

## GROUND-WATER LEVELS

## DUPLIN COUNTY--Continued

345051078012103. Local number, NC-224; DENR Rose Hill Research Station well V32v3; County number, DU-134.

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.--Castle Hayne aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 46 ft, diameter 4 in., screened interval from 36 to 46 ft.

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

DATUM.--Land-surface datum is 86 ft above NGVD of 1929 (from topographic map). Measuring point: Top of 4 in. casing collar, 1.22 ft above land-surface datum.

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

PERIOD OF RECORD.--October 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.03 ft below land-surface datum, March 22, 2001; lowest water level recorded, 16.04 ft below land-surface datum, Aug. 24, 2002.

REVISIONS.--Revised figures of water-levels for water year 2001, superseding those published in the report for 2001 are given below.

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	---	11.80	10.97	10.70	11.22	7.68	4.89	11.45	11.79	12.19	12.55	---
2	---	11.84	10.99	10.73	11.24	7.71	5.23	11.53	11.22	12.29	12.57	---
3	---	11.87	10.96	10.76	11.28	7.83	5.48	11.61	11.07	12.39	12.55	---
4	10.36	11.90	10.87	10.76	11.23	6.88	5.72	11.67	11.12	12.45	12.57	---
5	10.42	11.91	10.79	10.77	11.01	6.20	6.01	11.73	11.19	12.50	12.64	---
6	10.48	11.95	10.77	10.80	10.37	6.27	6.24	11.82	11.30	12.58	12.71	---
7	10.56	11.98	10.75	10.84	9.65	6.50	6.47	11.91	11.40	12.69	12.77	11.27
8	10.64	12.01	10.77	10.85	9.67	6.71	6.70	11.98	11.46	12.78	12.82	11.37
9	10.69	12.02	10.82	10.89	9.63	6.90	6.96	12.04	11.49	12.83	12.90	11.41
10	10.76	12.03	10.79	10.94	9.60	7.15	7.25	12.11	11.46	12.92	12.98	11.11
11	10.82	12.09	10.73	10.96	9.80	7.36	7.50	12.18	11.47	12.99	13.06	11.02
12	10.89	12.13	10.62	10.97	9.77	7.49	7.57	12.26	11.55	13.00	13.09	11.05
13	10.95	12.16	10.60	11.02	9.39	7.46	7.59	12.27	11.61	13.07	13.10	11.11
14	11.00	12.13	10.52	11.06	9.19	7.55	8.02	12.33	11.39	13.13	12.76	11.17
15	11.05	12.11	10.46	11.07	9.06	7.30	8.43	12.38	11.09	13.22	12.53	11.26
16	11.10	12.13	10.41	11.09	9.05	6.70	8.58	12.36	10.94	13.31	12.51	11.35
17	11.15	12.11	10.37	11.13	8.80	6.67	8.87	12.35	10.96	13.40	12.52	11.45
18	11.19	12.14	10.43	11.14	8.63	6.90	9.08	12.33	11.04	13.47	12.36	11.54
19	11.24	12.10	10.44	11.14	8.59	7.18	9.33	12.37	11.15	13.54	11.26	11.62
20	11.28	11.90	10.49	11.09	8.58	7.03	9.53	12.46	11.23	13.58	11.05	11.68
21	11.31	11.85	10.54	11.07	8.62	4.34	9.76	12.53	11.33	13.63	10.95	11.74
22	11.36	11.85	10.56	11.06	8.38	4.11	9.99	12.57	11.44	13.65	10.93	11.78
23	11.43	11.84	10.62	11.03	7.72	4.41	10.18	12.63	11.53	13.46	10.98	11.85
24	11.46	11.85	10.64	11.03	7.65	4.74	10.38	12.70	11.62	13.38	11.03	11.87
25	11.49	11.74	10.68	11.06	7.59	5.03	10.57	12.79	11.65	13.35	11.08	11.75
26	11.53	11.24	10.71	11.10	7.60	5.26	10.43	12.79	11.71	13.34	11.17	11.73
27	11.54	11.03	10.71	11.11	7.75	5.56	10.56	12.69	11.79	13.31	11.27	---
28	11.59	10.98	10.64	11.16	7.71	5.81	10.85	12.63	11.87	13.24	11.38	---
29	11.66	10.95	10.61	11.18	---	5.57	11.29	12.27	11.98	13.18	11.46	---
30	11.71	10.95	10.61	11.16	---	4.62	11.44	11.96	12.08	12.80	---	---
31	11.75	---	10.66	11.17	---	4.69	---	11.85	---	12.57	---	---

