

GROUND-WATER LEVELS

BUCHANAN COUNTY

370443082022301. Local number, 14E 40.

LOCATION.--Lat 37°04'43", long 82°02'22", NAD83, Hydrologic Unit 05070202, 50 ft south of the intersection of State Highways 620 and 622, at Grissom School. Owner: U.S. Geological Survey.

AQUIFER.--Jawbone coal bed of Norton Formation of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 60 ft, cased to 14 ft, open hole 14 to 60 ft.

INSTRUMENTATION.--Electronic data logger 15-minute record interval. June 1988 to September 1997, digital recorder 60-minute punch. October 1986 to June 1988, occasional measurement with chalked tape by USGS personnel. August 1982 to September 1983, digital recorder 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,820 ft above sea level, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to May 30, 1995; 6.74 thereafter.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--August 1982 to September 1983, October 1986 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.25 ft above land-surface datum, Apr. 17, 1998; lowest recorded, 11.49 ft below land-surface datum, Oct. 6, 1982.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 0.63 ft above land-surface datum, Jul. 29; lowest instantaneous water level, 8.83 ft below land-surface datum, Dec. 12.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.35	8.58	8.65	8.57	7.94	2.21	.66	7.26	4.03	---	5.78	---
10	8.54	7.36	8.71	8.53	8.09	2.74	3.94	7.58	1.78	5.81	7.15	---
15	8.60	8.05	8.00	8.24	6.21	2.86	3.67	7.73	6.18	7.27	7.51	---
20	8.55	8.44	7.58	5.06	6.01	4.18	5.34	1.37	7.18	7.66	7.90	---
25	8.58	8.52	8.28	7.21	6.74	2.34	6.41	.47	6.69	7.89	7.85	---
EOM	8.56	8.62	8.55	7.60	6.87	.59	7.19	4.00	7.00	2.04	7.36	8.08

