

Ground-Water Wells by County

Ground-Water Levels



Groundwater flow path monitoring, near Perham, MN, circa 1995.

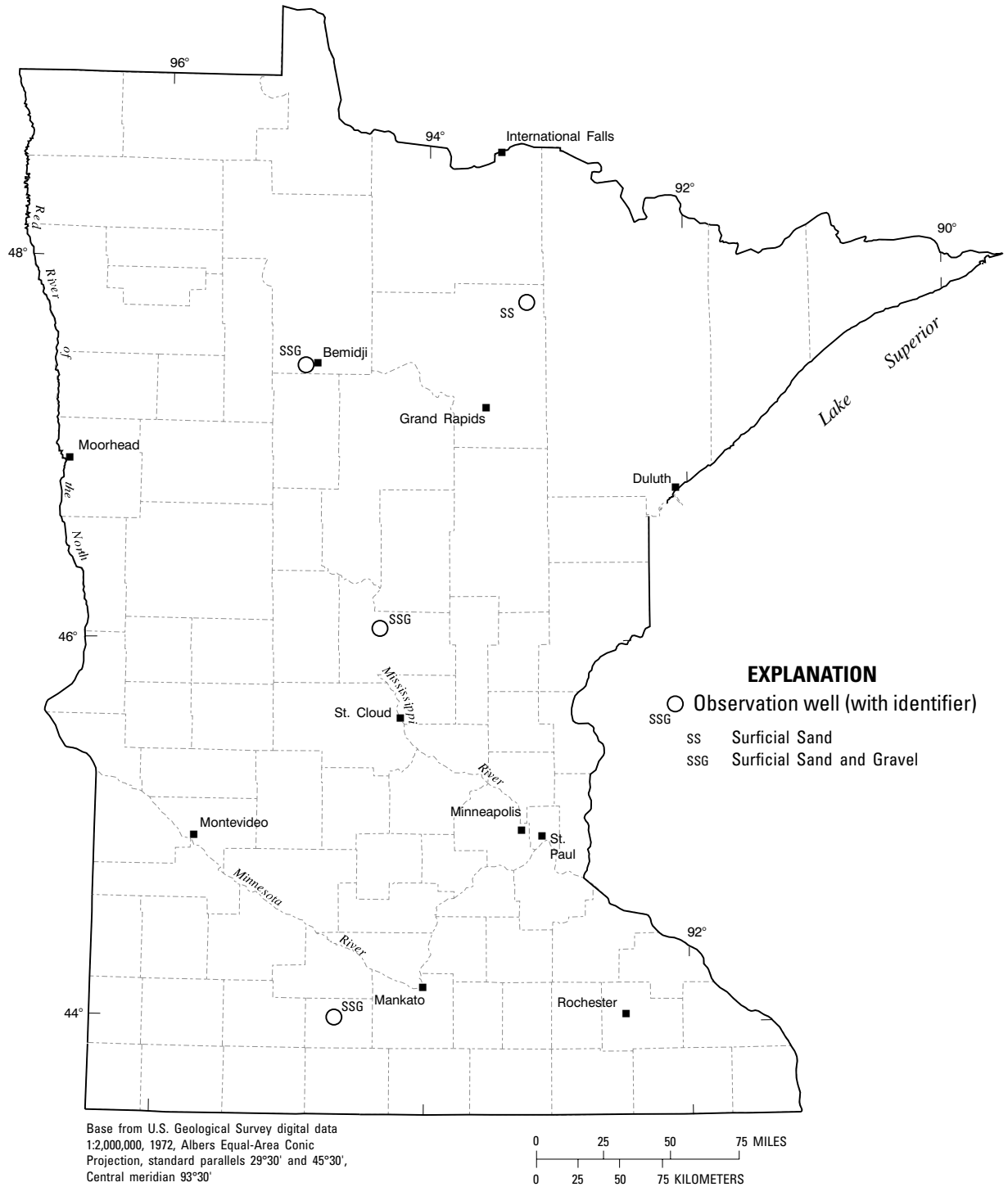


Figure 8. Location of ground-water wells.

GROUND WATER LEVELS--Continued

BELTRAMI COUNTY

473423095053301. Local number, 147N35W02CDCBDD.

LOCATION.-- Lat 47°34'23", long 95°05'33", in SW 1/4 SW 1/4 SE 1/4 sec.2, T.147 N., R.35 W. Hydrologic Unit 07010101.

Owner: U.S. Geological Survey

AQUIFER.-- Surficial outwash sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.-- Drilled water-table observation well, 2 in. diameter galvanized, depth 28.0 ft., screened 17.1 to 18.6 ft.

INSTRUMENTATION.-- Monthly measurements by US Geological Survey employee, continuous recordings with a data logger.

DATUM.-- Land-surface datum is 1,411.9 ft above sea level. Measuring point: Top of casing, 1.19 ft above land-surface datum.

