

Water-Data Report 2007

340743078202006 Local number BR-107; DENR Bear Pen Research Station well EE36k6.

Northern Atlantic Coastal Plain aquifer system
Peedee Formation
Brunswick County, NC

LOCATION.--Lat 34°07'43", long 78°20'20" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040206, 9 mi north of Supply on Federal Road, near North Carolina Forest Service airstrip. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 110 ft, diameter 4 in.; cased to 48 ft, open interval from 48 to 110 ft.

DATUM.--Land-surface datum is 61 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of instrument shelf, 0.69 ft above land-surface datum.

PERIOD OF RECORD.--August 1999 to January 2008 (discontinued). Continuous record April 2000 to January 2008.

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

REMARKS.--Well is part of Brunswick County ground-water study. Water-level data may be influenced by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.35 ft below land-surface datum, January 8, 2007; lowest water level recorded, 13.29 ft below land-surface datum, October 10, 2007.

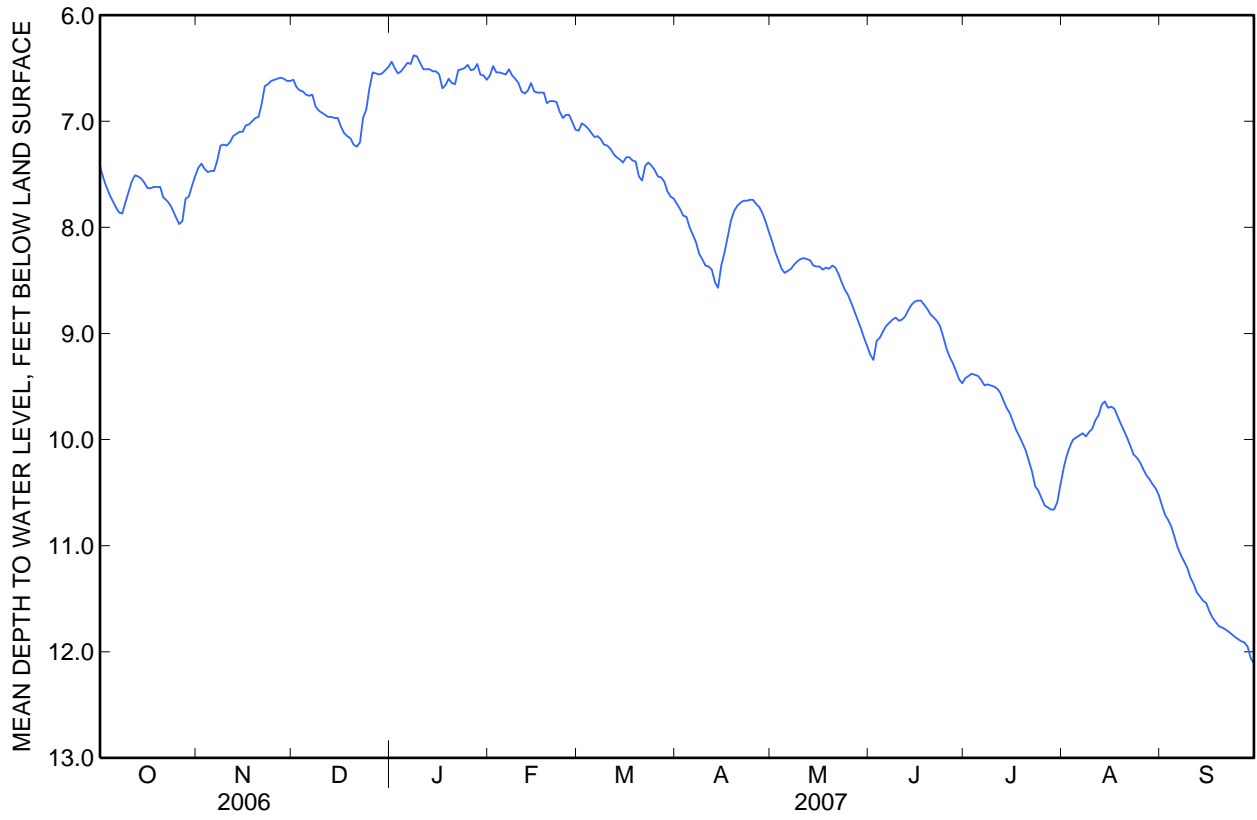
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.42	7.44	6.61	6.44	6.57	7.09	7.78	8.13	9.20	9.42	10.27	10.62
2	7.53	7.40	6.68	6.50	6.48	7.02	7.83	8.23	9.25	9.40	10.15	10.71
3	7.62	7.45	6.71	6.55	6.54	7.04	7.89	8.31	9.07	9.38	10.06	10.76
4	7.69	7.48	6.72	6.53	6.54	7.07	7.90	8.39	9.04	9.39	10.0	10.82
5	7.75	7.47	6.75	6.49	6.55	7.11	8.00	8.43	8.98	9.40	9.98	10.92
6	7.81	7.47	6.76	6.45	6.56	7.15	8.07	8.41	8.93	9.44	9.96	11.02
7	7.86	7.37	6.75	6.46	6.51	7.14	8.14	8.39	8.90	9.49	9.94	11.09
8	7.87	7.23	6.86	6.38	6.57	7.17	8.25	8.35	8.87	9.48	9.97	11.15
9	7.77	7.22	6.90	6.39	6.60	7.22	8.30	8.32	8.85	9.49	9.93	11.21
10	7.67	7.23	6.92	6.45	6.64	7.23	8.36	8.30	8.88	9.50	9.90	11.30
11	7.57	7.20	6.94	6.51	6.72	7.26	8.37	8.29	8.87	9.52	9.82	11.36
12	7.51	7.14	6.96	6.51	6.74	7.31	8.40	8.30	8.84	9.56	9.77	11.44
13	7.52	7.12	6.96	6.51	6.71	7.34	8.52	8.31	8.78	9.63	9.67	11.48
14	7.54	7.10	6.97	6.53	6.64	7.36	8.57	8.36	8.73	9.70	9.64	11.52
15	7.58	7.10	6.97	6.53	6.72	7.39	8.36	8.37	8.70	9.75	9.70	11.54
16	7.63	7.04	7.05	6.56	6.73	7.34	8.24	8.37	8.69	9.83	9.69	11.62
17	7.63	7.03	7.11	6.69	6.73	7.34	8.09	8.40	8.69	9.91	9.71	11.68
18	7.62	7.00	7.14	6.66	6.73	7.37	7.94	8.38	8.73	9.97	9.78	11.72
19	7.62	6.97	7.16	6.60	6.83	7.38	7.85	8.39	8.77	10.03	9.85	11.76
20	7.62	6.96	7.22	6.64	6.81	7.52	7.80	8.36	8.82	10.10	9.91	11.77
21	7.72	6.84	7.24	6.65	6.81	7.56	7.77	8.38	8.85	10.20	9.98	11.79
22	7.75	6.67	7.20	6.52	6.82	7.42	7.75	8.44	8.88	10.30	10.06	11.81
23	7.78	6.65	6.97	6.51	6.91	7.39	7.75	8.52	8.93	10.44	10.14	11.83
24	7.84	6.62	6.89	6.50	6.97	7.42	7.74	8.59	9.03	10.48	10.17	11.86
25	7.91	6.61	6.69	6.47	6.94	7.46	7.74	8.64	9.14	10.55	10.21	11.88
26	7.97	6.60	6.54	6.52	6.94	7.52	7.78	8.71	9.22	10.62	10.27	11.90
27	7.94	6.59	6.55	6.51	7.01	7.53	7.81	8.79	9.28	10.64	10.33	11.91
28	7.73	6.60	6.56	6.46	7.08	7.57	7.87	8.87	9.35	10.66	10.37	11.95
29	7.71	6.62	6.55	6.56	---	7.66	7.95	8.95	9.43	10.66	10.42	12.06
30	7.61	6.62	6.52	6.57	---	7.71	8.04	9.04	9.47	10.59	10.46	12.11
31	7.52	---	6.49	6.61	---	7.73	---	9.12	---	10.42	10.52	---
Mean	7.69	7.03	6.85	6.52	6.73	7.35	8.03	8.48	8.97	9.93	10.02	11.49
Max	7.97	7.48	7.24	6.69	7.08	7.73	8.57	9.12	9.47	10.66	10.52	12.11
Min	7.42	6.59	6.49	6.38	6.48	7.02	7.74	8.13	8.69	9.38	9.64	10.62

