

Water-Data Report 2010

351709082434101 Local number TR-066 (NC-147), PISGAH NATIONAL FOREST (ALLUVIUM)

Surficial aquifer system
Quaternary Alluvium
Transylvania County, NC

LOCATION.--Lat 35°17'09", long 82°43'41" referenced to North American Datum of 1983, Transylvania County, NC, Hydrologic Unit 06010105, on U.S. Highway 276, 700 ft northwest of U.S. Forest Service Ranger Station in Pisgah National Forest and 3.5 mi north of Brevard. Owner: U.S. Geological Survey.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 4 in., cased to 11.6 ft, screened interval from 11.6 to 21.6 ft; measured depth 22.9 ft.

DATUM.--Land-surface datum is 2,176.70 ft above NGVD of 1929. Measuring point: Top of casing, 2.24 ft above land-surface datum, October 1, 1996 to present.

PERIOD OF RECORD.--June 1985 to current year.

GAGE.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

REMARKS.--Well is part of climatic-effects network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.97 ft below land-surface datum, September 18, 2004; lowest water level recorded, 17.86 ft below land-surface datum, August 25, 26, 2008.

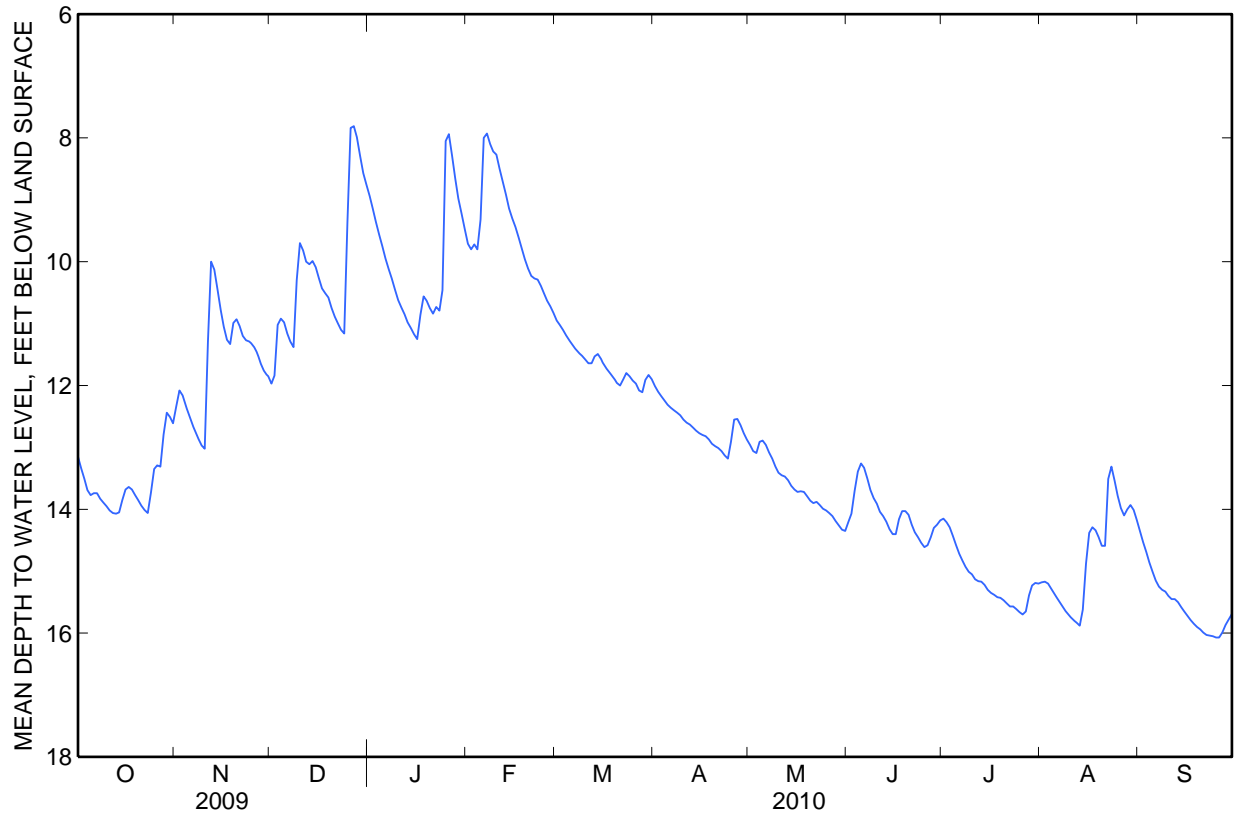
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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 13.15 | 12.34 | 11.97 | 8.94 | 9.71 | 10.95 | 12.01 | 12.96 | 14.21 | 14.15 | 15.18 | 14.35 |
| 2 | 13.34 | 12.08 | 11.84 | 9.14 | 9.80 | 11.02 | 12.10 | 13.06 | 14.07 | 14.21 | 15.17 | 14.53 |
| 3 | 13.51 | 12.16 | 11.02 | 9.36 | 9.72 | 11.10 | 12.17 | 13.09 | 13.70 | 14.29 | 15.20 | 14.69 |
| 4 | 13.69 | 12.32 | 10.92 | 9.56 | 9.80 | 11.19 | 12.24 | 12.91 | 13.39 | 14.43 | 15.28 | 14.86 |
| 5 | 13.77 | 12.47 | 10.98 | 9.75 | 9.32 | 11.27 | 12.31 | 12.89 | 13.26 | 14.58 | 15.37 | 15.01 |
| 6 | 13.74 | 12.62 | 11.16 | 9.95 | 8.00 | 11.35 | 12.36 | 12.96 | 13.33 | 14.72 | 15.45 | 15.15 |
| 7 | 13.74 | 12.74 | 11.29 | 10.12 | 7.93 | 11.41 | 12.40 | 13.08 | 13.50 | 14.83 | 15.52 | 15.25 |
| 8 | 13.83 | 12.86 | 11.38 | 10.27 | 8.10 | 11.47 | 12.44 | 13.18 | 13.69 | 14.93 | 15.60 | 15.30 |
| 9 | 13.89 | 12.97 | 10.30 | 10.45 | 8.22 | 11.52 | 12.48 | 13.31 | 13.82 | 15.01 | 15.67 | 15.33 |
| 10 | 13.95 | 13.02 | 9.70 | 10.62 | 8.27 | 11.58 | 12.55 | 13.41 | 13.91 | 15.05 | 15.74 | 15.40 |
| 11 | 14.02 | 11.30 | 9.82 | 10.74 | 8.50 | 11.64 | 12.60 | 13.45 | 14.04 | 15.13 | 15.79 | 15.45 |
| 12 | 14.06 | 10.00 | 10.0 | 10.85 | 8.71 | 11.64 | 12.63 | 13.47 | 14.11 | 15.16 | 15.83 | 15.45 |
