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Water-Data Report 2008

**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 station.

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 October 2-7, 10-24.

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**DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008  
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.02	0.53	1.4	10	92	5.0	11	6.0	3.1	1.3	2.4	9.6
2	0.08	0.73	4.2	e4.5	40	4.4	7.5	4.4	2.4	e1.3	1.3	6.3
3	0.10	0.65	2.2	e3.1	18	3.7	8.2	3.4	2.6	e1.3	2.1	6.5
4	0.10	0.87	0.78	2.8	12	38	20	3.2	2.3	4.3	1.2	8.8
5	0.00	0.80	0.76	2.6	9.4	114	115	3.0	1.8	6.0	0.90	8.0
6	0.04	0.75	0.81	2.3	6.8	27	62	2.5	1.5	8.5	0.74	7.1
7	0.09	0.62	0.76	2.2	5.1	52	28	2.0	1.4	2.2	0.62	6.8
8	0.14	0.85	0.50	2.1	4.3	e60	19	1.8	1.3	3.9	0.30	5.4
9	0.12	0.92	0.47	2.0	3.7	e33	15	12	1.4	6.9	0.32	6.3
10	0.05	2.0	0.68	4.4	3.3	e28	12	9.6	1.1	5.6	0.24	185
11	0.00	3.0	0.76	6.0	3.8	13	10	10	1.0	6.1	0.40	318
12	0.00	2.7	0.87	3.3	3.3	9.8	11	9.0	1.0	2.6	0.22	54
13	0.05	2.4	0.93	2.5	8.0	8.5	9.8	4.5	1.0	1.9	0.45	19
14	0.01	2.5	0.66	2.2	9.2	7.1	8.6	3.7	0.94	1.6	0.74	11
15	0.00	3.6	1.9	2.1	5.6	66	7.1	3.2	1.0	1.2	0.57	8.1
16	0.00	2.1	15	2.0	4.4	81	5.5	4.2	0.93	0.98	0.34	31
17	0.04	0.53	2.0	36	3.4	25	5.0	3.1	0.68	1.0	0.41	19
18	0.06	0.36	1.3	25	5.4	17	4.7	23	0.65	0.95	0.87	12
19	0.08	0.52	1.2	14	3.5	26	4.4	20	0.70	0.74	0.37	9.6
20	0.02	0.46	0.84	15	3.3	41	4.3	22	0.46	0.77	0.40	8.6
21	0.00	0.43	2.1	6.9	3.1	19	3.9	21	0.38	0.56	0.23	7.3
22	0.00	0.45	2.0	5.0	4.5	15	3.8	7.5	0.64	0.72	0.17	6.2
23	0.15	0.84	5.9	5.7	4.1	11	3.6	5.1	13	2.9	0.15	5.6
24	0.30	1.4	4.9	5.3	3.5	9.0	3.4	4.1	1.7	0.65	0.17	5.2
25	15	0.64	2.2	4.3	3.1	7.6	3.1	3.5	2.0	0.64	12	4.8
26	19	0.84	20	3.9	19	6.8	3.0	3.1	1.9	0.73	168	14
27	4.0	0.82	5.7	3.9	19	6.0	5.4	2.8	1.3	0.74	1,750	29
28	1.1	0.61	9.9	3.5	8.2	5.8	40	12	1.9	0.59	147	12
29	1.0	0.42	26	3.0	5.6	7.6	25	11	2.2	13	39	8.0
30	0.85	0.45	56	2.9	---	6.2	9.1	5.2	2.8	2.6	18	6.2
31	0.94	---	45	2.7	---	9.5	---	3.9	---	3.3	13	---
<b>Total</b>	43.34	33.79	217.72	191.2	314.6	763.0	468.4	229.8	55.08	85.57	2,162.61	838.4
<b>Mean</b>	1.40	1.13	7.02	6.17	10.8	24.6	15.6	7.41	1.84	2.76	69.8	27.9
<b>Max</b>	19	3.6	56	36	92	114	115	23	13	13	1,750	318
<b>Min</b>	0.00	0.36	0.47	2.0	3.1	3.7	3.0	1.8	0.38	0.56	0.15	4.8
<b>Cfsm</b>	0.06	0.05	0.32	0.28	0.50	1.12	0.71	0.34	0.08	0.13	3.19	1.28
<b>In.</b>	0.07	0.06	0.37	0.32	0.53	1.30	0.80	0.39	0.09	0.15	3.67	1.42

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5.34	13.8	16.9	16.2	17.5	27.7	14.9	4.00	5.89	3.67	15.7	20.1
<b>Max</b>	7.64	44.9	28.0	37.0	26.2	52.0	20.7	7.41	14.9	5.65	69.8	62.6
<b>(WY)</b>	(2006)	(2007)	(2006)	(2007)	(2007)	(2007)	(2005)	(2008)	(2005)	(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)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2003 - 2008	
<b>Annual total</b>	4,814.07		5,403.51			
<b>Annual mean</b>	13.2		14.8		13.8	
<b>Highest annual mean</b>					18.0	2007
<b>Lowest annual mean</b>					10.9	2006
<b>Highest daily mean</b>	948	Mar 2	1,750	Aug 27	1,750	Aug 27, 2008
<b>Lowest daily mean</b>	0.00	Aug 23	0.00	Oct 5	0.00	Aug 23, 2007
<b>Annual seven-day minimum</b>	0.01	Oct 11	0.01	Oct 11	0.01	Oct 11, 2007
<b>Maximum peak flow</b>			4,760 Aug 27		4,760 Aug 27, 2008	
<b>Maximum peak stage</b>			14.14 Aug 27		14.14 Aug 27, 2008	
<b>Instantaneous low flow</b>			0.00 Oct 1		0.00 Aug 22, 2007	
<b>Annual runoff (cfsm)</b>	0.602		0.674		0.631	
<b>Annual runoff (inches)</b>	8.18		9.18		8.57	
<b>10 percent exceeds</b>	22		20		22	
<b>50 percent exceeds</b>	2.5		3.3		5.1	
<b>90 percent exceeds</b>	0.13		0.39		0.72	

<sup>a</sup>See Remarks.

