



Water-Data Report 2010

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°06'18", long 80°57'13" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank, upstream of culvert on Secondary Road 1441 (Carowinds Boulevard), 4.5 miles west of Pineville.

DRAINAGE AREA.--6.73 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 561.83 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred August 21, 2007. Minimum discharge for current water year also occurred September 11, 19.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|--------|
| 1 | 0.48 | 43 | 2.5 | 3.8 | 13 | 3.6 | 4.0 | 1.3 | 101 | 1.1 | 1.2 | 0.07 |
| 2 | 0.44 | 3.3 | 147 | 3.0 | 63 | 9.9 | 3.4 | 1.4 | 86 | 0.51 | 0.27 | 0.07 |
| 3 | 0.49 | 1.9 | 28 | 2.6 | 27 | 13 | 3.1 | 3.5 | 16 | 0.39 | 0.80 | 0.10 |
| 4 | 0.41 | 1.5 | 7.1 | 2.5 | 11 | 5.2 | 3.0 | 1.9 | 6.2 | 0.34 | 0.45 | 0.13 |
| 5 | 16 | 1.4 | 5.8 | 2.4 | 343 | 4.0 | 2.9 | 2.1 | 3.0 | 0.32 | 12 | 0.14 |
| 6 | 2.1 | 1.7 | 3.8 | 2.2 | 44 | 3.5 | 2.7 | 1.2 | 9.8 | 0.32 | 5.1 | 0.11 |
| 7 | 1.1 | 1.7 | 2.8 | 2.1 | 14 | 3.3 | 2.5 | 1.1 | 8.4 | 0.32 | 6.3 | 0.12 |
| 8 | 0.70 | 1.6 | 35 | 2.1 | 9.2 | 3.3 | 5.5 | 0.96 | 1.9 | 0.33 | 0.79 | 0.13 |
| 9 | 0.53 | 1.5 | 148 | 1.9 | 7.2 | 3.0 | 5.7 | 0.81 | 1.3 | 0.35 | 0.44 | 0.14 |
| 10 | 0.80 | 70 | 12 | 1.8 | 5.8 | 3.6 | 2.4 | 0.81 | 2.4 | 0.45 | 0.28 | 0.12 |
| 11 | 0.84 | 268 | 5.6 | 1.8 | 4.7 | 8.1 | 2.1 | 2.9 | 2.2 | 0.47 | 0.29 | 0.09 |
| 12 | 4.9 | 33 | 3.8 | 1.8 | 4.3 | 64 | 2.0 | 1.5 | 1.0 | 34 | 0.25 | 0.12 |
| 13 | 1.6 | 11 | 12 | 1.8 | 9.6 | 39 | 1.8 | 0.96 | 15 | 5.3 | 0.24 | 0.12 |
| 14 | 8.3 | 4.7 | 5.6 | 1.8 | 6.1 | 23 | 1.8 | 0.79 | 4.4 | 1.3 | 0.23 | 0.12 |
| 15 | 6.5 | 3.3 | 4.0 | 1.8 | 15 | 8.0 | 1.7 | 0.77 | 1.3 | 0.76 | 0.39 | 0.14 |
| 16 | 2.6 | 2.6 | 3.1 | 2.6 | 6.4 | 5.3 | 1.7 | 0.82 | 0.88 | 0.71 | 0.30 | 0.13 |
| 17 | 3.5 | 2.3 | 2.7 | 151 | 4.5 | 4.3 | 1.6 | 31 | 1.4 | 1.3 | 0.46 | 0.13 |
| 18 | 1.2 | 3.4 | 69 | 12 | 3.9 | 3.9 | 1.4 | 4.9 | 1.1 | 0.45 | 0.44 | 0.12 |
| 19 | 0.92 | 2.6 | 41 | 5.7 | 3.5 | 3.4 | 1.4 | 2.0 | 0.69 | 0.55 | 30 | 0.09 |
| 20 | 0.80 | 2.1 | 8.3 | 3.9 | 3.3 | 3.2 | 1.6 | 1.6 | 0.59 | 0.61 | 4.8 | 0.11 |
| 21 | 0.77 | 1.8 | 5.1 | 42 | 3.1 | 9.6 | 3.0 | 4.0 | 0.51 | 0.32 | 0.65 | 0.11 |
| 22 | 0.73 | 6.8 | 3.9 | 19 | 37 | 15 | 1.7 | 3.4 | 0.44 | 0.27 | 0.38 | 0.12 |
| 23 | 0.84 | 33 | 3.3 | 6.4 | 11 | 4.6 | 1.5 | 1.6 | 0.42 | 0.24 | 0.25 | 0.12 |
| 24 | 3.7 | 4.8 | 2.9 | 76 | 12 | 3.4 | 2.1 | 2.0 | 0.37 | 0.53 | 0.19 | 0.09 |
| 25 | 1.1 | 3.2 | 305 | 280 | 7.4 | 3.2 | 11 | 1.8 | 0.36 | 0.88 | 0.17 | 0.34 |
| 26 | 0.73 | 2.6 | 22 | 15 | 5.1 | 3.2 | 2.2 | 1.2 | 0.37 | 0.26 | 0.17 | 16 |
| 27 | 42 | 2.3 | 8.4 | 8.0 | 4.4 | 2.7 | 10 | 1.1 | 0.36 | 0.19 | 0.15 | 70 |
| 28 | 20 | 2.0 | 5.7 | 5.9 | 3.9 | 12 | 4.9 | 14 | 0.41 | 0.25 | 0.16 | 20 |
| 29 | 2.4 | 1.8 | 4.0 | 4.6 | --- | 101 | 1.9 | 25 | 0.39 | 0.17 | 0.37 | 13 |
| 30 | 1.7 | 2.6 | 3.4 | 7.9 | --- | 9.3 | 1.5 | 4.4 | 2.3 | 0.16 | 0.27 | 5.5 |
| 31 | 4.2 | --- | 8.6 | 14 | --- | 5.3 | --- | 35 | --- | 0.24 | 0.09 | --- |
| Total | 132.38 | 521.5 | 919.4 | 687.4 | 682.4 | 383.9 | 92.1 | 155.82 | 270.49 | 53.39 | 67.88 | 127.58 |
| Mean | 4.27 | 17.4 | 29.7 | 22.2 | 24.4 | 12.4 | 3.07 | 5.03 | 9.02 | 1.72 | 2.19 | 4.25 |
| Max | 42 | 268 | 305 | 280 | 343 | 101 | 11 | 35 | 101 | 34 | 30 | 70 |
| Min | 0.41 | 1.4 | 2.5 | 1.8 | 3.1 | 2.7 | 1.4 | 0.77 | 0.36 | 0.16 | 0.09 | 0.07 |
| Cfsm | 0.63 | 2.58 | 4.41 | 3.29 | 3.62 | 1.84 | 0.46 | 0.75 | 1.34 | 0.26 | 0.33 | 0.63 |
| In. | 0.73 | 2.88 | 5.08 | 3.80 | 3.77 | 2.12 | 0.51 | 0.86 | 1.50 | 0.30 | 0.38 | 0.71 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 4.38 | 7.28 | 9.21 | 8.43 | 8.77 | 13.6 | 7.27 | 5.95 | 6.25 | 5.66 | 7.05 | 5.01 |
| Max | 15.4 | 34.8 | 29.7 | 22.2 | 24.4 | 34.6 | 36.5 | 42.1 | 16.3 | 28.6 | 24.9 | 15.3 |
| (WY) | (2000) | (2007) | (2010) | (2010) | (2010) | (2003) | (2003) | (2003) | (2003) | (1998) | (2008) | (2006) |
| Min | 0.81 | 0.95 | 1.61 | 1.67 | 3.15 | 2.17 | 2.26 | 0.93 | 0.76 | 1.07 | 0.28 | 0.49 |
| (WY) | (2001) | (2008) | (2002) | (2004) | (2006) | (2006) | (2001) | (2000) | (2002) | (2007) | (2001) | (2005) |

