

Water-Data Report 2008

**352827082383901 Local number BU-083, NCDENR Bent Creek Research Station MW-7S near Bent Creek,
NC (Regolith)**

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

Buncombe County, NC

LOCATION.--Lat 35°29'27", long 82°38'39" referenced to North American Datum of 1983, Buncombe County, NC, Hydrologic Unit 06010105, in Bent Creek Research Forest, 1.2 mi north of Blue Ridge Parkway, 3.2 mi southwest of Bent Creek. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 25 ft, diameter 4 in., cased to 10 ft, screened interval from 10 ft to 25 ft, sand filter packed from 8 ft to 25 ft.

DATUM.--Land-surface datum is 2,368.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 2.96 ft above land-surface datum, February 4, 2003, to present.

PERIOD OF RECORD.--February 2003 to current year. Continuous record June 2005 to June 2006, and May 2008 to current year.

GAGE.--Measured periodically with electric and steel tape. Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.75 ft below land-surface datum, April 22, 23, 2006; lowest water level recorded 12.20 ft below land-surface datum, August 23, 2008.

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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	---	---	---	---	---	---	---	---	11.61	11.54	11.98	11.62
2	---	---	---	---	---	---	---	---	11.62	11.56	12.00	11.64
3	---	---	---	---	---	---	---	---	11.62	11.59	12.01	11.66
4	---	---	---	---	---	---	---	---	11.64	11.60	12.03	11.69
5	---	---	---	---	---	---	---	---	11.66	11.61	12.04	11.70
6	---	---	---	---	---	---	---	---	11.68	11.63	12.05	11.72
7	---	---	---	---	---	---	---	---	11.69	11.63	12.06	11.75
8	---	---	---	---	---	---	---	---	11.69	11.65	12.07	11.76
9	---	---	---	---	---	---	---	---	11.71	11.65	12.09	11.76
10	---	---	---	---	---	---	---	---	11.59	11.66	12.09	11.76
11	---	---	---	---	---	---	---	---	11.22	11.66	12.10	11.76
12	---	---	---	---	---	---	---	---	11.35	11.69	12.11	11.76
13	---	---	---	---	---	---	---	---	11.42	11.70	12.10	11.77
14	---	---	---	---	---	---	---	---	11.21	11.72	12.11	11.78
15	---	---	---	---	---	---	---	---	10.81	11.75	12.13	11.79
16	---	---	---	---	---	---	---	---	10.89	11.77	12.13	11.81
17	---	---	---	---	---	---	---	11.45	10.97	11.79	12.14	11.80
18	---	---	---	---	---	---	---	11.46	11.06	11.80	12.14	11.81
19	---	---	---	---	---	---	---	11.48	11.14	11.82	12.15	11.82
20	---	---	---	---	---	---	---	11.48	11.19	11.84	12.16	11.83
21	---	---	---	---	---	---	---	11.50	11.23	11.86	12.17	11.83
22	---	---	---	---	---	---	---	11.52	11.27	11.88	12.18	11.84
23	---	---	---	---	---	---	---	11.53	11.32	11.89	12.18	11.85
24	---	---	---	---	---	---	---	11.54	11.37	11.91	12.18	11.86
25	---	---	---	---	---	---	---	11.55	11.41	11.92	12.17	11.87
26	---	---	---	---	---	---	---	11.56	11.44	11.92	11.95	11.87
27	---	---	---	---	---	---	---	11.57	11.46	11.93	11.34	11.87
28	---	---	---	---	---	---	---	11.57	11.48	11.95	11.30	11.88
29	---	---	---	---	---	---	---	11.57	11.50	11.95	11.37	11.88
30	---	---	---	---	---	---	---	11.59	11.52	11.95	11.51	11.89
31	---	---	---	---	---	---	---	11.60	---	11.97	11.58	---
Mean	---	---	---	---	---	---	---	---	11.39	11.77	11.99	11.79
Max	---	---	---	---	---	---	---	---	11.71	11.97	12.18	11.89
Min	---	---	---	---	---	---	---	---	10.81	11.54	11.30	11.62

