

Water-Data Report 2011

345051078012109 Local number DU-157 (NC-222R), NCDENR ROSE HILL RESEARCH STATION WELL V32V9, NEAR ROSE HILL, NC (SURFICIAL)

Surficial aquifer system
Post Miocene (Quaternary + Pliocene) Rocks

Duplin County, NC

LOCATION.--Lat 34°50'52", long 78°01'20" referenced to North American Datum of 1983, Duplin County, NC, 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: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 15.4 ft, diameter 2 in., top of first opening 5.4 ft, bottom of last opening 15.4 ft.

DATUM.--Land-surface datum is 86 ft above North American Vertical Datum of 1988. Measuring point: bottom of shelter, 3.85 ft above land-surface datum, December 2006 to present.

PERIOD OF RECORD.--November 2003 to July 2004, December 2006 to current year.

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

REMARKS.--Well is part of climatic-effects network. Replacement for collapsed well, DU-136, NC-222, station number 345051078012108.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.44 ft below land-surface datum, February 6, 2010; lowest water level occurred during periods when well was dry from August 14 to September 30, 2011.

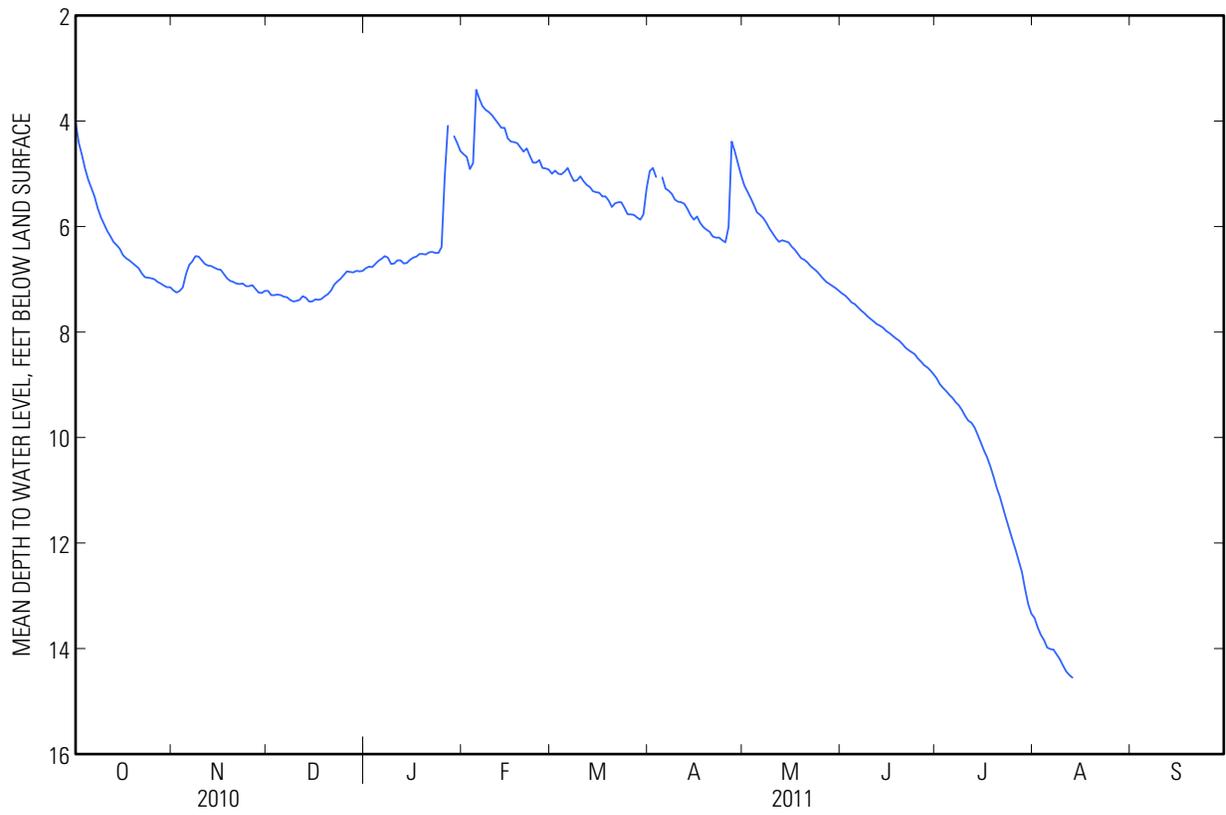
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(SURFICIAL)—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.03	7.21	7.22	6.79	4.63	5.00	4.95	5.22	7.27	8.88	13.42	---
2	4.41	7.25	7.30	6.76	4.68	4.94	4.89	5.34	7.31	8.99	13.60	---
3	4.64	7.22	7.30	6.77	4.91	5.00	5.06	5.46	7.37	9.06	13.74	---
4	4.90	7.15	7.29	6.71	4.80	5.01	---	5.59	7.44	9.12	13.84	---
5	5.11	6.90	7.30	6.65	3.41	4.96	5.07	5.73	7.47	9.19	13.98	---
6	5.27	6.73	7.33	6.61	3.58	4.89	5.28	5.78	7.53	9.25	14.01	---
7	5.43	6.66	7.34	6.56	3.72	5.03	5.32	5.84	7.59	9.33	14.02	---
