

Water-Data Report 2010

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: Undefined. bottom of shelter, 3.85 ft above land-surface datum.

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 recorded 13.66 below land-surface datum, October 24, 2007.

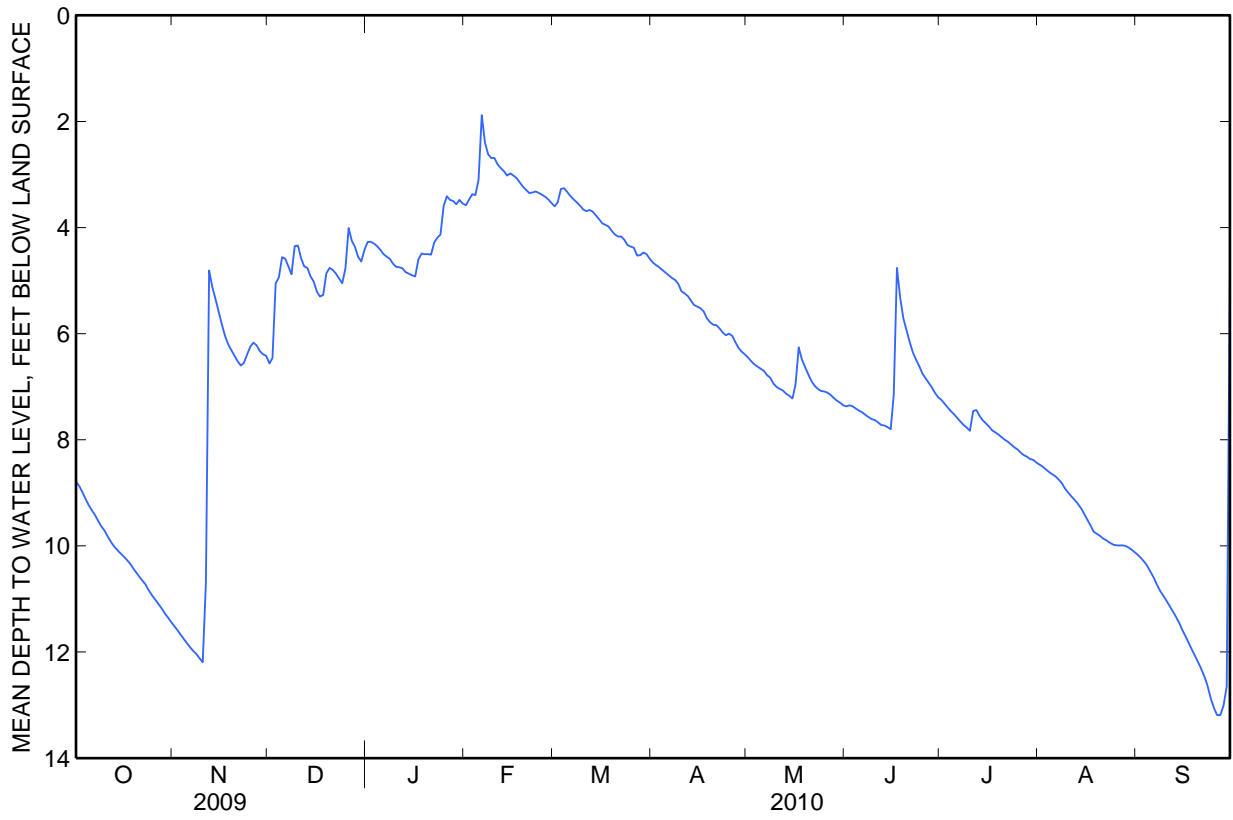
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(SURFICIAL)—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.79	11.51	6.56	4.27	3.58	3.60	4.66	6.45	7.37	7.25	8.47	10.17
2	8.87	11.59	6.46	4.27	3.47	3.52	4.71	6.52	7.35	7.32	8.51	10.23
3	8.99	11.67	5.05	4.30	3.37	3.27	4.75	6.58	7.37	7.39	8.56	10.30
4	9.11	11.76	4.94	4.35	3.39	3.26	4.80	6.62	7.41	7.46	8.61	10.38
5	9.23	11.83	4.56	4.42	3.10	3.33	4.85	6.66	7.45	7.52	8.65	10.49
6	9.33	11.91	4.59	4.50	1.88	3.41	4.90	6.70	7.48	7.59	8.69	10.60
7	9.42	11.98	4.73	4.55	2.40	3.47	4.95	6.78	7.53	7.66	8.75	10.73
8	9.53	12.04	4.88	4.59	2.62	3.52	4.99	6.83	7.57	7.72	8.82	10.85
9	9.63	12.12	4.35	4.68	2.69	3.59	5.06	6.94	7.61	7.77	8.92	10.94
10	9.71	12.19	4.34	4.74	2.69	3.66	5.20	7.00	7.63	7.83	9.00	11.03
11	9.82	10.68	4.58	4.75	2.81	3.69	5.24	7.04	7.67	7.46	9.06	11.13
12	9.92	4.81	4.73	4.77	2.88	3.67	5.29	7.07	7.72	7.44	9.13	11.23
13	10.00	5.12	4.76	4.84	2.94	3.70	5.38	7.13	7.73	7.54	9.20	11.34
14	10.08	5.35	4.92	4.87	3.02	3.77	5.46	7.17	7.76	7.63	9.29	11.45
15	10.14	5.59	5.02	4.90	2.98	3.84	5.49	7.22	7.80	7.69	9.39	11.58
