

GROUND-WATER LEVELS

217

ORANGE COUNTY

355522079043001. Local number, NC-126; County number, OR-069.

LOCATION.--Lat 35°54'31", long 79°03'29", Hydrologic Unit 03030002, in Chapel Hill, west of University of North Carolina campus, southeast of intersection of Cameron Avenue and Ransom Street. Owner: Chi Psi Fraternity.

AQUIFER.--Unconfined saprolite derived from granite of Paleozoic age.

WELL CHARACTERISTICS.--Dug observation well, depth 48 ft, diameter 36 in., lined with rock; measured depth 46.2 ft, August 1986.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 511.50 ft above NGVD of 1929. Measuring point: Top of shelf, 3.27 ft above land-surface datum (since July 1981).

REMARKS.-- Well is part of terrane-effects network. Well found dry from October 13, 1988 to January 24, 1989. No periodic measurements made from January 24 to July 19, 1989.

PERIOD OF RECORD.--January 1943 to current year. Continuous record January 1943 to March 1948, December 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.22 ft below land-surface datum, May 14, 1984; lowest water level occurred during periods when well was dry, Oct. 11 to Dec. 31, 1940, and Oct. 13, 1988 to Jan. 24, 1989.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	38.23	38.80	39.30	39.50	39.92	39.92	39.73	39.84	39.81	40.30	40.83	41.11	
2	38.24	38.81	39.38	39.47	39.92	39.89	39.75	39.77	39.86	40.30	40.83	41.11	
3	38.27	38.82	39.41	39.45	39.81	39.92	39.78	39.69	39.90	40.31	40.83	41.10	
4	38.21	38.82	39.34	39.45	39.90	39.88	39.78	39.71	39.90	40.33	40.86	41.09	
5	38.28	38.85	39.22	39.44	39.94	39.86	39.86	39.68	39.90	40.35	40.87	41.10	
6	38.32	38.85	39.26	39.56	39.79	39.81	39.88	39.69	39.93	40.37	40.91	41.10	
7	38.35	38.89	39.31	39.61	39.77	39.85	39.81	39.69	39.96	40.36	40.95	41.07	
8	38.38	38.96	39.36	39.58	39.96	39.86	39.77	39.70	40.00	40.40	40.98	40.99	
9	38.36	39.01	39.36	39.53	39.93	39.90	39.84	39.69	39.99	40.44	40.99	40.99	
10	38.35	38.98	39.22	39.61	39.84	39.94	39.87	39.69	39.95	40.46	40.98	41.04	
11	38.39	38.93	39.17	39.63	39.88	39.92	39.87	39.69	39.95	40.47	40.99	41.03	
12	38.38	38.88	39.32	39.55	39.89	39.88	39.86	39.70	40.02	40.47	41.00	41.02	
13	38.41	38.94	39.38	39.57	39.88	39.98	39.78	39.69	40.06	40.46	41.03	41.01	
14	38.36	39.04	39.23	39.57	39.84	39.97	39.80	39.70	40.05	40.47	41.04	41.01	
15	38.43	39.05	39.29	39.56	39.84	39.90	39.91	39.69	40.07	40.52	41.05	41.00	
16	38.53	39.07	39.32	39.68	39.98	39.79	39.96	39.71	40.09	40.55	41.03	40.98	
17	38.51	39.08	39.20	39.67	39.94	39.83	39.95	39.73	40.09	40.56	41.03	40.90	
18	38.52	39.08	39.24	39.53	39.87	39.88	39.94	39.71	40.09	40.57	41.02	40.93	
19	38.54	38.97	39.26	39.65	39.83	39.91	39.90	39.69	40.10	40.60	41.05	41.03	
20	38.58	39.11	39.36	39.74	39.78	39.91	39.84	39.71	40.14	40.64	41.06	41.05	
21	38.48	39.15	39.43	39.74	39.79	39.80	39.84	39.70	40.15	40.66	41.04	41.04	
22	38.48	39.17	39.38	39.67	39.91	39.91	39.88	39.69	40.14	40.67	41.08	41.03	
23	38.58	39.18	39.33	39.72	39.92	39.96	39.87	39.69	40.18	40.68	41.08	41.02	
24	38.70	39.14	39.27	39.70	39.84	39.96	39.90	39.70	40.21	40.74	41.11	41.02	
25	38.74	39.22	39.39	39.81	39.90	39.95	39.90	39.70	40.21	40.76	41.13	41.01	
26	38.68	39.24	39.45	39.76	39.91	39.92	39.84	39.69	40.21	40.76	41.14	41.01	
27	38.59	39.25	39.44	39.71	39.91	39.86	39.81	39.71	40.26	40.77	41.13	41.00	
28	38.64	39.14	39.47	39.80	39.97	39.87	39.93	39.72	40.25	40.79	41.12	40.93	
29	38.67	39.28	39.42	39.81	39.95	39.88	39.95	39.80	40.28	40.80	41.13	41.02	
30	38.80	39.30	39.43	39.74	---	39.84	39.90	39.81	40.30	40.81	41.01	41.05	
31	38.81	---	39.50	39.86	---	39.76	---	39.75	---	40.82	41.09	---	
WTR YR	2004	MEAN	39.87	HIGH	38.21	LOW	41.14						

GROUND-WATER LEVELS
ORANGE COUNTY—Continued

355522079043001. Local number, NC-126; County number, OR-069.

