

Water-Data Report 2010

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. Satellite 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.

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.5	62	11	20	23	13	30	5.1	108	5.9	5.3	1.8
2	1.8	9.4	152	17	70	14	24	4.7	21	2.6	2.8	1.2
3	1.5	4.6	157	16	108	18	19	5.9	14	1.6	2.6	1.4
4	e1.6	3.3	37	14	64	14	16	5.6	9.4	1.7	2.7	1.6
5	e1.8	2.5	23	12	532	12	15	4.9	7.1	1.9	11	1.5
6	e1.8	2.3	17	11	330	11	13	4.8	6.6	1.3	21	1.3
7	e1.8	2.2	15	11	72	11	11	4.3	7.2	0.62	4.5	1.6
8	e1.6	2.2	16	11	39	11	11	3.3	4.7	0.87	3.1	2.1
9	e1.6	2.1	271	9.6	32	11	12	2.7	3.8	1.6	2.6	2.3
10	e1.7	19	67	9.1	29	10	9.7	2.6	6.1	4.6	2.4	2.3
11	e1.6	391	29	9.2	22	11	8.8	3.4	5.8	1.7	2.1	2.8
12	e1.8	134	22	9.3	20	27	10	3.5	3.8	40	1.9	2.6
13	e2.3	44	24	8.7	23	202	14	3.2	5.2	19	1.6	1.1
14	e2.4	24	22	8.7	20	59	9.6	3.1	13	35	1.7	0.90
15	2.0	17	e19	8.5	24	31	9.2	3.5	10	7.2	10	1.1
16	1.8	13	e16	8.6	20	22	8.3	9.9	4.6	5.2	5.6	1.1
17	1.8	11	14	243	17	19	7.0	91	3.9	21	3.0	0.94
18	1.7	10	20	61	15	17	6.5	36	3.3	17	2.8	0.96
19	1.5	11	98	28	14	15	6.2	16	2.4	10	236	1.3
20	1.6	9.0	55	22	13	13	5.5	9.3	2.2	6.6	59	1.5
21	1.6	8.1	30	e19	13	13	6.1	7.0	2.1	3.3	14	1.5
22	1.6	7.6	23	e39	26	22	5.6	7.0	1.8	2.5	8.0	0.89
23	1.6	36	19	27	20	15	5.5	5.3	1.3	2.6	5.5	0.28
24	5.1	19	16	74	23	13	5.0	5.1	1.9	1.7	4.5	0.33
25	2.9	14	373	641	e23	12	14	5.8	2.1	0.98	4.3	0.60
26	1.7	15	184	87	17	12	6.0	4.8	1.6	0.85	3.9	1.2
27	7.3	27	52	37	15	11	8.4	3.7	1.1	15	3.4	12
28	37	13	29	27	14	58	17	15	1.7	12	3.2	25
29	4.5	11	22	23	---	465	6.4	14	1.3	4.6	3.0	15
30	2.8	10	20	26	---	96	5.5	5.7	11	2.9	2.7	22
31	2.3	---	24	22	---	43	---	39	---	2.8	2.5	---
Total	103.6	934.3	1,877	1,559.7	1,638	1,301	325.3	335.2	268.0	234.62	436.7	110.20
Mean	3.34	31.1	60.5	50.3	58.5	42.0	10.8	10.8	8.93	7.57	14.1	3.67
Max	37	391	373	641	532	465	30	91	108	40	236	25
Min	1.5	2.1	11	8.5	13	10	5.0	2.6	1.1	0.62	1.6	0.28
Cfsm	0.15	1.42	2.76	2.30	2.67	1.92	0.50	0.49	0.41	0.35	0.64	0.17
In.	0.18	1.59	3.19	2.65	2.78	2.21	0.55	0.57	0.46	0.40	0.74	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.81	15.1	24.5	22.8	22.7	34.1	15.6	5.44	9.07	4.01	14.0	16.1
Max	7.64	44.9	60.5	50.3	58.5	58.1	23.8	10.8	25.1	7.57	69.8	62.6
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2009)	(2010)	(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 2009		Water Year 2010		Water Years 2003 - 2010	
Annual total	7,943.61		9,123.62			
Annual mean	21.8		25.0		15.8	
Highest annual mean					25.0	2010
Lowest annual mean					10.9	2006
Highest daily mean	433	Jun 5	641	Jan 25	1,750	Aug 27, 2008
Lowest daily mean	0.54	Jul 18	0.28	Sep 23	0.00	Aug 23, 2007
Annual seven-day minimum	1.0	Aug 16	0.90	Sep 20	0.01	Oct 11, 2007
Maximum peak flow			1,560	Jan 25	4,760	Aug 27, 2008
Maximum peak stage			10.54	Jan 25	14.14	Aug 27, 2008
Instantaneous low flow			^a 0.22	Sep 26	^a 0.00	Aug 22, 2007
Annual runoff (cfsm)	0.994		1.14		0.723	
Annual runoff (inches)	13.49		15.50		9.82	
10 percent exceeds	35		39		25	
50 percent exceeds	6.5		9.3		5.5	
90 percent exceeds	1.6		1.6		0.92	

^a See Remarks.

