

SANTEE RIVER BASIN

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'22", long 80°55'16", 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 sea level, North American Vertical Datum of 1988. Radio telemetry at site.

REMARKS.--Records poor. Minimum discharge for current water year also occurred Aug. 23, 28, Sept. 1, 16, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.4	5.2	6.9	7.3	9.8	41	5.7	41	5.2	3.6	2.7
2	4.0	3.8	5.1	6.3	7.0	9.2	18	6.9	19	4.6	3.7	2.9
3	3.6	4.3	5.3	6.5	6.5	12	20	6.0	10	5.2	3.2	40
4	3.3	4.1	5.2	6.5	6.5	59	16	5.3	8.0	16	3.9	47
5	3.3	4.4	5.4	6.8	6.6	26	13	5.7	5.9	49	3.6	8.9
6	3.6	4.5	5.1	6.8	6.4	16	12	5.4	4.9	46	3.6	5.6
7	3.4	4.9	5.3	6.6	6.4	12	11	4.9	4.8	6.8	3.3	e4.5
8	3.3	4.5	5.4	16	6.4	9.7	11	4.6	5.2	6.3	3.3	3.6
9	3.2	10	5.3	8.9	6.3	8.7	10	4.8	5.0	5.9	3.5	3.4
10	3.4	7.0	5.2	7.2	8.3	8.1	10	4.7	4.6	4.6	4.9	3.5
11	3.4	4.9	5.7	7.1	6.3	7.7	9.4	5.2	4.6	4.6	8.3	3.4
12	3.3	4.6	6.3	9.4	8.7	8.2	9.0	4.9	4.0	3.6	6.0	3.1
13	e3.5	4.9	5.8	9.1	8.6	13	16	5.0	4.4	41	7.5	2.8
14	3.6	17	9.3	7.0	13	6.9	10	4.9	4.1	6.1	5.8	2.8
15	3.4	6.3	6.6	6.9	8.6	75	9.9	4.6	3.8	4.6	3.2	2.7
16	3.3	4.9	18	6.8	7.7	29	8.9	4.3	3.9	4.5	3.2	2.6
17	3.6	11	37	6.6	106	15	8.0	4.1	3.8	4.2	5.6	4.5
18	3.4	5.8	9.0	7.8	20	11	8.4	4.4	3.4	3.7	4.7	2.7
19	3.8	12	8.2	37	13	11	8.3	10	3.0	7.2	3.3	3.2
20	3.3	10	7.6	41	11	60	7.9	50	3.4	5.9	3.1	10
21	3.9	6.0	7.1	16	9.7	345	8.1	13	3.2	3.8	3.1	6.2
22	3.7	5.6	7.1	9.9	25	47	8.0	32	102	4.8	2.7	3.3
23	4.0	5.2	7.0	8.8	13	24	7.6	17	68	4.0	2.6	3.5
24	3.9	4.9	6.8	8.3	9.9	17	10	7.2	13	6.5	4.4	151
25	4.1	24	6.8	7.8	54	13	22	7.7	64	9.0	3.9	20
26	3.9	12	6.5	7.5	24	12	7.8	44	20	35	3.1	8.9
27	3.8	6.7	6.7	7.5	14	10	6.5	10	14	6.7	3.1	6.3
28	3.6	5.9	6.9	7.2	11	8.1	6.1	23	7.3	5.2	2.6	4.8
29	4.1	5.4	6.7	7.3	---	212	5.9	18	6.0	5.2	3.2	3.9
30	3.5	5.3	6.4	11	---	394	5.8	6.5	4.8	4.6	2.9	3.6
31	4.2	---	6.3	7.8	---	36	---	5.1	---	4.1	2.9	---
TOTAL	112.6	214.3	240.3	316.3	431.2	1525.4	345.6	334.9	449.1	323.9	121.8	371.4
MEAN	3.63	7.14	7.75	10.2	15.4	49.2	11.5	10.8	15.0	10.4	3.93	12.4
MAX	4.2	24	37	41	106	394	41	50	102	49	8.3	151
MIN	3.2	3.8	5.1	6.3	6.3	6.9	5.8	4.1	3.0	3.6	2.6	2.6
CFSM	.14	.27	.29	.39	.59	1.87	.44	.41	.57	.40	.15	.47
IN.	.16	.30	.34	.45	.61	2.16	.49	.47	.64	.46	.17	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	15.0	15.3	22.2	38.1	40.7
MAX	36.3	40.7	48.9	94.0	73.3
(WY)	1998	1998	1998	1998	2001
MIN	3.63	5.15	7.75	10.2	15.4
(WY)	2001	1999	2001	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	5895.4	4786.8	
ANNUAL MEAN	16.1	13.1	19.3
HIGHEST ANNUAL MEAN			35.8
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	283	Mar 20	394
LOWEST DAILY MEAN	2.7	Jun 22	2.6
ANNUAL SEVEN-DAY MINIMUM	3.1	Jun 12	2.9
MAXIMUM PEAK FLOW			900
MAXIMUM PEAK STAGE			10.73
INSTANTANEOUS LOW FLOW			2.0*
ANNUAL RUNOFF (CFSM)	.61		.50
ANNUAL RUNOFF (INCHES)	8.34		6.77
10 PERCENT EXCEEDS	26		21
50 PERCENT EXCEEDS	7.6		6.4
90 PERCENT EXCEEDS	3.9		3.4

e Estimated.
* See REMARKS.

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued

