

GROUND-WATER LEVELS

IREDELL COUNTY—Continued

353135080524202. County number, IR-131; DENR Langtree Research Station MW-2I (Transition zone well).

LOCATION.--Lat 35°31'36", 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.--Transition zone (weathered and competent quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 48 ft, diameter 4 in., cased to 33 ft, screened interval from 33 to 48 ft.

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

DATUM.--Land-surface datum is 802.89 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 0.93 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, 13.85 ft below land-surface datum, June 19, 2003; lowest water level recorded, 25.38 ft below land-surface datum, Nov. 3, 5, 6, 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	17.19	---	16.52	16.04	16.21	16.02	15.45	15.44	16.40	17.16	18.05	18.76
2	17.11	17.00	16.52	16.05	16.23	16.00	15.40	15.47	16.42	17.19	18.07	18.77
3	17.00	17.03	16.51	16.06	16.19	15.98	15.43	15.51	16.44	17.23	18.10	18.80
4	---	16.89	16.52	16.06	16.17	15.96	15.43	15.55	16.46	17.26	18.13	18.82
5	16.83	---	16.53	16.05	16.18	15.94	15.43	15.58	---	17.28	18.16	18.84
6	16.78	---	16.52	16.06	16.19	15.95	15.42	15.58	16.52	17.31	18.18	18.86
7	16.74	16.78	16.50	16.12	16.18	15.91	15.39	15.60	16.56	17.33	18.21	18.88
8	16.69	16.81	16.53	16.13	16.18	15.91	15.38	15.63	16.58	17.36	18.24	18.89
9	16.66	16.84	16.46	16.18	16.18	15.91	15.41	15.67	16.61	17.39	18.26	18.91
10	16.63	16.86	16.29	16.18	16.20	15.89	15.42	15.70	16.63	17.42	18.28	18.93
11	16.62	16.84	16.23	---	16.23	15.88	15.42	15.74	16.64	17.45	18.31	18.95
12	16.59	16.78	16.18	---	16.24	15.88	15.40	15.78	16.66	17.47	18.33	18.96
13	16.56	16.74	16.14	---	16.27	15.90	15.39	15.81	16.67	17.49	18.35	18.98
14	16.56	16.73	16.13	16.17	16.28	15.94	15.34	15.82	16.70	17.52	18.37	18.99
15	16.57	16.71	16.11	16.10	16.30	15.96	15.34	15.85	16.71	17.56	18.40	19.01
16	16.60	16.68	16.07	16.02	16.28	15.93	15.33	15.89	16.75	17.58	18.43	19.03
17	16.63	16.67	16.04	16.04	16.33	15.87	15.31	15.93	16.78	17.62	18.45	19.05
18	16.64	16.67	16.01	16.05	16.36	15.84	15.29	15.96	16.81	17.65	18.47	19.08
19	16.64	16.66	15.98	15.99	16.38	15.84	15.29	15.98	16.85	17.68	18.50	19.10
20	16.65	16.67	16.02	15.98	16.39	15.83	15.28	16.00	16.88	17.70	18.52	19.12
21	16.68	16.69	16.01	16.00	16.35	15.83	15.28	16.05	16.90	17.73	18.53	19.14
22	16.71	16.68	16.00	15.98	16.36	15.83	15.27	16.06	16.92	17.76	18.55	19.17
23	16.72	16.68	15.96	16.03	16.37	15.78	15.26	16.08	---	17.79	18.57	19.19
24	16.73	---	15.97	16.04	16.31	15.78	15.28	16.12	16.98	17.83	18.60	19.22
25	---	16.61	15.95	16.02	16.28	15.76	15.31	16.16	17.01	17.85	18.62	19.25
26	16.82	---	15.95	16.03	16.29	15.76	15.32	16.20	17.04	17.88	18.63	19.26
27	16.84	16.59	16.00	16.12	16.27	15.74	15.34	16.23	17.07	17.91	18.65	19.29
28	16.88	---	16.00	16.17	16.08	15.58	15.39	16.27	17.10	17.94	18.67	19.31
29	16.88	16.55	15.98	16.15	---	15.57	15.39	16.31	---	17.98	18.70	19.34
30	---	16.52	16.00	16.12	---	15.53	15.40	16.33	---	18.00	18.71	19.37
31	16.94	---	16.02	16.18	---	15.50	---	16.37	---	18.02	18.73	---

WTR YR 2005 MEAN 16.75 HIGH 15.26 LOW 19.37