| 13 | 14.07 | 10.13 | 10.04 | 10.98 | 8.92 | 11.53 | 12.68 | 13.53 | 14.20 | 15.17 | 15.88 | 15.50 |
| 14 | 14.05 | 10.45 | 9.99 | 11.07 | 9.14 | 11.49 | 12.73 | 13.62 | 14.32 | 15.22 | 15.62 | 15.58 |
| 15 | 13.85 | 10.78 | 10.09 | 11.17 | 9.30 | 11.57 | 12.77 | 13.68 | 14.40 | 15.30 | 14.88 | 15.65 |
| 16 | 13.68 | 11.05 | 10.27 | 11.25 | 9.44 | 11.67 | 12.80 | 13.72 | 14.40 | 15.35 | 14.38 | 15.72 |
| 17 | 13.64 | 11.26 | 10.43 | 10.86 | 9.61 | 11.75 | 12.82 | 13.71 | 14.16 | 15.38 | 14.29 | 15.79 |
| 18 | 13.68 | 11.33 | 10.51 | 10.56 | 9.79 | 11.81 | 12.87 | 13.72 | 14.03 | 15.42 | 14.34 | 15.85 |
| 19 | 13.77 | 10.99 | 10.58 | 10.63 | 9.96 | 11.88 | 12.94 | 13.79 | 14.03 | 15.43 | 14.45 | 15.90 |
| 20 | 13.85 | 10.93 | 10.75 | 10.75 | 10.11 | 11.96 | 12.98 | 13.86 | 14.09 | 15.47 | 14.59 | 15.94 |
| 21 | 13.94 | 11.04 | 10.89 | 10.84 | 10.23 | 12.00 | 13.01 | 13.90 | 14.25 | 15.52 | 14.59 | 15.99 |
| 22 | 14.01 | 11.20 | 11.00 | 10.73 | 10.27 | 11.90 | 13.06 | 13.88 | 14.37 | 15.57 | 13.51 | 16.03 |
| 23 | 14.06 | 11.27 | 11.10 | 10.79 | 10.29 | 11.80 | 13.13 | 13.93 | 14.45 | 15.57 | 13.31 | 16.04 |
| 24 | 13.73 | 11.29 | 11.16 | 10.46 | 10.39 | 11.85 | 13.18 | 13.99 | 14.54 | 15.61 | 13.54 | 16.05 |
| 25 | 13.35 | 11.34 | 9.36 | 8.05 | 10.51 | 11.92 | 12.91 | 14.02 | 14.61 | 15.66 | 13.78 | 16.07 |
| 26 | 13.29 | 11.42 | 7.84 | 7.94 | 10.63 | 11.97 | 12.55 | 14.06 | 14.58 | 15.70 | 13.98 | 16.07 |
| 27 | 13.31 | 11.54 | 7.81 | 8.29 | 10.72 | 12.08 | 12.54 | 14.11 | 14.45 | 15.65 | 14.10 | 15.99 |
| 28 | 12.79 | 11.69 | 7.99 | 8.66 | 10.83 | 12.11 | 12.64 | 14.19 | 14.30 | 15.39 | 14.00 | 15.87 |
| 29 | 12.44 | 11.79 | 8.29 | 8.98 | --- | 11.91 | 12.77 | 14.26 | 14.25 | 15.23 | 13.93 | 15.78 |
| 30 | 12.51 | 11.85 | 8.57 | 9.22 | --- | 11.83 | 12.87 | 14.33 | 14.18 | 15.19 | 14.01 | 15.69 |
| 31 | 12.61 | --- | 8.76 | 9.47 | --- | 11.90 | --- | 14.35 | --- | 15.20 | 14.17 | --- |
| Mean | 13.59 | 11.61 | 10.19 | 10.01 | 9.51 | 11.65 | 12.65 | 13.63 | 14.09 | 15.15 | 14.75 | 15.54 |
| Max | 14.07 | 13.02 | 11.97 | 11.25 | 10.83 | 12.11 | 13.18 | 14.35 | 14.61 | 15.70 | 15.88 | 16.07 |
| Min | 12.44 | 10.00 | 7.81 | 7.94 | 7.93 | 10.95 | 12.01 | 12.89 | 13.26 | 14.15 | 13.31 | 14.35 |

| Water Year 2010 | |
|-----------------|-------|
| Mean | 12.71 |
| High | 7.81 |
| Low | 16.07 |

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