

Water-Data Report 2009

**02124080 CLARKE CREEK NEAR HARRISBURG, NC**

Upper Pee Dee Basin  
Rocky Subbasin

LOCATION.--Lat 35°24'51", long 80°45'07" referenced to North American Datum of 1983, Cabarrus County, NC, Hydrologic Unit 03040105, on left wingwall on upstream side of bridge on Secondary Road 1449, 3.0 mi upstream from mouth, and 8.5 mi northwest of Harrisburg.

DRAINAGE AREA.--21.9 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 608.30 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year and period of record is affected by withdrawal from golf course upstream. Minimum discharge for period of record also occurred August 23-25, September 8, 11, 28, 30, 2007. Minimum discharge for current water year also occurred August 12.

## 02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

**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	5.4	1.4	23	8.5	5.4	416	21	5.6	4.3	1.8	8.4	5.2
2	3.7	1.7	8.9	8.1	5.4	333	21	5.3	4.0	2.3	9.2	4.9
3	3.4	1.8	5.3	7.8	8.9	101	20	5.2	4.0	2.1	3.9	4.4
4	3.0	2.3	5.6	14	6.4	46	16	5.2	7.5	1.5	2.7	4.2
5	2.9	2.7	4.5	11	5.3	36	16	6.8	433	2.0	1.8	3.9
6	2.9	2.9	3.5	278	5.3	27	14	5.9	123	1.6	7.2	4.3
7	2.8	2.7	3.4	225	5.3	23	12	6.1	33	1.2	2.9	3.8
8	5.6	2.2	3.1	68	5.0	21	11	5.6	17	1.1	2.2	3.2
9	16	2.5	3.0	29	5.1	17	10	6.6	10	2.5	1.5	3.8
10	5.4	2.7	8.9	22	4.8	15	57	8.0	8.3	2.7	1.7	12
11	4.1	2.5	212	19	4.7	14	250	7.8	9.5	2.0	0.62	5.9
12	3.4	2.3	207	16	5.3	12	46	6.2	8.0	1.6	0.61	4.2
13	3.2	2.7	42	15	4.7	11	26	5.6	6.2	3.3	1.3	3.7
14	3.0	5.1	22	13	5.2	30	27	5.4	7.6	1.7	1.4	2.6
15	2.9	44	20	11	5.1	116	20	5.3	5.6	1.6	1.3	2.2
16	2.7	6.0	16	9.6	7.3	65	16	6.4	5.5	1.5	1.1	4.0
17	2.9	4.4	14	8.9	5.7	35	14	6.9	17	0.91	1.2	5.7
18	5.1	3.7	12	9.5	39	24	13	5.7	8.6	0.54	1.2	8.7
19	3.1	3.3	11	9.6	65	20	10	4.4	6.5	0.93	0.92	6.1
20	2.7	3.3	10	8.8	19	24	19	4.1	5.5	0.67	0.86	9.6
21	2.6	3.0	40	7.5	14	17	12	3.9	4.8	1.4	0.90	5.8
22	2.6	2.7	19	7.2	12	16	9.6	3.7	4.1	1.9	0.89	4.8
23	2.4	2.9	14	7.2	9.9	15	8.6	3.5	3.6	6.2	1.5	4.9
24	2.5	3.2	12	7.5	9.4	14	8.1	5.8	3.3	3.4	1.9	3.4
25	4.1	4.9	15	6.6	9.3	14	7.1	28	2.7	1.3	3.9	1.5
26	3.3	3.7	13	6.4	8.4	17	6.4	9.3	2.6	0.96	4.5	2.8
27	2.6	5.4	13	6.3	10	33	6.2	5.9	2.3	1.2	4.0	4.3
28	2.5	4.1	13	8.2	77	110	6.0	16	e2.2	1.1	8.6	1.9
29	2.5	3.3	12	8.6	---	121	5.7	17	e2.0	5.4	11	1.7
30	2.1	43	13	6.2	---	34	5.4	9.5	e1.9	6.5	1.9	1.4
31	1.4	---	11	5.6	---	24	---	5.3	---	3.5	4.6	---
<b>Total</b>	112.8	176.4	810.2	869.1	367.9	1,801	714.1	226.0	753.6	66.41	95.70	134.9
<b>Mean</b>	3.64	5.88	26.1	28.0	13.1	58.1	23.8	7.29	25.1	2.14	3.09	4.50
<b>Max</b>	16	44	212	278	77	416	250	28	433	6.5	11	12
<b>Min</b>	1.4	1.4	3.0	5.6	4.7	11	5.4	3.5	1.9	0.54	0.61	1.4
<b>Cfsm</b>	0.17	0.27	1.19	1.28	0.60	2.65	1.09	0.33	1.15	0.10	0.14	0.21
<b>In.</b>	0.19	0.30	1.38	1.48	0.62	3.06	1.21	0.38	1.28	0.11	0.16	0.23

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5.05	12.5	18.4	18.2	16.8	32.7	16.4	4.55	9.10	3.41	13.9	17.9
<b>Max</b>	7.64	44.9	28.0	37.0	26.2	58.1	23.8	7.41	25.1	5.65	69.8	62.6
<b>(WY)</b>	(2006)	(2007)	(2006)	(2007)	(2007)	(2009)	(2009)	(2008)	(2009)	(2004)	(2008)	(2004)
<b>Min</b>	1.40	1.13	7.02	4.98	10.8	9.34	8.05	2.33	1.84	1.07	1.41	0.46
<b>(WY)</b>	(2008)	(2008)	(2008)	(2004)	(2008)	(2006)	(2006)	(2006)	(2008)	(2006)	(2007)	(2007)

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2003 - 2009	
<b>Annual total</b>	6,208.06		6,128.11			
<b>Annual mean</b>	17.0		16.8		14.3	
<b>Highest annual mean</b>					18.0	2007
<b>Lowest annual mean</b>					10.9	2006
<b>Highest daily mean</b>	1,750	Aug 27	433	Jun 5	1,750	Aug 27, 2008
<b>Lowest daily mean</b>	0.15	Aug 23	0.54	Jul 18	0.00	Aug 23, 2007
<b>Annual seven-day minimum</b>	0.34	Aug 18	1.0	Aug 16	0.01	Oct 11, 2007
<b>Maximum peak flow</b>			837	Jun 5	4,760	Aug 27, 2008
<b>Maximum peak stage</b>			8.99	Jun 5	14.14	Aug 27, 2008
<b>Instantaneous low flow</b>			<sup>a</sup> 0.17	Jul 21	<sup>a</sup> 0.00	Aug 22, 2007
<b>Annual runoff (cfsm)</b>	0.775		0.767		0.653	
<b>Annual runoff (inches)</b>	10.55		10.41		8.88	
<b>10 percent exceeds</b>	24		25		23	
<b>50 percent exceeds</b>	4.3		5.6		5.3	
<b>90 percent exceeds</b>	0.94		1.7		0.83	

<sup>a</sup> See Remarks.

