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Water-Data Report 2007

**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 site.

REMARKS.--Records poor. No flow also occurred September 29, 30, 2007.

## 0214643820 EDWARDS BRANCH AT SHEFFIELD DRIVE AT CHARLOTTE, NC—Continued

**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	0.28	0.83	5.4	2.5	3.5	18	1.1	2.3	e0.30	0.31	e0.12	0.38
2	0.21	0.80	3.0	0.59	1.2	e30	0.97	2.2	0.33	0.16	e0.10	0.12
3	0.19	0.75	2.3	0.45	0.60	2.2	0.86	2.3	2.1	0.15	0.09	0.10
4	0.25	0.78	2.3	0.41	0.49	1.8	0.79	1.6	0.37	0.13	0.09	0.12
5	0.23	0.78	1.8	5.7	0.44	1.6	0.78	0.70	0.33	0.13	0.08	0.13
6	0.40	0.80	1.8	1.3	0.38	1.5	0.80	0.49	0.31	0.13	0.33	0.12
7	0.56	6.0	1.8	4.0	0.38	1.4	0.82	0.38	0.25	e5.4	0.15	0.14
8	4.6	3.9	1.9	5.1	0.67	1.4	0.85	0.42	0.23	0.30	0.12	0.10
9	0.50	1.1	2.2	0.98	0.50	1.4	0.88	1.1	0.21	0.19	0.10	0.08
10	0.34	0.86	2.6	0.69	0.49	1.3	0.89	0.75	0.21	0.18	0.09	0.08
11	0.14	6.6	2.6	0.56	0.49	1.3	2.1	0.48	0.35	0.15	0.08	0.06
12	0.59	4.5	2.3	0.48	0.49	1.3	3.0	0.95	1.1	0.14	0.09	0.08
13	0.10	1.4	3.1	0.43	10	1.3	1.1	0.57	0.34	0.13	0.09	0.10
14	0.10	1.2	3.2	0.42	2.1	1.3	2.2	0.43	1.7	0.12	0.08	3.1
15	0.09	e1.5	2.3	0.38	0.81	1.3	11	0.57	0.76	0.46	0.07	e1.1
16	0.10	18	2.3	0.36	0.69	2.9	1.6	0.60	0.34	0.13	0.07	e0.31
17	13	2.2	2.4	0.32	0.64	1.4	1.4	0.55	0.29	0.10	0.09	e0.12
18	0.97	1.7	2.6	1.00	0.62	1.4	1.4	0.40	0.25	0.83	0.18	0.10
19	0.33	1.6	e0.23	0.48	0.61	1.6	3.0	0.19	0.10	0.11	0.19	0.04
20	0.29	1.4	0.23	0.36	0.63	1.5	1.9	0.23	0.14	0.08	0.20	0.06
21	0.13	e20	0.37	3.4	0.63	1.5	1.4	0.21	0.11	0.08	0.27	0.09
22	0.19	38	6.1	1.7	0.63	1.3	1.3	0.15	0.10	0.08	0.67	0.11
23	0.13	4.3	0.76	0.63	0.60	1.1	1.3	0.24	0.09	0.08	0.91	0.10
24	0.18	3.5	0.43	0.50	0.64	1.1	1.3	0.29	0.52	0.09	0.18	0.08
25	0.39	2.8	8.0	0.43	4.1	1.0	1.3	0.26	e4.0	0.10	0.11	0.10
26	0.73	2.4	1.0	0.37	0.84	1.0	1.3	0.28	0.46	0.10	0.64	0.08
27	5.2	2.0	0.58	0.37	0.69	1.0	2.9	0.33	0.18	e3.7	0.18	0.03
28	4.0	1.9	0.44	0.37	0.76	1.0	1.8	0.37	0.14	e1.4	0.11	0.00
29	0.96	1.9	0.37	0.32	---	1.3	1.9	0.26	0.15	e1.7	0.10	0.00
30	0.81	3.9	0.36	0.34	---	1.0	2.0	0.19	2.2	e0.50	0.20	0.00
31	0.80	---	1.1	0.32	---	1.0	---	e0.30	---	e0.20	0.74	---
<b>Total</b>	36.79	137.40	65.87	35.26	34.62	88.2	53.94	20.09	17.96	17.36	6.52	7.03
<b>Mean</b>	1.19	4.58	2.12	1.14	1.24	2.85	1.80	0.65	0.60	0.56	0.21	0.23
<b>Max</b>	13	38	8.0	5.7	10	30	11	2.3	4.0	5.4	0.91	3.1
<b>Min</b>	0.09	0.75	0.23	0.32	0.38	1.0	0.78	0.15	0.09	0.08	0.07	0.00
<b>Cfsm</b>	1.15	4.45	2.06	1.10	1.20	2.76	1.75	0.63	0.58	0.54	0.20	0.23
<b>In.</b>	1.33	4.96	2.38	1.27	1.25	3.19	1.95	0.73	0.65	0.63	0.24	0.25

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.06	2.00	1.52	1.01	1.03	1.57	1.18	0.65	0.73	0.68	0.57	0.57
<b>Max</b>	1.19	4.58	2.12	1.14	1.24	2.85	1.80	0.65	0.85	0.80	0.93	1.27
<b>(WY)</b>	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2005)	(2006)	(2005)	(2006)
<b>Min</b>	0.93	0.69	0.53	0.89	0.75	0.37	0.44	0.65	0.60	0.56	0.21	0.19
<b>(WY)</b>	(2006)	(2006)	(2005)	(2006)	(2006)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Water Year 2007		Water Years 2004 - 2007	
<b>Annual total</b>	521.04			
<b>Annual mean</b>	1.43		1.43	
<b>Highest annual mean</b>			1.43 2007	
<b>Lowest annual mean</b>			1.43 2007	
<b>Highest daily mean</b>	38	Nov 22	38	Nov 22, 2006
<b>Lowest daily mean</b>	0.00	Sep 28	0.00	Sep 28, 2007
<b>Annual seven-day minimum</b>	0.04	Sep 24	0.04	Sep 24, 2007
<b>Maximum peak stage</b>	5.12	Jun 25	6.81	Jul 17, 2004
<b>Instantaneous low flow</b>	<sup>a</sup> 0.00	Sep 28	<sup>a</sup> 0.00	Sep 28, 2007
<b>Annual runoff (cfsm)</b>	1.39		1.39	
<b>Annual runoff (inches)</b>	18.82		18.83	
<b>10 percent exceeds</b>	2.9		2.9	
<b>50 percent exceeds</b>	0.58		0.58	
<b>90 percent exceeds</b>	0.10		0.10	

<sup>a</sup> See Remarks.

