



Water-Data Report 2007

415456095414101 Local number 82-42-14 ADCA

Lower Cretaceous aquifers
Dakota Group
Monona County, IA

LOCATION.--Lat 41°54'56", long 95°41'41" referenced to North American Datum of 1927, in SW ¼ SE ¼ NE ¼ sec.14, T.82 N., R.42 W., Monona County, IA, Hydrologic Unit 10230007, approximately 6 mi southeast of the Town of Soldier on the north side of State Highway 37.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 341 ft. Upper casing diameter 2 in, top of first opening 311 ft, bottom of last opening 341 ft. Drilled observation artesian water well, screened 311-336 ft, open hole 336-341 ft, gravel-packed.

DATUM.--Land-surface datum is 1,340 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.02 ft above land-surface datum, May 6, 1981 to present. Land-surface datum from topographic map.

PERIOD OF RECORD.--May 1981 to September 2004; June 2006 to September 2006; August 2007 to September 2007.

GAGE.--Measurement with chalked tape or electric line by USGS personnel.

REMARKS.--Well WC-4.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 240.25 ft below land-surface datum, January 10, 1984; lowest measured, 249.00 ft below land-surface datum, November 4, 1996.

**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 30 | 245.94 | S | -- | Sep 27 | 245.62 | S | -- |

Water year 2007 highest: 245.62 Sep 27, 2007; lowest: 245.94 Aug 30, 2007