



Water-Data Report 2007

470818097294104 Local number 142-054-03DDD4

Sand and gravel aquifers (glaciated regions)
Page Aquifer
Cass County, ND

LOCATION.--Lat 47°08'18", long 97°29'41" referenced to North American Datum of 1927, Cass County, ND, Hydrologic Unit 09020107.

GROUND-WATER RECORDS

PERIOD OF RECORD.--October 1982 to current year.

WELL CHARACTERISTICS.--Drilled observation well, depth 182 ft, cased with 158 ft of 6-in diameter plastic pipe, No. 12 slot screen set 158 to 168 ft below land-surface datum.

INSTRUMENTATION.--Measured using a steel tape August 1996 to current year. Water-level recorder October 1982 to August 1996, daily maximum and minimum recorded water levels also are available.

DATUM.--Altitude of land-surface datum is 1,226.2 ft. Measuring point: Top of casing 1.20 ft above land-surface datum.

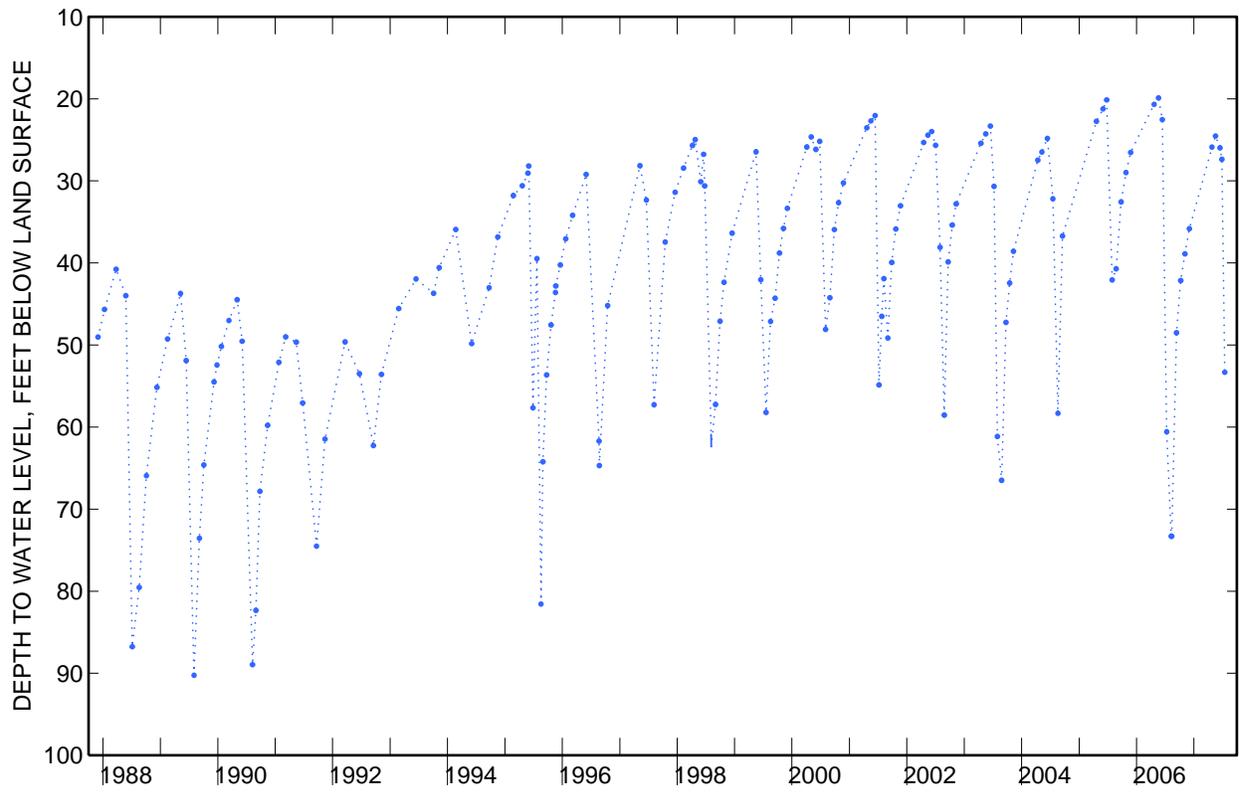
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.90 ft below land-surface datum, May 20, 2006; lowest water level, 98.52 ft below land-surface datum, August 23, 1991.

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

Date	Water level	Date	Water level
Oct 8	42.14	May 17	24.54
Nov 4	38.89	Jun 15	25.97
Dec 2	35.83	27	27.37
Apr 25	25.89	Jul 15	53.33

Water year 2007 highest: 24.54 May 17, 2007; lowest: 53.33 Jul 15, 2007

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1983 to current year (data collected intermittently).

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 4

[Remark codes: <, less than.]

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)	Sampling method, code (82398)	pH, water, unfltrd, std units (00400)	pH, water, unfltrd, lab, std units (00403)	Specif. conductance, wat unfltrd, lab, 25 degC (90095)	Specif. conductance, wat unfltrd, lab, 25 degC (00095)	Temperature, deg C (00010)	Noncarb hardness, wat fltrd, lab, mg/L as CaCO3 (00905)	Noncarb hardness, water, mg/L as CaCO3 (95902)
Jun 27...	1200	168	27.37	1,226.2	70	8010	6.8	7.8	617	630	11.0	280	4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, less than.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium fraction of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, fixed end pt, lab, mg/L as CaCO3 (90410)	Bicarbonate, wat unfltrd, fixed end pt, lab, mg/L (95440)	Carbonate, wat unfltrd, fixed end pt, lab, mg/L (95445)	Hydroxide, wat unfltrd, fixed end pt, field, mg/L (71830)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)
Jun 27...	78.4	19.4	8.86	.3	9	13.2	270	330	<1	<1	1.02	.21	61.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

[Remark codes: <, less than.]

Date	Residue water, fltrd, sum of constituents mg/L (70301)	Aluminum, water, fltrd, µg/L (01106)	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)
Jun 27...	383	<50	<1.00	77.4	54	<1.00	.1	<1.00	<1.0	<1.0	487	<1.00	492

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

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Date	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Thall- ium, water, fltrd, µg/L (01057)	Zinc, water, fltrd, µg/L (01090)	Sample purpose code (71999)	Sample treat- ment, code (00115)	Sampler type, code (84164)
Jun 27...	3.1	<1.0	<1.0	<1.00	2.1	10.00	1	8010