



Water-Data Report 2007

361307080293101 Local number YD-200, DENR East Bend Research Station well F61f3, NC-221

Piedmont and Blue Ridge crystalline-rock aquifers

Mafic Gneiss

Yadkin County, NC

LOCATION.--Lat 36°13'08", long 80°29'32" referenced to North American Datum of 1983, Yadkin County, NC, Hydrologic Unit 03040101, near East Bend.
Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 400 ft, diameter 6 in., cased to 54 ft.

DATUM.--Land-surface datum is 1,009 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: top of 12-inch PVC well cap, 3.52 ft above land-surface datum, June 8, 2005, to present; revised from 0.56 ft above land-surface datum, June 8, 2005.

PERIOD OF RECORD.--June 2000 to current year. Records from June 1972 to May 2000 are unpublished and available in the files of NCDENR, Groundwater Section.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.30 ft below land-surface datum, August 22, 23, 25, 26, 27, September 4, 2003;
lowest water level recorded, 16.97 ft below land-surface datum, August 25, 2002.

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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	15.00	14.95	14.53	14.34	13.97	13.92	13.70	13.73	14.23	14.89	15.35	15.75
2	15.01	14.96	14.55	14.46	13.96	13.82	13.70	13.73	14.24	14.92	15.37	15.75
3	15.02	14.97	14.53	14.42	13.99	13.91	13.70	13.76	14.23	14.94	15.37	15.77
4	15.02	14.97	14.52	14.38	13.99	13.93	13.68	13.77	14.27	14.95	15.38	15.78
5	15.02	14.96	14.51	14.34	13.99	13.91	13.70	13.77	14.30	14.97	15.39	15.80
6	15.03	14.95	14.50	14.35	13.98	13.91	13.69	13.80	14.34	14.99	15.40	15.81
7	15.03	14.90	14.49	14.32	13.97	13.88	13.70	13.81	14.36	15.01	15.42	15.83
8	15.04	14.83	14.51	14.22	13.98	13.88	13.71	13.81	14.38	15.03	15.43	15.84
9	15.04	14.88	14.50	14.27	13.98	13.88	13.71	13.81	14.40	15.05	15.44	15.85
10	15.04	14.88	14.49	14.28	14.00	13.86	13.71	13.82	14.42	15.07	15.45	15.87
11	15.03	14.85	14.49	14.26	14.02	13.86	13.69	13.83	14.45	15.08	15.46	15.87
12	15.03	14.84	14.48	14.22	14.01	13.85	13.69	13.85	14.46	15.10	15.47	15.89
13	15.04	14.83	14.47	14.18	13.99	13.83	13.72	13.87	14.48	15.12	15.49	15.91
14	15.05	14.81	14.46	14.16	13.93	13.83	13.71	13.90	14.51	15.13	15.51	15.87
15	15.06	14.81	14.46	14.13	14.01	13.82	13.66	13.90	14.54	15.16	15.52	15.91
16	15.06	14.74	14.49	14.13	13.99	13.79	13.71	13.90	14.56	15.17	15.53	15.93
17	15.02	14.80	14.49	14.14	13.97	13.81	13.70	13.93	14.58	15.17	15.54	15.94
18	15.02	14.76	14.50	14.10	13.98	13.82	13.70	13.95	14.61	15.19	15.56	15.95
19	15.01	14.73	14.50	14.07	13.99	13.81	13.72	13.97	14.62	15.20	15.57	15.96
20	15.00	14.73	14.52	14.08	13.96	13.80	13.73	13.98	14.65	15.22	15.58	15.97
21	15.03	14.71	14.52	14.07	13.96	13.80	13.73	14.00	14.68	15.24	15.60	15.97
22	15.01	14.68	14.50	14.04	13.96	13.77	13.72	14.03	14.69	15.25	15.61	15.98
23	15.01	14.67	14.50	14.05	13.98	13.76	13.72	14.06	14.72	15.26	15.62	15.99
24	15.02	14.66	14.53	14.04	13.97	13.76	13.70	14.08	14.74	15.27	15.64	16.00
25	15.03	14.64	14.43	14.03	13.93	13.76	13.70	14.08	14.77	15.28	15.65	16.01
26	15.03	14.62	14.45	14.03	13.94	13.75	13.70	14.10	14.80	15.29	15.66	16.02
27	14.99	14.60	14.52	14.00	13.96	13.73	13.69	14.12	14.81	15.30	15.68	16.03
28	14.96	14.59	14.52	13.99	13.96	13.73	13.71	14.15	14.83	15.30	15.69	16.05
29	15.00	14.58	14.50	14.02	---	13.74	13.72	14.17	14.85	15.32	15.70	16.06
30	14.99	14.56	14.49	13.99	---	13.72	13.73	14.19	14.86	15.33	15.71	16.07
31	14.96	---	14.46	14.00	---	13.71	---	14.21	---	15.34	15.73	---
Mean	15.02	14.78	14.50	14.16	13.98	13.82	13.71	13.94	14.55	15.15	15.53	15.91
Max	15.06	14.97	14.55	14.46	14.02	13.93	13.73	14.21	14.86	15.34	15.73	16.07
Min	14.96	14.56	14.43	13.99	13.93	13.71	13.66	13.73	14.23	14.89	15.35	15.75

Water Year 2007	
Mean	14.59
High	13.66
Low	16.07

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