

**355429080492303 Local number IR-163, NCDENR Allison Woods Research Station MW-1D (Bedrock),  
near Turnersburg, NC**

Piedmont and Blue Ridge crystalline-rock aquifers  
Mafic Gneiss

Iredell County, NC

LOCATION.--Lat 35°54'29.70", long 80°49'23.16" 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 400 ft, diameter 6 in., cased to 90 ft, open hole from 90 ft to 400 ft.

DATUM.--Land-surface datum is 898.96 ft above North American Vertical Datum of 1988. Measuring point: mark on PVC, 3.06 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, 65.44 ft below land-surface datum, April 24, 2007; lowest water level recorded, 70.02 ft below land-surface datum, September 4, 2008.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM**

Date	Water level	Date	Water level
Oct 16, 2007	68.42	Apr 21, 2008	68.64
31	68.69	May 14	68.99
Nov 15	68.55	27	69.10
30	68.55	Jun 12	69.09
Dec 20	68.57	30	69.51
Jan 25, 2008	68.74	Jul 18	69.75
Feb 21	68.91	29	69.84
Mar 28	68.82	Sep 4	70.02

Highest: 68.42 Oct 16, 2007

Lowest: 70.02 Sep 04, 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	---	---	---	---	68.69	68.88	68.80	68.80	68.87	69.47	---	---
2	---	---	---	---	68.67	68.89	68.85	68.82	68.91	69.50	---	---
3	---	---	---	---	68.68	68.88	68.85	68.82	68.93	69.52	---	---
4	---	---	---	---	68.67	68.83	68.71	68.83	68.90	69.52	---	---
5	---	---	---	---	68.64	68.82	68.59	68.85	68.96	69.51	---	---
6	---	---	---	---	68.61	68.84	68.56	68.87	68.98	69.52	---	---
7	---	---	---	---	68.65	68.75	68.56	68.87	69.00	69.53	---	---
8	---	---	---	---	68.70	68.68	68.56	68.92	69.00	69.54	---	---
9	---	---	---	---	68.70	68.77	68.57	68.86	69.02	69.53	---	---
10	---	---	---	---	68.72	68.74	68.57	68.90	69.04	69.53	---	---
11	---	---	---	---	68.79	68.71	68.55	68.88	69.07	69.54	---	---
12	---	---	---	---	68.75	68.71	68.55	68.92	69.09	69.58	---	---
13	---	---	---	---	68.72	68.75	68.59	68.96	69.10	69.58	---	---
14	---	---	---	---	68.86	68.72	68.61	68.95	69.11	69.59	---	---
15	---	---	---	---	68.83	68.72	68.62	68.93	69.10	69.64	---	---
16	---	---	---	---	68.83	68.77	68.62	68.91	69.15	69.66	---	---
17	---	---	---	---	68.81	68.81	68.62	68.96	69.18	69.68	---	---
18	---	---	---	---	68.79	68.77	68.65	69.05	69.22	69.69	---	---
19	---	---	---	---	68.86	68.70	68.65	69.05	69.26	69.70	---	---
20	---	---	---	---	68.88	68.74	68.66	68.97	69.30	69.72	---	---
21	---	---	---	---	68.90	68.76	68.67	69.01	69.30	69.75	---	---
22	---	---	---	---	68.85	68.76	68.68	69.04	69.32	69.77	---	---
23	---	---	---	---	68.87	68.81	68.71	69.06	69.34	69.72	---	---
24	---	---	---	---	68.89	68.81	68.71	69.08	69.36	69.73	---	---
25	---	---	---	---	68.86	68.83	68.72	69.08	69.42	69.75	---	---
26	---	---	---	68.69	68.82	68.80	68.71	69.09	69.42	69.72	---	---
27	---	---	---	68.71	68.87	68.79	68.73	---	69.43	69.72	---	---
28	---	---	---	68.72	68.91	68.80	68.70	---	69.45	69.75	---	---
29	---	---	---	68.69	68.91	68.84	68.75	---	69.44	---	---	---
30	---	---	---	68.73	---	68.85	68.79	---	69.42	---	---	---
31	---	---	---	68.83	---	68.84	---	68.85	---	---	---	---
Mean	---	---	---	---	68.78	68.79	68.66	---	69.17	---	---	---
Max	---	---	---	---	68.91	68.89	68.85	---	69.45	---	---	---
Min	---	---	---	---	68.61	68.68	68.55	---	68.87	---	---	---

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