

## GROUND-WATER LEVELS

## ROBESON COUNTY--Continued

343156079174702. County number, RB-148; DENR Rowland Research Station well Z47m2.

LOCATION.--Lat 34°31'55", long 79°17'47", Hydrologic Unit 03040204, in Rowland, southwest of corner of West Elm and South Railroad Streets. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Black Creek aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 263 ft, diameter 4 in. to 230 ft, diameter 2.5 in. from 205 to 263 ft, screened intervals from 247 to 252 ft and 258 to 263 ft.

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

DATUM.--Land-surface datum is 143.15 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of flange attached to floor of instrument shelter, 2.1 ft above land-surface datum (since December 1995).

REMARKS.--Well is part of southern Coastal Plain ground-water level monitoring study.

PERIOD OF RECORD.--April 1971 to current year. Records from April 1971 to January 1984 are from the files of the Groundwater Section, DENR. Water levels measured periodically by USGS personnel since July 1981. Continuous record began December 1995.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.80 ft below land-surface datum, Apr. 30, 1971; lowest recorded, 43.55 ft below land-surface datum, Sept. 14, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   | 40.89 | 41.66 | 41.73 | 41.71 | 41.52 | 41.45 | 41.32 | 41.37 | 41.59 | 42.37 | 42.71 | 43.34 |
| 2   | 40.89 | 41.65 | 41.74 | 41.69 | 41.55 | 41.41 | 41.32 | 41.36 | 41.61 | 42.39 | 42.74 | 43.33 |
| 3   | 40.95 | 41.63 | 41.78 | 41.57 | 41.51 | 41.35 | 41.38 | 41.42 | 41.67 | 42.39 | 42.81 | 43.36 |
| 4   | 41.01 | 41.62 | 41.83 | 41.59 | 41.47 | 41.44 | 41.46 | 41.42 | 41.73 | 42.42 | 42.88 | 43.39 |
| 5   | 41.04 | 41.61 | 41.81 | 41.58 | 41.54 | 41.51 | 41.43 | 41.40 | 41.75 | 42.45 | 42.94 | 43.39 |
| 6   | 41.05 | 41.68 | 41.80 | 41.49 | 41.55 | 41.55 | 41.39 | 41.40 | 41.74 | 42.50 | 42.98 | 43.41 |
| 7   | 41.10 | 41.77 | 41.75 | 41.51 | 41.43 | 41.54 | 41.40 | 41.37 | 41.71 | 42.55 | 43.04 | 43.45 |
| 8   | 41.17 | 41.76 | 41.72 | 41.58 | 41.44 | 41.50 | 41.37 | 41.37 | 41.75 | 42.61 | 43.08 | 43.47 |
| 9   | 41.21 | 41.74 | 41.72 | 41.57 | 41.46 | 41.50 | 41.36 | 41.41 | 41.79 | 42.68 | 43.10 | 43.47 |
| 10  | 41.20 | 41.71 | 41.74 | 41.55 | 41.42 | 41.50 | 41.37 | 41.49 | 41.80 | 42.66 | 43.14 | 43.48 |
| 11  | 41.18 | 41.68 | 41.71 | 41.53 | 41.40 | 41.49 | 41.36 | 41.55 | 41.83 | 42.57 | 43.17 | 43.48 |
| 12  | 41.16 | 41.72 | 41.71 | 41.52 | 41.55 | 41.49 | 41.33 | 41.57 | 41.84 | 42.56 | 43.21 | 43.52 |
| 13  | 41.20 | 41.76 | 41.70 | 41.47 | 41.68 | 41.44 | 41.30 | 41.55 | 41.85 | 42.53 | 43.27 | 43.54 |
| 14  | 41.24 | 41.76 | 41.66 | 41.49 | 41.67 | 41.45 | 41.26 | 41.56 | 41.90 | 42.53 | 43.30 | 43.53 |
| 15  | 41.32 | 41.75 | 41.73 | 41.48 | 41.61 | 41.42 | 41.22 | 41.60 | 41.87 | 42.53 | 43.32 | 43.51 |
| 16  | 41.33 | 41.78 | 41.77 | 41.51 | 41.58 | 41.38 | 41.24 | 41.61 | 41.90 | 42.55 | 43.32 | 43.43 |
| 17  | 41.34 | 41.80 | 41.71 | 41.47 | 41.58 | 41.38 | 41.25 | 41.61 | 41.92 | 42.57 | 43.31 | 43.44 |
| 18  | 41.35 | 41.81 | 41.71 | 41.46 | 41.63 | 41.37 | 41.25 | 41.58 | 42.00 | 42.58 | 43.27 | 43.43 |
| 19  | 41.33 | 41.79 | 41.75 | 41.43 | 41.62 | 41.37 | 41.25 | 41.56 | 42.02 | 42.60 | 43.28 | 43.42 |
| 20  | 41.33 | 41.78 | 41.74 | 41.44 | 41.54 | 41.32 | 41.25 | 41.53 | 42.04 | 42.64 | 43.31 | 43.41 |
| 21  | 41.35 | 41.81 | 41.74 | 41.41 | 41.48 | 41.26 | 41.27 | 41.53 | 42.05 | 42.68 | 43.35 | 43.41 |
| 22  | 41.35 | 41.84 | 41.75 | 41.46 | 41.46 | 41.26 | 41.28 | 41.51 | 42.10 | 42.72 | 43.37 | 43.42 |
| 23  | 41.36 | 41.85 | 41.69 | 41.44 | 41.45 | 41.29 | 41.35 | 41.47 | 42.17 | 42.74 | 43.36 | 43.44 |
| 24  | 41.36 | 41.75 | 41.64 | 41.40 | 41.46 | 41.26 | 41.37 | 41.44 | 42.25 | 42.74 | 43.38 | 43.46 |
| 25  | 41.39 | 41.74 | 41.67 | 41.44 | 41.45 | 41.27 | 41.35 | 41.44 | 42.38 | 42.60 | 43.42 | 43.46 |
| 26  | 41.52 | 41.74 | 41.64 | 41.54 | 41.41 | 41.32 | 41.37 | 41.47 | 42.42 | 42.58 | 43.47 | 43.43 |
| 27  | 41.60 | 41.76 | 41.65 | 41.60 | 41.41 | 41.36 | 41.37 | 41.49 | 42.37 | 42.60 | 43.45 | 43.40 |
| 28  | 41.64 | 41.76 | 41.66 | 41.60 | 41.44 | 41.43 | 41.32 | 41.54 | 42.34 | 42.64 | 43.38 | 43.44 |
| 29  | 41.64 | 41.70 | 41.65 | 41.57 | ---   | 41.46 | 41.33 | 41.53 | 42.34 | 42.67 | 43.37 | 43.47 |
| 30  | 41.62 | 41.70 | 41.70 | 41.55 | ---   | 41.49 | 41.39 | 41.56 | 42.36 | 42.73 | 43.36 | 43.49 |
| 31  | 41.66 | ---   | 41.70 | 41.56 | ---   | 41.41 | ---   | 41.60 | ---   | 42.74 | 43.35 | ---   |

WTR YR 2002 MEAN 41.94 HIGH 40.89 LOW 43.54

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