

Water-Data Report 2008

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 station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record and current water year also occurred October 4, 9, 2007.

02142654 MCDOWELL CREEK NEAR HUNTERSVILLE, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.68	1.1	1.6	5.0	56	2.6	7.5	4.4	2.5	5.5	7.2	2.2
2	0.73	1.1	1.1	3.3	7.3	2.6	5.0	3.6	5.2	4.2	9.8	3.5
3	0.40	0.84	1.1	2.6	3.9	2.3	8.3	3.1	3.3	2.8	7.3	2.3
4	0.57	0.93	1.3	2.8	2.7	50	16	3.0	3.5	2.9	4.0	2.7
5	0.51	0.91	1.1	2.6	2.9	34	60	3.4	2.2	5.1	2.2	2.6
6	0.89	0.84	1.4	2.0	2.2	6.6	24	2.7	2.0	22	2.8	1.8
7	0.44	1.2	1.3	2.0	2.0	45	8.4	2.6	2.8	6.7	1.7	2.7
8	0.46	0.82	1.1	1.9	1.9	14	6.1	3.4	2.0	8.4	2.2	2.6
9	0.47	0.92	1.1	2.3	2.3	6.1	5.3	19	3.0	7.4	1.4	3.7
10	1.0	0.98	1.2	2.5	1.8	4.8	5.6	13	1.8	42	1.4	76
11	0.57	1.3	1.5	4.7	1.9	4.5	4.8	28	2.3	14	2.1	36
12	1.2	0.98	1.0	2.4	2.1	3.8	4.8	15	2.0	6.0	1.9	8.0
13	0.87	1.4	1.1	2.5	8.7	3.4	4.8	5.9	1.7	3.2	2.1	4.1
14	1.0	0.86	1.0	1.9	7.2	3.3	4.2	5.2	4.2	3.4	1.9	4.2
15	1.2	2.4	1.8	1.9	3.1	23	4.2	3.7	4.9	3.0	1.7	2.5
16	0.87	1.2	10	1.9	2.6	10	4.0	9.0	2.6	2.8	1.4	64
17	0.72	1.4	1.7	24	2.4	4.8	4.2	5.4	1.5	2.8	2.4	14
18	0.75	0.94	1.4	6.9	6.2	4.4	4.3	22	2.2	2.3	1.4	7.6
19	1.5	0.92	1.4	4.9	2.7	12	4.8	12	1.5	1.6	2.0	4.0
20	1.0	0.94	1.3	4.5	2.3	11	4.2	8.2	2.3	2.3	2.3	3.1
21	1.4	1.8	2.5	3.1	2.7	5.3	4.5	4.5	2.3	1.6	1.2	3.7
22	0.78	2.0	1.6	2.7	3.1	4.2	4.2	3.8	1.6	29	1.8	2.6
23	1.0	1.1	5.8	2.9	2.5	3.7	4.3	3.1	23	50	1.2	3.7
24	2.2	0.97	2.6	2.4	2.2	4.0	4.4	2.5	4.0	6.5	1.9	3.0
25	16	1.0	1.5	2.1	2.2	3.9	4.2	2.4	2.2	3.1	17	3.5
26	13	2.6	10	2.2	17	3.3	3.6	3.1	2.7	2.9	193	26
27	2.8	2.1	2.7	2.4	6.5	3.2	24	2.5	3.6	2.3	1,230	33
28	1.2	1.1	10	1.9	3.2	4.1	35	26	4.5	3.5	37	9.6
29	1.3	1.2	7.3	2.0	2.6	6.6	8.7	11	47	35	10	4.8
30	1.0	1.0	50	2.2	---	4.4	4.8	4.0	34	46	4.1	3.7
31	1.0	---	16	1.8	---	6.8	---	3.9	---	18	3.9	---
Total	57.51	36.85	144.5	108.3	164.2	297.7	288.2	239.4	178.4	346.3	1,560.3	341.2
Mean	1.86	1.23	4.66	3.49	5.66	9.60	9.61	7.72	5.95	11.2	50.3	11.4
Max	16	2.6	50	24	56	50	60	28	47	50	1,230	76
Min	0.40	0.82	1.0	1.8	1.8	2.3	3.6	2.4	1.5	1.6	1.2	1.8
Cfs/m	0.18	0.12	0.46	0.34	0.56	0.94	0.94	0.76	0.58	1.10	4.93	1.12
In.	0.21	0.13	0.53	0.39	0.60	1.09	1.05	0.87	0.65	1.26	5.69	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.22	15.4	7.57	9.77	9.89	23.0	10.3	5.98	7.69	6.87	19.6	11.5
Max	12.6	29.5	10.5	16.0	14.3	36.4	11.1	7.72	12.2	11.2	50.3	21.8
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2008)	(2006)	(2008)	(2008)	(2006)
Min	1.86	1.23	4.66	3.49	5.66	9.60	9.61	5.03	4.87	4.21	2.81	1.24
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2006)	(2007)	(2006)	(2007)	(2007)

02142654 MCDOWELL CREEK NEAR HUNTERVILLE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2006 - 2008	
Annual total	3,190.04		3,762.86			
Annual mean	8.74		10.3		11.4	
Highest annual mean					12.5	
Lowest annual mean					10.3	
Highest daily mean	671	Mar 2	1,230	Aug 27	1,230	Aug 27, 2008
Lowest daily mean	0.40	Oct 3	0.40	Oct 3	0.40	Oct 3, 2007
Annual seven-day minimum	0.53	Oct 3	0.53	Oct 3	0.53	Oct 3, 2007
Maximum peak flow			2,760	Aug 27	2,760	Aug 27, 2008
Maximum peak stage			14.14	Aug 27	14.14	Aug 27, 2008
Instantaneous low flow			^a 0.37	Oct 3	^a 0.37	Oct 3, 2007
Annual runoff (cfs)	0.857		1.01		1.12	
Annual runoff (inches)	11.63		13.72		15.15	
10 percent exceeds	10		16		15	
50 percent exceeds	4.1		2.8		4.3	
90 percent exceeds	0.99		1.0		1.2	

^aSee Remarks.