

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 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder 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 ft<sup>3</sup>/s by culvert computation of peak flow. No flow occurred most years.

REVISIONS.--Revised figures of discharge for the water years 1998-2002, superseding those published in the reports for 1998-2002 are given below.

DISCHARGE, CUBIC FEET PER SECOND  
FOR PERIOD APRIL TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e4.5	13	1.4	1.5	0.48	2.1
2	---	---	---	---	---	---	e3.0	4.9	1.3	0.61	0.32	2.4
3	---	---	---	---	---	---	e35	3.7	0.87	0.69	0.37	39
4	---	---	---	---	---	---	e42	3.2	2.6	0.91	0.33	39
5	---	---	---	---	---	---	e5.5	2.7	6.8	1.6	0.33	1.8
6	---	---	---	---	---	---	e4.0	2.5	1.6	1.4	0.31	0.89
7	---	---	---	---	---	---	e3.5	10	0.87	1.6	8.7	0.79
8	---	---	---	---	---	---	e3.5	2.9	0.89	1.2	6.5	0.79
9	---	---	---	---	---	---	181	2.2	1.3	1.2	1.7	0.66
10	---	---	---	---	---	---	7.2	2.8	8.6	0.84	12	0.61
11	---	---	---	---	---	---	5.1	5.9	1.7	0.75	0.30	0.52
12	---	---	---	---	---	---	3.8	1.8	1.00	0.74	0.26	0.45
13	---	---	---	---	---	---	3.4	1.6	0.83	0.91	58	0.41
14	---	---	---	---	---	---	5.1	1.5	0.83	0.80	4.1	0.56
15	---	---	---	---	---	---	2.3	1.4	0.83	0.66	19	0.72
16	---	---	---	---	---	---	2.0	1.3	0.70	2.7	5.6	0.82
17	---	---	---	---	---	---	39	0.98	0.75	4.6	6.9	0.85
18	---	---	---	---	---	---	7.9	0.82	0.72	0.48	1.7	0.59
19	---	---	---	---	---	---	36	0.81	1.8	0.50	1.3	0.49
20	---	---	---	---	---	---	6.3	0.98	0.76	19	1.4	0.49
21	---	---	---	---	---	---	1.2	1.5	1.1	4.5	1.4	4.6
22	---	---	---	---	---	---	53	1.5	1.5	0.58	1.4	2.2
23	---	---	---	---	---	---	47	1.2	13	0.58	5.2	0.67
24	---	---	---	---	---	---	10	1.0	0.61	0.51	1.3	0.77
25	---	---	---	---	---	---	6.1	1.1	0.92	0.93	0.85	0.67
26	---	---	---	---	---	---	4.4	0.87	0.99	1.1	1.9	0.58
27	---	---	---	---	---	---	7.2	1.7	0.55	25	2.5	0.50
28	---	---	---	---	---	---	4.1	0.76	0.81	1.0	3.0	0.42
29	---	---	---	---	---	---	3.2	0.76	26	0.46	4.2	0.46
30	---	---	---	---	---	---	19	7.7	5.4	0.44	2.5	4.0
31	---	---	---	---	---	---	---	1.9	---	2.7	2.2	---
TOTAL	---	---	---	---	---	---	555.3	84.98	87.03	80.49	156.05	108.81
MEAN	---	---	---	---	---	---	18.5	2.74	2.90	2.60	5.03	3.63
MAX	---	---	---	---	---	---	181	13	26	25	58	39
MIN	---	---	---	---	---	---	1.2	0.76	0.55	0.44	0.26	0.41
CFSM	---	---	---	---	---	---	3.56	0.53	0.56	0.50	0.97	0.70
IN.	---	---	---	---	---	---	3.97	0.61	0.62	0.58	1.12	0.78

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

MEAN	---	---	---	---	---	---	18.5	2.74	2.90	2.60	5.03	3.63
MAX	---	---	---	---	---	---	18.5	2.74	2.90	2.60	5.03	3.63
(WY)	---	---	---	---	---	---	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)
MIN	---	---	---	---	---	---	18.5	2.74	2.90	2.60	5.03	3.63
(WY)	---	---	---	---	---	---	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)