16	10.19	5.82	5.21	4.92	3.02	3.92	5.52	6.96	7.15	7.75	9.50	11.70
17	10.26	6.04	5.30	4.60	3.07	3.95	5.58	6.26	4.76	7.82	9.61	11.83
18	10.33	6.20	5.27	4.49	3.15	3.98	5.71	6.49	5.32	7.86	9.73	11.95
19	10.42	6.31	4.86	4.50	3.23	4.06	5.78	6.63	5.71	7.90	9.77	12.07
20	10.50	6.42	4.76	4.50	3.29	4.13	5.83	6.77	5.94	7.95	9.81	12.19
21	10.58	6.52	4.80	4.51	3.35	4.17	5.84	6.89	6.16	8.00	9.86	12.33
22	10.66	6.60	4.87	4.28	3.34	4.17	5.90	6.98	6.35	8.04	9.90	12.46
23	10.73	6.55	4.96	4.19	3.32	4.23	5.98	7.04	6.49	8.09	9.93	12.65
24	10.84	6.39	5.05	4.13	3.35	4.33	6.03	7.08	6.61	8.14	9.97	12.88
25	10.93	6.24	4.77	3.59	3.38	4.36	6.00	7.09	6.75	8.18	9.99	13.06
26	11.02	6.17	4.01	3.41	3.42	4.38	6.04	7.11	6.84	8.24	9.99	13.19
27	11.09	6.22	4.25	3.48	3.47	4.53	6.16	7.15	6.93	8.29	9.99	13.19
28	11.17	6.33	4.36	3.50	3.54	4.52	6.27	7.21	7.01	8.32	10.00	13.01
29	11.27	6.39	4.55	3.56	---	4.47	6.34	7.26	7.12	8.36	10.03	12.65
30	11.35	6.42	4.64	3.48	---	4.50	6.39	7.30	7.20	8.38	10.07	4.74
31	11.43	---	4.42	3.55	---	4.59	---	7.35	---	8.43	10.12	---
Mean	10.17	8.16	4.86	4.31	3.10	3.92	5.50	6.91	6.99	7.84	9.40	11.41
Max	11.43	12.19	6.56	4.92	3.58	4.59	6.39	7.35	7.80	8.43	10.12	13.19
Min	8.79	4.81	4.01	3.41	1.88	3.26	4.66	6.26	4.76	7.25	8.47	4.74

	Calendar Year 2009	Water Year 2010
Mean	7.41	6.90
High	4.01	1.88
Low	12.19	13.19

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