

Water-Data Report 2007

**361420077111407 Local number BE-080, DENR Roxobel Research Station well F22b7, NC-154**

Surficial aquifer system  
Post Miocene (Quaternary + Pliocene) Rocks  
Bertie County, NC

LOCATION.--Lat 36°14'21", long 77°11'13" referenced to North American Datum of 1983, Bertie County, NC, Hydrologic Unit 03010203, 3.8 mi northeast of Roxobel on Secondary Road 1249. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, drilled to 12 ft, diameter 4 in., cased to 7 ft, screened interval from 7 to 12 ft.

DATUM.--Land-surface datum is 74 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: top of instrument shelf, 3.05 ft above land-surface datum, 1987 to present.

PERIOD OF RECORD.--November 1986 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.27 ft below land-surface datum, January 30, 31, 2000; lowest water level recorded, 9.31 ft below land-surface datum, September 5, 1987.

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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	3.14	1.90	0.78	0.76	1.25	0.89	2.47	3.50	5.03	5.70	7.36	6.32
2	3.29	2.07	0.98	0.71	0.79	0.69	2.56	---	5.11	5.86	7.42	6.47
3	3.39	2.33	1.21	0.87	0.75	0.68	2.68	3.72	4.95	6.01	7.48	6.60
4	3.46	2.53	0.97	0.94	0.84	0.86	2.73	3.80	---	6.14	7.54	6.71
5	3.52	2.64	0.91	0.93	0.99	1.02	2.85	3.84	---	6.23	7.60	6.84
6	3.44	2.70	1.06	0.56	1.16	1.25	2.97	3.87	3.40	6.29	7.66	6.98
7	2.06	2.58	1.13	0.51	1.17	1.40	3.02	3.91	3.29	6.35	7.72	7.11
8	1.43	1.11	1.40	0.39	1.33	1.54	3.14	3.92	3.32	6.41	7.79	7.21
9	1.44	0.84	1.55	0.44	1.45	1.71	3.22	3.91	3.39	6.48	7.85	7.31
10	1.70	1.02	1.64	0.61	1.54	1.78	3.30	3.93	3.52	6.55	7.89	7.41
11	1.96	1.22	1.73	0.77	1.66	1.85	3.35	3.97	3.68	6.42	7.17	7.50
12	2.10	1.04	1.82	0.80	1.72	2.00	3.35	4.03	3.82	6.23	6.40	7.61
13	2.39	0.52	1.85	0.81	1.69	2.09	3.41	4.04	---	6.17	6.16	7.71
14	2.54	0.56	1.83	0.87	0.95	2.17	3.49	4.04	3.61	6.15	6.03	7.80
15	2.71	0.65	1.84	0.93	0.78	2.25	3.06	4.07	3.67	6.17	6.01	7.88
16	2.86	0.61	1.98	0.99	0.80	1.76	1.48	---	---	6.25	---	7.96
17	2.89	0.53	2.13	1.20	0.86	0.83	1.37	4.11	3.87	6.34	5.66	8.03
18	2.17	0.64	2.20	1.23	0.91	0.80	1.64	4.12	3.98	6.41	4.86	8.09
19	1.71	0.76	2.29	0.72	1.10	0.90	1.89	4.12	4.09	6.47	4.77	8.15
20	1.68	0.90	2.41	0.75	1.17	0.99	2.11	---	4.20	6.54	---	8.21
21	2.06	1.02	2.46	0.90	1.22	1.20	2.34	4.19	4.32	6.62	5.02	8.25
22	2.27	0.49	2.46	0.45	1.13	1.33	2.55	4.26	4.45	6.70	5.05	8.28
23	2.25	0.42	1.64	0.42	1.29	1.44	2.73	4.35	4.57	6.78	5.13	8.32
24	2.42	0.50	1.21	0.51	1.54	1.61	2.84	4.44	4.72	6.87	5.25	8.36
25	2.61	0.61	1.11	0.57	1.53	1.81	2.94	4.51	4.88	6.95	5.38	8.39
26	2.74	0.70	0.51	0.74	0.85	2.00	3.05	4.58	5.02	7.03	---	8.43
27	2.79	0.78	0.57	0.81	0.76	2.09	3.11	4.65	5.14	7.11	5.72	8.46
28	1.45	0.83	0.68	0.85	0.83	2.24	3.18	4.73	5.25	7.19	5.88	8.49
29	1.08	0.84	0.75	0.98	---	2.29	3.29	4.81	5.39	7.23	6.00	8.52
30	1.41	0.77	0.80	1.10	---	2.23	3.40	4.89	5.55	7.26	6.09	8.55
31	1.70	---	0.84	1.22	---	2.33	---	4.96	---	7.31	6.19	---
<b>Mean</b>	2.34	1.14	1.44	0.79	1.15	1.55	2.78	4.19	4.32	6.52	6.40	7.73
<b>Max</b>	3.52	2.70	2.46	1.23	1.72	2.33	3.49	4.96	5.55	7.31	7.89	8.55
<b>Min</b>	1.08	0.42	0.51	0.39	0.75	0.68	1.37	3.50	3.29	5.70	4.77	6.32

<b>Water Year 2007</b>	
<b>Mean</b>	3.33
<b>High</b>	0.39
<b>Low</b>	8.55

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