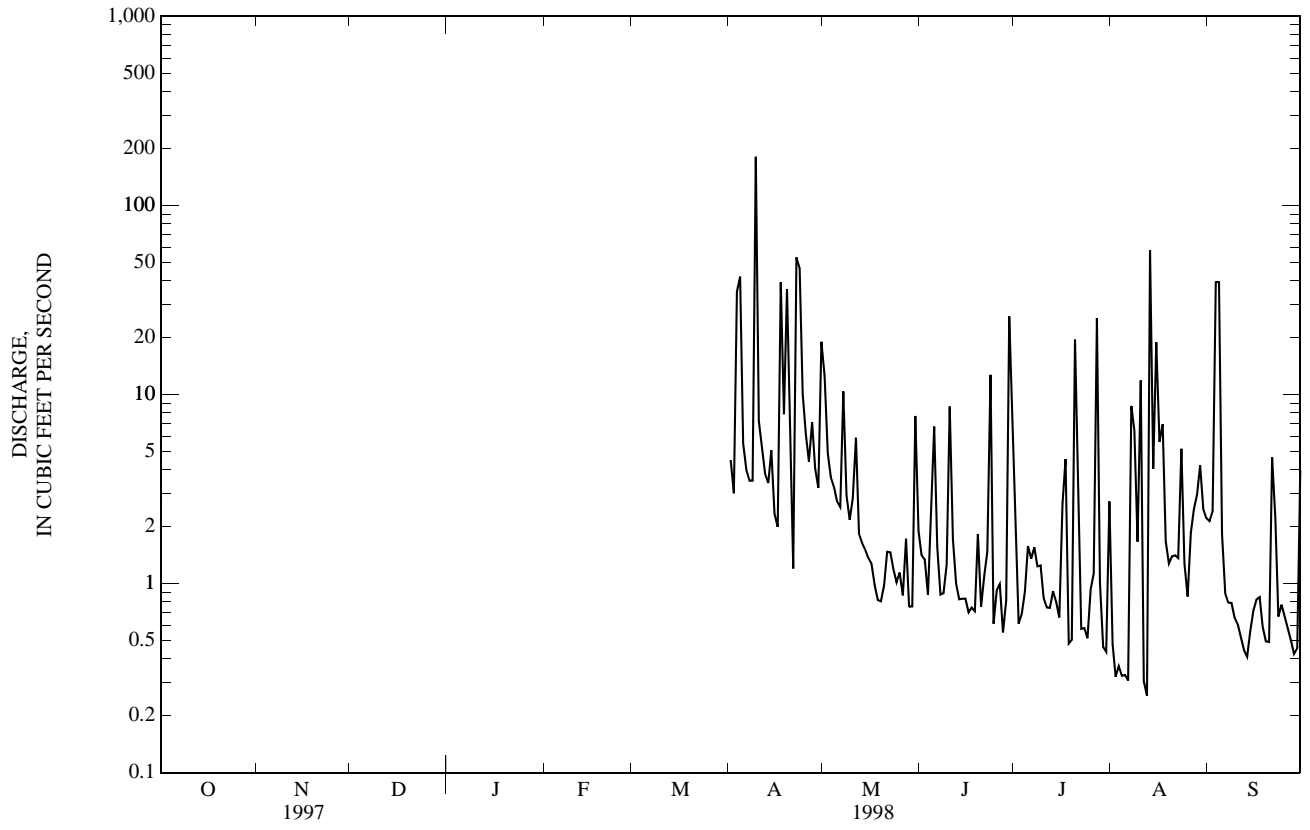
SUMMARY STATISTICS

FOR PERIOD  
APRIL TO SEPTEMBER 1998

HIGHEST DAILY MEAN	81	Apr 9
LOWEST DAILY MEAN	0.26	Aug 12
MAXIMUM PEAK FLOW	1,530*	Apr 9
MAXIMUM PEAK STAGE	6.18	Apr 9
INSTANTANEOUS LOW FLOW	0.13	Aug 8

e Estimated.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued



DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	0.31	1.2	1.8	25	2.6	17	4.0	0.64	0.77	0.27	0.01
2	1.8	3.3	1.2	5.2	13	2.3	3.4	2.1	0.69	0.62	0.24	0.05
3	2.3	15	0.95	49	4.3	5.3	2.4	1.7	0.69	0.80	0.24	0.09
4	7.2	0.70	0.64	3.1	3.6	2.6	2.3	1.7	0.60	0.90	0.23	0.00
5	8.2	0.56	0.59	1.8	2.6	2.5	2.1	2.3	0.59	0.96	0.20	11
6	1.9	0.49	0.75	1.5	2.4	2.7	2.1	2.3	0.50	23	0.24	0.70
7	2.8	0.52	0.64	1.4	2.2	2.4	2.1	2.0	0.44	3.2	0.64	0.23
8	9.6	0.60	0.62	1.7	2.1	2.4	2.4	1.9	0.42	0.67	0.17	0.19
9	0.40	0.56	0.79	1.3	2.4	6.8	2.3	1.9	0.41	0.58	0.54	2.9
10	0.39	0.56	0.70	0.96	2.5	2.7	2.0	2.1	2.9	1.2	0.24	0.52
11	0.38	0.75	0.94	1.0	2.8	2.2	2.3	2.0	1.7	1.7	0.21	0.09
12	0.39	0.53	0.88	1.4	2.6	2.1	2.3	2.0	0.53	7.2	0.15	0.12
13	0.39	0.43	10	0.72	2.5	2.1	2.3	2.7	0.53	5.5	0.10	0.04
14	0.37	4.6	1.6	0.62	2.5	9.5	2.1	2.1	0.49	1.1	0.03	0.00
15	0.24	7.1	7.6	6.2	2.5	4.1	2.9	1.8	4.5	0.68	0.03	9.3
16	0.25	5.1	17	0.94	2.4	2.2	1.3	2.0	14	0.63	0.02	6.0
17	0.25	2.8	2.9	28	2.5	2.1	1.1	2.1	3.3	0.96	0.00	0.16
18	0.23	1.5	3.8	13	21	2.0	1.4	3.1	0.59	0.85	0.00	0.13
19	0.28	1.7	2.6	3.1	23	1.8	1.4	9.7	0.58	0.68	0.00	0.09
20	0.25	1.8	1.9	2.2	13	1.8	1.2	0.62	1.8	0.58	6.6	0.08
21	0.30	1.9	2.1	1.8	5.6	9.6	0.97	0.58	1.3	0.47	2.0	0.71
22	0.38	1.8	3.2	1.7	3.8	2.0	1.2	0.61	0.88	0.43	0.10	2.1
23	0.43	1.8	13	156	3.2	1.7	0.93	0.67	0.89	0.35	0.04	0.12
24	0.38	2.3	46	62	2.8	1.6	0.95	0.74	1.2	8.4	2.8	0.01
25	0.34	2.4	12	8.9	2.7	2.9	0.98	0.92	6.4	0.79	2.6	0.00
26	0.33	3.2	3.5	4.2	2.6	1.9	1.4	3.3	16	0.28	0.42	0.00
27	0.35	2.0	2.2	3.2	2.6	1.2	27	0.29	4.3	0.25	0.40	3.7
28	0.38	1.8	2.0	2.7	3.2	0.87	10	0.32	1.8	0.21	0.27	19
29	0.37	1.8	4.6	2.4	---	0.77	8.5	0.40	12	9.9	0.40	23
30	0.31	1.7	2.1	2.2	---	0.66	60	0.52	2.0	0.68	0.46	4.1
31	0.30	---	1.8	1.7	---	0.71	---	0.55	---	1.9	0.17	---
TOTAL	43.09	69.61	149.80	371.74	161.4	86.11	168.33	59.02	82.67	76.24	19.81	84.44
MEAN	1.39	2.32	4.83	12.0	5.76	2.78	5.61	1.90	2.76	2.46	0.64	2.81
MAX	9.6	15	46	156	25	9.6	60	9.7	16	23	6.6	23
MIN	0.23	0.31	0.59	0.62	2.1	0.66	0.93	0.29	0.41	0.21	0.00	0.00
CFSM	0.27	0.45	0.93	2.31	1.11	0.53	1.08	0.37	0.53	0.47	0.12	0.54
IN.	0.31	0.50	1.07	2.66	1.15	0.62	1.20	0.42	0.59	0.55	0.14	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

MEAN	1.39	2.32	4.83	12.0	5.76	2.78	12.1	2.32	2.83	2.53	2.84	3.22
MAX	1.39	2.32	4.83	12.0	5.76	2.78	18.5	2.74	2.90	2.60	5.03	3.63
(WY)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)
MIN	1.39	2.32	4.83	12.0	5.76	2.78	5.61	1.90	2.76	2.46	0.64	2.81
(WY)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

