



Water-Data Report 2010

353135080524202 Local number IR-131, NCDENR LANGTREE RESEARCH STATION MW-2I NEAR MOUNT MOURNE, NC (TRANSITION ZONE)

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

Iredell County, NC

LOCATION.--Lat 35°31'36", long 80°52'42" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 48 ft, diameter 4 in., cased to 33 ft, screened interval from 33 to 48 ft.

DATUM.--Land-surface datum is 802.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of instrument shelter floor, 0.93 ft above land-surface datum.

PERIOD OF RECORD.--March 2001 to current year.

REVISED RECORDS.--WDR-US-2009: Lowest water level for period of record.

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

REMARKS.--Well is part of the Catawba-Wateree Drought Monitoring Network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.66 ft below land-surface datum, June 23, 2003; lowest water level recorded, 25.38 ft below land-surface datum, November 3, 5, 6, 2002.

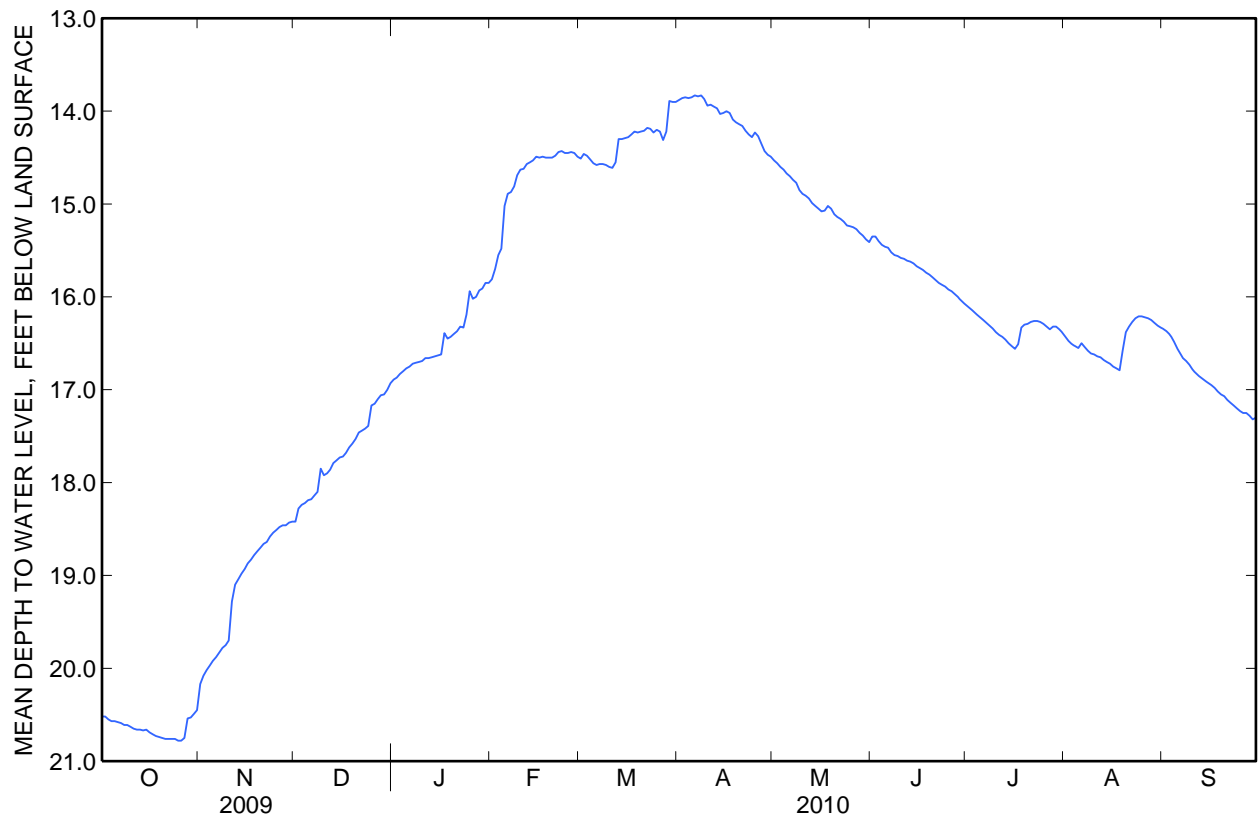
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 20.52 | 20.17 | 18.42 | 16.89 | 15.81 | 14.51 | 13.88 | 14.53 | 15.35 | 16.10 | 16.43 | 16.35 |
| 2 | 20.52 | 20.08 | 18.28 | 16.87 | 15.70 | 14.46 | 13.86 | 14.56 | 15.35 | 16.13 | 16.48 | 16.38 |
| 3 | 20.55 | 20.02 | 18.24 | 16.83 | 15.55 | 14.48 | 13.85 | 14.60 | 15.40 | 16.16 | 16.51 | 16.41 |
| 4 | 20.57 | 19.97 | 18.22 | 16.80 | 15.48 | 14.52 | 13.86 | 14.63 | 15.44 | 16.19 | 16.53 | 16.47 |
| 5 | 20.57 | 19.92 | 18.19 | 16.77 | 15.02 | 14.56 | 13.85 | 14.67 | 15.46 | 16.22 | 16.55 | 16.54 |
| 6 | 20.58 | 19.88 | 18.18 | 16.75 | 14.89 | 14.58 | 13.83 | 14.70 | 15.47 | 16.25 | 16.50 | 16.60 |
| 7 | 20.59 | 19.83 | 18.14 | 16.72 | 14.87 | 14.57 | 13.84 | 14.74 | 15.52 | 16.28 | 16.54 | 16.66 |
| 8 | 20.61 | 19.78 | 18.10 | 16.71 | 14.81 | 14.57 | 13.83 | 14.77 | 15.55 | 16.31 | 16.58 | 16.69 |
| 9 | 20.61 | 19.75 | 17.85 | 16.70 | 14.69 | 14.58 | 13.87 | 14.85 | 15.56 | 16.34 | 16.61 | 16.73 |
| 10 | 20.63 | 19.70 | 17.92 | 16.69 | 14.63 | 14.60 | 13.94 | 14.89 | 15.58 | 16.38 | 16.62 | 16.78 |
| 11 | 20.65 | 19.28 | 17.90 | 16.66 | 14.62 | 14.61 | 13.93 | 14.91 | 15.59 | 16.41 | 16.64 | 16.82 |
| 12 | 20.66 | 19.10 | 17.86 | 16.66 | 14.57 | 14.55 | 13.95 | 14.94 | 15.61 | 16.43 | 16.65 | 16.85 |
| 13 | 20.66 | 19.04 | 17.79 | 16.65 | 14.55 | 14.30 | 13.97 | 14.99 | 15.62 | 16.46 | 16.68 | 16.88 |