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SUMMARY STATISTICS

| | Calendar Year 2009 | | Water Year 2010 | | Water Years 1998 - 2010 | |
|--------------------------|--------------------|--------|-------------------|--------|-------------------------|--------------|
| Annual total | 3,719.63 | | 4,094.24 | | | |
| Annual mean | 10.2 | | 11.2 | | 7.33 | |
| Highest annual mean | | | | | 17.6 | 2003 |
| Lowest annual mean | | | | | 3.40 | 2002 |
| Highest daily mean | 305 | Dec 25 | 343 | Feb 5 | 519 | Mar 20, 2003 |
| Lowest daily mean | 0.12 | Sep 14 | 0.07 | Sep 1 | 0.05 | Aug 20, 2001 |
| Annual seven-day minimum | 0.14 | Sep 12 | 0.10 | Aug 31 | 0.06 | Sep 7, 2007 |
| Maximum peak flow | | | 1,290 | Jan 25 | 2,450 | Jul 27, 1998 |
| Maximum peak stage | | | 9.03 | Jan 25 | 11.44 | Jul 27, 1998 |
| Instantaneous low flow | | | ^a 0.05 | Sep 1 | ^a 0.02 | Aug 13, 2007 |
| Annual runoff (cfsm) | 1.51 | | 1.67 | | 1.09 | |
| Annual runoff (inches) | 20.56 | | 22.63 | | 14.79 | |
| 10 percent exceeds | 20 | | 20 | | 12 | |
| 50 percent exceeds | 1.9 | | 2.4 | | 1.5 | |
| 90 percent exceeds | 0.35 | | 0.24 | | 0.34 | |

^a See Remarks.