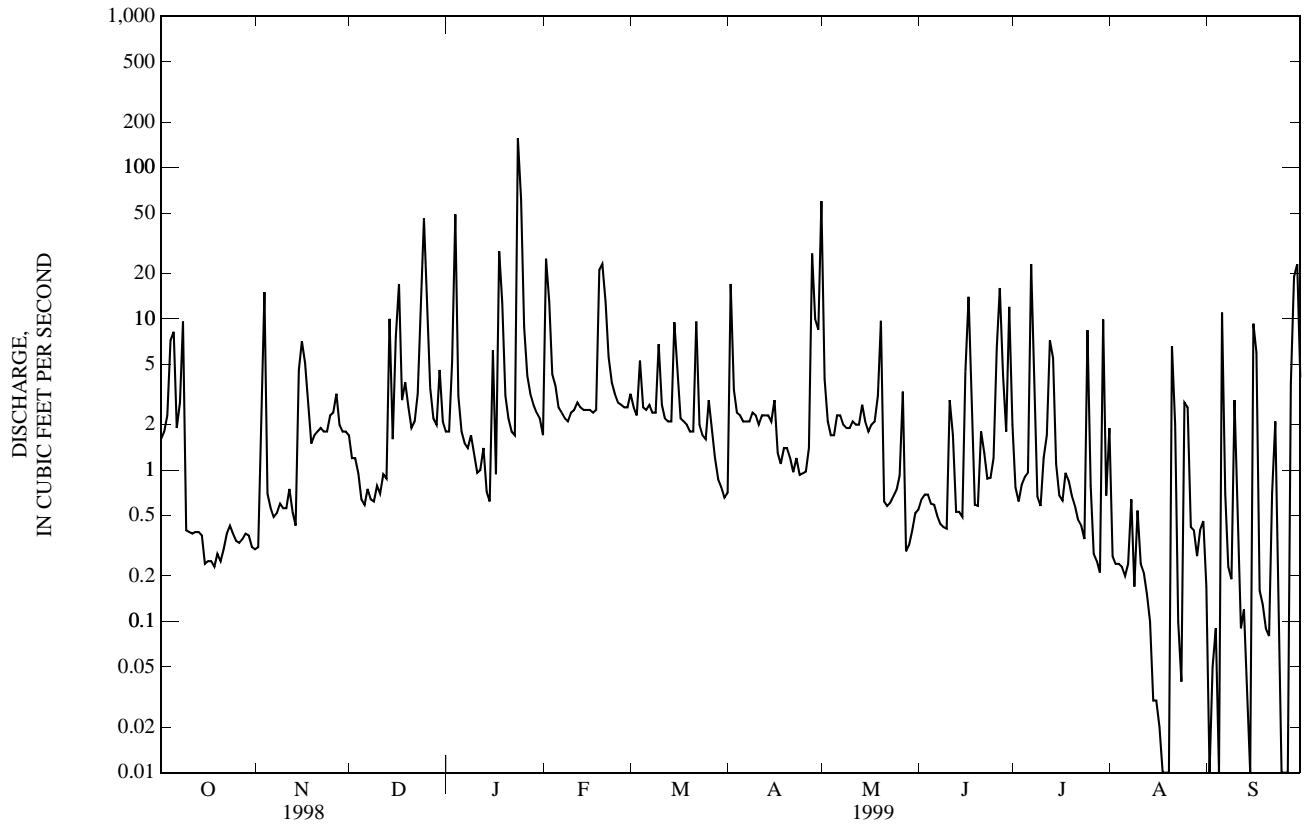
FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL							1,372.26					
ANNUAL MEAN							3.76				3.76	
HIGHEST ANNUAL MEAN											3.76	1999
LOWEST ANNUAL MEAN											3.76	1999
HIGHEST DAILY MEAN				181	Apr 9		156	Jan 23		181	Apr 9, 1998	
LOWEST DAILY MEAN				0.23	Oct 18		0.00	Aug 17		0.00	Aug 17, 1999	
ANNUAL SEVEN-DAY MINIMUM				0.26	Oct 15		0.03	Aug 13		0.03	Aug 13, 1999	
MAXIMUM PEAK FLOW							1,160*	Jan 23		1,530*	Apr 9, 1998	
MAXIMUM PEAK STAGE							5.52	Jan 23		6.18	Apr 9, 1998	
INSTANTANEOUS LOW FLOW							0.00*	Aug 17		0.00*	Aug 18, 1999	
ANNUAL RUNOFF (CFSM)							0.72			0.72		
ANNUAL RUNOFF (INCHES)							9.82			9.82		
10 PERCENT EXCEEDS							8.3			8.3		
50 PERCENT EXCEEDS							1.7			1.7		
90 PERCENT EXCEEDS							0.24			0.24		

