

**0214643820 EDWARDS BRANCH AT SHEFFIELD DRIVE AT CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°12'12", long 80°46'20" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on left bank at downstream end of culvert on Sheffield Drive, 3.8 mi east of city hall in Charlotte.

DRAINAGE AREA.--1.03 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 685.18 ft above North American Vertical Datum of 1988. Radio telemetry at streamgage.

REMARKS.--Records poor. No flow also occurred many days in water years 2007, 2008, 2009 and 2010. Peak flow for current water year and period of record from rating curve extended above 225 ft<sup>3</sup>/s based on computation of peak flow through culvert.

REVISIONS.--The maximum discharge for some water years has been revised, as shown in the following table. These values supercede figures published for water years 2004, 2005, 2006, 2007, 2008, 2009.

Water year	Date	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
2004	July 17, 2004	625	6.81
2005	July 7, 2005	588	6.58
2006	June 12, 2006	548	6.33
2007	June 25, 2007	373	5.12
2008	August 27, 2008	959	8.67
2009	May 5, 2009	953	8.64

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**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	0.01	8.7	0.23	0.38	0.75	0.24	0.53	0.27	45	0.28	0.83	0.11
2	0.00	0.16	10	0.32	5.7	1.0	0.48	0.25	11	0.15	0.22	0.10
3	0.00	0.12	1.1	0.31	1.2	1.2	0.46	0.62	1.1	0.13	0.21	0.16
4	0.00	0.11	0.39	0.31	0.54	0.34	0.44	0.28	0.41	0.12	0.20	0.10
5	1.9	0.10	0.47	0.30	33	0.28	0.43	0.22	0.31	0.11	9.3	0.12
6	0.08	0.10	0.30	0.27	2.3	0.25	0.40	0.22	0.54	0.10	1.1	0.13
7	0.05	0.10	0.27	0.28	0.62	0.24	0.40	0.21	0.33	0.09	0.39	0.14
8	0.02	0.10	6.3	0.28	0.44	0.23	1.4	0.20	0.23	0.09	0.19	0.13
9	0.03	0.09	9.6	0.26	0.51	0.23	0.48	0.19	0.23	0.09	0.18	0.13
10	0.02	8.4	0.67	0.26	0.36	0.31	0.37	0.18	0.96	0.09	0.20	0.11
11	0.00	e10	0.44	0.26	0.35	0.67	0.37	0.51	0.24	0.06	0.24	0.33
12	0.50	e2.4	0.36	0.31	0.35	13	0.37	0.22	0.19	35	0.22	0.11
13	0.09	0.59	1.4	e0.17	0.82	2.6	0.35	0.19	7.5	0.54	0.20	0.07
14	0.68	0.27	0.41	e0.20	0.32	1.6	0.36	0.18	0.41	0.22	1.6	0.07
15	0.38	0.21	0.34	e0.22	1.6	0.42	0.34	0.18	5.3	0.19	0.43	0.07
16	0.11	0.19	0.30	e0.53	0.34	0.32	0.34	0.39	0.39	0.18	0.17	0.06
17	0.27	0.17	0.30	e9.3	0.29	0.30	0.33	4.2	0.19	1.3	0.15	0.06
18	0.07	0.31	6.1	e0.65	0.26	0.28	0.39	0.36	0.18	0.27	0.14	0.05
19	e0.08	0.19	2.5	e0.56	0.24	0.26	0.30	0.22	0.17	0.18	20	0.06
20	0.09	0.16	0.57	0.41	0.24	0.24	0.40	0.19	0.16	0.16	0.61	0.06
21	0.05	0.15	0.41	4.7	0.23	0.78	0.54	0.40	0.15	0.14	0.22	0.05
22	0.04	0.90	0.37	1.2	4.5	1.0	0.30	0.22	0.14	0.13	0.19	0.05
23	0.04	4.3	0.35	0.63	0.68	0.26	0.29	0.18	0.13	0.13	0.17	0.05
24	0.27	0.28	0.32	32	0.83	0.23	0.52	0.50	0.12	0.93	0.16	0.04
25	0.06	0.23	28	37	0.49	0.24	1.7	0.22	0.12	0.20	0.16	0.04
26	0.08	0.21	1.3	0.66	0.31	0.25	0.29	0.18	0.11	0.20	0.16	2.4
27	6.4	0.22	0.62	0.40	0.29	0.21	1.9	0.16	0.14	15	0.15	4.0
28	0.92	0.17	0.47	0.31	0.26	8.4	0.42	0.84	0.13	0.88	0.14	1.9
29	0.11	0.17	0.40	0.31	---	7.9	0.27	0.91	0.11	0.24	0.13	2.7
30	0.11	0.40	0.50	0.62	---	0.83	0.31	0.16	9.0	0.16	0.13	1.7
31	0.88	---	1.1	1.6	---	0.60	---	11	---	1.6	0.11	---
<b>Total</b>	13.34	39.50	75.89	95.01	57.82	44.71	15.48	24.05	84.99	58.96	38.30	15.10
<b>Mean</b>	0.43	1.32	2.45	3.06	2.06	1.44	0.52	0.78	2.83	1.90	1.24	0.50
<b>Max</b>	6.4	10	28	37	33	13	1.9	11	45	35	20	4.0
<b>Min</b>	0.00	0.09	0.23	0.17	0.23	0.21	0.27	0.16	0.11	0.06	0.11	0.04
<b>Cfsm</b>	0.42	1.28	2.38	2.98	2.00	1.40	0.50	0.75	2.75	1.85	1.20	0.49
<b>In.</b>	0.48	1.43	2.74	3.43	2.09	1.61	0.56	0.87	3.07	2.13	1.38	0.55