WTR YR 2001 MEAN 10.71 HIGH 4.11 LOW 13.65

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DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.31	13.57	13.45	10.96	11.12	10.11	12.02	13.39	13.97	14.61	14.98
2	---	13.33	13.57	13.47	11.01	11.07	10.07	12.09	13.46	14.02	14.67	14.80
3	---	13.36	13.57	13.34	11.06	10.18	10.09	12.19	13.55	14.07	14.75	14.67
4	---	13.38	13.58	13.32	11.08	10.01	10.19	12.24	13.63	14.13	14.82	14.60
5	---	13.41	13.58	13.29	11.19	10.04	10.26	12.15	13.69	14.20	14.89	14.59
6	---	13.46	13.57	13.05	11.23	10.08	10.33	12.16	13.74	14.25	14.95	14.61
7	12.33	13.51	13.57	12.49	10.98	10.10	10.42	12.20	13.77	14.32	15.03	14.62
8	12.36	13.54	13.57	12.29	10.69	10.15	10.48	12.26	13.81	14.38	15.09	14.64
9	12.39	13.58	13.59	12.19	10.63	10.19	10.53	12.34	13.86	14.43	15.15	14.64
10	12.41	13.62	13.62	12.13	10.59	10.23	10.59	12.46	13.92	14.48	15.21	14.59
11	12.45	13.65	13.53	12.10	10.55	10.30	10.62	12.56	13.99	14.48	15.25	14.54
12	12.48	13.71	13.50	12.09	10.56	10.34	10.67	12.63	14.05	14.48	15.30	14.57
13	12.53	13.75	13.45	11.85	10.59	10.18	10.72	12.66	14.11	14.51	15.36	14.60
14	12.56	13.77	13.42	11.69	10.65	10.01	10.76	12.57	14.13	14.54	15.40	14.62
15	12.60	13.78	13.42	11.60	10.68	10.01	10.82	12.60	13.82	14.54	15.36	14.57
16	12.64	13.81	13.42	11.58	10.69	10.06	10.90	12.64	13.71	14.57	15.26	14.52
17	12.71	13.85	13.36	11.56	10.74	10.13	10.98	12.68	13.70	14.63	15.29	14.51
18	12.78	13.88	13.30	11.57	10.82	10.17	11.06	12.70	13.73	14.68	15.32	14.53
19	12.81	13.90	13.32	11.56	10.86	10.23	11.13	12.69	13.74	14.74	15.35	14.53
20	12.84	13.90	13.33	11.56	10.88	10.26	11.19	12.72	13.77	14.81	15.35	14.54
21	12.90	13.95	13.35	11.53	10.82	10.10	11.28	12.77	13.81	14.88	15.39	14.57
22	12.92	13.97	13.38	11.47	10.79	9.97	11.38	12.84	13.84	14.93	15.42	14.60
23	12.94	14.00	13.36	11.31	10.80	10.00	11.51	12.89	13.78	14.96	15.45	14.64
24	12.98	13.87	13.33	10.90	10.84	10.06	11.60	12.95	13.79	15.00	15.45	14.68
25	13.03	13.72	13.36	10.83	10.89	10.13	11.64	13.03	13.83	14.97	15.23	14.70
26	13.10	13.67	13.35	10.85	---	10.19	11.71	13.11	13.89	14.62	15.25	14.71
27	13.15	13.62	13.37	10.87	---	10.20	11.78	13.18	13.90	14.48	15.46	14.71
28	13.21	13.62	13.38	10.88	11.04	10.25	11.78	13.25	13.89	14.45	15.70	14.76
29	13.24	13.60	13.39	10.89	---	10.30	11.84	13.31	13.89	14.46	15.66	14.83
30	13.25	13.58	13.44	10.93	---	10.35	11.96	13.35	13.92	14.50	15.72	14.89
31	13.28	---	13.45	10.95	---	10.45	---	13.36	---	14.56	15.34	---

WTR YR 2002 MEAN 12.91 HIGH 9.97 LOW 15.72