Water Year 2007	
Mean	8.26
High	6.38
Low	12.11

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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	12.14	11.77	11.75	11.64	---	---	---	---	---	---	---	---
2	12.15	11.67	11.75	11.65	---	---	---	---	---	---	---	---
3	12.18	11.60	11.71	11.70	---	---	---	---	---	---	---	---
4	12.23	11.55	11.75	11.66	---	---	---	---	---	---	---	---
5	12.28	11.51	11.75	11.57	---	---	---	---	---	---	---	---
6	12.29	11.46	11.88	11.53	---	---	---	---	---	---	---	---
7	12.32	11.47	11.93	11.52	---	---	---	---	---	---	---	---
8	12.35	11.44	11.95	---	---	---	---	---	---	---	---	---
9	12.37	11.40	11.98	---	---	---	---	---	---	---	---	---
10	12.46	11.38	12.00	---	---	---	---	---	---	---	---	---
11	12.44	11.43	12.02	---	---	---	---	---	---	---	---	---
12	12.51	11.42	12.03	---	---	---	---	---	---	---	---	---
13	12.57	11.41	12.05	---	---	---	---	---	---	---	---	---
14	12.62	11.37	12.09	---	---	---	---	---	---	---	---	---
15	12.66	11.34	12.11	---	---	---	---	---	---	---	---	---
16	12.69	11.39	12.02	---	---	---	---	---	---	---	---	---
17	12.71	11.42	12.13	---	---	---	---	---	---	---	---	---
18	12.72	11.45	12.16	---	---	---	---	---	---	---	---	---
19	12.72	11.47	12.11	---	---	---	---	---	---	---	---	---
20	12.79	11.47	12.09	---	---	---	---	---	---	---	---	---
21	12.88	11.47	12.04	---	---	---	---	---	---	---	---	---
22	12.90	11.46	12.06	---	---	---	---	---	---	---	---	---
23	12.88	11.53	12.01	---	---	---	---	---	---	---	---	---
24	12.88	11.59	12.01	---	---	---	---	---	---	---	---	---
25	12.86	11.59	12.01	---	---	---	---	---	---	---	---	---
26	12.79	11.57	11.91	---	---	---	---	---	---	---	---	---
27	12.62	11.60	11.90	---	---	---	---	---	---	---	---	---
28	12.45	11.67	11.87	---	---	---	---	---	---	---	---	---
29	12.28	11.66	11.79	---	---	---	---	---	---	---	---	---
30	12.10	11.70	11.72	---	---	---	---	---	---	---	---	---
31	11.93	---	11.69	---	---	---	---	---	---	---	---	---
Mean	12.51	11.51	11.94	11.61	---	---	---	---	---	---	---	---
Max	12.90	11.77	12.16	11.70	---	---	---	---	---	---	---	---
Min	11.93	11.34	11.69	11.52	---	---	---	---	---	---	---	---

Water Year 2008	
Mean	11.97
High	11.34
Low	12.90

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