\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued



DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.47	1.0	0.52	0.91	6.9	3.2	2.4	1.6	2.2	0.37	26	2.7
2	0.34	12	0.60	0.94	4.4	3.4	5.3	66	2.0	0.39	19	65
3	0.36	0.64	0.60	0.78	3.9	3.5	6.6	12	1.9	0.26	3.0	8.8
4	1.4	0.36	1.4	5.2	3.3	6.4	3.7	1.8	3.0	0.20	55	49
5	0.53	0.89	1.4	1.6	3.0	2.8	3.6	1.6	5.8	0.70	1.5	5.6
6	0.19	1.0	1.5	1.2	2.6	2.4	4.6	1.6	1.4	2.1	1.1	1.5
7	0.29	0.79	1.2	1.6	3.3	3.0	4.9	1.8	1.1	4.7	1.1	1.2
8	0.54	0.86	1.4	1.9	3.5	3.2	27	2.1	1.5	0.91	1.7	1.1
9	0.71	0.73	3.5	5.8	3.5	3.2	4.7	2.4	2.0	0.53	2.4	1.1
10	50	0.64	7.1	29	3.4	3.4	3.9	2.7	1.9	0.60	12	1.00
11	110	9.8	1.2	3.3	3.0	4.5	4.1	2.9	1.7	1.4	0.50	1.3
12	2.7	1.3	1.6	1.7	29	2.6	4.4	3.0	1.7	28	0.35	0.95
13	18	0.46	3.3	1.4	5.4	1.8	28	4.6	1.5	2.1	0.38	0.49
14	2.6	1.1	16	1.4	56	2.0	13	2.9	5.3	14	0.74	0.66
15	1.1	1.2	1.1	1.5	5.7	1.6	34	2.0	1.2	4.3	0.45	0.70
16	0.82	0.94	0.69	1.9	3.8	21	5.8	2.4	0.41	0.39	0.39	0.81
17	0.67	0.93	1.1	2.0	3.0	6.5	4.8	2.6	0.31	0.32	0.56	0.79
18	0.88	1.2	2.4	3.9	11	2.7	2.3	2.9	0.95	0.31	14	19
19	1.0	1.4	3.2	2.1	3.6	2.7	0.85	2.9	1.3	1.2	1.6	11
20	14	2.2	4.9	6.9	2.7	62	1.2	3.0	0.39	2.2	0.31	1.1
21	4.5	2.3	10	1.6	2.6	10	1.6	3.3	0.53	0.32	0.24	1.3
22	1.5	1.3	2.9	1.6	2.4	4.7	1.9	3.7	1.4	0.32	0.32	24
23	0.85	0.69	2.2	16	2.5	3.4	1.8	3.2	1.0	1.1	0.35	230
24	1.0	1.3	2.2	7.1	2.6	3.1	5.7	4.3	0.81	6.1	3.4	11
25	1.1	2.1	2.2	18	2.8	2.7	8.8	2.6	0.59	2.0	2.8	24
26	1.1	20	1.8	5.3	2.7	2.7	1.4	2.6	0.24	0.99	0.24	6.0
27	1.00	1.8	2.2	2.9	12	10	1.3	2.3	0.27	0.82	0.28	2.7
28	0.95	0.85	1.8	2.3	3.8	4.2	10	3.0	6.3	1.1	0.38	1.9
29	0.72	0.56	1.5	3.5	2.8	2.7	2.1	3.1	5.0	1.0	0.47	1.3
30	0.68	0.50	1.7	42	---	2.5	1.5	2.0	0.77	1.2	0.91	1.1
31	0.84	---	1.3	11	---	2.4	---	2.1	---	2.0	3.7	---
TOTAL	220.84	70.84	84.51	186.33	195.2	190.3	201.25	155.0	54.47	81.93	155.17	477.10
MEAN	7.12	2.36	2.73	6.01	6.73	6.14	6.71	5.00	1.82	2.64	5.01	15.9
MAX	110	20	16	42	56	62	34	66	63	28	55	230
MIN	0.19	0.36	0.52	0.78	2.4	1.6	0.85	1.6	0.24	0.20	0.24	0.49
CFSM	1.37	0.45	0.52	1.16	1.29	1.18	1.29	0.96	0.35	0.51	0.96	3.06
IN.	1.58	0.51	0.60	1.33	1.40	1.36	1.44	1.11	0.39	0.59	1.11	3.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	4.26	2.34	3.78	9.00	6.26	4.46	10.3	3.22	2.49	2.57	3.56	7.45
MAX	7.12	2.36	4.83	12.0	6.73	6.14	18.5	5.00	2.90	2.64	5.03	15.9
(WY)	(2000)	(2000)	(1999)	(1999)	(2000)	(2000)	(1998)	(2000)	(1998)	(2000)	(1998)	(2000)
MIN	1.39	2.32	2.73	6.01	5.76	2.78	5.61	1.90	1.82	2.46	0.64	2.81
(WY)	(1999)	(1999)	(2000)	(2000)	(1999)	(1999)	(1999)	(1999)	(2000)	(1999)	(1999)	(1999)

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

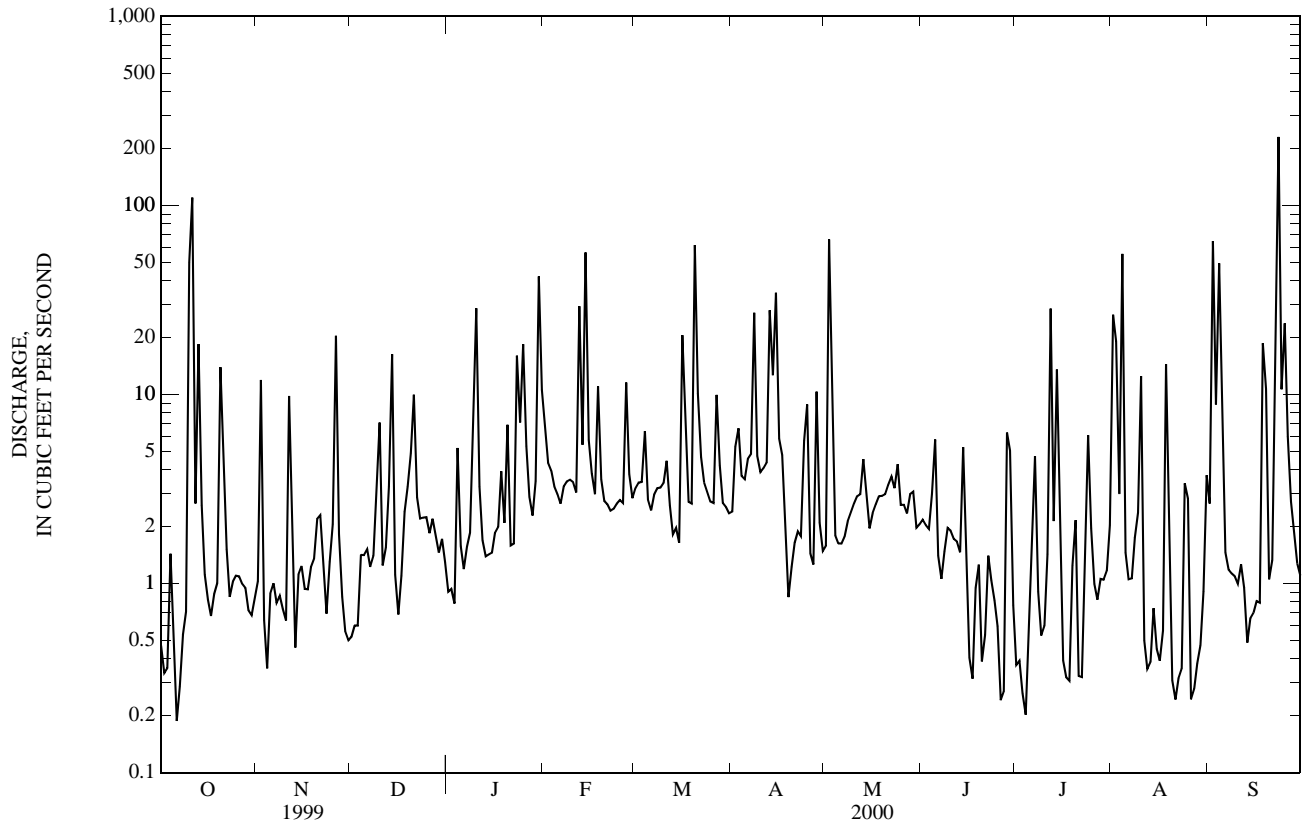
FOR 2000 WATER YEAR

WATER YEARS 1998 - 2000

ANNUAL TOTAL	1,485.95	2,072.94	
ANNUAL MEAN	4.07	5.66	4.71
HIGHEST ANNUAL MEAN			5.66
LOWEST ANNUAL MEAN			3.76
HIGHEST DAILY MEAN	156	Jan 23	230
LOWEST DAILY MEAN	0.00	Aug 17	0.19
ANNUAL SEVEN-DAY MINIMUM	0.03	Aug 13	0.48
MAXIMUM PEAK FLOW			1,700*
MAXIMUM PEAK STAGE			6.46
INSTANTANEOUS LOW FLOW			0.13
ANNUAL RUNOFF (CFSM)	0.78		1.09
ANNUAL RUNOFF (INCHES)	10.63		14.83
10 PERCENT EXCEEDS	8.7		11
50 PERCENT EXCEEDS	1.5		2.0
90 PERCENT EXCEEDS	0.24		0.51

