

GROUND-WATER LEVELS

CARTERET COUNTY

344323076451301. Local number, NC-139; DENR Camp Glenn Research Station well X17j5; County name, CT-153.

LOCATION.--Lat 34°43'23", long 76°45'13", Hydrologic Unit 03020106, on west edge of Morehead City, and south of U.S. Highway 70 at DENR Marine Fisheries Facility on north shore of Bogue Sound. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Castle Hayne aquifer of Oligocene and Eocene age.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 238 ft, diameter 4 in., cased to 180 ft, open hole to 191 ft, hole collapsed from 191 to 238 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 30-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 8.72 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of collar on casing, 1.73 ft above land-surface datum.

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

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.23 ft below land-surface datum, Dec. 7, 1976; lowest water level recorded, 14.93 ft below land-surface datum, Aug. 25, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.96	11.18	10.22	9.91	9.54	9.86	8.91	10.17	11.64	12.96	13.18	13.04
2	10.94	11.20	10.22	10.08	9.53	9.68	8.96	10.31	11.80	12.99	13.25	12.83
3	11.19	11.14	10.19	9.88	9.46	9.35	9.05	10.60	11.87	13.20	13.30	12.65
4	11.43	11.11	10.27	10.15	9.52	9.52	9.14	10.53	12.01	13.34	13.37	12.76
5	11.60	11.01	10.37	10.25	9.76	9.83	9.10	10.42	12.12	13.55	13.28	12.77
6	11.64	10.94	10.32	10.05	9.79	9.89	9.19	10.35	12.07	13.65	13.24	12.71
7	11.61	11.15	10.21	10.08	9.45	9.78	9.39	10.38	12.24	13.86	13.11	12.77
8	11.59	11.09	10.05	10.31	9.50	9.70	9.52	10.38	12.07	13.84	13.07	12.79
9	11.44	11.11	10.06	10.35	9.68	9.62	9.48	10.18	12.15	13.81	13.27	12.58
10	11.47	11.03	9.92	10.36	9.55	9.54	9.52	10.40	12.33	13.88	13.42	11.97
11	11.37	10.94	9.81	10.26	9.45	9.56	9.43	10.52	12.37	13.55	13.45	12.00
12	11.27	11.07	9.91	10.13	9.46	9.31	9.50	10.51	12.52	13.33	13.50	12.12
13	11.15	11.06	9.83	10.06	9.51	9.19	9.45	10.72	12.69	13.32	13.50	12.24
14	11.05	11.10	9.79	10.25	9.59	9.30	9.45	10.76	12.77	13.30	13.45	12.36
15	11.13	10.93	9.84	10.17	9.57	9.32	9.64	10.86	12.52	13.30	13.50	12.36
16	10.94	10.92	9.90	10.34	9.33	9.29	9.73	11.03	12.59	13.29	13.65	12.22
17	11.13	10.89	9.72	10.15	9.41	9.27	9.79	11.04	12.70	13.40	13.85	12.10
18	11.18	10.79	9.65	10.20	9.62	9.26	9.88	11.03	12.65	13.45	13.85	12.07
19	11.18	10.69	9.58	10.03	9.64	9.15	9.98	10.82	12.58	13.62	13.80	12.01
20	11.16	10.60	9.71	10.04	9.48	8.94	9.82	10.54	12.62	13.70	13.83	11.97
21	11.38	10.61	9.92	9.93	9.44	8.87	9.82	10.82	12.49	13.68	14.09	11.94
22	11.28	10.67	10.04	10.10	9.42	8.99	9.89	10.84	12.34	13.62	14.08	11.94
23	11.11	10.60	9.88	10.00	9.35	9.21	9.88	10.83	12.44	13.59	14.17	11.94
24	11.19	10.55	9.55	9.84	9.42	9.26	9.92	11.02	12.55	13.64	14.25	11.87
25	11.24	10.55	9.50	9.81	9.46	9.23	9.76	11.26	12.65	13.49	14.23	11.76
26	11.33	10.59	9.27	9.85	9.27	9.10	9.90	11.57	12.89	13.28	14.02	11.58
27	11.31	10.54	9.45	9.88	9.21	8.93	9.93	11.83	12.82	13.28	13.79	11.55
28	11.42	10.62	9.49	9.84	9.64	8.86	9.90	11.81	12.76	13.40	13.62	11.64
29	11.46	10.43	9.54	9.74	---	8.93	10.07	11.76	12.81	13.39	13.34	11.66
30	11.33	10.35	9.74	9.73	---	8.95	10.21	11.53	12.91	13.31	13.20	11.56
31	11.28	---	9.85	9.65	---	8.97	---	11.46	---	13.34	13.03	---

WTR YR 2002 MEAN 11.09 HIGH 8.86 LOW 14.25

CARTERET COUNTY--Continued

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