



Water-Data Report 2007

414856095160101 Local number 81-38-21 ADAD

Sand and gravel aquifers (glaciated regions)
Pleistocene Series
Shelby County, IA

LOCATION.--Lat 41°48'56", long 95°16'01" referenced to North American Datum of 1927, in NE ¼ SE ¼ NE ¼ sec.21, T.81 N., R.38 W., Shelby County, IA, Hydrologic Unit 10240002, approximately 3.75 mi east of the Town of Defiance on the west side of County Highway M36.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 535 ft. Upper casing diameter 2 in, top of first opening 525 ft, bottom of last opening 535 ft. Drilled observation artesian water well, screened 525-535 ft, gravel-packed. Open to Pennsylvanian shale 530-535 ft.

DATUM.--Land-surface datum is 1,370 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.90 ft above land-surface datum, July 1, 1983 to present. Land-surface datum from topographic map.

PERIOD OF RECORD.--July 1983 to September 2004; June 2006 to September 2006; August 2007 to September 2007.

GAGE.--Measurement with chalked tape by USGS personnel.

REMARKS.--Well WC-222.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 208.09 ft below land-surface datum, April 15, 1987; lowest measured, 215.43 ft below land-surface datum, September 25, 2007.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[Measurement method: S, steel tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Aug 22	215.29	S	--	Sep 25	215.43	S	--

Water year 2007 highest: 215.29 Aug 22, 2007; lowest: 215.43 Sep 25, 2007