36	0.18	e2.9	0.11	3.2	0.13
13	0.25	0.13	0.31	1.8	0.51	0.49	0.36	0.16	0.90	0.14	0.26	e18
14	0.19	0.46	0.29	0.77	0.50	0.49	0.38	0.16	e11	0.58	0.26	e6.0
15	0.15	0.13	e22	0.46	0.50	0.46	0.33	0.19	0.29	0.56	e3.5	0.35
16	0.14	0.14	1.9	0.44	0.50	0.39	0.36	0.28	0.17	0.54	e8.3	0.21
17	0.13	0.15	0.69	0.89	0.49	0.41	0.36	0.15	0.14	0.48	0.37	0.18
18	0.14	0.16	0.64	2.5	0.51	0.47	0.33	0.40	0.13	0.19	0.23	0.16
19	0.13	0.19	0.55	0.52	0.47	0.35	1.4	0.20	0.12	0.12	0.17	0.15
20	0.13	0.19	0.50	0.48	0.48	2.5	0.24	1.1	e0.10	0.16	0.15	0.16
21	0.13	e6.2	0.47	2.1	0.49	1.8	0.21	0.23	e0.11	0.09	0.13	0.15
22	0.13	e11	e0.48	0.60	0.96	0.40	2.5	0.15	e0.09	e7.5	1.3	0.14
23	0.12	0.27	e0.48	1.7	1.1	0.34	0.30	0.13	e0.55	3.9	0.25	0.12
24	0.15	0.21	0.43	0.80	0.51	0.44	0.28	0.12	0.48	0.18	0.14	0.12
25	0.22	0.18	5.9	0.57	0.54	0.33	0.21	0.12	0.16	0.23	0.13	0.12
26	0.12	0.19	0.75	0.50	0.53	0.30	0.56	0.14	2.6	0.15	0.11	0.11
27	0.11	0.20	0.57	0.46	0.54	0.30	1.5	0.12	e9.0	0.10	0.10	0.12
28	0.12	0.53	2.3	0.46	0.54	0.30	0.23	0.11	0.30	0.09	0.10	0.12
29	0.11	3.1	0.96	0.65	---	0.31	0.18	0.12	0.17	0.10	0.09	0.11
30	0.12	0.35	0.58	0.47	---	0.29	0.19	0.15	0.14	0.11	e4.5	0.11
31	0.14	---	0.54	0.78	---	0.30	---	0.13	---	0.08	e8.0	---
Total	29.49	25.39	68.45	27.12	16.59	17.16	14.81	7.72	34.90	17.97	42.78	30.19
Mean	0.95	0.85	2.21	0.87	0.59	0.55	0.49	0.25	1.16	0.58	1.38	1.01
Max	11	11	22	2.9	1.6	2.5	2.5	1.1	11	7.5	8.3	18
Min	0.11	0.11	0.21	0.41	0.46	0.29	0.18	0.11	0.08	0.08	0.07	0.11
Cfsm	0.92	0.82	2.14	0.85	0.58	0.54	0.48	0.24	1.13	0.56	1.34	0.98
In.	1.07	0.92	2.47	0.98	0.60	0.62	0.53	0.28	1.26	0.65	1.55	1.09

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SUMMARY STATISTICS

	Water Year 2006	Water Years 2005 - 2006
Annual total	332.57	
Annual mean	0.91	0.91
Highest annual mean		0.91 2006
Lowest annual mean		0.91 2006
Highest daily mean	22 Dec 15	22 Dec 15, 2005
Lowest daily mean	0.07 Aug 1	0.06 Sep 2, 2005
Annual seven-day minimum	0.08 Jul 29	0.06 Aug 31, 2005
Maximum peak flow	NOT DETERMINED	NOT DETERMINED
Maximum peak stage	4.57 Jun 27	4.57 Jun 27, 2006
Instantaneous low flow	^a 0.06 Jun 7	^a 0.06 Jun 7, 2006
Annual runoff (cfsm)	0.887	0.887
Annual runoff (inches)	12.05	12.05
10 percent exceeds	1.8	1.8
50 percent exceeds	0.33	0.33
90 percent exceeds	0.12	0.12

^a See Remarks.



