

## 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year also occurred Sept. 17, 18, 30.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 1.5  | 1.8   | 2.5   | 1.9   | 2.7   | 5.6   | 5.5   | 7.3   | 15    | 130   | 2.5   | 0.47  |
| 2     | 1.3  | 1.9   | 1.7   | 2.1   | 2.6   | 3.8   | 6.1   | 2.0   | 31    | 7.5   | 1.2   | 0.50  |
| 3     | 2.6  | 2.5   | 1.7   | 2.0   | 19    | 3.2   | 3.5   | 1.9   | 4.3   | 2.9   | 1.1   | 0.51  |
| 4     | 1.6  | 23    | 1.7   | 2.2   | 4.3   | 3.1   | 3.1   | 1.8   | 2.7   | 2.4   | 1.2   | 0.57  |
| 5     | 1.6  | 2.3   | 1.6   | 2.3   | 3.0   | 3.0   | 3.0   | 1.9   | 2.2   | 2.5   | 1.5   | 0.45  |
| 6     | 1.7  | 1.3   | 10    | 2.3   | 2.7   | 3.1   | 2.7   | 2.2   | 2.0   | 2.7   | 1.9   | 0.31  |
| 7     | 1.5  | 1.3   | 4.0   | 2.0   | 2.7   | 3.1   | 4.0   | 1.9   | 2.1   | 99    | 2.0   | 0.19  |
| 8     | 1.3  | 1.3   | 2.0   | 2.0   | 2.7   | 23    | 3.6   | 1.8   | 2.2   | 6.9   | 7.0   | 0.18  |
| 9     | 1.3  | 1.4   | 4.3   | 2.0   | 2.7   | 4.0   | 2.6   | 1.8   | 1.9   | 3.2   | 17    | 0.29  |
| 10    | 1.6  | 1.6   | 34    | 2.1   | 2.8   | 3.3   | 2.4   | 41    | 2.7   | 3.1   | 2.5   | 0.31  |
| 11    | 1.8  | 1.8   | 3.9   | 2.2   | 2.4   | 3.1   | 2.4   | 7.1   | 1.8   | 7.8   | 1.1   | 0.27  |
| 12    | 1.9  | 13    | 2.6   | 2.2   | 2.5   | 3.0   | 26    | 16    | 1.6   | 3.5   | 1.2   | 0.35  |
| 13    | 24   | 2.3   | 2.3   | 2.2   | 2.4   | 2.7   | 32    | 4.4   | 1.7   | 4.3   | 1.9   | 0.49  |
| 14    | 2.0  | 1.4   | 2.0   | 48    | 9.4   | 5.3   | 22    | 2.6   | 1.7   | 3.7   | 2.2   | 0.53  |
| 15    | 1.8  | 1.6   | 2.0   | 4.0   | 3.1   | 2.7   | 4.9   | 2.4   | 1.6   | 3.4   | 1.0   | 0.31  |
| 16    | 1.7  | 1.7   | 2.0   | 3.2   | 3.2   | 21    | 4.3   | 2.3   | 1.5   | 3.0   | 0.86  | 2.6   |
| 17    | 1.8  | 1.7   | 2.0   | 2.8   | 2.8   | 16    | 3.7   | 2.1   | 1.4   | 2.6   | 6.1   | 0.30  |
| 18    | 1.7  | 1.7   | 2.0   | 2.4   | 2.3   | 4.9   | 3.1   | 2.2   | 1.8   | 2.7   | 0.84  | 0.16  |
| 19    | 2.4  | 1.8   | 2.0   | 2.5   | 2.2   | 3.6   | 2.6   | 2.1   | 2.8   | 2.3   | 0.79  | 0.18  |
| 20    | 1.9  | 2.9   | 2.0   | 2.7   | 3.4   | 3.2   | 2.6   | 11    | 1.3   | 2.2   | 0.78  | 0.26  |
| 21    | 1.9  | 2.6   | 2.0   | 2.4   | 9.9   | 3.1   | 2.6   | 2.6   | 1.2   | 4.0   | 0.59  | 0.33  |
| 22    | 1.8  | 3.0   | 2.0   | 2.4   | 3.4   | 13    | 5.2   | 2.4   | 1.3   | 5.2   | 0.58  | 0.39  |
| 23    | 1.7  | 5.3   | 12    | 2.4   | 2.7   | 19    | 3.0   | 2.5   | 1.2   | 2.2   | 5.7   | 0.48  |
| 24    | 2.4  | 12    | 2.3   | 2.5   | 14    | 5.1   | 2.4   | 2.5   | 1.1   | 1.7   | 0.78  | 0.73  |
| 25    | e2.0 | 4.3   | 1.8   | 2.9   | 3.5   | 3.5   | 2.4   | 2.6   | 1.0   | 1.8   | 0.33  | 0.86  |
| 26    | e1.7 | 2.0   | 1.8   | 3.1   | 2.9   | 3.1   | 2.4   | 2.5   | 5.5   | 1.7   | 0.31  | 1.4   |
| 27    | 1.5  | 12    | 2.0   | 2.4   | 4.5   | 5.4   | 2.8   | 2.5   | 1.5   | 1.0   | 0.36  | 1.3   |
| 28    | 2.1  | 7.5   | 1.9   | 2.3   | 41    | 65    | 2.2   | 2.5   | 12    | 5.4   | 0.45  | 0.63  |
| 29    | 2.0  | 1.9   | 2.0   | 3.5   | ---   | 6.4   | 2.1   | 2.4   | 1.6   | 21    | 0.42  | 1.4   |
| 30    | 1.6  | 1.8   | 1.9   | 9.7   | ---   | 4.2   | 6.3   | 3.5   | 9.7   | 54    | 0.50  | 0.36  |
| 31    | 1.7  | ---   | 1.9   | 3.3   | ---   | 15    | ---   | 1.8   | ---   | 16    | 0.63  | ---   |
| TOTAL | 77.4 | 120.7 | 117.9 | 130.0 | 160.8 | 263.5 | 171.5 | 143.6 | 119.4 | 409.7 | 65.32 | 17.11 |
| MEAN  | 2.50 | 4.02  | 3.80  | 4.19  | 5.74  | 8.50  | 5.72  | 4.63  | 3.98  | 13.2  | 2.11  | 0.57  |
| MAX   | 24   | 23    | 34    | 48    | 41    | 65    | 32    | 41    | 31    | 130   | 17    | 2.6   |
| MIN   | 1.3  | 1.3   | 1.6   | 1.9   | 2.2   | 2.7   | 2.1   | 1.8   | 1.0   | 1.0   | 0.31  | 0.16  |
| CFSM  | 0.48 | 0.77  | 0.73  | 0.81  | 1.10  | 1.63  | 1.10  | 0.89  | 0.77  | 2.54  | 0.41  | 0.11  |
| IN.   | 0.55 | 0.86  | 0.84  | 0.93  | 1.15  | 1.89  | 1.23  | 1.03  | 0.85  | 2.93  | 0.47  | 0.12  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

