

SANTEE RIVER BASIN

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'23", long 80°55'16", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050101, on right bank at downstream side of bridge on Secondary Road 2074, 2.1 mi downstream of Torrence Creek, 2.8 mi south of Hicks Crossroads, 12.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.-26.3-mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1996 to current year. Streamflow data for November 1996 to September 1997 previously published in U.S. Geological Survey Open-File Report 98-67.

GAGE.--Water-stage recorder. Datum of gage is 644.87 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred July 9, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.5	3.1	2.5	12	9.0	34	5.0	24	2.1	4.0	8.5
2	e4.6	3.0	3.0	2.9	9.6	88	13	5.0	16	1.8	3.6	4.2
3	4.7	3.6	3.0	3.8	9.5	105	11	5.2	7.6	3.4	3.7	3.5
4	4.3	3.1	3.1	4.6	9.8	33	11	16	8.2	2.5	4.0	3.1
5	4.0	2.8	3.9	3.3	9.9	19	10	7.2	8.0	1.9	3.7	2.8
6	4.5	3.1	4.1	4.7	10	16	e9.0	5.6	67	1.6	3.7	2.8
7	4.3	2.7	2.9	9.9	87	15	e8.9	5.2	78	1.6	3.3	2.6
8	3.6	3.0	2.9	4.8	84	13	e8.7	5.2	6.7	1.3	3.2	2.4
9	3.8	2.9	3.1	4.0	23	12	8.9	5.1	4.2	1.4	2.9	2.4
10	4.0	2.8	3.0	3.4	22	13	8.4	5.0	3.4	1.5	2.9	2.6
11	3.7	2.9	3.5	3.2	16	11	7.9	7.2	3.1	1.5	3.0	2.5
12	3.8	2.7	5.3	3.2	11	45	8.4	5.2	3.0	1.6	2.8	2.1
13	3.6	2.9	5.1	3.9	12	95	8.8	4.0	2.8	1.5	2.8	2.3
14	6.9	2.6	4.2	2.9	11	36	7.6	18	2.6	5.1	2.5	16
15	5.0	3.0	3.7	3.0	11	21	7.6	7.2	2.7	5.4	3.0	58
16	3.5	2.7	3.1	2.7	11	17	7.5	5.8	2.5	3.3	24	38
17	4.0	2.8	7.5	2.6	10	107	7.3	5.6	2.4	2.5	25	70
18	3.8	2.7	34	2.8	10	51	6.7	10	2.3	2.2	6.0	7.4
19	3.9	2.8	5.2	10.2	9.7	23	7.0	6.2	2.4	2.1	4.2	5.3
20	4.4	2.9	3.5	78	9.9	19	6.5	6.1	2.1	1.9	3.7	5.0
21	3.8	4.0	3.3	43	9.8	48	6.6	5.9	2.2	1.5	3.2	3.5
22	3.7	2.9	3.0	21	9.3	21	6.2	7.0	2.2	1.7	2.9	3.5
23	3.7	3.0	2.9	281	8.9	15	6.4	5.7	2.1	1.5	3.0	3.1
24	3.5	9.7	3.9	62	9.1	13	5.9	5.1	2.1	7.2	2.8	3.1
25	6.2	2.9	3.0	75	8.9	12	6.3	5.2	1.9	7.5	3.4	2.8
26	3.4	2.9	2.9	26	10	16	6.5	4.3	2.1	4.3	2.9	34
27	2.8	3.6	2.8	19	9.3	20	5.5	5.1	24	26	3.0	17
28	2.9	2.9	2.7	e18	9.1	12	5.7	5.1	30	6.5	3.8	6.8
29	3.2	2.9	3.0	e13	---	11	5.5	5.9	3.5	5.3	3.0	4.0
30	6.0	3.1	2.6	12	---	13	5.4	4.9	2.6	4.4	3.5	3.5
31	4.9	---	2.6	12	---	17	---	21	---	4.3	2.1	---
TOTAL	129.1	96.4	198.4	872.5	462.8	946.0	258.2	295.1	321.7	333.3	164.5	322.8
MEAN	4.165	3.213	6.400	28.15	16.53	30.52	8.607	9.519	10.72	10.75	5.306	10.76
MAX	6.9	9.7	35	281	87	107	34	49	78	75	25	70
MIN	2.8	2.6	2.6	2.5	8.9	9.0	5.4	4.3	1.9	1.3	2.5	2.1
CFSM	0.16	0.12	0.24	1.07	0.63	1.16	0.33	0.36	0.41	0.41	0.20	0.41
IN.	0.18	0.14	0.28	1.23	0.65	1.34	0.37	0.42	0.46	0.47	0.23	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	12.87	12.89	19.53	36.42	36.66	35.38	21.40	15.04	10.16	13.40	6.373	12.88
MEAN	12.87	12.89	19.53	36.42	36.66	35.38	21.40	15.04	10.16	13.40	6.373	12.88
MAX	36.3	40.7	48.9	94.0	73.3	49.2	37.9	27.4	15.0	27.9	12.3	24.0
(WY)	1998	1998	1998	1998	1998	2001	1997	1997	2001	1997	2000	1997
MIN	3.63	3.21	6.40	10.2	15.4	12.1	8.61	8.96	5.20	4.68	2.50	5.35
(WY)	2001	2002	2002	2001	2001	1999	2002	1999	2000	1999	1999	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1997 - 2002

ANNUAL TOTAL	4643.5	4400.8	
ANNUAL MEAN	12.72	12.06	17.82
HIGHEST ANNUAL MEAN			35.8
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	394	Mar 30	477
LOWEST DAILY MEAN	2.6	Aug 23	0.59
ANNUAL SEVEN-DAY MINIMUM	2.8	Nov 12	0.99
MAXIMUM PEAK FLOW			548
MAXIMUM PEAK STAGE			9.07
INSTANTANEOUS LOW FLOW			1.0*
ANNUAL RUNOFF (CFSM)	0.48		0.46
ANNUAL RUNOFF (INCHES)	6.57		6.22
10 PERCENT EXCEEDS	22		26
50 PERCENT EXCEEDS	5.7		4.6
90 PERCENT EXCEEDS	2.9		2.5

e Estimated.
* See REMARKS.

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued

