



Water-Data Report 2007

**354328078295702 Local number WK-329, Raleigh Hydrogeologic Research Station WC-1I (Intermediate Zone)**

Piedmont and Blue Ridge crystalline-rock aquifers  
Saprolite

Wake County, NC

LOCATION.--Lat 35°43'29", long 78°29'58" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 39 ft, diameter 4 in., cased to 24 ft, screened interval from 24 to 39 ft, sand filter packed from 19 to 42 ft.

DATUM.--Land-surface datum is 170.9 ft above North American Vertical Datum of 1988. Measuring point: top of pvc, 2.72 ft above land-surface datum, Mar. 29, 2005, to present.

PERIOD OF RECORD.--May 2005 to current year.

GAGE.--Water-level recorder collecting data at 30-minute intervals.

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Ground-water levels affected by nearby Neuse River.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 18.81 ft below land-surface datum, December 10, 11, 2006; lowest water level recorded, 25.05 ft below land-surface datum, November 20, 2005.

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24.18	24.40	20.13	20.63	20.96	21.73	21.11	21.22	23.32	23.90	24.12	24.63
2	24.26	24.46	19.87	20.63	20.95	21.32	21.22	21.36	23.36	23.95	24.19	24.65
3	24.31	24.51	19.67	20.60	21.15	21.05	21.32	21.51	23.14	24.00	24.22	24.67
4	24.35	24.55	19.49	20.55	21.24	21.02	21.38	21.63	22.59	24.04	24.25	24.68
5	24.38	24.57	19.34	20.52	21.35	20.98	21.51	21.76	22.90	24.04	24.27	24.69
6	24.33	24.59	19.20	20.25	21.42	20.83	21.62	21.91	23.05	24.03	24.29	24.71
7	24.05	24.41	19.07	20.28	21.47	20.63	21.72	22.02	23.17	24.05	24.29	24.72
8	24.05	23.02	19.04	20.22	21.56	20.57	21.82	22.11	23.27	24.07	24.33	24.73
9	24.04	23.26	18.93	20.23	21.63	20.78	21.90	22.19	23.36	24.10	24.36	24.74
10	24.10	23.47	18.84	20.03	21.69	20.92	22.00	22.23	23.35	24.12	24.34	24.76
11	24.20	23.62	19.02	19.74	21.76	21.03	22.06	22.30	23.43	24.12	24.30	24.77
12	24.27	23.16	19.72	19.51	21.80	21.12	21.87	22.32	23.47	23.85	24.36	24.79
13	24.35	22.75	20.30	19.34	21.81	21.18	21.70	21.95	23.51	23.97	24.38	24.80
14	24.42	22.48	20.65	19.23	21.71	21.34	21.63	22.21	23.41	24.09	24.40	24.79
15	24.48	22.13	20.90	19.11	21.77	21.48	21.34	22.26	23.49	24.14	24.42	24.35
16	24.52	21.89	21.17	19.19	21.60	21.27	20.75	22.30	23.54	24.18	24.44	24.52
17	24.52	---	21.36	19.59	21.50	20.21	20.86	22.36	23.54	24.21	24.45	24.65
18	24.13	21.65	21.51	19.86	21.48	20.46	20.72	22.49	23.58	23.24	24.46	24.70
19	24.13	21.49	21.66	19.98	21.51	20.56	20.40	22.59	23.63	23.24	24.47	24.73
20	24.19	21.32	21.80	20.39	21.44	20.24	20.16	22.66	23.67	23.49	24.48	24.76
21	24.25	21.18	21.91	20.61	21.43	20.10	19.98	22.73	23.68	23.66	24.50	24.72
22	24.32	20.58	21.97	20.32	21.42	19.99	19.84	22.80	23.71	23.80	24.50	24.75
23	24.37	20.07	21.53	20.45	21.70	19.92	19.71	22.87	23.75	23.91	24.50	24.79
24	24.43	20.76	21.75	20.44	21.90	20.00	19.72	22.92	23.79	23.99	24.47	24.82
25	24.49	21.14	21.63	20.48	21.94	20.06	19.73	22.96	23.81	24.02	24.51	24.84
26	24.54	21.40	20.60	20.55	21.80	20.09	19.92	23.01	23.84	24.11	24.56	24.86
27	24.55	21.62	21.01	20.44	21.79	20.09	20.34	23.07	23.87	24.17	24.49	24.88
28	24.18	21.63	21.25	20.41	21.77	20.43	20.62	23.13	23.86	24.02	24.57	24.91
29	24.16	21.21	21.02	20.55	---	20.72	20.88	23.17	23.89	23.94	24.60	24.94
30	24.26	20.63	20.82	20.52	---	20.86	21.06	23.24	23.80	23.94	24.60	24.95
31	24.33	---	20.73	20.83	---	20.98	---	23.28	---	24.02	24.61	---
<b>Mean</b>	24.29	22.48	20.51	20.18	21.56	20.71	20.96	22.41	23.49	23.95	24.41	24.74
<b>Max</b>	24.55	24.59	21.97	20.83	21.94	21.73	22.06	23.28	23.89	24.21	24.61	24.95
<b>Min</b>	24.04	20.07	18.84	19.11	20.95	19.92	19.71	21.22	22.59	23.24	24.12	24.35

<b>Water Year 2007</b>	
<b>Mean</b>	22.48
<b>High</b>	18.84
<b>Low</b>	24.95

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