REMARKS.-- Well number 310A, part of the Crude Oil in Groundwater Bemidji Study.

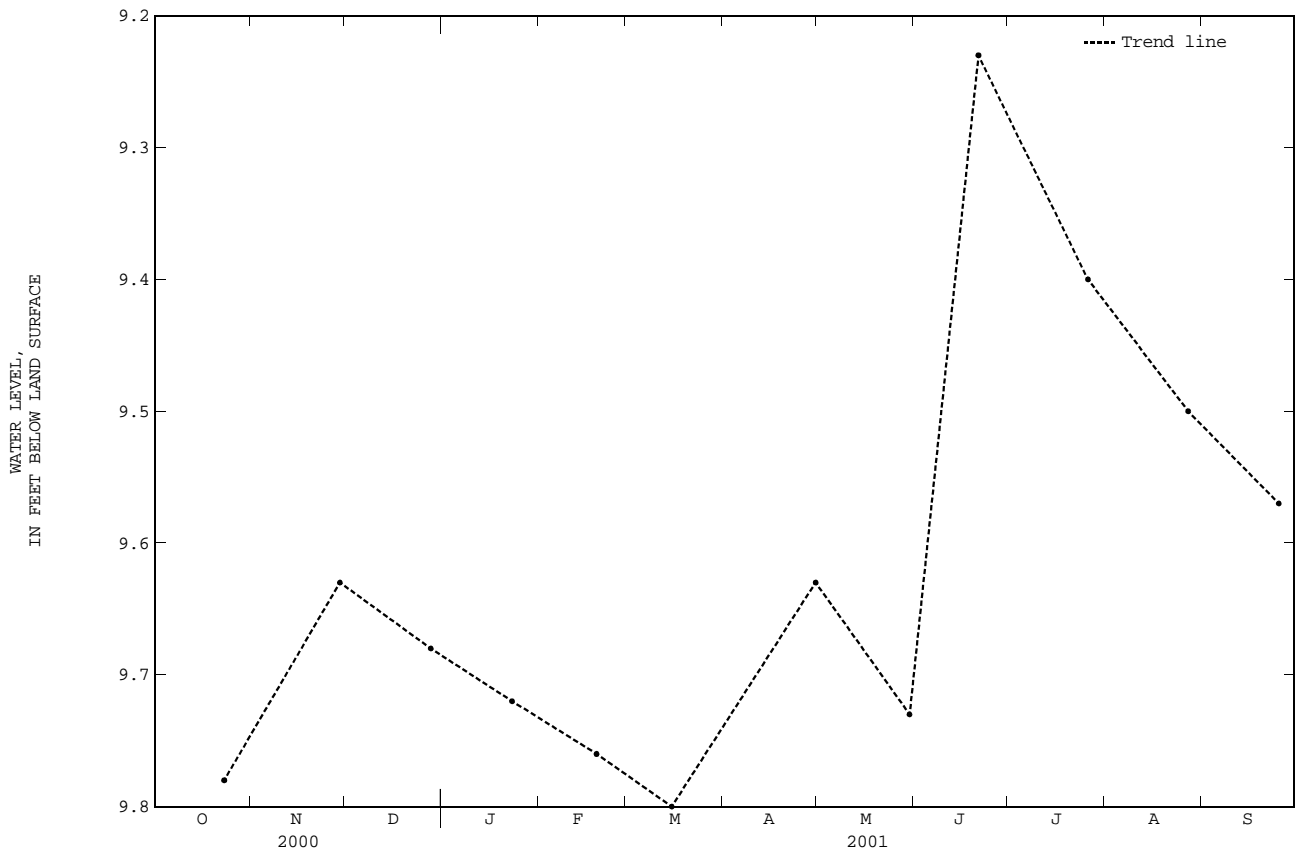
PERIOD OF RECORD.-- Apr. 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level observed, 9.23 ft below land-surface datum Jun. 21, 2001; lowest observed, 10.16 ft below land-surface datum, Mar. 15, 1991

EXTREMES FOR CURRENT WATER YEAR.-- Highest water level observed, 9.23 ft below land-surface datum, Jun. 21; lowest observed, 9.78 ft below land-surface datum, Oct. 23.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	9.78	DEC 28	9.68	FEB 19	9.76	APR 30	9.63	JUN 21	9.23	AUG 27	9.50
NOV 29	9.63	JAN 23	9.72	MAR 15	9.80	MAY 30	9.73	JUL 26	9.40	SEP 25	9.57



GROUND WATER LEVELS-Continued

ITASCA COUNTY

474921093144001. Local number 062N23W26CDC.

LOCATION.-- Lat 47°49'21", Long 93°14'40", SW¹/₄SW¹/₄SW¹/₄ sec. 26, T. 062 N, R. 23 W, Hydrologic Unit 09030002, Near Togo, Minn.

Owner: U.S. Geological Survey

AQUIFER.--Surficial sand of Pleistocene Age.

