

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC

LOCATION.--Lat 35°12'30", long 80°34'48", Mecklenburg County, Hydrologic Unit 03040105, on right bank at wingwall on Secondary Road 3181, 4.25 mi northeast of Mint Hill.

DRAINAGE AREA.--12.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above NGVD of 1929, from topographic map. Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Oct. 9, 2002, Sept. 22, 2003. 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     | 2.4   | 3.5   | 3.9   | 3.5   | 3.7   | 63    | 8.3   | 2.7   | e0.98 | 1.2    | 2.9   | 1.3    |
| 2     | 2.3   | 3.5   | 3.7   | 3.7   | 3.8   | 45    | 5.5   | 4.4   | e0.71 | 1.0    | 2.9   | 1.0    |
| 3     | 2.1   | 3.3   | 3.7   | 3.6   | 11    | 18    | 4.8   | 3.2   | 0.70  | 1.2    | 3.2   | 0.85   |
| 4     | 2.2   | 3.4   | 4.0   | 3.5   | 6.1   | 12    | 4.4   | 2.6   | 0.76  | 1.2    | 1.8   | 0.76   |
| 5     | 2.3   | 3.5   | 5.3   | 3.8   | 4.8   | 10    | 3.9   | 2.4   | 1.0   | 1.6    | 3.1   | 0.69   |
| 6     | 2.3   | 3.7   | 4.4   | 4.4   | 54    | 9.0   | 3.7   | 2.2   | 0.83  | 5.7    | 2.4   | 0.75   |
| 7     | 2.9   | 3.6   | 4.1   | 3.4   | 31    | 7.7   | 3.7   | 2.1   | 0.86  | 1.3    | 1.3   | e118   |
| 8     | 4.5   | 3.8   | 4.1   | 3.3   | 10    | 6.9   | 3.8   | 2.1   | 0.78  | 1.00   | 1.2   | e252   |
| 9     | 4.4   | 3.7   | 4.1   | 3.8   | 7.3   | 6.6   | 3.5   | 2.0   | 2.7   | 0.90   | 1.1   | 14     |
| 10    | 3.4   | 3.5   | 14    | 3.8   | 6.3   | 6.4   | 3.5   | 1.9   | 2.6   | 0.78   | 1.0   | 6.0    |
| 11    | 12    | 3.7   | 11    | 3.3   | 5.7   | 5.7   | 3.7   | 1.8   | 0.92  | 1.8    | 1.00  | 4.0    |
| 12    | 4.4   | 3.7   | 4.9   | 3.5   | 16    | 5.4   | 4.2   | 1.9   | 0.69  | 3.0    | 2.8   | 3.2    |
| 13    | 3.7   | 3.5   | 4.3   | 3.4   | 11    | 4.8   | 10    | 1.8   | 0.80  | 1.2    | 15    | 2.7    |
| 14    | 3.8   | 3.6   | 21    | 3.4   | 8.9   | 4.6   | 6.8   | 1.6   | 1.2   | 0.90   | 24    | 2.5    |
| 15    | 4.0   | 3.8   | 8.7   | 3.6   | 11    | 4.7   | 4.6   | 1.6   | 1.8   | 0.73   | 5.9   | 2.4    |
| 16    | 3.5   | 3.9   | 6.0   | 3.4   | 9.9   | 5.9   | 3.8   | 1.5   | 1.4   | 0.59   | 3.3   | 2.9    |
| 17    | 3.2   | 4.4   | 7.3   | 3.4   | 7.5   | 5.0   | 3.5   | 1.4   | 0.91  | 1.1    | 2.4   | 26     |
| 18    | 3.1   | 5.0   | 6.0   | 4.4   | 6.8   | 4.5   | 3.3   | 1.4   | 0.74  | 90     | 1.8   | 9.3    |
| 19    | 3.3   | 8.7   | 5.0   | 3.9   | 6.2   | 4.8   | 3.2   | 1.4   | 0.67  | 3.7    | 1.5   | 4.4    |
| 20    | 3.2   | 5.8   | 4.5   | 3.3   | 5.7   | 4.3   | 3.2   | 1.4   | 0.82  | 2.3    | 1.4   | 3.3    |
| 21    | 3.1   | e6.5  | 4.1   | 3.4   | 5.3   | 6.5   | 3.1   | 1.3   | 1.3   | 1.8    | 1.3   | 2.8    |
| 22    | 3.0   | e5.3  | 4.1   | 3.4   | 4.8   | 4.6   | 3.0   | 1.3   | 1.5   | 1.5    | 1.4   | 2.5    |
| 23    | 3.2   | e4.5  | 4.1   | 3.4   | 4.6   | 4.1   | 2.6   | 1.2   | 4.5   | 1.4    | 1.3   | 2.4    |
| 24    | 2.7   | e3.9  | 4.8   | 3.4   | 4.6   | 3.9   | 2.5   | 1.2   | 6.7   | 1.2    | 1.2   | 2.3    |
| 25    | 2.9   | 3.7   | 4.0   | 3.6   | 4.3   | 3.9   | 2.3   | 1.1   | 5.9   | 1.0    | 1.1   | 2.2    |
| 26    | 4.4   | 3.7   | 3.8   | 3.9   | 4.9   | 3.9   | 2.4   | 0.89  | 8.0   | 1.0    | 1.0   | 2.2    |
| 27    | 4.0   | 3.7   | 3.7   | 3.7   | 8.2   | 3.9   | 2.6   | 0.81  | 2.4   | 4.5    | 0.84  | e26    |
| 28    | 4.7   | 4.0   | 3.7   | 4.1   | 10    | 3.9   | 2.3   | 0.77  | 1.6   | 5.0    | 0.74  | e348   |
| 29    | 13    | 4.1   | 3.7   | 4.4   | 22    | 3.7   | 2.2   | 0.86  | 1.3   | 33     | 1.0   | 22     |
| 30    | 3.8   | 4.0   | 3.7   | 4.7   | ---   | 4.2   | 2.2   | 0.74  | 1.2   | 8.2    | 3.7   | 11     |
| 31    | 3.0   | ---   | 3.5   | 4.2   | ---   | 6.8   | ---   | 0.85  | ---   | 3.2    | 2.0   | ---    |
| TOTAL | 120.8 | 125.0 | 173.2 | 114.6 | 295.4 | 283.7 | 116.6 | 52.42 | 56.27 | 183.00 | 95.58 | 877.45 |
| MEAN  | 3.90  | 4.17  | 5.59  | 3.70  | 10.2  | 9.15  | 3.89  | 1.69  | 1.88  | 5.90   | 3.08  | 29.2   |
| MAX   | 13    | 8.7   | 21    | 4.7   | 54    | 63    | 10    | 4.4   | 8.0   | 90     | 24    | 348    |
| MIN   | 2.1   | 3.3   | 3.5   | 3.3   | 3.7   | 3.7   | 2.2   | 0.74  | 0.67  | 0.59   | 0.74  | 0.69   |
| CFSM  | 0.31  | 0.33  | 0.44  | 0.29  | 0.81  | 0.73  | 0.31  | 0.13  | 0.15  | 0.47   | 0.24  | 2.32   |
| IN.   | 0.36  | 0.37  | 0.51  | 0.34  | 0.87  | 0.84  | 0.34  | 0.15  | 0.17  | 0.54   | 0.28  | 2.59   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

