

Water-Data Report 2007

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 miles above Torrence Creek and 2.7 miles west of Huntersville, NC.

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 September 29, 2007.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.7	5.3	6.4	17	14	178	7.6	5.3	3.8	9.0	2.5	2.3
2	2.9	5.6	5.8	8.9	14	671	7.4	5.2	4.4	3.5	2.5	1.9
3	2.8	5.4	6.1	7.6	8.9	17	6.5	5.2	13	3.2	1.7	2.0
4	2.7	5.2	6.0	6.8	8.2	10	6.6	5.9	5.9	3.4	2.8	1.8
5	2.5	6.2	6.9	15	8.2	8.7	6.6	6.7	4.9	3.1	1.8	1.4
6	3.0	5.9	6.7	18	8.4	8.9	6.5	7.5	3.9	2.8	1.9	1.4
7	3.0	23	6.2	64	7.7	8.0	6.8	6.4	4.3	2.0	2.1	1.6
8	5.0	32	5.8	139	7.3	7.5	6.1	6.1	6.7	3.0	1.7	1.4
9	3.7	8.9	5.9	15	7.7	7.6	6.8	5.6	8.1	7.4	2.3	0.78
10	3.2	6.7	5.5	10	7.8	7.9	5.9	5.3	4.2	26	1.5	1.3
11	7.4	7.1	5.8	8.6	7.0	7.3	10	5.3	3.9	9.7	1.7	1.2
12	51	28	5.9	7.6	7.7	6.9	22	7.8	4.1	3.1	2.3	1.0
13	10	7.7	5.8	6.9	47	7.8	6.6	6.0	2.9	3.3	1.4	1.1
14	7.8	6.9	5.4	7.0	71	7.3	7.5	4.1	4.5	2.3	2.7	2.1
15	8.4	8.9	5.6	6.5	11	7.7	105	5.1	4.0	3.0	1.3	1.4
16	7.8	307	5.2	7.1	8.7	67	13	4.5	3.9	2.8	2.6	1.2
17	132	15	6.2	7.0	8.1	12	7.7	5.8	3.9	2.8	1.9	1.2
18	29	9.9	5.9	9.3	7.6	7.5	6.4	4.8	3.6	22	2.4	0.85
19	9.2	7.9	6.0	8.7	6.9	6.6	7.5	4.4	3.1	7.0	2.0	1.4
20	13	7.2	6.4	7.8	7.0	5.9	13	4.1	2.9	6.8	1.9	1.1
21	7.3	21	6.3	18	7.4	6.2	6.0	5.0	3.3	4.1	2.5	1.0
22	6.6	280	22	32	6.2	6.0	6.1	4.4	2.5	2.8	2.4	1.2
23	5.9	20	10	10	6.5	5.4	5.3	4.4	2.6	2.7	2.0	1.1
24	6.4	11	7.4	8.4	6.0	5.9	5.8	5.1	4.6	2.7	1.7	0.79
25	5.9	9.1	102	8.4	66	6.4	6.0	3.7	15	2.5	2.2	0.73
26	5.6	7.7	16	7.4	16	6.0	6.1	4.7	4.0	2.4	2.1	1.3
27	11	7.5	9.8	7.2	8.8	6.1	14	4.3	3.6	2.3	1.7	0.90
28	16	6.7	8.4	7.4	8.2	6.3	5.9	4.7	3.5	2.4	1.7	0.77
29	7.0	6.5	7.3	6.6	---	6.5	6.0	4.6	4.3	2.2	2.2	0.50
30	5.9	6.4	7.3	7.0	---	7.1	5.9	4.0	6.7	7.7	19	0.46
31	5.5	---	8.6	7.0	---	6.5	---	4.6	---	4.1	8.6	---
Total	390.2	885.7	324.6	497.2	399.3	1,129.0	332.6	160.6	146.1	162.1	87.1	37.18
Mean	12.6	29.5	10.5	16.0	14.3	36.4	11.1	5.18	4.87	5.23	2.81	1.24
Max	132	307	102	139	71	671	105	7.8	15	26	19	2.3
Min	2.5	5.2	5.2	6.5	6.0	5.4	5.3	3.7	2.5	2.0	1.3	0.46
Cfsm	1.23	2.89	1.03	1.57	1.40	3.57	1.09	0.51	0.48	0.51	0.28	0.12
In.	1.42	3.23	1.18	1.81	1.46	4.12	1.21	0.59	0.53	0.59	0.32	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.6	29.5	10.5	16.0	14.3	36.4	11.1	5.10	8.56	4.72	4.17	11.5
Max	12.6	29.5	10.5	16.0	14.3	36.4	11.1	5.18	12.2	5.23	5.53	21.8
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2007)	(2006)	(2006)
Min	12.6	29.5	10.5	16.0	14.3	36.4	11.1	5.03	4.87	4.21	2.81	1.24
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2007)	(2006)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2006 - 2007	
Annual total			4,551.68			
Annual mean			12.5		12.5	
Highest annual mean					12.5 2007	
Lowest annual mean					12.5 2007	
Highest daily mean	307	Nov 16	671	Mar 2	671	Mar 2, 2007
Lowest daily mean	2.1	Sep 26	0.46	Sep 30	0.46	Sep 30, 2007
Annual seven-day minimum	2.7	Sep 24	0.78	Sep 24	0.78	Sep 24, 2007
Maximum peak flow			1,770		1,770	
Maximum peak stage			10.93		10.93	
Instantaneous low flow			a0.44		a0.44	
Annual runoff (cfsm)			1.22		1.22	
Annual runoff (inches)			16.60		16.61	
10 percent exceeds			15		15	
50 percent exceeds			6.1		6.1	
90 percent exceeds			1.9		1.9	

^a See Remarks.

