

GROUND-WATER LEVELS

YADKIN COUNTY

361307080293101. Local number NC-221; DENR East Bend Research Station well F61f3; County number, YD-200.

LOCATION.--Lat 36°13'08", long 80°29'32", Hydrologic Unit 03040101, near East Bend. Owner: DENR (North Carolina Department of Environment and Natural Resources.

AQUIFER.--Mafic Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, drilled to 400 ft, diameter 6 in., cased to 54 ft.

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

DATUM.--Land-surface datum is 1,009.00 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelf, 0.56 ft above land-surface datum.

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

PERIOD OF RECORD.--June 2000 to current year. Records from June 1972 to May 2000 are unpublished and available in the files of the Division of Water Quality, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.30 ft below land-surface datum, Aug. 22, 23, 25, 26, 27, Sept. 4, 2003; lowest water level recorded, 16.97 ft below land-surface datum, Aug. 25, 2002.

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	11.52	11.93	12.29	12.26	12.55	12.40	12.41	12.44	12.70	13.05	---	13.47
2	11.52	11.94	12.33	12.23	12.54	12.39	12.44	12.41	12.72	13.05	---	13.48
3	11.53	11.95	12.35	12.23	12.44	12.41	12.45	12.45	12.74	13.06	---	13.49
4	11.51	11.96	12.30	12.22	12.55	12.38	12.46	12.48	12.74	---	13.36	13.49
5	11.54	11.97	12.24	12.21	12.55	12.37	12.50	12.46	12.75	13.08	13.36	13.50
6	11.55	11.98	12.29	12.30	12.37	12.34	12.51	12.48	12.77	13.09	13.38	13.50
7	11.58	12.02	12.31	12.33	12.39	12.37	12.47	12.49	12.79	13.09	13.40	13.49
8	11.59	12.06	12.33	12.31	12.56	12.38	12.45	12.51	12.80	13.11	13.41	13.42
9	11.59	12.09	12.34	12.28	12.50	12.40	12.51	12.50	12.80	13.14	13.41	13.51
10	11.59	12.07	12.24	12.33	12.43	12.43	12.53	12.51	12.79	13.15	13.41	13.52
11	11.60	12.04	12.29	12.35	12.45	12.41	12.53	12.52	12.81	13.15	13.41	13.50
12	11.60	12.01	12.37	12.31	12.44	12.40	12.52	12.54	12.84	13.14	13.39	13.50
13	11.61	12.06	12.37	12.32	12.43	12.47	12.45	12.54	12.86	13.15	13.42	13.50
14	11.59	12.11	12.25	12.31	12.40	12.46	12.50	12.55	12.86	13.15	13.44	13.50
15	11.65	12.11	12.33	12.32	12.39	12.43	12.57	12.56	12.87	---	13.44	13.50
16	11.71	12.12	12.31	12.39	12.48	12.37	12.57	12.57	12.89	---	13.43	13.49
17	11.69	12.14	12.21	12.38	12.45	12.42	12.54	12.59	12.89	13.20	13.42	---
18	11.70	12.13	12.24	12.29	12.40	12.45	12.53	12.58	12.90	---	13.40	---
19	11.71	12.07	12.24	12.39	12.37	12.48	12.49	12.58	12.91	---	13.41	13.52
20	11.74	12.17	12.30	12.43	12.33	12.47	12.45	12.60	12.93	13.24	13.41	13.52
21	11.69	12.19	12.32	12.42	12.35	12.42	12.44	12.59	12.94	13.25	13.39	13.50
22	11.70	12.19	12.26	12.39	12.41	12.48	12.46	12.59	12.95	13.25	13.41	13.49
23	11.75	12.20	12.21	12.42	12.41	12.51	12.45	12.60	12.96	13.26	13.40	13.49
24	11.83	12.17	12.18	12.41	12.36	12.51	12.46	12.61	12.98	13.29	13.42	13.49
25	11.86	12.23	12.24	12.47	12.39	12.51	12.45	12.62	12.99	13.30	13.44	13.48
26	11.82	12.24	12.26	12.44	12.40	12.49	12.43	12.62	12.99	13.30	13.44	13.48
27	11.77	12.24	12.24	12.41	12.39	12.47	12.42	12.63	13.02	13.29	13.43	13.47
28	11.82	12.18	12.25	12.47	12.43	12.47	12.49	12.63	13.02	13.30	---	13.35
29	11.85	12.28	12.22	12.47	12.42	12.48	12.50	12.67	13.04	13.32	---	13.46
30	11.93	12.27	12.22	12.44	---	12.46	12.47	12.67	13.04	---	13.43	13.45
31	11.94	---	12.26	12.52	---	12.41	---	12.65	---	---	13.47	---

WTR YR 2004 MEAN 12.58 HIGH 11.51 LOW 13.52

