

Water-Data Report 2008

**02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°13'42", long 80°52'09" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank at bridge on West Morehead Street (U.S. Highway 29), 0.3 miles northeast of U.S. Interstate 77, 1.8 miles northeast of city hall, Charlotte, NC.

DRAINAGE AREA.--11.1 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2000 to current year.

REVISED RECORDS.--

WDR NC-03-1B: 2001, 2002. (daily discharges)

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 617.43 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing values on the daily values table are days when flow exceeded rating. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for the current water year also occurred November 18, 19.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.0	8.5	5.3	8.5	108	7.3	10	9.6	8.1	6.7	13	9.9
2	3.8	8.2	5.6	6.6	13	7.7	8.1	9.9	8.8	7.3	8.6	7.4
3	3.7	6.4	6.0	4.8	10	6.3	22	8.2	7.6	7.5	8.2	8.7
4	5.4	4.4	9.0	6.6	8.8	---	---	8.6	8.3	---	6.9	8.0
5	4.8	4.5	7.8	7.8	8.7	30	51	10	8.7	19	6.3	8.0
6	3.7	4.4	8.1	6.5	8.1	11	17	9.1	7.4	9.6	9.5	7.5
7	4.5	3.3	7.0	7.2	8.2	40	9.7	9.3	7.5	9.7	8.2	7.7
8	4.1	4.4	7.2	5.4	8.5	17	9.5	9.4	11	---	7.3	7.9
9	3.3	6.0	8.4	5.6	7.5	11	13	9.1	7.0	22	8.0	6.5
10	4.7	3.6	8.9	9.1	8.4	8.6	11	7.4	8.1	30	7.3	---
11	4.3	3.6	8.1	13	7.9	8.5	9.0	18	19	13	6.0	29
12	3.6	4.4	4.8	7.6	7.9	8.0	13	11	9.8	8.5	7.1	11
13	4.4	4.4	4.2	6.4	18	7.8	8.4	8.8	8.0	8.1	9.7	7.7
14	3.7	6.0	4.9	6.1	8.5	8.8	9.5	7.7	8.3	6.9	6.9	7.8
15	5.2	10	33	6.6	8.2	---	8.5	8.0	6.7	7.1	11	6.6
16	5.7	6.3	43	6.5	7.0	27	6.3	19	7.5	6.6	8.8	38
17	4.2	2.9	6.6	57	7.8	12	6.7	8.4	6.7	6.7	9.0	15
18	3.5	3.7	5.9	11	11	9.1	7.8	11	8.2	7.1	7.3	8.2
19	9.6	3.9	5.1	17	7.7	47	6.8	10	6.8	6.0	6.8	8.5
20	4.2	7.4	4.9	10	6.6	21	7.8	8.9	6.8	6.0	6.0	8.2
21	4.1	8.5	15	7.3	8.9	12	6.6	7.5	17	6.2	6.0	7.7
22	4.8	10	6.5	8.5	15	11	6.8	7.9	---	---	6.7	7.0
23	7.2	5.8	19	7.3	7.7	9.9	6.3	7.2	---	25	7.2	7.4
24	19	5.6	7.4	6.2	7.9	8.9	6.2	8.5	10	6.4	6.5	6.8
25	34	5.5	5.7	5.5	7.1	7.9	6.9	7.3	9.1	6.2	23	5.4
26	36	8.9	27	6.9	35	8.1	---	7.9	27	7.4	---	77
27	8.4	9.6	6.0	7.2	9.0	8.0	14	9.7	17	6.0	---	40
28	5.9	9.5	e29	7.0	8.3	8.1	68	55	8.6	6.6	17	8.3
29	6.0	7.3	e26	5.7	7.9	10	14	12	8.0	7.1	10	6.9
30	4.9	6.1	e86	5.8	---	8.9	9.7	9.2	7.6	5.6	16	6.1
31	3.8	---	e17	6.0	---	12	---	9.4	---	---	9.9	---

## SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2001 - 2008	
Lowest daily mean	2.9	Nov 17	2.9	Nov 17	2.9	Nov 17, 2007
Annual seven-day minimum	3.9	Sep 26	4.0	Oct 8	3.9	Sep 26, 2007
Maximum peak stage			12.70	Aug 27	14.08	Jul 23, 2006
Instantaneous low flow			<sup>a</sup> 1.5	Nov 17	<sup>a</sup> 1.5	Aug 20, 2007

<sup>a</sup>See Remarks.

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