|      |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 2.89   | 2.57   | 3.99   | 5.21   | 5.26   | 8.04   | 8.04   | 6.28   | 5.53   | 5.71   | 3.67   | 6.95   |
| MAX  | 7.12   | 5.45   | 10.6   | 12.0   | 6.97   | 21.6   | 22.2   | 30.3   | 25.3   | 13.2   | 6.53   | 24.4   |
| (WY) | (2000) | (2003) | (2003) | (1999) | (2003) | (2003) | (2003) | (2003) | (2003) | (2005) | (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   | 0.57   |
| (WY) | (2001) | (2002) | (2002) | (2004) | (2002) | (1999) | (2002) | (2004) | (2002) | (2002) | (2001) | (2005) |

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| SUMMARY STATISTICS       | FOR 2004 CALENDAR YEAR |        | FOR 2005 WATER YEAR |        | WATER YEARS 1998 - 2005 |              |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL             | 2,006.91               |        | 1,796.93            |        | 5.35                    |              |
| ANNUAL MEAN              | 5.48                   |        | 4.92                |        | 1.96                    |              |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 12.7                    | 2003         |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 1.96                    | 2002         |
| HIGHEST DAILY MEAN       | 271                    | Sep 28 | 130                 | Jul 1  | 386                     | May 22, 2003 |
| LOWEST DAILY MEAN        | 0.21                   | Jul 25 | 0.16                | Sep 18 | 0.00                    | Aug 17, 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 0.43                   | May 21 | 0.27                | Sep 6  | 0.00                    | Aug 4, 2002  |
| MAXIMUM PEAK FLOW        |                        |        | 1,250*              | Jul 1  | 2,500*                  | Jun 7, 2003  |
| MAXIMUM PEAK STAGE       |                        |        | 5.69                | Jul 1  | 7.44                    | Jun 7, 2003  |
| INSTANTANEOUS LOW FLOW   |                        |        | 0.10*               | Sep 15 | 0.00*                   | Aug 18, 1999 |
| ANNUAL RUNOFF (CFSM)     | 1.05                   |        | 0.947               |        | 1.03                    |              |
| ANNUAL RUNOFF (INCHES)   | 14.36                  |        | 12.85               |        | 13.99                   |              |
| 10 PERCENT EXCEEDS       | 8.7                    |        | 9.7                 |        | 9.3                     |              |
| 50 PERCENT EXCEEDS       | 1.7                    |        | 2.4                 |        | 1.7                     |              |
| 90 PERCENT EXCEEDS       | 0.69                   |        | 0.79                |        | 0.20                    |              |

\* See REMARKS.  
e Estimated.

