

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 mi².

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.

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

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	---
Total	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
Mean	1.40	1.13	7.02	6.17	10.8	24.6	15.6	7.41	1.84	2.76	69.8	27.9
Max	19	3.6	56	36	92	114	115	23	13	13	1,750	318
Min	0.00	0.36	0.47	2.0	3.1	3.7	3.0	1.8	0.38	0.56	0.15	4.8
Cfsm	0.06	0.05	0.32	0.28	0.50	1.12	0.71	0.34	0.08	0.13	3.19	1.28
In.	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
Mean	5.34	13.8	16.9	16.2	17.5	27.7	14.9	4.00	5.89	3.67	15.7	20.1
Max	7.64	44.9	28.0	37.0	26.2	52.0	20.7	7.41	14.9	5.65	69.8	62.6
(WY)	(2006)	(2007)	(2006)	(2007)	(2007)	(2007)	(2005)	(2008)	(2005)	(2004)	(2008)	(2004)
Min	1.40	1.13	7.02	4.98	10.8	9.34	8.05	2.33	1.84	1.07	1.41	0.46
(WY)	(2008)	(2008)	(2008)	(2004)	(2008)	(2006)	(2006)	(2006)	(2008)	(2006)	(2007)	(2007)

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS

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

^aSee Remarks.