\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued



0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

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	0.92	0.20	0.30	2.8	0.37	1.5	4.4	1.0	16	0.16	0.13	0.17
2	0.74	0.25	0.20	2.3	0.37	1.5	2.7	0.92	1.8	0.18	0.07	0.00
3	0.64	0.43	0.10	1.9	0.45	7.4	4.3	0.78	0.54	2.9	0.02	18
4	0.43	0.46	0.15	1.1	0.57	31	2.7	0.78	0.73	102	0.03	28
5	0.42	0.40	0.18	1.5	0.77	4.4	2.2	0.75	0.64	7.0	0.04	1.2
6	0.50	0.07	0.16	1.7	0.73	2.1	2.1	0.80	0.71	0.71	0.01	0.68
7	0.41	0.05	0.33	2.5	1.0	1.7	3.5	0.74	0.81	0.41	0.01	0.28
8	0.41	0.07	0.36	12	1.1	1.5	1.9	0.78	2.5	1.1	0.01	0.01
9	0.42	3.2	0.34	3.6	1.6	1.3	1.9	0.77	0.74	0.65	0.00	0.95
10	0.49	2.4	0.31	3.5	2.9	1.2	1.9	0.78	0.58	0.49	0.00	0.05
11	0.37	0.05	0.29	4.7	1.5	1.5	1.9	0.78	0.56	0.49	0.00	0.01
12	0.28	0.11	0.21	14	5.5	7.3	1.9	0.84	0.55	0.47	0.04	0.02
13	0.23	0.11	0.64	5.1	3.1	4.2	9.5	0.89	49	1.0	0.03	0.02
14	0.26	6.3	3.7	3.3	6.4	2.1	1.8	0.78	4.5	0.55	0.15	0.15
15	0.13	0.13	0.36	3.1	1.9	25	2.4	0.95	0.62	0.33	0.08	0.00
16	0.09	0.23	5.6	3.5	1.9	4.7	1.5	1.1	0.35	0.27	0.07	0.00
17	0.26	4.7	16	3.8	39	2.6	2.2	1.3	0.29	0.39	0.05	0.00
18	0.55	0.10	2.5	6.9	3.6	2.1	1.5	1.3	0.24	0.12	5.8	0.00
19	0.84	11	3.3	21	2.2	1.9	1.4	0.96	0.32	0.22	1.4	0.00
20	0.77	2.2	2.6	16	1.8	39	1.4	1.3	0.35	0.15	0.04	3.3
21	0.40	0.33	1.1	4.8	1.6	45	1.4	7.6	0.25	0.14	0.02	0.00
22	e0.50	0.23	1.5	1.9	11	4.7	1.1	7.0	8.1	0.25	0.01	0.00
23	e0.52	0.29	1.6	1.3	2.3	2.5	0.89	1.6	1.4	2.3	0.02	0.00
24	0.44	0.36	1.8	1.1	1.3	2.3	1.5	4.5	0.15	6.5	0.12	85
25	0.48	21	1.9	1.1	9.2	1.9	14	2.2	0.03	2.5	0.03	1.2
26	0.57	1.4	2.2	1.4	2.5	1.8	1.2	14	0.09	6.4	0.07	0.38
27	0.25	0.41	1.8	1.3	1.5	2.0	0.70	0.47	0.20	0.33	0.13	0.34
28	0.09	0.25	1.3	1.1	1.5	2.0	0.69	8.5	15	0.29	0.16	0.30
29	0.12	0.20	1.6	1.1	---	86	0.89	4.9	1.9	0.70	0.12	0.30
30	0.19	0.21	2.5	3.9	---	14	1.1	0.48	0.24	0.63	0.02	0.41
31	0.08	---	2.7	0.58	---	5.6	---	0.36	---	0.21	0.38	---
TOTAL	12.80	57.14	57.63	133.88	107.66	311.8	76.57	69.91	109.19	139.84	9.06	140.77
MEAN	0.41	1.90	1.86	4.32	3.85	10.1	2.55	2.26	3.64	4.51	0.29	4.69
MAX	0.92	21	16	21	39	86	14	14	49	102	5.8	85
MIN	0.08	0.05	0.10	0.58	0.37	1.2	0.69	0.36	0.03	0.12	0.00	0.00
CFSM	0.08	0.37	0.36	0.83	0.74	1.93	0.49	0.43	0.70	0.87	0.06	0.90
IN.	0.09	0.41	0.41	0.96	0.77	2.23	0.55	0.50	0.78	1.00	0.06	1.01

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	2.98	2.20	3.14	7.44	5.46	6.32	8.35	2.98	2.78	3.05	2.74	6.76
MAX	7.12	2.36	4.83	12.0	6.73	10.1	18.5	5.00	3.64	4.51	5.03	15.9
(WY)	(2000)	(2000)	(1999)	(1999)	(2000)	(2001)	(1998)	(2000)	(2001)	(2001)	(1998)	(2000)
MIN	0.41	1.90	1.86	4.32	3.84	2.78	2.55	1.90	1.82	2.46	0.29	2.81
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(1999)	(2001)	(1999)	(2000)	(1999)	(2001)	(1999)

