

Water-Data Report 2008

**354328078295701 Local number WK-328, NCDENR Raleigh Hydrogeologic Research Station WC-1S near Auburn, NC (Regolith)**

Piedmont and Blue Ridge crystalline-rock aquifers  
Saprolite

Wake County, NC

LOCATION.--Lat 35°43'29", long 78°29'58" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 3.6 mi north east of Auburn. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 28 ft, diameter 4 in., cased to 13 ft, screened interval from 13 ft to 28 ft, sand filter packed from 9 ft to 33 ft.

DATUM.--Land-surface datum is 171.24 ft above North American Vertical Datum of 1988. Measuring point: top of pvc casing, 2.50 ft above land-surface datum, March 30, 2005, to present.

PERIOD OF RECORD.--May 2005 to current year.

GAGE.--Water-level recorder collecting data at 30-minute intervals.

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Ground-water levels affected by nearby Neuse River.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.20 ft below land-surface datum, December 11, 2006 and January 16, 2007; lowest water level recorded, 24.39 ft below land-surface datum, December 14 and 15, 2007.

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

| Day  | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 23.93 | 23.46 | 24.26 | 23.46 | 24.24 | 24.00 | 23.57 | 22.21 | ---   | 23.17 | 23.73 | 23.51 |
| 2    | 23.93 | 23.54 | 24.27 | 23.52 | 24.12 | 24.04 | 23.52 | 22.21 | ---   | 23.22 | 23.76 | ---   |
| 3    | 23.95 | 23.59 | 24.28 | 23.58 | 24.09 | 24.07 | 23.52 | 22.16 | ---   | 23.27 | 23.79 | 23.63 |
| 4    | 23.97 | 23.66 | 24.29 | 23.63 | 24.10 | 24.09 | 23.48 | 22.14 | ---   | 23.33 | 23.82 | 23.71 |
| 5    | 23.99 | 23.72 | 24.30 | 23.67 | 24.12 | 23.97 | 23.32 | 22.12 | ---   | 23.35 | 23.84 | 23.78 |
| 6    | 23.98 | 23.77 | 24.32 | 23.73 | 24.14 | 23.77 | 23.17 | 22.10 | ---   | 23.28 | 23.86 | 23.44 |
| 7    | 23.99 | 23.82 | 24.32 | 23.78 | 24.18 | 23.71 | 23.14 | 22.08 | ---   | 23.08 | 23.88 | 22.88 |
| 8    | 24.00 | 23.87 | 24.33 | 23.82 | 24.22 | 23.38 | 23.08 | 22.06 | ---   | 23.04 | 23.91 | 22.84 |
| 9    | 24.01 | 23.90 | 24.34 | 23.87 | 24.24 | 23.34 | 23.01 | 22.02 | ---   | 23.06 | 23.94 | 22.85 |
| 10   | 24.03 | 23.94 | 24.35 | 23.91 | 24.27 | 23.34 | 22.97 | 22.06 | ---   | 23.01 | 23.95 | 22.80 |
| 11   | 24.05 | 23.98 | 24.36 | 23.95 | 24.30 | 23.36 | 22.92 | 22.07 | ---   | 23.03 | 23.96 | 22.67 |
| 12   | 24.07 | 24.00 | 24.36 | 23.99 | 24.30 | 23.41 | 22.89 | 22.07 | ---   | 23.10 | 23.98 | 22.62 |
| 13   | 24.08 | 24.02 | 24.37 | 24.03 | 24.24 | 23.48 | 22.84 | 22.12 | ---   | 23.15 | 24.00 | 22.46 |
| 14   | 24.09 | 24.05 | 24.38 | 24.06 | 24.06 | 23.52 | 22.79 | 22.15 | ---   | 23.22 | 24.03 | 22.35 |
| 15   | 24.11 | 24.06 | 24.39 | 24.10 | 24.01 | 23.57 | 22.73 | 22.17 | ---   | 23.09 | 24.04 | 22.27 |
| 16   | 24.11 | 24.04 | 24.21 | 24.13 | 24.02 | 23.46 | 22.68 | 22.18 | ---   | 23.16 | 24.02 | 22.20 |
| 17   | 24.13 | 24.08 | 24.09 | 24.14 | 24.03 | 23.43 | 22.64 | 22.20 | ---   | 23.23 | 24.03 | 22.04 |
| 18   | 24.14 | 24.11 | 24.12 | 24.09 | 24.02 | 23.44 | 22.63 | 22.21 | ---   | 23.30 | 24.04 | 21.98 |
| 19   | 24.10 | 24.13 | 24.15 | 24.09 | 23.99 | 23.47 | 22.63 | 22.21 | ---   | 23.34 | 24.06 | 21.93 |
| 20   | 24.10 | 24.15 | 24.19 | 24.06 | 24.01 | 23.54 | 22.64 | 22.21 | ---   | 23.38 | 24.09 | 21.87 |
| 21   | 24.13 | 24.16 | 24.24 | 24.06 | 24.05 | 23.58 | 22.65 | 22.22 | ---   | 23.41 | 24.09 | 21.83 |
| 22   | 24.15 | 24.16 | 24.27 | 24.07 | 24.07 | 23.61 | 22.66 | ---   | ---   | 23.46 | 24.11 | 21.78 |
| 23   | 24.16 | 24.18 | 24.30 | 24.09 | 24.07 | 23.67 | 22.64 | ---   | ---   | 23.45 | 24.13 | 21.75 |
| 24   | 24.14 | 24.20 | 24.32 | 24.11 | 24.09 | 23.71 | 22.66 | ---   | ---   | 23.47 | 24.15 | 21.70 |
| 25   | 23.84 | 24.21 | 24.33 | 24.15 | 24.11 | 23.75 | 22.67 | ---   | ---   | 23.51 | 24.19 | 21.73 |
| 26   | 23.79 | 24.22 | 24.30 | 24.16 | 24.12 | 23.78 | 22.68 | ---   | 23.12 | 23.54 | 24.21 | 21.74 |
| 27   | 23.37 | 24.22 | 24.08 | 24.18 | 24.00 | 23.80 | 22.70 | ---   | 23.19 | 23.58 | 24.13 | 21.59 |
| 28   | 23.16 | 24.23 | 24.07 | 24.21 | 23.96 | 23.84 | 22.32 | ---   | 23.21 | 23.62 | 23.73 | 21.53 |
| 29   | 23.25 | 24.24 | 24.10 | 24.22 | 23.97 | 23.88 | 22.16 | ---   | 23.25 | 23.66 | 23.62 | 21.50 |
| 30   | 23.32 | 24.25 | 24.05 | 24.25 | ---   | 23.91 | 22.20 | ---   | 23.20 | 23.68 | 23.63 | 21.42 |
| 31   | 23.39 | ---   | 23.54 | 24.26 | ---   | 23.84 | ---   | ---   | ---   | 23.70 | 23.56 | ---   |
| Mean | 23.92 | 24.00 | 24.23 | 23.98 | 24.11 | 23.67 | 22.85 | 22.14 | 23.19 | 23.32 | 23.94 | 22.36 |
| Max  | 24.16 | 24.25 | 24.39 | 24.26 | 24.30 | 24.09 | 23.57 | 22.22 | 23.25 | 23.70 | 24.21 | 23.78 |
| Min  | 23.16 | 23.46 | 23.54 | 23.46 | 23.96 | 23.34 | 22.16 | 22.02 | 23.12 | 23.01 | 23.56 | 21.42 |

| Water Year 2008 |       |
|-----------------|-------|
| Mean            | 23.54 |
| High            | 21.42 |
| Low             | 24.39 |

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