



Water-Data Report 2010

**0212430653 MCKEE CREEK AT SECONDARY ROAD 2804 NEAR WILGROVE, NC**

Upper Pee Dee Basin  
Rocky Subbasin

LOCATION.--Lat 35°15'14", long 80°38'53" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03040105, on right bank at Secondary Road 2804, 3.3 mi northeast of Wilgrove.

DRAINAGE AREA.--5.76 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 2007 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 597.09 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. No flow also occurred September 8 to October 19, 2007. Maximum discharge for period of record and current year from rating extended above 1000 ft<sup>3</sup>/s, based on contracted opening measurement of peak flow.

REVISIONS.--The maximum discharge for the 2008 and 2009 water years have been revised, as shown in the following table. These figures supercede those published in reports for water years 2008 and 2009.

Water year	Date	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
2008	August 27, 2008	1510	9.94
2009	July 29, 2009	722	7.40

## 0212430653 MCKEE CREEK AT SECONDARY ROAD 2804 NEAR WILGROVE, NC—Continued

**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	0.16	21	2.7	3.9	6.2	3.4	4.1	1.6	120	9.8	1.8	0.34
2	0.16	0.61	53	3.3	20	4.7	3.6	1.6	17	3.6	1.3	0.32
3	0.14	0.25	21	3.0	18	6.8	3.3	2.0	6.1	1.9	7.5	0.31
4	0.08	0.20	6.2	2.8	10	4.6	3.0	2.2	3.5	1.3	3.0	0.28
5	0.79	0.18	4.4	2.7	174	3.9	2.9	1.5	2.5	1.0	80	0.29
6	0.34	0.19	3.0	2.5	36	3.6	2.8	0.95	2.4	0.89	24	0.29
7	0.21	0.23	2.5	2.5	12	3.5	2.8	0.86	2.1	0.84	13	0.29
8	0.19	0.22	8.8	2.5	8.0	3.4	3.1	0.68	1.3	0.78	3.5	0.31
9	0.17	0.25	66	2.4	7.1	3.3	3.4	0.55	1.2	0.80	2.4	0.33
10	0.19	19	9.6	2.3	6.1	3.3	2.9	0.46	1.1	0.73	1.8	0.32
11	0.18	198	5.1	2.4	5.2	4.2	2.9	1.1	1.0	0.64	1.4	0.41
12	0.27	119	3.7	2.5	4.9	17	2.9	1.1	0.93	108	1.2	0.62
13	0.30	12	4.6	2.4	5.9	24	2.7	0.89	1.9	11	1.1	0.53
14	0.30	5.0	3.6	2.4	5.1	8.8	2.2	0.84	1.4	3.6	1.1	0.47
15	0.44	3.3	3.1	2.4	7.7	5.8	2.1	0.85	0.87	1.9	1.2	0.42
16	0.32	2.5	2.6	2.5	5.5	4.7	1.6	2.1	0.95	8.0	1.0	0.40
17	0.24	2.7	2.4	51	4.5	4.2	1.5	6.7	0.83	11	0.92	0.40
18	0.20	3.0	15	9.5	4.1	4.0	1.6	2.1	0.74	6.0	0.81	0.42
19	0.17	2.8	22	5.6	3.8	3.7	1.4	0.93	0.66	2.7	19	0.41
20	0.19	2.5	6.3	4.4	5.0	3.5	1.6	0.63	0.62	1.6	2.2	0.39
21	0.21	2.3	4.0	19	5.3	4.0	1.9	0.56	0.56	1.4	1.1	0.36
22	0.20	2.9	3.2	15	10	4.6	1.7	0.65	0.53	1.3	0.87	0.36
23	0.17	18	2.7	7.2	6.0	3.6	1.7	0.53	0.56	1.0	0.78	0.35
24	0.70	5.0	2.6	25	6.1	3.3	1.9	0.48	0.59	1.1	0.67	0.31
25	0.41	3.4	152	221	5.4	3.3	4.1	0.59	0.55	1.2	0.63	0.31
26	0.28	3.2	21	14	4.6	3.2	2.0	0.56	0.81	0.99	0.60	1.0
27	5.9	3.0	8.2	8.1	4.0	2.8	3.5	0.42	0.67	92	0.53	3.7
28	3.6	2.7	5.9	5.8	3.6	5.3	2.8	14	0.63	17	0.43	0.67
29	0.17	2.5	4.3	4.8	---	36	1.9	13	0.42	4.0	0.39	3.3
30	0.13	3.0	3.7	5.6	---	8.2	1.7	1.3	216	2.2	0.37	7.6
31	0.30	---	6.0	6.0	---	5.0	---	39	---	1.8	0.35	---
<b>Total</b>	17.11	438.93	459.2	444.5	394.1	199.7	75.6	100.73	388.42	300.07	174.95	25.51
<b>Mean</b>	0.55	14.6	14.8	14.3	14.1	6.44	2.52	3.25	12.9	9.68	5.64	0.85
<b>Max</b>	5.9	198	152	221	174	36	4.1	39	216	108	80	7.6
<b>Min</b>	0.08	0.18	2.4	2.3	3.6	2.8	1.4	0.42	0.42	0.64	0.35	0.28
<b>Cfsm</b>	0.10	2.54	2.57	2.49	2.44	1.12	0.44	0.56	2.25	1.68	0.98	0.15
<b>In.</b>	0.11	2.83	2.97	2.87	2.55	1.29	0.49	0.65	2.51	1.94	1.13	0.16

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.85	5.51	7.63	6.71	6.56	7.81	2.96	2.97	5.89	4.33	3.35	0.89
<b>Max</b>	1.13	14.6	14.8	14.3	14.1	11.4	3.90	5.00	12.9	9.68	6.71	2.27
<b>(WY)</b>	(2009)	(2010)	(2010)	(2010)	(2010)	(2009)	(2008)	(2009)	(2010)	(2010)	(2008)	(2008)
<b>Min</b>	0.55	0.26	2.12	1.39	2.69	5.53	2.47	0.66	0.84	0.73	0.30	0.05
<b>(WY)</b>	(2010)	(2008)	(2008)	(2008)	(2008)	(2008)	(2009)	(2008)	(2008)	(2007)	(2007)	(2007)

0212430653 MCKEE CREEK AT SECONDARY ROAD 2804 NEAR WILGROVE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2007 - 2010	
<b>Annual total</b>	1,999.22		3,018.82			
<b>Annual mean</b>	5.48		8.27		4.48	
<b>Highest annual mean</b>					8.27	2010
<b>Lowest annual mean</b>					0.31	2007
<b>Highest daily mean</b>	198	Nov 11	221	Jan 25	221	Jan 25, 2010
<b>Lowest daily mean</b>	0.08	Oct 4	0.08	Oct 4	0.00	Sep 7, 2007
<b>Annual seven-day minimum</b>	0.16	Sep 28	0.20	Oct 17	0.00	Sep 7, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 1,100	Jun 30	<sup>a</sup> 1,510	Aug 27, 2008
<b>Maximum peak stage</b>			8.75	Jun 30	9.94	Aug 27, 2008
<b>Instantaneous low flow</b>			0.06	Oct 4	<sup>a</sup> 0.00	Sep 7, 2007
<b>Annual runoff (cfsm)</b>	0.951		1.44		0.778	
<b>Annual runoff (inches)</b>	12.91		19.50		10.58	
<b>10 percent exceeds</b>	8.9		13		6.6	
<b>50 percent exceeds</b>	1.7		2.5		1.2	
<b>90 percent exceeds</b>	0.24		0.31		0.22	

<sup>a</sup> See Remarks.

