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Water-Data Report 2007

**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, NC.

DRAINAGE AREA.--6.73 mi<sup>2</sup>.

**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 station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for current water year and period of record also occurred August 21, 2007.

## 0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.0	1.7	8.7	30	24	165	2.0	1.0	0.51	2.4	0.25	1.8
2	2.0	3.2	4.1	10	15	331	2.4	0.91	0.44	0.29	0.20	0.94
3	1.9	1.7	2.9	5.6	5.8	12	1.4	0.91	6.4	0.19	0.25	0.36
4	1.7	1.8	2.7	4.8	3.7	6.7	1.3	0.93	1.0	0.20	0.25	0.16
5	2.0	2.0	2.6	34	3.0	4.6	1.2	8.2	0.46	0.23	0.27	0.12
6	2.5	2.1	1.7	24	2.5	3.8	1.1	3.7	0.35	0.24	0.28	0.08
7	2.8	28	1.7	34	2.6	3.2	1.2	1.3	0.34	0.19	0.34	0.06
8	20	31	1.5	99	2.2	2.8	1.2	0.97	0.33	0.22	0.28	0.05
9	2.8	5.2	1.4	12	2.1	2.4	1.2	2.0	0.41	3.7	0.26	0.05
10	1.4	2.8	1.6	6.4	2.3	2.2	1.4	1.9	0.38	1.1	0.19	0.06
11	0.82	34	2.0	4.2	2.0	2.1	5.3	0.96	4.3	0.29	0.17	0.06
12	3.1	75	1.5	3.4	2.0	2.0	9.3	0.89	2.0	0.19	0.08	0.07
13	0.86	7.0	1.5	3.0	73	2.0	1.9	1.1	0.93	0.13	0.07	0.06
14	0.73	4.2	1.4	2.8	37	2.1	3.5	0.75	0.80	0.13	0.11	2.8
15	0.83	14	1.4	2.7	7.4	1.9	72	0.80	0.58	1.2	0.15	5.1
16	0.88	202	1.3	2.5	4.7	26	7.8	0.71	0.54	0.70	0.14	0.39
17	98	15	1.7	2.3	3.4	6.4	3.5	0.71	0.49	0.61	0.13	0.18
18	17	6.8	1.2	5.7	2.9	3.4	2.4	0.69	0.42	3.0	0.19	0.21
19	3.4	4.6	1.3	3.5	2.4	2.5	19	0.69	0.37	0.26	0.22	0.15
20	2.4	3.5	1.1	2.3	2.5	2.3	15	0.67	0.39	0.20	0.20	0.16
21	1.8	111	1.1	20	3.1	2.0	3.9	0.62	0.36	0.23	0.17	0.91
22	1.7	420	43	27	2.4	2.0	2.5	0.60	0.30	0.15	0.56	0.12
23	1.8	24	12	7.0	2.0	1.9	2.0	0.60	0.37	0.10	1.2	0.13
24	1.9	11	6.0	4.8	2.0	1.7	1.7	0.59	1.5	0.21	0.57	0.15
25	2.2	7.4	113	3.4	33	1.6	1.6	0.53	49	0.14	0.48	0.15
26	2.0	5.6	17	2.8	9.9	1.4	1.5	0.54	4.1	0.16	0.37	0.14
27	20	4.9	7.3	2.6	4.9	1.5	9.3	0.65	0.67	5.2	0.42	0.14
28	19	4.1	5.2	2.5	3.4	1.5	1.9	0.61	3.0	9.5	0.50	0.13
29	4.0	3.5	3.8	2.1	---	1.7	1.4	0.62	0.51	0.78	0.39	0.15
30	5.2	5.7	3.1	2.0	---	1.5	1.3	0.59	1.4	0.89	0.20	0.13
31	3.0	---	7.7	1.9	---	1.5	---	0.82	---	0.47	1.6	---
<b>Total</b>	229.72	1,042.8	262.5	368.3	261.2	602.7	181.2	36.56	82.65	33.30	10.49	15.01
<b>Mean</b>	7.41	34.8	8.47	11.9	9.33	19.4	6.04	1.18	2.75	1.07	0.34	0.50
<b>Max</b>	98	420	113	99	73	331	72	8.2	49	9.5	1.6	5.1
<b>Min</b>	0.73	1.7	1.1	1.9	2.0	1.4	1.1	0.53	0.30	0.10	0.07	0.05
<b>Cfsm</b>	1.10	5.16	1.26	1.77	1.39	2.89	0.90	0.18	0.41	0.16	0.05	0.07
<b>In.</b>	1.27	5.76	1.45	2.04	1.44	3.33	1.00	0.20	0.46	0.18	0.06	0.08

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	4.97	7.17	7.61	7.43	7.87	13.2	8.30	6.17	5.75	6.42	6.12	5.45
<b>Max</b>	15.4	34.8	20.2	14.2	12.8	34.6	36.5	42.1	16.3	28.6	23.3	15.3
<b>(WY)</b>	(2000)	(2007)	(2006)	(1999)	(2000)	(2003)	(2003)	(2003)	(2003)	(1998)	(2006)	(2006)
<b>Min</b>	0.81	1.16	1.61	1.67	3.15	2.17	2.26	0.93	0.76	1.07	0.28	0.49
<b>(WY)</b>	(2001)	(2004)	(2002)	(2004)	(2006)	(2006)	(2001)	(2000)	(2002)	(2007)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1998 - 2007	
<b>Annual total</b>	3,861.02		3,126.43			
<b>Annual mean</b>	10.6		8.57		7.10	
<b>Highest annual mean</b>					17.6	2003
<b>Lowest annual mean</b>					3.40	2002
<b>Highest daily mean</b>	456	Aug 31	420	Nov 22	519	Mar 20, 2003
<b>Lowest daily mean</b>	0.16	May 30	0.05	Sep 8	0.05	Aug 20, 2001
<b>Annual seven-day minimum</b>	0.20	May 26	0.06	Sep 7	0.06	Sep 7, 2007
<b>Maximum peak flow</b>			1,300	Mar 2	2,450	Jul 27, 1998
<b>Maximum peak stage</b>			9.06	Mar 2	11.44	Jul 27, 1998
<b>Instantaneous low flow</b>			<sup>a</sup> 0.02	Aug 13	<sup>a</sup> 0.02	Aug 13, 2007
<b>Annual runoff (cfsm)</b>	1.57		1.27		1.05	
<b>Annual runoff (inches)</b>	21.34		17.28		14.33	
<b>10 percent exceeds</b>	15		14		12	
<b>50 percent exceeds</b>	1.9		1.8		1.4	
<b>90 percent exceeds</b>	0.51		0.19		0.36	

<sup>a</sup> See Remarks.

