

GROUND-WATER LEVELS

DUPLIN COUNTY--Continued

345051078012106. Local number, NC-218; DENR Rose Hill Research Station well V32v6; County number, DU-135.

LOCATION.--Lat 34°50'51", long 78°01'21", Hydrologic Unit 03030007, 1.5 mi north of Rose Hill at Rose Hill-Magnolia Elementary School, east of U.S. Highway 117 on Secondary Road 1911. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Black Creek aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 218 ft, diameter 4 in. to 103 ft, diameter 2.5 in. from 103 to 208 ft, screened interval from 208 to 218 ft.

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

DATUM.--Land-surface datum is 86 ft above sea level (from topographic map). Measuring point: Top of collar attached to casing, 2.25 ft above land-surface datum; revised from 2.62 ft above land-surface datum, May 5, 1999

REMARKS.--Well is part of areal-effects network.

PERIOD OF RECORD.--May 1982 to current year. Continuous record began August 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.14 ft below land-surface datum, May 19, 1982; lowest water level recorded, 44.23 ft below land-surface datum, July 26, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.35	40.26	40.33	39.01	40.23	40.21	40.20	41.11	42.50	43.01	43.23	43.47
2	40.42	40.34	40.31	39.07	40.31	40.29	40.32	41.08	42.16	43.19	43.39	43.33
3	40.49	40.44	40.09	39.01	40.17	40.21	40.43	41.28	41.93	43.04	43.51	43.31
4	40.46	40.32	40.03	39.00	39.84	39.89	40.35	41.62	42.28	43.16	43.27	43.42
5	40.65	40.04	39.97	39.10	39.88	40.04	40.43	41.77	42.54	43.31	43.01	43.46
6	40.66	40.08	39.81	39.05	40.07	40.13	40.48	41.72	42.52	43.32	43.22	43.47
7	40.44	40.29	39.75	38.94	40.12	40.16	40.35	41.85	42.62	43.02	43.47	43.33
8	40.12	40.40	39.74	39.09	40.22	40.26	40.22	41.95	42.52	42.82	43.67	43.21
9	40.11	40.48	39.58	39.25	40.33	40.35	40.36	42.03	42.33	43.27	43.98	43.34
10	40.23	40.52	39.32	39.14	40.27	40.28	40.52	42.34	42.18	43.51	44.04	43.66
11	40.25	40.33	39.33	39.15	40.04	40.02	40.54	42.68	42.39	43.61	43.98	43.69
12	40.38	39.99	39.37	39.32	40.06	40.05	40.55	42.78	42.59	43.64	43.80	43.36
13	40.45	39.95	39.30	39.38	40.17	40.25	40.62	42.80	42.69	43.52	43.88	43.32
14	40.31	40.06	39.31	39.40	40.20	40.29	40.46	43.07	42.72	43.20	43.62	43.35
15	40.00	39.96	39.35	39.73	40.38	40.29	40.35	43.27	42.74	43.07	43.54	43.16
16	40.02	40.01	39.15	40.05	40.54	40.38	40.56	43.08	42.71	43.31	43.66	42.92
17	40.28	40.10	39.03	40.12	40.32	40.32	40.64	42.92	42.57	43.51	43.72	43.04
18	40.35	40.06	39.15	40.27	40.12	40.05	40.63	42.79	42.76	43.56	43.63	43.20
19	40.44	39.77	39.17	40.40	40.24	40.10	40.73	42.50	42.89	43.80	43.33	43.22
20	40.48	39.72	39.08	40.37	40.43	40.16	40.86	42.10	42.88	43.74	43.71	43.28
21	40.35	39.87	39.17	40.26	40.47	39.98	40.79	42.14	42.94	43.46	43.67	43.25
22	40.12	39.93	39.24	40.43	40.49	40.09	40.73	42.34	42.92	43.37	43.58	43.03
23	40.21	40.08	39.18	40.49	40.57	40.22	40.96	42.17	42.75	43.76	43.56	42.90
24	40.27	40.25	38.97	40.42	40.49	40.24	41.10	42.14	42.56	43.95	43.60	42.87
25	40.29	40.10	38.89	40.41	40.14	40.14	41.02	42.35	42.67	43.99	43.45	42.67
26	40.40	39.77	38.99	40.49	40.17	40.33	41.01	42.57	42.80	44.13	43.25	42.43
27	40.50	39.83	38.90	40.34	40.26	40.51	41.04	42.56	42.87	44.02	43.47	42.45
28	40.43	40.05	38.89	40.02	40.18	40.46	40.95	42.92	43.11	43.66	43.82	42.41
29	40.19	40.07	39.04	39.94	---	40.45	40.86	42.86	43.08	43.36	43.78	42.21
30	40.14	40.18	39.06	40.07	---	40.48	41.05	42.64	43.01	43.33	43.74	41.95
31	40.26	---	39.01	40.12	---	40.36	---	42.62	---	43.33	43.71	---

WTR YR 2001 MEAN 41.32 HIGH 38.89 LOW 44.13

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