

BUNCOMBE COUNTY—Continued

352827082383901. County number, BU-083; DENR Bent Creek Research Station MW-7S (Regolith well).

LOCATION.--Lat 35°29'27", long 82°38'39", Hydrologic Unit 06010105, 1.2 mi north of Blue Ridge Parkway, 3.1 mi west of Brevard Road in Bent Creek Research Forest. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic Biotite Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 4 in., cased to 10 ft, screened interval from 10 to 25 ft, sand filter packed from 8 to 25 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 2,368.23 ft above NGVD of 1929. Measuring point: Top of protective steel casing, 2.96 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

PERIOD OF RECORD.--February 2003 to current year. Continuous record began June 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.19 ft below land-surface datum, July 3, 2003, highest water level recorded, 9.19 ft below land-surface datum, June 29, 2005; lowest water level measured 11.82 ft below land-surface datum, Sept. 1, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

| DAY | OCT    | NOV | DEC | JAN | FEB | MAR    | APR | MAY    | JUN  | JUL   | AUG   | SEP   |
|-----|--------|-----|-----|-----|-----|--------|-----|--------|------|-------|-------|-------|
| 1   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 9.64  | 10.51 | 10.87 |
| 2   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.0  | 10.59 | 10.91 |
| 3   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.27 | 10.68 | 10.95 |
| 4   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.44 | 10.76 | 11.00 |
| 5   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.56 | 10.83 | 11.04 |
| 6   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.66 | 10.88 | 11.07 |
| 7   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.20 | 10.90 | 11.08 |
| 8   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 9.60  | 10.83 | 11.10 |
| 9   | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 9.78  | 10.83 | 11.11 |
| 10  | 10.49* | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.07 | 10.85 | 11.13 |
| 11  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.28 | 10.90 | 11.15 |
| 12  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.35 | 10.94 | 11.16 |
| 13  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.44 | 10.96 | 11.18 |
| 14  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.52 | 10.99 | 11.19 |
| 15  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.60 | 11.03 | 11.21 |
| 16  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.67 | 11.04 | 11.21 |
| 17  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.74 | 11.06 | 11.21 |
| 18  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.79 | 11.05 | 11.23 |
| 19  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.81 | 11.04 | 11.24 |
| 20  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.61 | 11.05 | 11.26 |
| 21  | ---    | --- | --- | --- | --- | 11.02* | --- | ---    | ---  | 10.28 | 11.06 | 11.28 |
| 22  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.26 | 11.07 | 11.28 |
| 23  | ---    | --- | --- | --- | --- | ---    | --- | 11.01* | ---  | 10.36 | 11.07 | 11.30 |
| 24  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.50 | 11.09 | 11.31 |
| 25  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.62 | 11.11 | 11.32 |
| 26  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.73 | 11.12 | 11.31 |
| 27  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.78 | 11.13 | 11.32 |
| 28  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.66 | 11.15 | 11.34 |
| 29  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.63 | 11.15 | 11.34 |
| 30  | ---    | --- | --- | --- | --- | ---    | --- | ---    | 9.33 | 10.51 | 10.96 | 11.35 |
| 31  | ---    | --- | --- | --- | --- | ---    | --- | ---    | ---  | 10.48 | 10.86 | ---   |

WTR YR 2005 MEAN 10.83 HIGH 9.33 LOW 11.35

\*Periodic water-level measurements with electric tape.

