

Water-Data Report 2008

354328078295702 Local number WK-329, NCDENR Raleigh Hydrogeologic Research Station WC-1I near Auburn, NC (Transition 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, 3.6 mi north east of Auburn. 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 ft to 39 ft, sand filter packed from 19 ft 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, March 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, 25.12 ft below land-surface datum, October 23-24, 2007.

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24.94	24.09	24.97	23.50	24.67	24.44	23.79	22.52	23.66	24.13	24.73	23.92
2	24.95	24.20	24.97	23.71	24.45	24.50	23.86	22.55	23.69	24.27	24.77	24.10
3	24.97	24.29	24.97	23.88	24.47	24.55	23.94	22.47	23.76	24.38	24.79	24.26
4	25.00	24.38	24.97	23.99	24.51	24.59	23.88	22.46	23.82	24.46	24.82	24.39
5	25.00	24.45	24.97	24.08	24.55	24.19	23.43	22.46	23.89	24.43	24.85	24.48
6	24.95	24.51	24.99	24.17	24.59	23.95	23.27	22.47	23.94	24.20	24.86	23.18
7	24.95	24.58	24.99	24.24	24.64	23.88	23.36	22.47	23.97	23.72	24.87	22.35
8	24.97	24.62	24.99	24.30	24.68	23.20	23.26	22.46	23.99	23.78	24.89	22.75
9	24.99	24.65	24.99	24.37	24.72	23.37	23.23	22.39	24.04	23.90	24.90	22.93
10	25.02	24.69	24.99	24.42	24.76	23.51	23.21	22.53	24.09	23.70	24.92	22.75
11	25.05	24.73	24.99	24.46	24.79	23.63	23.19	22.65	24.13	23.85	24.90	22.59
12	25.06	24.75	25.00	24.51	24.80	23.77	23.18	22.48	24.18	23.99	24.93	22.56
13	25.07	24.77	25.00	24.55	24.63	23.89	23.06	22.66	24.19	24.11	24.95	22.27
14	25.07	24.79	25.00	24.59	24.32	23.98	23.00	22.76	24.20	24.15	24.96	22.16
15	25.08	24.78	25.00	24.63	24.34	24.07	22.93	22.84	24.09	23.78	24.96	22.09
16	25.08	24.72	24.53	24.66	24.39	23.69	22.93	22.85	24.11	24.02	24.87	21.97
17	25.10	24.81	24.48	24.65	24.44	23.76	22.91	22.83	24.15	24.17	24.88	21.71
18	25.09	24.85	24.57	24.51	24.38	23.85	22.97	22.90	24.24	24.29	24.91	21.71
19	24.97	24.88	24.64	24.54	24.34	23.93	23.00	22.80	24.31	24.31	24.94	21.70
20	24.95	24.90	24.70	24.46	24.42	24.03	23.07	22.88	24.33	24.39	24.99	21.66
21	25.03	24.90	24.75	24.50	24.50	24.11	23.10	22.85	24.32	24.42	24.93	21.64
22	25.08	24.88	24.80	24.52	24.52	24.16	23.13	22.96	23.89	24.47	25.00	21.61
23	25.11	24.91	24.83	24.55	24.50	24.24	23.10	23.04	23.86	24.40	25.03	21.59
24	24.98	24.93	24.82	24.58	24.55	24.30	23.17	23.11	23.98	24.42	25.06	21.55
25	24.33	24.94	24.86	24.63	24.58	24.35	23.22	23.18	---	24.50	25.08	21.80
26	24.35	24.93	24.74	24.65	24.58	24.38	23.26	23.23	24.22	24.56	25.10	21.66
27	23.24	24.89	24.35	24.68	24.29	24.42	23.30	23.28	24.33	24.61	24.79	21.35
28	23.24	24.93	24.45	24.71	24.32	24.46	22.19	23.37	24.34	24.66	24.01	21.29
29	23.63	24.94	24.51	24.72	24.38	24.51	22.08	23.40	24.42	24.68	23.97	21.29
30	23.84	24.96	24.29	24.73	---	24.53	22.39	23.50	24.18	24.69	24.14	21.15
31	23.98	---	23.24	24.75	---	24.34	---	23.58	---	24.71	23.90	---
Mean	24.74	24.72	24.75	24.43	24.52	24.08	23.15	22.84	24.08	24.26	24.80	22.35
Max	25.11	24.96	25.00	24.75	24.80	24.59	23.94	23.58	24.42	24.71	25.10	24.48
Min	23.24	24.09	23.24	23.50	24.29	23.20	22.08	22.39	23.66	23.70	23.90	21.15

Water Year 2008	
Mean	24.06
High	21.15
Low	25.11

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