

Water-Data Report 2008

**335849078054301 Local number BR-100, Well 15A, near Southport, NC (Castle Hayne/PeeDee)**

Northern Atlantic Coastal Plain aquifer system

Peedee Formation

Brunswick County, NC

LOCATION.--Lat 33°58'49", long 78°05'43" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, west of Southport on North Carolina Highway 211, 1.8 mi northwest of intersection with North Carolina Highway 133. Owner: Brunswick County.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 158.3 ft, diameter 6 in.; cased to 60 ft, open hole from 60 ft to 158.3 ft.

DATUM.--Land-surface datum is 56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of instrument shelf, 2.42 ft above land-surface datum, October 19, 1999, to present.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

REMARKS.--Well is completed in the Castle Hayne and Peedee aquifers. Water levels are affected by pumping of nearby water-supply wells. Well is part of the Brunswick County ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.30 ft below land-surface datum, April 1, 2001; lowest water level recorded, 54.96 ft below land-surface datum, September 8, 2008.

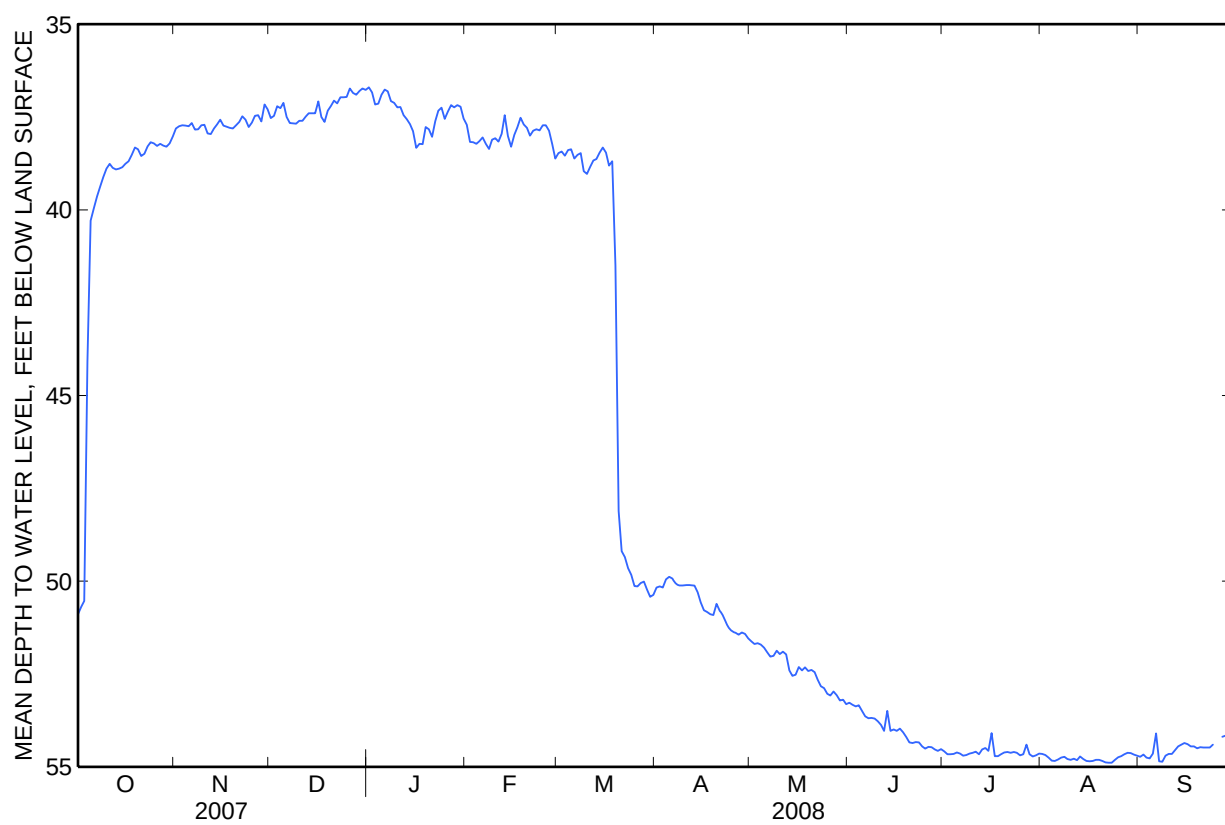
335849078054301 Local number BR-100, Well 15A, near Southport, NC (Castle Hayne/PeeDee)—Continued

