

Water-Data Report 2010

02142654 MCDOWELL CREEK NEAR HUNTERSVILLE, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°24'25", long 80°53'26" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on upstream left wingwall at Secondary Road 2136, 0.2 mi above Torrence Creek and 2.7 mi west of Huntersville.

DRAINAGE AREA.--10.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2006 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 659.47 ft above North American Vertical Datum of 1988. Radio telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred October 4, 9, 2007.

02142654 MCDOWELL CREEK NEAR HUNTERSVILLE, 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	1.8	133	5.1	8.1	18	7.3	12	5.5	19	3.2	5.8	2.6
2	1.7	11	304	7.5	62	11	12	3.8	5.2	2.5	2.7	2.6
3	1.3	4.4	56	6.8	50	14	9.6	7.2	11	2.0	3.7	2.1
4	1.5	3.0	13	6.4	24	9.1	7.9	4.1	4.7	2.9	3.0	2.1
5	3.7	2.8	7.8	6.2	735	8.6	8.1	3.7	3.6	2.0	115	2.1
6	2.1	2.6	6.2	6.2	154	7.9	8.4	4.2	4.1	2.6	38	2.4
7	1.5	2.0	5.3	6.1	22	8.0	7.6	3.7	8.3	2.3	17	1.8
8	1.6	2.0	16	6.2	15	8.0	14	4.7	3.7	1.8	5.0	2.1
9	1.7	1.9	326	5.7	34	6.1	17	3.8	3.4	8.8	3.7	2.3
10	1.9	40	23	5.6	23	6.0	8.5	4.3	18	12	3.0	1.8
11	1.5	667	10	6.2	16	11	5.8	4.6	9.1	2.7	2.9	2.8
12	6.1	72	7.6	5.5	12	71	5.1	5.3	4.1	111	2.7	2.2
13	3.9	17	14	5.5	17	209	5.0	3.5	18	27	3.3	2.5
14	7.6	9.7	8.3	5.2	13	30	5.5	3.3	44	19	2.0	2.0
15	4.6	5.8	6.9	5.1	15	14	4.5	5.0	14	5.7	7.0	1.9
16	2.8	5.0	6.5	5.0	11	e9.7	4.9	4.8	6.2	3.7	3.5	2.9
17	1.9	3.7	5.8	318	9.8	8.6	4.4	105	4.2	46	2.8	1.7
18	2.1	7.1	10	23	10	8.1	5.8	22	3.5	17	6.9	2.1
19	1.6	4.8	69	14	9.4	7.8	5.3	18	2.5	8.0	340	2.2
20	2.1	4.0	22	9.5	9.1	7.2	7.3	5.3	2.8	4.5	21	1.5
21	1.5	3.5	13	25	8.4	9.8	10	3.8	3.3	5.0	6.9	2.5
22	1.8	4.3	8.4	21	31	21	5.6	3.8	2.1	3.6	5.2	2.0
23	1.4	43	6.9	13	15	9.2	6.0	2.8	3.0	3.4	2.9	1.6
24	16	8.6	6.3	86	19	7.7	6.4	4.9	5.9	3.2	3.1	2.2
25	3.5	5.8	605	651	14	7.1	28	8.9	3.0	3.1	4.3	1.4
26	2.2	19	39	22	9.7	8.1	7.4	3.7	2.9	6.7	2.5	8.2
27	35	17	15	13	8.3	6.3	29	4.3	2.9	26	2.9	45
28	79	5.1	9.7	9.6	8.4	154	23	21	3.0	19	2.6	13
29	7.8	3.8	7.6	8.9	---	512	7.8	20	2.8	5.9	2.1	12
30	3.4	4.8	6.6	15	---	25	6.1	4.4	12	2.7	2.7	21
31	3.3	---	14	18	---	14	---	14	---	3.5	2.7	---
Total	207.9	1,113.7	1,654.0	1,344.3	1,373.1	1,236.6	288.0	313.4	230.3	366.8	626.9	152.6
Mean	6.71	37.1	53.4	43.4	49.0	39.9	9.60	10.1	7.68	11.8	20.2	5.09
Max	79	667	605	651	735	512	29	105	44	111	340	45
Min	1.3	1.9	5.1	5.0	8.3	6.0	4.4	2.8	2.1	1.8	2.0	1.4
Cfsm	0.66	3.64	5.23	4.25	4.81	3.91	0.94	0.99	0.75	1.16	1.98	0.50
In.	0.76	4.06	6.03	4.90	5.01	4.51	1.05	1.14	0.84	1.34	2.29	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.26	20.0	23.8	19.6	19.4	31.8	12.0	8.11	10.3	7.82	16.8	8.97
Max	12.6	37.1	53.4	43.4	49.0	41.4	17.6	12.5	20.9	11.8	50.3	21.8
(WY)	(2007)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2009)	(2010)	(2008)	(2006)
Min	1.86	1.23	4.66	3.49	5.66	9.60	9.60	5.03	4.87	4.21	2.81	1.24
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2010)	(2006)	(2007)	(2006)	(2007)	(2007)

02142654 MCDOWELL CREEK NEAR HUNTERSVILLE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2006 - 2010	
Annual total	7,056.0		8,907.6			
Annual mean	19.3		24.4		15.5	
Highest annual mean					24.4	2010
Lowest annual mean					10.3	2008
Highest daily mean	667	Nov 11	735	Feb 5	1,230	Aug 27, 2008
Lowest daily mean	1.3	Oct 3	1.3	Oct 3	0.40	Oct 3, 2007
Annual seven-day minimum	1.7	Sep 3	1.8	Oct 17	0.53	Oct 3, 2007
Maximum peak flow			1,810	Jan 25	2,760	Aug 27, 2008
Maximum peak stage			11.34	Jan 25	14.14	Aug 27, 2008
Instantaneous low flow			1.1	Oct 4	^a 0.37	Oct 3, 2007
Annual runoff (cfsm)	1.90		2.39		1.52	
Annual runoff (inches)	25.73		32.49		20.62	
10 percent exceeds	28		28		21	
50 percent exceeds	5.8		6.2		5.1	
90 percent exceeds	2.0		2.1		1.8	

^a See Remarks.

