

Water-Data Report 2010

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°12'30", long 80°34'48" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03040105, on right bank at wingwall on Secondary Road 3181, 4.25 mi northeast of Mint Hill.

DRAINAGE AREA.--12.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 558.29 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. No flow also occurred September 11-15, 24-30, October 2-25, 2007.

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, 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	0.34	22	5.5	8.3	12	8.1	7.4	2.8	28	14	4.7	1.7
2	0.30	1.9	167	7.3	34	8.8	7.2	3.0	8.5	3.6	3.4	1.7
3	0.30	1.2	84	6.6	49	13	6.8	2.9	5.2	2.4	13	1.6
4	0.27	1.0	16	6.2	26	10	6.4	3.0	3.2	2.1	5.9	1.5
5	0.49	0.95	10	6.1	584	8.6	6.2	2.7	2.7	1.9	114	1.5
6	0.77	0.97	7.5	5.9	120	7.9	6.0	2.5	2.4	1.8	62	1.5
7	0.60	0.97	6.5	5.9	31	7.6	5.7	2.3	2.6	1.7	41	1.5
8	0.54	0.97	7.6	5.9	18	7.5	5.5	2.2	2.0	1.6	8.0	1.4
9	0.50	0.97	259	5.5	15	7.2	6.0	2.0	2.0	1.6	5.5	1.3
10	0.50	23	29	5.4	13	7.2	5.0	1.9	2.0	1.6	4.5	1.2
11	0.51	472	13	5.3	11	7.5	4.8	2.1	1.9	1.5	4.0	1.1
12	0.50	266	9.1	5.5	11	21	4.6	2.4	1.8	353	3.9	1.2
13	0.62	27	11	5.3	12	77	4.4	2.2	2.0	31	3.8	1.2
14	0.61	11	9.0	5.3	11	26	4.4	2.0	3.2	7.6	3.5	1.1
15	0.66	7.5	8.0	5.2	15	16	4.2	2.0	1.7	3.9	12	1.0
16	0.67	6.0	7.0	5.1	13	12	4.2	2.0	1.8	7.1	4.3	1.2
17	0.64	5.2	7.5	146	11	11	4.0	6.2	1.4	8.7	3.7	1.2
18	0.58	4.9	29	25	9.5	10	3.8	7.3	1.3	7.2	3.4	0.95
19	0.48	4.9	63	13	9.0	9.5	3.6	3.2	1.2	3.9	50	0.88
20	0.46	4.5	16	10	8.3	8.5	3.5	2.8	1.1	3.1	16	0.88
21	0.49	4.4	9.7	37	8.0	8.3	3.8	2.5	0.96	2.7	4.7	0.85
22	0.47	4.4	7.8	41	18	11	3.5	2.6	0.88	2.9	3.3	0.85
23	0.46	32	6.8	17	13	8.7	3.3	2.4	0.86	2.6	2.9	0.85
24	0.51	12	6.2	25	14	7.9	3.3	2.2	0.86	2.5	2.7	0.80
25	0.77	7.7	446	585	13	7.5	4.7	2.4	0.71	3.2	2.6	0.78
26	0.60	6.8	59	33	10	7.5	3.5	2.3	0.72	2.2	2.5	1.1
27	2.1	5.9	18	16	9.5	6.9	3.3	2.1	0.75	167	2.3	4.5
28	10	5.5	11	12	8.7	7.3	4.3	4.4	0.78	82	2.1	2.8
29	1.2	5.1	8.5	10	---	19	3.2	10	0.67	7.3	2.0	3.0
30	0.91	5.3	7.3	12	---	9.8	2.9	3.0	248	4.3	1.9	14
31	0.88	---	11	10	---	8.0	---	21	---	3.7	1.7	---
Total	28.73	952.03	1,356.0	1,086.8	1,107.0	386.3	139.5	112.4	331.19	739.7	395.3	55.14
Mean	0.93	31.7	43.7	35.1	39.5	12.5	4.65	3.63	11.0	23.9	12.8	1.84
Max	10	472	446	585	584	77	7.4	21	248	353	114	14
Min	0.27	0.95	5.5	5.1	8.0	6.9	2.9	1.9	0.67	1.5	1.7	0.78
Cfsm	0.07	2.52	3.47	2.78	3.14	0.99	0.37	0.29	0.88	1.89	1.01	0.15
In.	0.08	2.81	4.00	3.21	3.27	1.14	0.41	0.33	0.98	2.18	1.17	0.16

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	4.25	14.3	15.7	11.2	14.2	20.1	13.6	7.89	12.3	10.4	6.22	5.72
Max	8.22	54.3	43.7	35.1	39.5	41.9	58.7	39.2	56.9	23.9	12.8	29.2
(WY)	(2005)	(2007)	(2010)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2010)	(2010)	(2004)
Min	0.54	0.24	4.16	3.31	4.66	4.61	3.76	1.69	1.71	1.63	0.38	0.07
(WY)	(2008)	(2008)	(2008)	(2008)	(2009)	(2006)	(2006)	(2004)	(2008)	(2006)	(2007)	(2007)

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2003 - 2010	
Annual total	4,832.37		6,690.09			
Annual mean	13.2		18.3		11.3	
Highest annual mean					25.0	2003
Lowest annual mean					5.00	2008
Highest daily mean	472	Nov 11	585	Jan 25	950	Nov 22, 2006
Lowest daily mean	0.20	Sep 6	0.27	Oct 4	0.00	Sep 10, 2007
Annual seven-day minimum	0.28	Sep 3	0.44	Oct 1	0.00	Sep 24, 2007
Maximum peak flow			1,780	Jan 25	2,160	Sep 28, 2004
Maximum peak stage			9.63	Jan 25	10.92	Sep 28, 2004
Instantaneous low flow			0.24	Oct 4	^a 0.00	Sep 10, 2007
Annual runoff (cfsm)	1.05		1.45		0.896	
Annual runoff (inches)	14.27		19.75		12.17	
10 percent exceeds	13		25		15	
50 percent exceeds	3.5		4.7		3.8	
90 percent exceeds	0.44		0.86		0.73	

^a See Remarks.