| 14 | 20.67 | 18.98 | 17.76 | 16.64 | 14.53 | 14.30 | 14.03 | 15.02 | 15.64 | 16.50 | 16.70 | 16.90 |
| 15 | 20.66 | 18.93 | 17.73 | 16.63 | 14.49 | 14.29 | 14.02 | 15.05 | 15.67 | 16.53 | 16.72 | 16.93 |
| 16 | 20.69 | 18.87 | 17.72 | 16.62 | 14.50 | 14.28 | 14.00 | 15.08 | 15.69 | 16.56 | 16.75 | 16.95 |
| 17 | 20.71 | 18.83 | 17.68 | 16.39 | 14.49 | 14.25 | 14.02 | 15.07 | 15.71 | 16.51 | 16.77 | 16.98 |
| 18 | 20.73 | 18.78 | 17.62 | 16.45 | 14.50 | 14.22 | 14.09 | 15.02 | 15.74 | 16.33 | 16.79 | 17.02 |
| 19 | 20.74 | 18.74 | 17.58 | 16.43 | 14.50 | 14.23 | 14.12 | 15.05 | 15.76 | 16.30 | 16.58 | 17.05 |
| 20 | 20.75 | 18.70 | 17.53 | 16.40 | 14.50 | 14.22 | 14.14 | 15.11 | 15.79 | 16.29 | 16.38 | 17.07 |
| 21 | 20.76 | 18.66 | 17.46 | 16.37 | 14.48 | 14.21 | 14.16 | 15.14 | 15.82 | 16.27 | 16.32 | 17.11 |
| 22 | 20.76 | 18.64 | 17.44 | 16.32 | 14.44 | 14.18 | 14.21 | 15.16 | 15.85 | 16.26 | 16.27 | 17.14 |
| 23 | 20.76 | 18.58 | 17.42 | 16.33 | 14.43 | 14.19 | 14.25 | 15.19 | 15.87 | 16.26 | 16.23 | 17.17 |
| 24 | 20.76 | 18.54 | 17.39 | 16.19 | 14.45 | 14.23 | 14.28 | 15.23 | 15.89 | 16.27 | 16.21 | 17.20 |
| 25 | 20.78 | 18.51 | 17.17 | 15.94 | 14.45 | 14.20 | 14.23 | 15.24 | 15.92 | 16.29 | 16.21 | 17.23 |
| 26 | 20.78 | 18.48 | 17.15 | 16.02 | 14.44 | 14.22 | 14.27 | 15.25 | 15.94 | 16.32 | 16.22 | 17.25 |
| 27 | 20.75 | 18.46 | 17.10 | 16.00 | 14.45 | 14.31 | 14.35 | 15.27 | 15.97 | 16.35 | 16.23 | 17.25 |
| 28 | 20.54 | 18.46 | 17.06 | 15.93 | 14.49 | 14.22 | 14.43 | 15.31 | 16.00 | 16.32 | 16.25 | 17.28 |
| 29 | 20.53 | 18.43 | 17.05 | 15.91 | --- | 13.89 | 14.47 | 15.34 | 16.04 | 16.32 | 16.28 | 17.32 |
| 30 | 20.49 | 18.42 | 17.00 | 15.85 | --- | 13.90 | 14.49 | 15.38 | 16.07 | 16.35 | 16.31 | 17.30 |
| 31 | 20.45 | --- | 16.93 | 15.85 | --- | 13.90 | --- | 15.41 | --- | 16.39 | 16.33 | --- |
| Mean | 20.65 | 19.12 | 17.67 | 16.45 | 14.73 | 14.33 | 14.07 | 15.00 | 15.70 | 16.33 | 16.48 | 16.91 |
| Max | 20.78 | 20.17 | 18.42 | 16.89 | 15.81 | 14.61 | 14.49 | 15.41 | 16.07 | 16.56 | 16.79 | 17.32 |
| Min | 20.45 | 18.42 | 16.93 | 15.85 | 14.43 | 13.89 | 13.83 | 14.53 | 15.35 | 16.10 | 16.21 | 16.35 |

| Water Year 2010 | |
|-----------------|-------|
| Mean | 16.47 |
| High | 13.83 |
| Low | 20.78 |

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