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.63	1.32	1.51	1.13	1.10	1.71	1.01	1.05	1.19	1.23	1.53	0.59
<b>Max</b>	1.19	4.58	2.45	3.06	2.06	2.85	1.80	3.36	2.83	1.90	5.93	1.28
<b>(WY)</b>	(2007)	(2007)	(2010)	(2010)	(2010)	(2007)	(2007)	(2009)	(2010)	(2010)	(2008)	(2008)
<b>Min</b>	0.32	0.08	0.53	0.31	0.71	0.37	0.44	0.27	0.60	0.56	0.21	0.19
<b>(WY)</b>	(2009)	(2008)	(2005)	(2005)	(2009)	(2006)	(2006)	(2006)	(2007)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2004 - 2010	
<b>Annual total</b>	462.28		563.15			
<b>Annual mean</b>	1.27		1.54		1.17	
<b>Highest annual mean</b>					1.54	2010
<b>Lowest annual mean</b>					0.72	2004
<b>Highest daily mean</b>	64	May 5	45	Jun 1	117	Aug 27, 2008
<b>Lowest daily mean</b>	0.00	Oct 2	0.00	Oct 2	0.00	Sep 28, 2007
<b>Annual seven-day minimum</b>	0.02	Sep 28	0.05	Sep 19	0.00	Sep 27, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 969	Jan 24	<sup>a</sup> 969	Jan 24, 2010
<b>Maximum peak stage</b>			8.72	Jan 24	8.72	Jan 24, 2010
<b>Instantaneous low flow</b>			<sup>a</sup> 0.00	Oct 1	<sup>a</sup> 0.00	Sep 28, 2007
<b>Annual runoff (cfsm)</b>	1.23		1.50		1.13	
<b>Annual runoff (inches)</b>	16.70		20.34		15.40	
<b>10 percent exceeds</b>	2.6		2.4		2.2	
<b>50 percent exceeds</b>	0.22		0.28		0.30	
<b>90 percent exceeds</b>	0.06		0.09		0.09	

<sup>a</sup> See Remarks.