## SUMMARY STATISTICS

## FOR 2000 CALENDAR YEAR

## FOR 2001 WATER YEAR

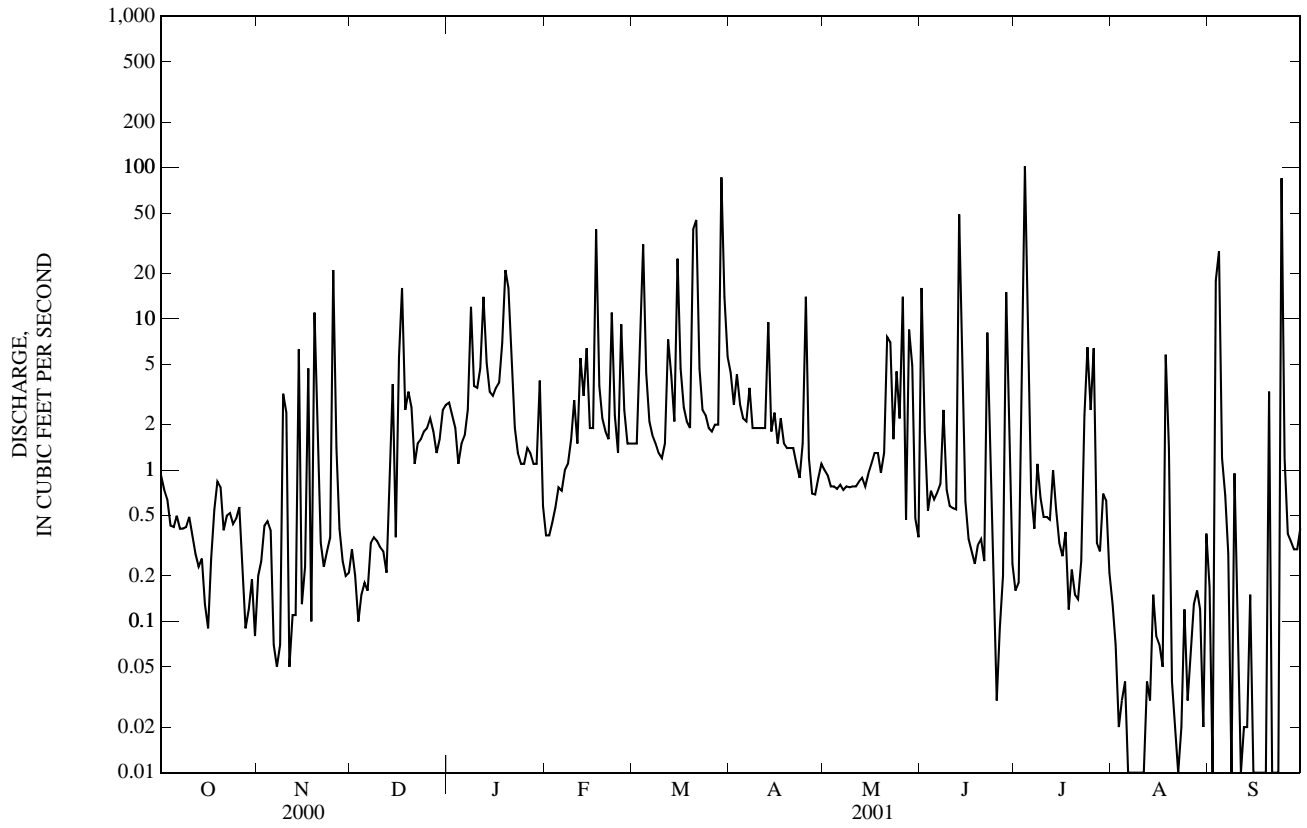
## WATER YEARS 1998 - 2001

ANNUAL TOTAL	1,824.32		1,226.25			
ANNUAL MEAN	4.98		3.36		4.26	
HIGHEST ANNUAL MEAN					5.66	
LOWEST ANNUAL MEAN					3.36	
HIGHEST DAILY MEAN	230	Sep 23	102	Jul 4	230	Sep 23, 2000
LOWEST DAILY MEAN	0.05	Nov 7	0.00	Aug 9	0.00	Aug 17, 1999
ANNUAL SEVEN-DAY MINIMUM	0.17	Oct 27	0.01	Aug 5	0.01	Aug 5, 2001
MAXIMUM PEAK FLOW			1,060*	Jul 4	1,700*	Sep 23, 2000
MAXIMUM PEAK STAGE			5.32	Jul 4	6.46	Sep 23, 2000
INSTANTANEOUS LOW FLOW			0.00*	Aug 9	0.00*	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	0.96		0.65		0.82	
ANNUAL RUNOFF (INCHES)	13.05		8.77		11.14	
10 PERCENT EXCEEDS	10		6.4		8.3	
50 PERCENT EXCEEDS	1.9		0.84		1.5	
90 PERCENT EXCEEDS	0.27		0.07		0.21	

e Estimated.

\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued





## 0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

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	0.50	0.70	0.15	0.13	0.98	0.80	7.5	0.85	0.67	0.00	0.00	e4.0
2	0.31	6.2	0.13	0.23	0.52	24	2.2	0.53	0.62	0.33	3.9	e0.40
3	0.14	1.0	0.13	1.3	0.56	15	1.7	1.3	0.40	3.8	0.46	0.10
4	0.04	0.52	0.14	1.1	0.54	2.3	1.5	11	0.23	0.69	0.00	0.07
5	0.01	0.51	0.14	0.43	0.58	0.85	1.5	1.2	0.20	0.01	0.00	0.09
6	7.0	0.28	0.05	19	3.9	0.58	1.4	0.71	1.7	0.00	0.00	0.09
7	0.28	0.00	0.05	3.6	16	0.51	1.4	0.56	1.7	0.00	0.00	0.03
8	0.12	0.00	0.10	1.6	5.1	0.37	1.4	0.56	0.13	0.00	0.00	0.02
9	0.07	0.00	0.13	0.97	1.4	0.47	1.4	0.51	0.14	0.00	0.00	0.00
10	0.21	0.01	19	0.80	3.6	0.47	2.2	1.3	0.21	0.87	0.00	0.00
11	0.29	0.02	4.5	0.85	1.3	0.33	1.1	2.1	0.19	0.19	0.00	0.00
12	0.22	0.02	0.28	0.77	1.0	7.1	1.5	0.51	0.14	0.00	0.00	0.00
13	0.21	0.05	0.29	1.6	0.85	7.6	1.4	5.4	0.10	1.2	0.00	0.00
14	1.8	0.06	0.17	0.35	0.80	1.3	1.1	1.4	0.08	17	0.00	0.75
15	0.25	0.05	0.08	0.25	0.81	0.75	1.4	0.49	0.05	0.50	0.48	16
16	0.01	0.02	0.06	0.23	0.88	0.57	1.1	0.47	0.04	0.14	15	5.3
17	0.02	0.02	3.8	0.25	0.91	15	0.99	0.49	0.13	0.06	27	0.30
18	0.01	0.02	2.9	0.29	0.86	4.0	0.90	5.1	0.41	0.04	0.65	0.05
19	0.02	0.02	0.10	38	0.82	2.6	0.87	0.62	0.34	0.03	0.01	0.05
20	0.06	0.06	0.06	8.4	1.2	3.4	0.82	0.56	0.04	0.01	0.00	0.04
21	0.06	0.08	0.06	8.3	1.1	14	0.80	0.56	0.00	0.10	0.00	0.01
22	0.06	0.07	0.06	2.0	0.96	3.4	0.72	0.57	0.00	0.01	0.00	0.00
23	0.06	0.17	0.07	52	0.94	2.5	0.65	0.59	0.00	0.00	0.00	0.00
24	0.33	2.7	0.26	5.6	0.81	2.1	0.74	0.58	0.00	6.2	7.6	0.00
25	7.5	0.02	0.06	12	0.81	1.9	1.6	0.47	0.00	10	2.8	0.00
26	0.24	0.03	0.17	1.9	0.98	2.6	0.56	0.38	2.0	0.81	0.36	6.8
27	0.22	0.05	0.06	1.1	0.88	2.0	0.61	0.41	0.23	0.02	1.9	2.5
28	0.23	0.10	0.07	0.85	0.80	1.5	0.68	0.44	0.03	0.00	4.7	0.26
29	0.42	0.11	0.07	0.73	---	1.7	0.55	0.54	0.00	0.00	0.07	0.01
30	0.57	0.21	0.08	0.60	---	4.3	0.57	11	0.00	0.00	0.00	0.00
31	0.48	---	0.12	0.64	---	10	---	2.3	---	0.00	48	---
TOTAL	21.74	13.10	33.34	165.87	49.89	134.00	40.86	53.50	9.78	42.01	112.93	36.87
MEAN	0.70	0.44	1.08	5.35	1.78	4.32	1.36	1.73	0.33	1.36	3.64	1.23
MAX	7.5	6.2	19	52	16	24	7.5	11	2.0	17	48	16
MIN	0.01	0.00	0.05	0.13	0.52	0.33	0.55	0.38	0.00	0.00	0.00	0.00
CFSM	0.13	0.08	0.21	1.03	0.34	0.83	0.26	0.33	0.06	0.26	0.70	0.24
IN.	0.16	0.09	0.24	1.19	0.36	0.96	0.29	0.38	0.07	0.30	0.81	0.26

