

GROUND-WATER LEVELS

IREDELL COUNTY

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

LOCATION.--Lat 35°31'35", long 80°52'42", Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Regolith (saprolitic quartz diorite).

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.

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

DATUM.--Land-surface datum is 803.08 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 1.08 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

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

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, Nov. 5, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.33	---	16.63	16.06	16.27	16.12	15.56	15.53	16.48	17.23	18.10	18.81
2	17.25	17.13	16.63	16.07	16.28	16.09	15.52	15.55	16.50	17.26	18.13	18.83
3	17.15	17.16	16.61	16.07	16.25	16.07	15.54	15.59	16.52	17.31	18.15	18.85
4	17.05	17.03	16.62	16.07	16.23	16.05	15.53	15.62	16.55	17.33	18.18	18.87
5	16.98	---	16.63	16.06	16.25	16.03	15.53	15.66	---	17.35	18.21	18.89
6	16.94	---	16.61	16.07	16.27	16.04	15.52	15.66	16.61	17.37	18.24	18.91
7	16.89	16.92	16.59	16.13	16.25	16.00	15.49	15.68	16.63	17.39	18.27	18.93
8	16.85	16.94	16.62	16.14	16.25	16.01	15.48	15.72	16.65	17.43	18.30	18.94
9	16.81	16.98	16.56	16.17	16.24	16.02	15.51	15.75	16.68	17.46	18.32	18.96
10	16.79	16.99	16.40	16.16	16.27	15.99	15.52	15.78	16.70	17.49	18.35	18.98
11	16.78	16.97	16.35	16.19	16.30	15.97	15.50	15.82	16.73	17.52	18.37	19.01
12	16.74	16.92	16.28	---	16.31	15.98	15.49	15.86	16.74	17.54	18.39	19.03
13	16.72	16.88	16.24	---	16.34	16.00	15.49	15.89	16.76	17.57	18.42	19.05
14	16.72	16.87	16.22	16.22	16.35	16.03	15.45	15.90	16.78	17.59	18.44	19.07
15	16.72	16.84	16.20	16.16	16.37	16.05	15.45	15.93	16.80	17.62	18.47	19.09
16	16.74	16.81	16.16	16.08	16.35	16.02	15.44	15.97	16.82	17.65	18.49	19.11
17	16.77	16.80	16.12	16.09	16.39	15.97	15.41	16.01	16.85	17.68	18.51	19.13
18	16.78	16.79	16.08	16.10	16.43	15.95	15.39	16.04	16.89	17.71	18.53	19.15
19	16.78	16.78	16.06	16.05	16.45	15.93	15.38	16.07	16.92	17.74	18.55	19.18
20	16.80	16.78	16.09	16.03	16.46	15.92	15.37	16.08	16.95	17.77	18.57	19.20
21	16.82	16.80	16.07	16.06	16.43	15.93	15.37	16.13	16.97	17.79	18.59	19.22
22	16.85	16.80	16.06	16.04	16.44	15.93	15.36	16.15	16.99	17.81	18.61	19.24
23	16.86	16.79	16.02	16.10	16.45	15.88	15.35	16.16	---	17.85	18.63	19.26
24	16.87	---	16.02	16.10	16.40	15.87	15.37	16.20	17.05	17.88	18.66	19.29
25	---	16.72	16.01	16.09	16.37	15.86	15.40	16.25	17.08	17.91	18.69	19.31
26	16.95	---	16.00	16.09	16.38	15.86	15.41	16.28	17.11	17.93	18.70	19.32
27	16.97	16.71	16.05	16.17	16.35	15.83	15.42	16.32	17.14	17.96	18.71	19.35
28	17.01	---	16.05	16.23	16.17	15.69	15.47	16.35	17.16	17.99	18.73	19.37
29	17.01	16.67	16.02	16.20	---	15.66	15.46	16.39	---	18.03	18.75	19.40
30	---	16.64	16.03	16.18	---	15.62	15.48	16.42	---	18.05	18.76	19.43
31	17.07	---	16.04	16.23	---	15.60	---	16.45	---	18.08	18.78	---

WTR YR 2005 MEAN 16.83 HIGH 15.35 LOW 19.43