**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    | 50.89 | 37.81 | 37.53 | 36.70 | 37.71 | 38.47 | 50.17 | 51.62 | 53.27 | 54.58 | 54.65 | 54.73 |
| 2    | 50.69 | 37.75 | 37.47 | 36.84 | 38.17 | 38.43 | 50.14 | 51.69 | 53.33 | 54.66 | 54.68 | 54.67 |
| 3    | 50.53 | 37.72 | 37.21 | 37.16 | 38.18 | 38.54 | 50.17 | 51.67 | 53.37 | 54.66 | 54.75 | 54.75 |
| 4    | 44.08 | 37.73 | 37.26 | 37.14 | 38.22 | 38.39 | 49.95 | 51.71 | 53.34 | 54.65 | 54.83 | 54.77 |
| 5    | 40.29 | 37.75 | 37.12 | 36.90 | 38.15 | 38.37 | 49.88 | 51.79 | 53.49 | 54.61 | 54.84 | 54.64 |
| 6    | 39.96 | 37.66 | 37.50 | 36.76 | 38.05 | 38.62 | 49.93 | 51.91 | 53.64 | 54.64 | 54.80 | 54.10 |
| 7    | 39.64 | 37.84 | 37.66 | 36.81 | 38.22 | 38.52 | 50.05 | 52.03 | 53.69 | 54.70 | 54.75 | 54.85 |
| 8    | 39.38 | 37.83 | 37.67 | 37.07 | 38.36 | 38.47 | 50.11 | 52.01 | 53.68 | 54.68 | 54.73 | 54.86 |
| 9    | 39.12 | 37.72 | 37.68 | 37.12 | 38.11 | 38.96 | 50.12 | 51.87 | 53.70 | 54.64 | 54.79 | 54.70 |
| 10   | 38.89 | 37.71 | 37.60 | 37.24 | 38.07 | 39.03 | 50.10 | 51.96 | 53.77 | 54.62 | 54.81 | 54.65 |
| 11   | 38.76 | 37.94 | 37.60 | 37.23 | 38.16 | 38.84 | 50.11 | 51.90 | 53.87 | 54.59 | 54.78 | 54.65 |
| 12   | 38.87 | 37.96 | 37.49 | 37.45 | 37.95 | 38.67 | 50.11 | 51.97 | 54.03 | 54.66 | 54.82 | 54.55 |
| 13   | 38.91 | 37.81 | 37.40 | 37.56 | 37.45 | 38.63 | 50.12 | 52.40 | 53.49 | 54.53 | 54.72 | 54.45 |
| 14   | 38.89 | 37.70 | 37.40 | 37.69 | 38.01 | 38.46 | 50.30 | 52.55 | 54.03 | 54.49 | 54.79 | 54.40 |
| 15   | 38.85 | 37.57 | 37.40 | 37.88 | 38.30 | 38.32 | 50.57 | 52.52 | 53.99 | 54.57 | 54.84 | 54.36 |
| 16   | 38.76 | 37.73 | 37.08 | 38.33 | 37.98 | 38.46 | 50.78 | 52.31 | 54.03 | 54.09 | 54.85 | 54.39 |
| 17   | 38.69 | 37.76 | 37.50 | 38.22 | 37.78 | 38.81 | 50.83 | 52.40 | 53.97 | 54.71 | 54.84 | 54.45 |
| 18   | 38.52 | 37.79 | 37.63 | 38.23 | 37.52 | 38.69 | 50.89 | 52.32 | 54.07 | 54.71 | 54.81 | 54.45 |
| 19   | 38.32 | 37.81 | 37.33 | 37.77 | 37.70 | 41.50 | 50.91 | 52.42 | 54.20 | 54.66 | 54.81 | 54.50 |
| 20   | 38.37 | 37.72 | 37.20 | 37.83 | 37.79 | 48.11 | 50.61 | 52.39 | 54.34 | 54.61 | 54.84 | 54.47 |
| 21   | 38.55 | 37.63 | 37.06 | 38.03 | 38.00 | 49.19 | 50.80 | 52.45 | 54.36 | 54.60 | 54.88 | 54.48 |
| 22   | 38.49 | 37.48 | 37.13 | 37.61 | 37.87 | 49.35 | 50.93 | 52.65 | 54.33 | 54.62 | 54.89 | 54.48 |
| 23   | 38.29 | 37.57 | 36.97 | 37.33 | 37.83 | 49.65 | 51.12 | 52.83 | 54.34 | 54.60 | 54.89 | 54.48 |
| 24   | 38.18 | 37.77 | 36.97 | 37.25 | 37.86 | 49.83 | 51.27 | 52.88 | 54.45 | 54.62 | 54.81 | 54.40 |
| 25   | 38.21 | 37.65 | 36.96 | 37.55 | 37.72 | 50.13 | 51.35 | 53.03 | 54.51 | 54.69 | 54.74 | ---   |
| 26   | 38.28 | 37.47 | 36.73 | 37.35 | 37.72 | 50.14 | 51.39 | 53.08 | 54.46 | 54.66 | 54.71 | ---   |
| 27   | 38.22 | 37.45 | 36.85 | 37.18 | 37.87 | 50.05 | 51.44 | 52.97 | 54.47 | 54.40 | 54.66 | 54.19 |
| 28   | 38.27 | 37.62 | 36.90 | 37.24 | 38.23 | 50.01 | 51.38 | 53.07 | 54.53 | 54.66 | 54.62 | 54.16 |
| 29   | 38.30 | 37.16 | 36.80 | 37.18 | 38.62 | 50.22 | 51.42 | 53.21 | 54.57 | 54.72 | 54.63 | 54.14 |
| 30   | 38.21 | 37.29 | 36.73 | 37.22 | ---   | 50.42 | 51.54 | 53.19 | 54.52 | 54.69 | 54.67 | 54.02 |
| 31   | 38.02 | ---   | 36.77 | 37.54 | ---   | 50.37 | ---   | 53.31 | ---   | 54.64 | 54.70 | ---   |
| Mean | 40.05 | 37.68 | 37.25 | 37.40 | 37.99 | 43.02 | 50.62 | 52.39 | 53.99 | 54.61 | 54.77 | 54.49 |
| Max  | 50.89 | 37.96 | 37.68 | 38.33 | 38.62 | 50.42 | 51.54 | 53.31 | 54.57 | 54.72 | 54.89 | 54.86 |
| Min  | 38.02 | 37.16 | 36.73 | 36.70 | 37.45 | 38.32 | 49.88 | 51.62 | 53.27 | 54.09 | 54.62 | 54.02 |

| Water Year 2008 |       |
|-----------------|-------|
| Mean            | 46.15 |
| High            | 36.70 |
| Low             | 54.89 |

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