



Water-Data Report 2007

**353135080524203 Local number IR-132, DENR Langtree Research Station MW-2D (Bedrock well)**

Piedmont and Blue Ridge crystalline-rock aquifers  
Intermediate Intrusive Igneous Rock

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.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., cased to 53 ft, open hole from 53 to 400 ft.

DATUM.--Land-surface datum is 802.69 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: instrument shelter floor, 1.40 ft above land-surface datum, March 1, 2001, to present.

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

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

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Well is affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.46 ft below land-surface datum, June 12, 13, 14, 2003; lowest water level recorded, 31.72 ft below land-surface datum, October 30, 2002.

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23.07	22.90	20.67	20.44	19.86	19.55	19.39	20.00	21.16	22.49	23.56	24.14
2	23.08	23.09	20.67	20.44	19.81	19.19	19.56	20.02	21.20	22.54	23.59	24.11
3	23.14	23.20	20.65	20.40	19.82	19.17	19.64	20.05	21.15	22.57	23.63	24.09
4	23.13	23.16	20.64	20.38	19.81	19.14	19.55	20.03	21.11	22.56	23.69	24.11
5	23.11	23.09	20.63	---	19.81	19.09	19.50	19.97	21.08	22.63	23.75	24.12
6	23.10	23.04	20.61	---	19.81	19.07	19.45	19.97	21.13	22.64	23.80	24.11
7	23.09	22.96	20.60	20.37	19.79	19.01	19.44	19.98	21.25	22.67	23.87	24.11
8	23.09	22.86	20.62	20.22	19.82	18.99	19.44	19.94	21.34	22.72	23.95	24.10
9	23.07	22.82	20.62	20.20	19.80	18.97	19.43	19.92	21.37	22.79	24.00	24.08
10	23.05	22.80	20.64	20.20	19.81	18.94	19.41	19.91	21.37	22.85	24.04	24.07
11	23.04	22.77	20.65	20.17	20.01	18.92	19.37	19.92	21.44	22.89	24.09	24.05
12	23.03	22.72	20.63	20.17	20.23	18.92	19.33	19.95	21.49	22.91	24.14	24.03
13	23.02	22.65	20.61	20.15	20.32	18.91	19.36	19.98	21.46	22.96	24.20	24.01
14	22.99	22.59	20.63	20.15	20.19	18.90	19.32	20.03	21.45	23.01	24.25	23.98
15	22.94	22.55	20.64	20.14	20.13	18.89	19.19	20.05	21.45	23.05	24.30	23.95
16	22.90	22.24	20.66	20.15	20.06	18.85	19.18	20.10	21.49	23.09	24.34	23.93
17	22.88	22.02	20.70	20.19	20.09	18.84	19.15	20.18	21.54	23.11	24.38	23.95
18	22.82	21.87	20.75	20.12	20.18	18.84	19.12	20.25	21.64	23.14	24.42	23.97
19	22.79	21.76	20.90	20.05	20.29	18.84	19.12	20.36	21.77	23.14	24.45	24.04
20	22.76	21.71	20.97	20.07	20.27	18.84	19.16	20.51	21.88	23.15	24.47	24.55
21	22.78	21.65	20.90	20.07	20.15	18.96	19.17	20.68	21.97	23.17	24.50	24.46
22	22.77	21.39	20.81	20.05	20.05	19.18	19.18	20.78	22.06	23.18	24.48	24.27
23	22.77	---	20.80	20.02	20.01	19.35	19.21	20.80	22.16	23.22	24.42	24.20
24	22.79	---	20.82	19.95	19.96	19.37	19.31	20.82	22.26	23.23	24.35	24.18
25	22.81	---	20.72	19.89	19.85	19.32	19.31	20.84	22.34	23.26	24.31	24.16
26	22.80	---	20.61	19.86	19.76	19.28	19.34	20.87	22.40	23.30	24.30	24.14
27	22.78	20.91	20.59	19.82	19.70	19.21	19.39	20.99	22.41	23.32	24.29	24.16
28	22.75	20.85	20.57	19.82	19.66	19.18	19.48	20.97	22.42	23.35	24.26	24.18
29	22.77	20.80	20.54	19.91	---	19.22	19.65	20.98	22.43	23.40	24.23	24.21
30	22.75	20.73	20.55	19.95	---	19.25	19.87	21.04	22.45	23.46	24.19	24.24
31	22.76	---	20.50	19.94	---	19.29	---	21.11	---	23.51	24.17	---
<b>Mean</b>	22.92	22.27	20.67	20.11	19.97	19.08	19.37	20.35	21.69	23.01	24.14	24.12
<b>Max</b>	23.14	23.20	20.97	20.44	20.32	19.55	19.87	21.11	22.45	23.51	24.50	24.55
<b>Min</b>	22.75	20.73	20.50	19.82	19.66	18.84	19.12	19.91	21.08	22.49	23.56	23.93

<b>Water Year 2007</b>	
<b>Mean</b>	21.48
<b>High</b>	18.84
<b>Low</b>	24.55

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