



Water-Data Report 2008

355427080493703 Local number IR-175, NCDENR Allison Woods Research Station MW-4D (Bedrock), near Turnersburg, NC

Piedmont and Blue Ridge crystalline-rock aquifers
Mafic Gneiss
Iredell County, NC

LOCATION.--Lat 35°54'27.84", long 80°49'37.20" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03040102, 1.7 mi east of U.S. Interstate 77, 0.4 mi north of U.S. Highway 21 on Allison Woods Foundation property. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 300 ft, diameter 6 in., cased to 45 ft, open hole from 45 ft to 300 ft.

DATUM.--Land-surface datum is 836.79 ft above North American Vertical Datum of 1988. Measuring point: mark on PVC, 3.34 ft above land-surface datum, May 12, 2006, to present.

PERIOD OF RECORD.--May 2006 to current year. Continuous record began January 2008.

GAGE.--Measured periodically with electric tape (by USGS and NCDENR, Division of Water Quality). Water-level recorder collecting data at 15-minute intervals.

REMARKS.--Well is part of Piedmont/Mountains groundwater project.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.71 ft below land-surface datum, May 12, 2006; lowest water level recorded, 9.46 ft below land-surface datum, July 22, 2008.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level
Oct 16, 2007	8.97	Apr 14, 2008	8.63
31	9.02	21	8.71
Nov 15	8.76	May 14	8.87
30	8.81	Jun 12	9.05
Dec 20	8.87	30	9.18
Jan 25, 2008	8.96	Jul 18	9.34
Feb 21	8.89	29	9.33
Mar 28	8.81	Sep 4	9.35

Highest: 8.63 Apr 14, 2008

Lowest: 9.35 Sep 04, 2008

355427080493703 Local number IR-175, NCDENR Allison Woods Research Station MW-4D (Bedrock), near Turnersburg, NC—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	---	---	---	---	8.84	8.88	8.80	8.74	---	9.21	---	---
2	---	---	---	---	8.76	8.89	8.81	8.75	---	9.23	---	---
3	---	---	---	---	8.79	8.89	8.79	8.75	---	9.24	---	---
4	---	---	---	---	8.79	8.86	8.64	8.77	---	9.24	---	---
5	---	---	---	---	8.74	8.80	8.42	8.78	---	9.21	---	---
6	---	---	---	---	8.74	8.79	8.40	8.80	---	9.20	---	---
7	---	---	---	---	8.77	8.72	8.42	8.81	---	9.21	---	---
8	---	---	---	---	8.80	8.61	8.46	8.81	---	9.22	---	---
9	---	---	---	---	8.81	8.65	8.50	8.81	---	9.22	---	---
10	---	---	---	---	8.84	8.67	8.54	8.83	---	9.21	---	---
11	---	---	---	---	8.85	8.68	8.56	8.82	---	9.21	---	---
12	---	---	---	---	8.85	8.70	8.57	8.85	---	9.24	---	---
13	---	---	---	---	8.83	8.72	8.61	8.87	---	9.25	---	---
14	---	---	---	---	8.86	8.73	8.63	8.86	---	9.25	---	---
15	---	---	---	---	8.86	8.74	8.66	8.84	---	9.28	---	---
16	---	---	---	---	8.86	8.77	8.68	8.83	---	9.30	---	---
17	---	---	---	---	8.84	8.79	8.68	8.86	---	9.32	---	---
18	---	---	---	---	8.84	8.78	8.68	8.86	---	9.33	---	---
19	---	---	---	---	8.86	8.76	8.69	8.88	---	9.34	---	---
20	---	---	---	---	8.86	8.76	8.69	8.87	---	9.36	---	---
21	---	---	---	---	8.87	8.76	8.67	8.89	---	9.38	---	---
22	---	---	---	---	8.86	8.75	8.65	8.91	---	9.39	---	---
23	---	---	---	---	8.87	8.78	8.66	8.92	---	9.31	---	---
24	---	---	---	---	8.88	8.79	8.68	8.93	---	9.30	---	---
25	---	---	---	---	8.88	8.80	8.68	8.94	---	9.31	---	---
26	---	---	---	8.93	8.86	8.80	8.69	8.95	---	9.29	---	---
27	---	---	---	8.94	8.88	8.80	8.69	---	---	9.29	---	---
28	---	---	---	8.95	8.89	8.80	8.68	---	---	9.32	---	---
29	---	---	---	8.94	8.89	8.82	8.70	---	---	---	---	---
30	---	---	---	8.96	---	8.83	8.73	---	---	---	---	---
31	---	---	---	8.97	---	8.81	---	---	---	---	---	---
Mean	---	---	---	---	8.84	8.77	8.64	---	---	---	---	---
Max	---	---	---	---	8.89	8.89	8.81	---	---	---	---	---
Min	---	---	---	---	8.74	8.61	8.40	---	---	---	---	---

355427080493703 Local number IR-175, NCDENR Allison Woods Research Station MW-4D (Bedrock), near Turnersburg, NC—Continued