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	2.41	1.76	2.62	6.92	4.55	5.82	6.95	2.73	2.29	2.71	2.92	5.65
MAX	7.12	2.36	4.83	12.0	6.73	10.1	18.5	5.00	3.64	4.51	5.03	15.9
(WY)	(2000)	(2000)	(1999)	(1999)	(2000)	(2001)	(1998)	(2000)	(2001)	(2001)	(1998)	(2000)
MIN	0.41	0.44	1.08	4.32	1.78	2.78	1.36	1.73	0.33	1.36	0.29	1.23
(WY)	(2001)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)

## SUMMARY STATISTICS

## FOR 2001 CALENDAR YEAR

## FOR 2002 WATER YEAR

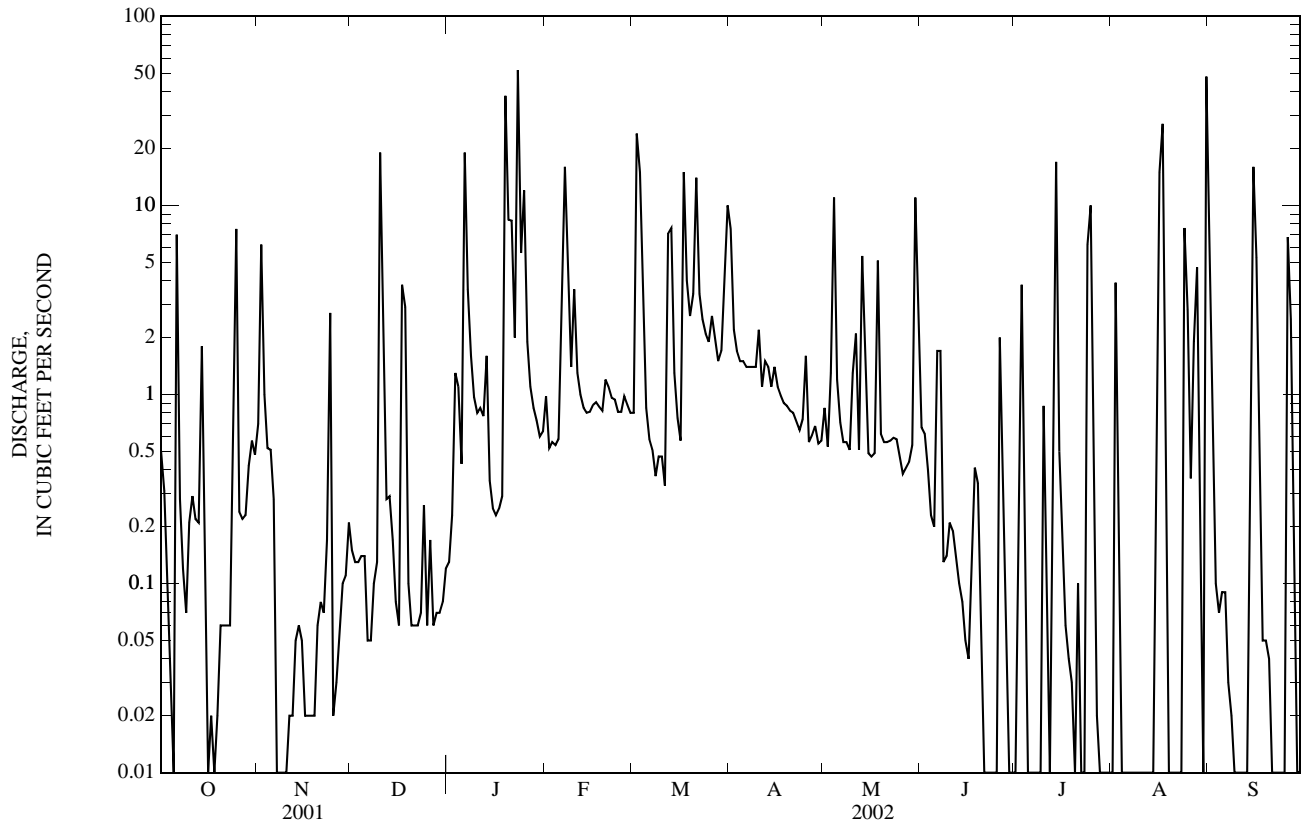
## WATER YEARS 1998 - 2002

ANNUAL TOTAL	1,166.86	713.89	
ANNUAL MEAN	3.20	1.96	3.69
HIGHEST ANNUAL MEAN			5.66
LOWEST ANNUAL MEAN			1.96
HIGHEST DAILY MEAN	102	Jul 4	230
LOWEST DAILY MEAN	0.00	Aug 9	0.00
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 5	0.00
MAXIMUM PEAK FLOW			1,700*
MAXIMUM PEAK STAGE			6.46
INSTANTANEOUS LOW FLOW			0.00*
ANNUAL RUNOFF (CFSM)	0.61		0.71
ANNUAL RUNOFF (INCHES)	8.35		9.63
10 PERCENT EXCEEDS	6.4		7.1
50 PERCENT EXCEEDS	0.71		1.1
90 PERCENT EXCEEDS	0.02		0.06

e Estimated.

