

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'10", long 80°46'16", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year.

REVISED RECORDS.--WDR NC-2003-1B: 1998-2002.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 672.00 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 800 ft³/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year also occurred July 17.

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	1.6	0.89	1.1	1.8	1.3	14	8.3	5.0	0.71	2.2	1.1	0.61
2	1.4	0.77	1.1	1.4	1.4	7.7	1.6	13	0.44	0.88	1.6	0.50
3	1.2	e3.4	1.1	1.4	11	3.5	1.2	3.2	0.44	0.85	1.8	0.50
4	1.1	1.1	2.4	1.6	1.8	2.7	0.99	1.4	1.4	0.95	1.6	0.72
5	0.94	1.0	2.8	5.3	1.5	2.4	0.84	1.1	0.63	3.9	2.6	0.78
6	0.73	1.2	1.5	1.9	55	2.2	0.76	1.1	0.70	1.3	1.1	1.6
7	1.0	1.1	1.2	1.1	8.0	2.0	0.77	1.1	0.69	0.52	1.1	157
8	4.1	2.4	1.4	1.1	2.7	2.0	0.78	1.2	0.94	0.53	1.1	110
9	1.3	1.1	1.6	1.9	2.4	2.0	0.70	1.2	5.5	0.40	0.98	5.5
10	0.80	1.1	18	1.1	2.0	2.3	0.69	1.2	1.3	0.67	0.56	3.7
11	14	1.3	3.1	1.1	1.6	1.9	0.64	1.2	0.45	2.2	1.3	3.0
12	0.75	1.4	1.2	1.1	13	2.0	3.7	1.6	0.50	1.8	89	2.8
13	0.61	1.3	8.0	1.2	2.7	1.8	12	1.2	8.0	0.49	19	3.0
14	0.87	1.3	20	1.3	3.9	1.9	2.0	1.1	20	0.34	22	3.5
15	1.0	1.3	2.4	1.4	6.0	2.6	1.0	1.1	3.7	0.58	2.9	3.8
16	1.1	1.2	1.4	1.3	3.2	4.0	0.96	0.99	2.4	0.60	1.4	3.8
17	0.84	1.3	5.9	1.3	2.0	1.9	0.95	0.94	0.83	52	1.2	44
18	0.67	1.1	1.6	3.4	1.7	3.2	0.92	2.3	0.88	68	1.3	2.8
19	0.69	7.0	1.3	1.2	1.7	2.0	0.95	1.2	1.1	0.98	2.0	1.5
20	0.56	0.77	1.2	1.1	1.7	1.4	1.1	0.53	1.2	0.50	2.4	1.4
21	0.51	0.50	1.1	1.1	1.6	2.4	1.1	0.47	11	0.59	2.4	1.4
22	0.31	0.64	1.3	1.2	1.3	1.3	0.96	0.44	1.5	1.0	1.9	1.5
23	0.31	0.79	1.4	1.3	1.6	1.0	0.94	0.42	9.2	1.7	1.7	1.7
24	0.46	1.7	1.7	1.3	1.6	1.1	0.91	0.42	4.5	1.0	1.5	1.9
25	0.56	1.6	1.4	2.1	1.4	1.1	0.76	0.40	16	0.21	1.2	2.1
26	1.5	1.3	1.3	1.4	2.9	1.1	1.3	0.41	7.3	0.34	0.91	2.2
27	1.1	1.4	1.4	2.8	10	1.1	0.82	0.48	0.93	46	0.77	94
28	7.2	2.1	1.4	2.8	14	0.94	0.53	0.66	0.92	2.0	0.60	271
29	8.0	1.5	1.7	1.9	12	0.77	0.48	0.75	0.98	41	8.5	4.2
30	0.56	1.3	1.7	1.7	---	2.3	0.49	0.87	1.6	1.4	17	2.0
31	0.66	---	1.7	1.4	---	13	---	5.8	---	0.68	10	---
TOTAL	56.43	44.86	94.4	52.0	171.0	89.61	49.14	52.78	105.74	235.61	202.52	732.51
MEAN	1.82	1.50	3.05	1.68	5.90	2.89	1.64	1.70	3.52	7.60	6.53	24.4
MAX	14	7.0	20	5.3	55	14	12	13	20	68	89	271
MIN	0.31	0.50	1.1	1.1	1.3	0.77	0.48	0.40	0.44	0.21	0.56	0.50
CFSM	0.35	0.29	0.59	0.32	1.13	0.56	0.32	0.33	0.68	1.46	1.26	4.70
IN.	0.40	0.32	0.68	0.37	1.22	0.64	0.35	0.38	0.76	1.69	1.45	5.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	2.96	2.33	4.02	5.38	5.18	7.96	8.37	6.52	5.75	4.64	3.89	7.87
MAX	7.12	5.45	10.6	12.0	6.97	21.6	22.2	30.3	25.3	11.3	6.53	24.4
(WY)	(2000)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)
MIN	0.41	0.44	1.08	1.68	1.78	2.78	1.36	1.70	0.33	1.36	0.29	1.23
(WY)	(2001)	(2002)	(2002)	(2004)	(2002)	(1999)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	4,126.49		1,886.60		5.42	
ANNUAL MEAN	11.3		5.15		1.96	
HIGHEST ANNUAL MEAN					12.7	2003
LOWEST ANNUAL MEAN					1.96	2002
HIGHEST DAILY MEAN	386	May 22	271	Sep 28	386	May 22, 2003
LOWEST DAILY MEAN	0.31	Oct 22	0.21	Jul 25	0.00	Aug 17, 1999
ANNUAL SEVEN-DAY MINIMUM	0.49	Oct 19	0.43	May 21	0.00	Aug 4, 2002
MAXIMUM PEAK FLOW			1,440*	Sep 28	2,500*	Jun 7, 2003
MAXIMUM PEAK STAGE			6.04	Sep 28	7.44	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10*	Jul 15	0.00*	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	2.17		0.991		1.04	
ANNUAL RUNOFF (INCHES)	29.52		13.50		14.17	
10 PERCENT EXCEEDS	15		8.0		9.2	
50 PERCENT EXCEEDS	2.7		1.3		1.5	
90 PERCENT EXCEEDS	1.1		0.60		0.14	

* See REMARKS.

e Estimated.