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.11	0.17	0.79	e2.6	4.9	e6.54	0.43	0.20	0.07	---	---	0.06
2	0.11	0.16	0.34	e0.63	1.8	e12.56	0.43	0.17	0.10	---	e0.10	0.06
3	0.11	0.16	0.32	0.55	0.79	0.91	0.34	0.17	1.4	---	e0.07	0.06
4	0.11	0.16	0.37	0.47	0.50	0.62	0.32	0.18	0.10	---	e0.07	0.06
5	0.10	0.16	0.35	e3.68	0.44	0.52	0.30	0.35	0.07	---	e0.07	0.05
6	0.12	0.16	0.29	1.6	0.41	0.49	0.30	0.22	0.06	---	e0.07	0.06
7	0.18	5.0	0.35	5.7	0.42	0.46	0.28	0.14	0.06	---	e0.07	0.05
8	2.1	3.1	e0.53	9.6	0.38	0.43	0.29	0.13	0.06	---	e0.07	0.06
9	0.14	e0.28	e0.34	0.96	0.35	0.41	0.33	2.1	0.05	---	e0.07	0.05
10	0.12	e0.19	e0.34	0.74	0.35	0.41	0.31	0.25	0.05	---	0.07	0.04
11	0.14	e2.04	e0.33	0.63	0.42	0.38	1.3	0.14	0.44	---	0.07	0.05
12	0.53	5.0	0.26	0.54	0.48	0.37	1.4	0.14	e3.5	---	0.05	0.05
13	0.11	0.41	0.27	0.52	e3.41	0.37	0.35	0.12	0.75	---	0.05	0.08
14	0.10	0.30	0.28	0.49	2.0	0.38	1.0	0.10	3.2	---	0.05	0.70
15	0.10	e0.95	0.27	0.49	0.68	0.40	e3.12	0.17	0.44	---	0.06	0.40
16	0.10	e6.04	0.27	0.47	0.60	1.7	0.57	0.10	0.24	---	0.05	0.05
17	e5.2	0.58	0.26	0.43	0.63	0.43	0.28	0.09	0.20	---	0.05	0.06
18	0.97	0.34	0.26	0.89	0.53	0.37	0.21	0.08	0.18	---	0.05	0.06
19	0.34	0.28	0.26	0.55	0.52	0.37	3.4	0.09	0.20	---	0.05	0.05
20	0.20	0.24	0.25	0.43	0.52	0.37	1.1	0.08	0.21	---	0.05	0.05
21	0.15	e6.04	0.33	4.7	0.54	0.36	0.39	0.12	0.18	---	0.29	0.05
22	0.19	e12.2	e3.76	2.4	0.46	0.36	0.35	0.07	0.27	---	0.11	0.07
23	0.18	1.3	1.0	0.64	0.33	0.35	0.33	0.07	0.18	---	0.29	0.05
24	0.16	0.64	0.55	0.75	0.33	0.35	0.38	0.07	2.0	---	0.14	0.05
25	0.15	0.51	e5.55	0.54	4.6	0.34	0.37	0.06	e7.5	---	0.05	0.05
26	0.14	0.44	1.1	0.48	0.63	0.35	0.34	0.06	---	---	0.05	0.05
27	3.8	0.39	0.58	0.44	0.47	0.35	1.5	0.06	---	---	0.06	0.06
28	3.3	e0.35	0.48	0.38	0.43	0.37	0.23	0.08	---	---	0.06	0.08
29	0.24	e0.38	e0.40	0.39	---	0.63	0.21	0.09	---	---	0.06	0.10
30	0.19	0.80	e0.40	0.40	---	0.36	0.21	0.06	---	---	0.10	0.10
31	0.19	---	e1.0	0.40	---	0.37	---	0.07	---	---	0.58	---
Total	19.68	48.77	21.88	43.49	27.92	32.68	20.37	5.83	21.51	---	2.98	2.76
Mean	0.63	1.63	0.71	1.40	1.00	1.05	0.68	0.19	0.86	---	0.10	0.09
Max	5.2	12	5.5	9.6	4.9	13	3.4	2.1	7.5	---	0.58	0.70
Min	0.10	0.16	0.25	0.38	0.33	0.34	0.21	0.06	0.05	---	0.05	0.04
Cfsm	0.62	1.58	0.69	1.36	0.97	1.02	0.66	0.18	0.84	---	0.10	0.09
In.	0.71	1.76	0.79	1.57	1.01	1.18	0.74	0.21	0.78	---	0.11	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.79	1.24	1.46	1.14	0.79	0.80	0.59	0.22	1.03	0.58	0.61	0.41
Max	0.95	1.63	2.21	1.40	1.00	1.05	0.68	0.25	1.16	0.58	1.38	1.01
(WY)	(2006)	(2007)	(2006)	(2007)	(2007)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	0.63	0.85	0.71	0.87	0.59	0.55	0.49	0.19	0.86	0.58	0.10	0.09
(WY)	(2007)	(2006)	(2007)	(2006)	(2006)	(2006)	(2006)	(2007)	(2007)	(2006)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 2005 - 2007	
Annual total	299.57	247.87		
Annual mean	0.82	0.76	0.79	
Highest annual mean			0.91	2006
Lowest annual mean			0.18	2005
Highest daily mean	18 Sep 13	13 Mar 2	22	Dec 15, 2005
Lowest daily mean	0.07 Aug 1	0.04 Sep 10	0.04	Sep 10, 2007
Annual seven-day minimum	0.08 Jul 29	0.05 Aug 12	0.05	Aug 12, 2007
Maximum peak flow		NOT DETERMINED	NOT DETERMINED	
Maximum peak stage		4.17 Mar 2	4.57	Jun 27, 2006
Instantaneous low flow		^a 0.04 Jun 9	^a 0.04	Jun 9, 2007
Annual runoff (cfsm)	0.799	0.736	0.769	
Annual runoff (inches)	10.85	8.98	10.46	
10 percent exceeds	1.8	1.8	1.6	
50 percent exceeds	0.34	0.33	0.30	
90 percent exceeds	0.11	0.06	0.08	

^a See Remarks.

