



Water-Data Report 2009

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 mi².

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.3	6.1	14	8.1	6.3	---	11	5.9	11	8.8	9.8	6.9
2	6.8	6.6	11	9.0	9.0	84	17	37	8.1	7.8	8.6	7.9
3	8.6	8.4	9.6	7.5	15	24	14	10	e8.0	10	7.3	5.8
4	7.0	9.3	12	30	6.5	17	9.9	19	---	7.2	6.5	7.1
5	5.7	6.2	11	8.3	8.2	13	10	---	---	6.8	29	7.0
6	7.8	8.1	9.0	---	7.5	12	9.3	25	24	6.2	40	7.4
7	9.5	7.0	8.5	53	6.2	10	8.3	13	12	7.4	11	7.6
8	40	7.2	7.9	18	6.2	9.5	8.5	8.9	11	8.3	13	7.0
9	15	7.4	8.6	15	6.7	9.1	8.8	9.3	10	---	8.0	6.2
10	9.2	6.4	40	10	8.2	9.7	---	8.8	9.3	9.9	9.0	19
11	7.2	7.5	---	10	10	7.6	---	28	9.5	9.2	9.3	8.6
12	6.2	6.9	70	9.6	11	6.6	11	9.1	18	9.6	9.5	7.0
13	7.4	9.9	15	12	8.2	10	8.6	7.4	8.9	8.9	7.3	6.7
14	8.0	29	13	13	8.2	37	16	10	8.2	6.3	6.5	9.4
15	7.1	32	15	9.0	6.1	62	10	11	7.4	6.3	7.1	7.3
16	6.7	7.8	11	8.4	16	19	10	9.1	7.0	6.6	13	29
17	15	6.9	8.6	7.5	9.7	12	8.5	9.0	---	11	7.6	12
18	12	8.4	e9.8	8.7	30	9.1	8.0	9.5	9.4	8.4	6.3	8.7
19	6.6	7.6	e9.4	8.2	10	16	7.4	6.1	6.4	7.4	7.4	22
20	7.8	9.3	12	7.3	8.0	18	35	5.3	8.4	7.0	13	69
21	6.4	7.7	25	6.5	5.6	8.8	10	6.5	6.6	7.6	8.5	10
22	7.7	8.7	9.5	8.3	6.5	8.4	8.4	5.1	6.6	---	7.8	8.2
23	7.2	7.7	8.9	8.4	6.4	8.0	8.1	6.7	7.3	---	9.6	8.2
24	6.8	7.4	8.1	6.9	6.8	8.1	7.3	27	6.1	31	9.1	10
25	11	15	10	6.7	7.7	11	6.1	---	6.4	10	6.3	9.5
26	7.2	9.0	9.4	7.0	7.8	16	7.8	15	9.1	8.9	7.9	19
27	8.5	8.8	7.9	6.9	12	31	6.8	11	7.9	9.2	8.7	17
28	7.3	8.1	8.5	14	79	---	6.6	---	7.7	---	---	9.3
29	7.3	8.8	7.6	9.0	---	31	7.3	e25	7.6	---	12	9.5
30	6.6	86	9.8	7.7	---	15	7.7	e10	7.8	15	7.7	7.4
31	7.2	---	9.8	6.2	---	11	---	10	---	13	10	---

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2001 - 2009	
Highest daily mean	108	Feb 1	86	Nov 30	143	Apr 18, 2003
Lowest daily mean	4.8	Jan 3	5.1	May 22	2.9	Nov 17, 2007
Annual seven-day minimum	6.3	Jan 3	6.8	Jun 19	3.9	Sep 26, 2007
Maximum peak stage			11.03	Jun 5	14.08	Jul 23, 2006
Instantaneous low flow			^a 2.8	Oct 21	^a 1.5	Aug 20, 2007

^a See Remarks.

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