\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued



## 0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.51	1.8	3.5	3.3	15	3.9	2.0	6.6	4.5	4.1	1.9
2	0.03	0.59	2.3	1.8	2.6	14	3.3	4.3	4.3	47	e2.3	1.2
3	0.03	0.53	2.7	5.0	2.4	4.9	3.2	5.3	24	5.0	e2.3	1.2
4	0.03	0.87	4.5	1.7	5.1	3.8	3.2	3.4	14	2.8	e75	5.1
5	0.04	14	42	1.4	2.1	5.4	4.6	2.9	5.2	2.4	36	1.8
6	0.05	15	6.8	1.3	5.0	93	5.2	41	8.3	2.6	5.2	1.2
7	3.2	1.1	3.9	1.7	14	7.2	131	7.6	333	2.5	2.6	1.1
8	0.02	0.47	2.5	1.4	3.1	4.3	21	4.3	97	2.3	6.9	1.3
9	0.11	0.44	2.0	1.4	2.4	3.4	61	2.9	36	2.9	3.1	1.4
10	0.06	0.72	1.9	1.3	7.1	2.9	245	2.6	12	2.7	1.9	1.3
11	65	12	19	1.3	2.8	2.6	21	2.4	9.5	9.5	1.5	1.4
12	1.1	48	3.3	1.3	2.4	2.4	7.3	2.2	22	5.0	1.3	1.4
13	54	4.9	56	1.4	2.3	2.4	4.4	2.0	8.5	52	2.1	1.6
14	1.7	1.9	6.9	1.4	3.4	2.4	3.2	1.7	6.9	6.0	5.4	1.6
15	8.7	1.3	3.1	1.4	3.6	14	2.7	6.7	6.3	3.3	2.5	1.6
16	27	25	2.3	1.6	4.2	66	2.5	3.7	39	2.6	8.5	1.3
17	1.0	13	1.8	2.4	8.2	7.2	2.4	2.2	15	84	5.0	1.3
18	0.45	3.2	1.5	2.5	12	8.5	80	6.9	42	6.8	1.8	1.7
19	0.40	1.9	1.6	1.1	6.1	7.1	15	3.6	16	7.0	1.2	2.0
20	0.31	1.7	15	1.4	4.7	299	6.2	2.5	7.3	4.5	1.1	1.8
21	2.6	1.7	2.8	2.0	3.6	14	5.5	95	5.2	7.4	1.1	1.8
22	5.2	1.7	2.0	1.6	37	8.1	4.0	386	4.2	4.6	1.3	8.4
23	0.50	1.9	1.7	3.1	8.0	5.9	3.0	26	3.8	4.6	1.1	12
24	0.50	1.8	85	2.0	4.1	4.8	2.7	15	3.4	3.3	1.1	1.9
25	0.98	1.7	39	2.6	3.2	4.3	6.0	140	2.9	3.5	1.3	1.8
26	1.5	1.9	5.1	2.7	7.7	4.2	7.3	14	2.6	5.0	1.7	2.3
27	1.1	1.8	3.3	2.7	27	4.9	3.5	104	13	3.9	1.5	3.7
28	15	1.2	2.5	2.2	7.9	4.3	2.7	10	4.6	3.4	1.8	3.2
29	3.3	1.4	2.1	2.7	---	4.2	3.1	6.5	3.3	46	2.7	1.3
30	1.2	1.4	1.8	27	---	43	2.2	5.1	3.4	8.5	3.3	1.6
31	0.53	---	1.7	6.1	---	6.1	---	28	---	4.7	1.8	---
TOTAL	195.68	163.63	327.9	91.0	195.3	669.3	666.1	939.8	759.3	350.3	188.5	71.2
MEAN	6.31	5.45	10.6	2.94	6.97	21.6	22.2	30.3	25.3	11.3	6.08	2.37
MAX	65	48	85	27	37	299	245	386	333	84	75	12
MIN	0.02	0.44	1.5	1.1	2.1	2.4	2.2	1.7	2.6	2.3	1.1	1.1
CFSM	1.21	1.05	2.03	0.56	1.34	4.15	4.27	5.83	4.87	2.17	1.17	0.46
IN.	1.40	1.17	2.35	0.65	1.40	4.79	4.77	6.72	5.43	2.51	1.35	0.51

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	3.19	2.50	4.21	6.12	5.03	8.98	9.49	7.32	6.12	4.14	3.45	5.11
MAX	7.12	5.45	10.6	12.0	6.97	21.6	22.2	30.3	25.3	11.3	6.08	15.9
(WY)	(2000)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	0.41	0.44	1.08	2.94	1.78	2.78	1.36	1.73	0.33	1.36	0.29	1.23
(WY)	(2001)	(2002)	(2002)	(2003)	(2002)	(1999)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)

## SUMMARY STATISTICS

## FOR 2002 CALENDAR YEAR

## FOR 2003 WATER YEAR

## WATER YEARS 1998 - 2003

ANNUAL TOTAL	1,332.92	4,618.01	
ANNUAL MEAN	3.65	12.7	5.48
HIGHEST ANNUAL MEAN			12.7
LOWEST ANNUAL MEAN			1.96
HIGHEST DAILY MEAN	85	Dec 24	386
LOWEST DAILY MEAN	0.00	Jun 21	0.02
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 4	0.49
MAXIMUM PEAK FLOW			2,500*
MAXIMUM PEAK STAGE			7.44
INSTANTANEOUS LOW FLOW			0.01
ANNUAL RUNOFF (CFSM)	0.70		2.43
ANNUAL RUNOFF (INCHES)	9.54		33.04
10 PERCENT EXCEEDS	8.3		26
50 PERCENT EXCEEDS	0.82		3.2
90 PERCENT EXCEEDS	0.00		1.2
			7.44
			0.00*
			1.05
			14.31
			9.6
			1.5
			0.09

e Estimated.

\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

