



Water-Data Report 2007

353135080524201 Local number IR-130, DENR Langtree Research Station MW-2S (Regolith well)

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Iredell County, NC

LOCATION.--Lat 35°31'35", 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 28 ft, diameter 4 in., cased to 13 ft, screened interval from 13 to 28 ft, sand filter packed from 10 to 28 ft.

DATUM.--Land-surface datum is 803.08 ft above National Geodetic Vertical Datum of 1929. Measuring point: floor of recorder shelter, 1.08 ft above land-surface datum, Mar. 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 recorded, 13.39 ft below land-surface datum, June 19, 2003; lowest water level recorded, 24.91 ft below land-surface datum, November 5, 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	20.55	20.75	19.13	18.79	18.09	17.82	17.26	17.46	18.24	19.28	20.16	20.98
2	20.56	20.76	19.12	18.79	18.09	17.65	17.26	17.49	18.27	19.31	20.20	21.00
3	20.57	20.76	19.09	18.77	18.11	17.66	17.27	17.52	18.25	19.34	20.22	21.01
4	20.58	20.77	19.07	18.75	18.10	17.63	17.26	17.55	18.31	19.37	20.24	21.03
5	20.59	20.78	19.03	18.73	18.10	17.59	17.28	17.56	18.36	19.39	20.26	21.06
6	20.60	20.78	19.01	18.72	18.09	17.56	17.28	17.60	18.41	19.42	20.28	21.10
7	20.62	20.77	18.99	18.68	18.08	17.51	17.30	17.61	18.44	19.45	20.31	21.12
8	20.63	20.72	19.00	18.54	18.09	17.50	17.32	17.61	18.47	19.48	20.34	21.13
9	20.64	20.73	18.98	18.52	18.09	17.48	17.33	17.63	18.50	19.52	20.36	21.15
10	20.65	20.76	18.97	18.50	18.10	17.44	17.34	17.65	18.54	19.56	20.39	21.18
11	20.65	20.75	18.96	18.47	18.11	17.42	17.34	17.67	18.58	19.57	20.44	21.20
12	20.67	20.70	18.95	18.43	18.10	17.40	17.35	17.70	18.61	19.62	20.47	21.24
13	20.68	20.67	18.93	18.40	18.06	17.38	17.39	17.74	18.65	19.66	20.48	21.28
14	20.69	20.65	18.92	18.37	18.01	17.36	17.38	17.77	18.68	19.69	20.51	21.28
15	20.71	20.64	18.91	18.34	18.02	17.34	17.27	17.78	18.72	19.71	20.55	21.31
16	20.72	20.36	18.93	18.33	18.01	17.32	17.27	17.77	18.75	19.74	20.59	21.34
17	20.70	20.25	18.94	18.33	17.98	17.31	17.25	17.82	18.79	19.74	20.61	21.36
18	20.63	20.14	18.94	18.29	17.99	17.31	17.26	17.86	18.82	19.77	20.65	21.38
19	20.61	20.07	18.95	18.26	18.00	17.29	17.31	17.88	18.85	19.79	20.67	21.39
20	20.61	20.01	18.97	18.26	17.97	17.28	17.34	17.89	18.90	19.82	20.69	21.39
21	20.63	19.95	18.97	18.24	17.96	17.28	17.34	17.93	18.93	19.87	20.72	21.42
22	20.63	19.72	18.95	18.18	17.96	17.27	17.35	17.97	18.96	19.90	20.75	21.45
23	20.65	19.60	18.96	18.18	17.98	17.26	17.35	18.00	19.00	19.92	20.77	21.48
24	20.68	19.52	18.99	18.17	17.98	17.26	17.35	18.02	19.05	19.95	20.79	21.51
25	20.70	19.44	18.91	18.15	17.92	17.26	17.35	18.04	19.09	19.98	20.80	21.53
26	20.72	19.37	18.87	18.14	17.90	17.26	17.36	18.07	19.12	20.00	20.83	21.53
27	20.71	19.31	18.88	18.12	17.90	17.25	17.38	18.09	19.15	20.00	20.87	21.54
28	20.69	19.26	18.88	18.11	17.90	17.25	17.41	18.13	19.17	20.03	20.89	21.59
29	20.73	19.22	18.87	18.14	---	17.27	17.43	18.16	19.21	20.06	20.90	21.63
30	20.73	19.17	18.86	18.11	---	17.26	17.44	18.19	19.24	20.09	20.91	21.64
31	20.74	---	18.83	18.12	---	17.25	---	18.22	---	20.13	20.94	---
Mean	20.65	20.21	18.96	18.38	18.02	17.39	17.33	17.82	18.74	19.71	20.57	21.31
Max	20.74	20.78	19.13	18.79	18.11	17.82	17.44	18.22	19.24	20.13	20.94	21.64
Min	20.55	19.17	18.83	18.11	17.90	17.25	17.25	17.46	18.24	19.28	20.16	20.98

Water Year 2007	
Mean	19.10
High	17.25
Low	21.64

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