|      | 2003   | 2004   | 2003   | 2004   | 2003   | 2004   | 2003   | 2004   | 2003   | 2004   | 2003   | 2004   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 5.33   | 7.80   | 14.4   | 5.21   | 15.0   | 25.6   | 31.3   | 20.4   | 29.4   | 13.3   | 7.49   | 16.3   |
| MAX  | 6.77   | 11.4   | 23.2   | 6.72   | 19.9   | 41.9   | 58.7   | 39.2   | 56.9   | 20.8   | 11.9   | 29.2   |
| (WY) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2004) |
| MIN  | 3.90   | 4.17   | 5.59   | 3.70   | 10.2   | 9.15   | 3.89   | 1.69   | 1.88   | 5.90   | 3.08   | 3.39   |
| (WY) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2003) |

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

|                          |         |          |       |        |
|--------------------------|---------|----------|-------|--------|
| ANNUAL TOTAL             | 8,282.0 | 2,494.02 |       |        |
| ANNUAL MEAN              | 22.7    | 6.81     |       | 15.9   |
| HIGHEST ANNUAL MEAN      |         |          |       | 25.0   |
| LOWEST ANNUAL MEAN       |         |          |       | 6.81   |
| HIGHEST DAILY MEAN       | 646     | Apr 10   | 348   | Sep 28 |
| LOWEST DAILY MEAN        | 2.1     | Sep 21   | 0.59  | Jul 16 |
| ANNUAL SEVEN-DAY MINIMUM | 2.3     | Sep 30   | 0.80  | May 29 |
| MAXIMUM PEAK STAGE       |         |          | 10.92 | Sep 28 |
| INSTANTANEOUS LOW FLOW   |         |          | 0.49* | Jul 16 |
| ANNUAL RUNOFF (CFSM)     | 1.80    |          | 0.541 |        |
| ANNUAL RUNOFF (INCHES)   | 24.45   |          | 7.36  |        |
| 10 PERCENT EXCEEDS       | 47      |          | 8.8   | 26     |
| 50 PERCENT EXCEEDS       | 6.5     |          | 3.5   | 4.5    |
| 90 PERCENT EXCEEDS       | 3.2     |          | 1.0   | 1.3    |

\* See REMARKS.

e Estimated.

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC—Continued

