

Water-Data Report 2008

**353135080524202 Local number IR-131, NCDENR Langtree Research Station MW-2I (Transition Zone),
near Mount Mourne, NC**

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

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 48 ft, diameter 4 in., cased to 33 ft, screened interval from 33 to 48 ft.

DATUM.--Land-surface datum is 802.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: instrument shelter floor, 0.93 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.66 ft below land-surface datum, June 23, 2003; lowest water level recorded, 25.38 ft below land-surface datum, November 3, 5, 6, 2002.

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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	21.62	22.20	22.69	22.87	23.10	22.69	21.53	20.97	21.24	22.12	22.85	22.62
2	21.64	22.23	22.69	22.91	23.02	22.69	21.54	20.97	21.28	22.16	22.86	22.58
3	21.65	22.22	22.70	22.94	22.99	22.68	21.52	20.96	21.30	22.18	22.89	22.55
4	21.68	22.25	22.69	22.95	22.97	22.63	21.48	20.96	21.32	22.21	22.91	22.53
5	21.71	22.27	22.67	22.96	22.95	22.57	21.42	20.96	21.38	22.24	22.93	22.50
6	21.72	22.29	22.76	22.98	22.93	22.51	21.38	20.96	21.41	22.28	22.95	22.48
7	21.73	22.33	22.77	23.00	22.93	22.41	21.36	20.95	21.43	22.31	22.95	22.47
8	21.75	22.34	22.78	23.01	22.92	22.32	21.34	20.93	21.45	22.33	22.97	22.46
9	21.76	22.34	22.80	23.03	22.91	22.28	21.30	20.92	21.48	22.36	23.00	22.44
10	21.77	22.37	22.82	23.04	22.91	22.22	21.28	20.94	21.51	22.38	23.02	22.44
11	21.81	22.39	22.83	23.00	22.91	22.15	21.25	20.92	21.55	22.39	23.04	22.43
12	21.85	22.40	22.84	23.07	22.87	22.11	21.21	20.96	21.58	22.41	23.06	22.42
13	21.87	22.41	22.85	23.07	22.85	22.08	21.21	20.99	21.60	22.42	23.07	22.41
14	21.89	22.40	22.87	23.08	22.88	22.03	21.19	20.99	21.61	22.45	23.09	22.40
15	21.91	22.41	22.87	23.09	22.86	22.00	21.17	20.98	21.63	22.49	23.11	22.41
16	21.92	22.47	22.85	23.10	22.85	21.99	21.15	20.97	21.65	22.52	23.12	22.43
17	21.94	22.48	22.91	23.09	22.81	21.95	21.11	20.99	21.68	22.54	23.13	22.42
18	21.95	22.51	22.92	23.09	22.80	21.90	21.09	20.97	21.72	22.56	23.14	22.42
19	21.94	22.52	22.92	23.10	22.82	21.83	21.05	21.00	21.76	22.58	23.15	22.43
20	22.01	22.53	22.94	23.13	22.80	21.83	21.04	21.00	21.79	22.61	23.17	22.44
21	22.04	22.54	22.95	23.13	22.80	21.79	21.03	21.03	21.82	22.63	23.18	22.46
22	22.05	22.53	22.97	23.11	22.76	21.74	21.03	21.07	21.84	22.66	23.19	22.48
23	22.05	22.57	22.97	23.11	22.77	21.74	21.03	21.08	21.88	22.67	23.20	22.49
24	22.06	22.59	22.99	23.12	22.77	21.72	21.02	21.11	21.92	22.70	23.20	22.50
25	22.11	22.60	23.00	23.14	22.75	21.69	---	21.13	21.95	22.73	23.21	22.51
26	22.13	22.60	23.01	23.13	22.72	21.66	21.02	21.13	21.96	22.73	23.22	22.51
27	22.15	22.63	23.02	23.14	22.74	21.62	21.02	21.14	21.98	22.75	23.00	22.53
28	22.19	22.64	23.03	23.15	22.73	21.60	---	21.18	22.02	22.77	22.80	22.53
29	22.20	22.65	23.03	23.12	22.71	21.61	21.00	21.19	22.04	22.79	22.74	22.54
30	22.21	22.67	23.01	23.14	---	21.60	20.98	21.21	22.07	22.81	22.69	22.54
31	22.21	---	22.89	23.17	---	21.56	---	21.21	---	22.83	22.65	---
Mean	21.92	22.45	22.87	23.06	22.86	22.04	21.21	21.02	21.66	22.50	23.02	22.48
Max	22.21	22.67	23.03	23.17	23.10	22.69	21.54	21.21	22.07	22.83	23.22	22.62
Min	21.62	22.20	22.67	22.87	22.71	21.56	20.98	20.92	21.24	22.12	22.65	22.40

Water Year 2008	
Mean	22.26
High	20.92
Low	23.22

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