

Water-Data Report 2007

351937077284211 Local number LN-105, DENR Graingers Research Station well Q25d11, NC-223

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

LOCATION.--Lat 35°19'38", long 77°28'41" referenced to North American Datum of 1983, Lenoir County, NC, Hydrologic Unit 03020202, 1.6 mi northeast of Graingers on North Carolina Highway 11 at E. I. du Pont de Nemours and Company, Kinston Plant. Owner: NCDENR (North Carolina Department of Environment, and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 40 ft, diameter 4 in., screened interval from 30 to 40 ft.

DATUM.--Land-surface datum is 66 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: top of casing, 2.25 ft above land-surface datum, Nov. 19, 1985 to 1986; top of well casing, 1.7 ft above land-surface datum, 1986 to June 22, 2000; Instrument shelter floor, 1.80 ft above land-surface datum, June 22, 2000, to present.

PERIOD OF RECORD.--November 1985 to current year. Periodic water level measurements November 1985 to October 1986. Continuous record began June 2000.

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, 9.54 ft below land-surface datum, December 19, 20, 25-27, 2003; lowest water level measured, 20.60 ft below land-surface datum, November 19, 1985.

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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	11.32	10.86	10.13	10.29	10.29	10.55	11.12	11.63	12.29	12.48	12.22	12.46
2	11.31	10.84	10.13	10.28	10.27	10.55	11.14	11.65	12.31	12.46	12.22	12.48
3	11.30	10.84	10.16	10.29	10.25	10.55	11.16	11.69	12.33	12.45	12.22	12.50
4	11.30	10.83	10.18	10.29	10.25	10.55	11.17	11.72	12.31	12.44	12.22	12.51
5	11.29	10.83	10.21	10.28	10.25	10.58	11.19	11.73	12.30	12.44	12.22	12.52
6	11.29	10.83	10.23	10.27	10.25	10.60	11.22	11.74	12.31	12.43	12.22	12.53
7	11.27	10.81	10.24	10.26	10.26	10.63	11.24	11.74	12.32	12.43	12.22	12.55
8	11.25	10.73	10.26	10.24	10.27	10.64	11.28	11.76	12.33	12.43	12.23	12.56
9	11.22	10.67	10.29	10.24	10.30	10.66	11.30	11.79	12.33	12.43	12.23	12.58
10	11.19	10.65	10.32	10.24	10.31	10.68	11.33	11.83	12.32	12.43	12.24	12.59
11	11.17	10.63	10.33	10.26	10.33	10.69	11.36	11.86	12.33	12.41	12.23	12.59
12	11.15	10.60	10.34	10.27	10.35	10.71	11.37	11.88	12.35	12.38	12.24	12.60
13	11.14	10.55	10.34	10.27	10.36	10.73	11.37	11.90	12.37	12.35	12.24	12.63
14	11.14	10.51	10.34	10.27	10.35	10.75	11.38	11.90	12.39	12.35	12.24	12.63
15	11.14	10.49	10.35	10.27	10.34	10.77	11.38	11.92	12.42	12.35	12.26	12.60
16	11.14	10.46	10.36	10.27	10.36	10.78	11.34	11.94	12.44	12.34	12.27	12.57
17	11.14	10.42	10.38	10.29	10.37	10.78	11.31	11.94	12.45	12.35	12.28	12.56
18	11.11	10.39	10.39	10.31	10.37	10.80	11.32	11.94	12.46	12.33	12.30	12.55
19	11.08	10.37	10.40	10.30	10.39	10.83	11.34	11.94	12.49	---	12.31	12.55
20	11.06	10.36	10.41	10.30	10.42	10.86	11.37	11.96	12.51	---	12.31	12.55
21	11.06	10.35	10.43	10.31	10.42	10.88	11.41	11.98	12.53	---	12.30	12.53
22	11.07	10.30	10.43	10.30	10.44	10.90	11.44	12.00	12.54	12.28	12.29	12.49
23	11.05	10.22	10.40	10.27	10.46	10.91	11.46	12.02	12.55	12.28	12.29	12.42
24	11.05	10.17	10.36	10.26	10.48	10.93	11.47	12.05	12.57	12.26	12.30	12.38
25	11.05	10.15	10.35	10.26	10.50	10.95	11.48	12.08	12.59	12.25	12.32	12.40
26	11.06	10.15	10.31	10.26	10.50	10.98	11.50	12.11	12.58	12.24	12.34	12.40
27	11.05	10.14	10.28	10.26	10.51	11.00	11.53	12.14	12.56	12.24	12.36	12.40
28	11.00	10.14	10.29	10.26	10.53	11.03	11.55	12.17	12.54	12.24	12.39	12.40
29	10.93	10.14	10.30	10.26	---	11.05	11.57	12.18	12.53	12.24	12.41	12.41
30	10.90	10.14	10.30	10.27	---	11.08	11.61	12.22	12.51	12.26	12.43	12.42
31	10.88	---	10.30	10.27	---	11.10	---	12.26	---	12.24	12.44	---
Mean	11.13	10.49	10.31	10.27	10.36	10.79	11.36	11.92	12.43	12.35	12.28	12.51
Max	11.32	10.86	10.43	10.31	10.53	11.10	11.61	12.26	12.59	12.48	12.44	12.63
Min	10.88	10.14	10.13	10.24	10.25	10.55	11.12	11.63	12.29	12.24	12.22	12.38

Water Year 2007	
Mean	11.35
High	10.13
Low	12.63

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