



Water-Data Report 2010

354133082042203 Local number MC-109 PLEASANT GARDENS RESEARCH STATION AT PLEASANT GARDENS, NC (BEDROCK)

Piedmont and Blue Ridge crystalline-rock aquifers
Bedrock Undifferentiated
McDowell County, NC

LOCATION.--Lat 35°41'33.4", long 82°04'22.6" referenced to North American Datum of 1983, McDowell County, NC, Hydrologic Unit 03050101, 3.6 mi west of Marion, at Pleasant Gardens.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 300 ft, diameter 6 in.

DATUM.--Land-surface datum is 1,360 ft above National Geodetic Vertical Datum of 1929. Measuring point: Rim of casing, 1.02 ft above land-surface datum,

PERIOD OF RECORD.--August 2010 to September 2010.

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 recorded, 29.99 ft below land-surface datum, August 26, 2010; lowest water level recorded, 30.92 ft below land-surface datum, September 26, 2010.

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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 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.06 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.08 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.10 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.15 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.20 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.25 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.28 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.29 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.32 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.36 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.40 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.44 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.49 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.53 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.58 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.60 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.64 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.69 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.72 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.23 | 30.75 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.17 | 30.79 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.09 | 30.83 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.05 | 30.86 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.02 | 30.88 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.01 | 30.89 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.01 | 30.90 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.01 | 30.87 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.03 | 30.88 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.03 | 30.91 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.05 | 30.88 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.05 | --- |
| Mean | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 30.06 | 30.55 |

| Water Year 2010 | |
|-----------------|-------|
| Mean | 30.41 |

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