8	5.65	6.56	7.39	6.59	3.79	5.14	5.38	5.93	7.64	9.39	14.11	---
9	5.82	6.57	7.42	6.71	3.83	5.12	5.49	6.04	7.70	9.48	14.20	---
10	5.95	6.64	7.41	6.70	3.89	5.05	5.53	6.13	7.75	9.59	14.32	---
11	6.08	6.71	7.39	6.64	3.97	5.14	5.54	6.22	7.80	9.68	14.43	---
12	6.18	6.74	7.32	6.64	4.05	5.21	5.57	6.29	7.85	9.72	14.50	---
13	6.29	6.75	7.35	6.70	4.13	5.25	5.67	6.26	7.88	9.81	14.55	---
14	6.35	6.78	7.42	6.69	4.13	5.33	5.79	6.28	7.92	9.95	---	---
15	6.42	6.81	7.42	6.63	4.33	5.35	5.87	6.30	7.98	10.10	---	---
16	6.54	6.82	7.38	6.59	4.39	5.36	5.81	6.38	8.02	10.25	---	---
17	6.60	6.90	7.39	6.57	4.40	5.43	5.93	6.44	8.07	10.38	---	---
18	6.64	6.98	7.37	6.52	4.42	5.43	6.01	6.52	8.12	10.55	---	---
19	6.69	7.03	7.32	6.52	4.50	5.51	6.06	6.60	8.16	10.74	---	---
20	6.74	7.05	7.28	6.53	4.58	5.63	6.10	6.63	8.22	10.95	---	---
21	6.79	7.08	7.21	6.49	4.52	5.56	6.19	6.68	8.29	11.12	---	---
22	6.89	7.09	7.10	6.48	4.66	5.54	6.21	6.75	8.34	11.33	---	---
23	6.96	7.08	7.04	6.50	4.79	5.54	6.21	6.80	8.38	11.54	---	---
24	6.97	7.13	6.99	6.50	4.79	5.65	6.26	6.85	8.42	11.74	---	---
25	6.98	7.13	6.92	6.39	4.74	5.77	6.30	6.92	8.50	11.94	---	---
26	7.00	7.11	6.85	5.06	4.89	5.77	6.01	6.99	8.56	12.13	---	---
27	7.05	7.18	6.86	4.09	4.90	5.78	4.39	7.05	8.63	12.34	---	---
28	7.08	7.25	6.87	---	4.92	5.83	4.58	7.09	8.67	12.55	---	---
29	7.12	7.26	6.84	4.29	---	5.87	4.81	7.13	8.73	12.87	---	---
30	7.15	7.22	6.85	4.42	---	5.77	5.03	7.17	8.80	13.16	---	---
31	7.15	---	6.84	4.57	---	5.28	---	7.22	---	13.34	---	---
Mean	6.22	6.97	7.20	---	4.37	5.36	---	6.38	8.01	10.60	---	---
Max	7.15	7.26	7.42	---	4.92	5.87	---	7.22	8.80	13.34	---	---
Min	4.03	6.56	6.84	---	3.41	4.89	---	5.22	7.27	8.88	---	---

Calendar Year 2010	
Mean	6.67
High	1.88
Low	13.19

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