

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'23", 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, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, and those below 20 ft³/s which are poor. Minimum discharge for current water year not determined and may have occurred during period of missing record.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	9.9	8.4	9.1	9.2	41	103	39	7.1	6.4	8.3	13
2	e10	9.8	8.2	8.8	10	27	24	32	6.2	5.9	25	7.9
3	10	9.6	8.3	8.8	84	19	18	27	6.9	5.5	e15	5.9
4	9.7	9.4	9.1	8.9	20	16	15	16	9.8	25	e11	5.3
5	9.5	11	15	29	16	15	15	11	7.7	39	8.3	5.0
6	9.1	11	9.8	19	194	15	13	11	6.7	21	7.2	7.2
7	9.4	9.6	8.4	11	131	13	13	10	6.2	7.2	6.2	70
8	20	9.6	9.4	10	34	13	12	9.9	6.4	5.4	5.5	275
9	25	9.2	9.2	12	25	13	12	11	6.3	4.3	5.4	71
10	11	9.0	64	11	22	12	12	21	5.9	4.0	e4.8	225
11	31	9.0	32	11	20	12	12	11	5.4	11	e4.8	36
12	13	9.0	13	9.9	88	12	51	9.5	5.3	100	76	e30
13	11	9.2	12	9.7	30	11	160	8.7	5.3	10	31	e28
14	11	8.6	167	9.5	21	11	50	9.5	59	9.3	e31	e26
15	19	8.8	28	9.3	27	13	26	9.7	38	8.9	e19	e23
16	9.8	8.9	18	9.0	31	19	22	8.6	14	7.9	e17	e20
17	9.4	8.9	30	8.8	19	13	20	8.9	7.3	15	e17	e120
18	9.3	8.9	18	15	20	13	17	8.5	8.7	72	e9.2	21
19	9.3	28	14	11	18	13	16	8.1	8.6	17	7.1	8.5
20	9.4	13	12	9.3	17	11	15	7.7	11	9.1	6.4	7.0
21	8.9	10	12	9.2	15	11	14	6.9	41	8.4	6.1	6.5
22	9.0	9.7	12	9.1	13	10	11	7.1	11	8.8	6.5	5.4
23	8.3	9.2	11	8.9	13	10	12	8.6	8.0	8.3	5.4	e4.6
24	8.8	9.2	11	8.9	13	10	12	8.8	10	7.3	4.5	e4.4
25	8.5	9.1	10	9.9	13	9.9	12	7.2	88	6.7	5.4	e25
26	9.1	8.9	9.9	10	15	9.9	15	6.1	79	7.4	5.1	e17
27	44	8.6	9.5	11	32	10	15	6.3	15	183	5.0	e47
28	15	9.2	9.6	13	44	9.9	11	5.6	13	18	4.7	444
29	30	8.9	9.3	14	52	10	11	5.6	9.2	122	4.7	e40
30	12	8.4	10	13	---	12	9.4	5.2	7.9	40	6.6	e21
31	9.8	---	8.9	10	---	64	---	14	---	13	67	---
TOTAL	420.3	301.6	607.0	347.1	1,046.2	478.7	748.4	359.5	513.9	806.8	436.2	1,619.7
MEAN	13.6	10.1	19.6	11.2	36.1	15.4	24.9	11.6	17.1	26.0	14.1	54.0
MAX	44	28	167	29	194	64	160	39	88	183	76	444
MIN	8.3	8.4	8.2	8.8	9.2	9.9	9.4	5.2	5.3	4.0	4.5	4.4
CFSM	0.52	0.38	0.74	0.43	1.37	0.59	0.95	0.44	0.65	0.99	0.54	2.05
IN.	0.59	0.43	0.86	0.49	1.48	0.68	1.06	0.51	0.73	1.14	0.62	2.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	14.9	16.6	25.5	31.5	38.7	41.7	38.4	28.4	18.4	18.6	8.85	19.3
MAX	36.3	41.6	66.9	94.0	73.3	106	154	125	69.0	42.7	18.5	54.0
(WY)	(1998)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	19,968.5		7,685.4		24.6	
ANNUAL MEAN	54.7		21.0		62.4	
HIGHEST ANNUAL MEAN					10.6	2003
LOWEST ANNUAL MEAN					10.6	1999
HIGHEST DAILY MEAN	1,270	Apr 10	444	Sep 28	1,270	Apr 10, 2003
LOWEST DAILY MEAN	5.8	Sep 17	4.0	Jul 10	0.59	Sep 25, 1999
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 15	5.0	Aug 23	0.99	Sep 20, 1999
MAXIMUM PEAK FLOW			1,250	Sep 8	2,690	May 22, 2003
MAXIMUM PEAK STAGE			11.81	Sep 8	13.55	May 22, 2003
INSTANTANEOUS LOW FLOW			NOT DETERMINED*		0.29	Sep 23, 1999
ANNUAL RUNOFF (CFSM)	2.08		0.798		0.937	
ANNUAL RUNOFF (INCHES)	28.24		10.87		12.73	
10 PERCENT EXCEEDS	97		38		44	
50 PERCENT EXCEEDS	17		11		9.5	
90 PERCENT EXCEEDS	8.9		6.4		3.3	

* See REMARKS.
e Estimated.