WELL CHARACTERISTICS.-- Drilled water-table observation well, diameter 2 in., depth 31.20 ft.

INSTRUMENTATION.-- Monthly measurements by observer.

DATUM.-- Land-surface datum is 1,390.0 feet above sea level. Measuring point: Top of casing, 2.25 ft. above land surface datum.

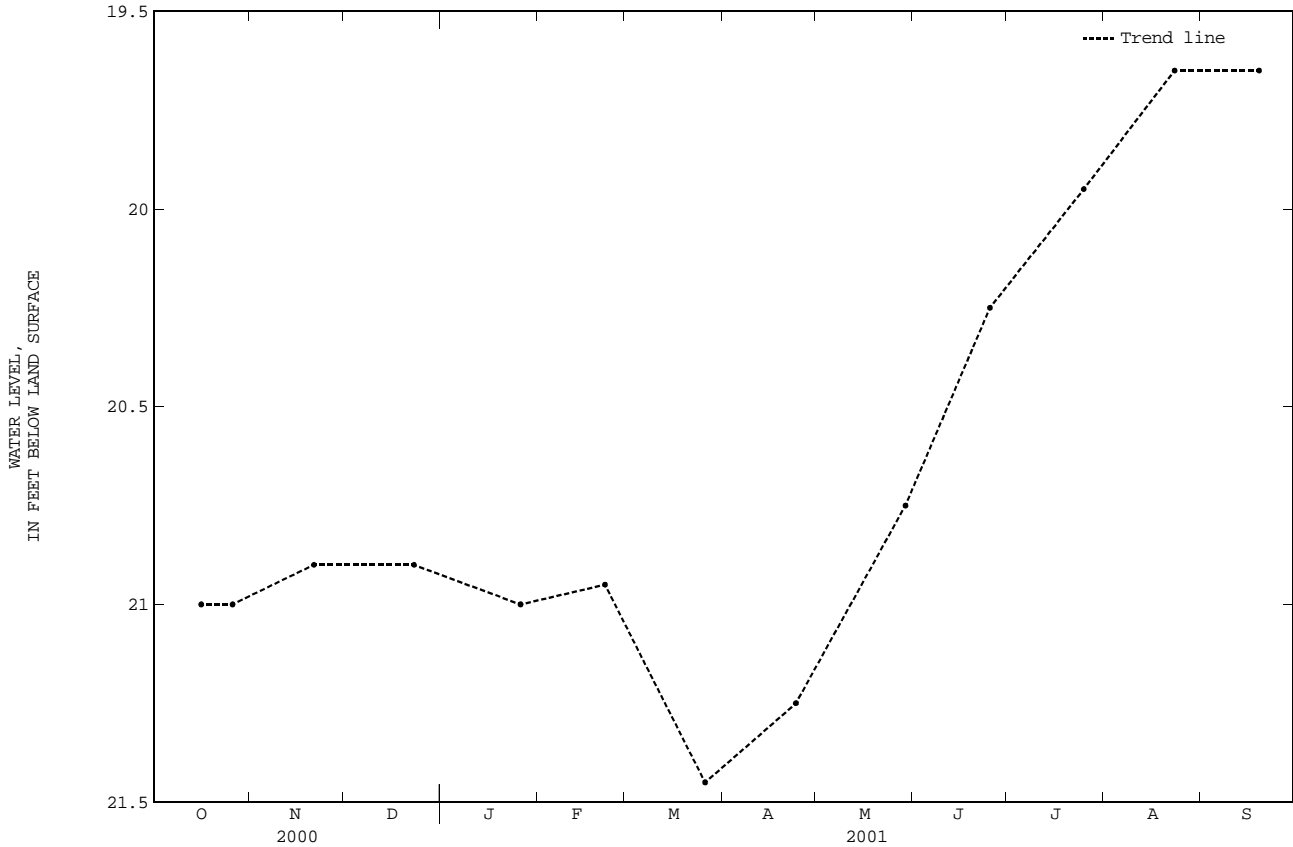
PERIOD OF RECORD.-- Aug. 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level observed, 19.4 ft. below land-surface datum, Nov. 23 and Apr. 24, 1999; lowest observed, 21.45 ft. below land-surface datum, Mar. 26, 2001

EXTREMES FOR CURRENT WATER YEAR.-- Highest water level observed, 19.65 ft. below land-surface datum, Aug. 23 and Sept. 19; lowest observed, 21.45 ft. below land-surface datum, Mar. 26.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	21.0	DEC 23	20.9	MAR 26	21.45	JUN 25	20.25	SEP 19	19.65
OCT 26	21.0	JAN 26	21.0	APR 24	21.25	JUL 25	19.95		
NOV 21	20.9	FEB 22	20.95	MAY 29	20.75	AUG 23	19.65		



GROUND WATER LEVELS--Continued

MORRISON COUNTY

460444094212501. Local number, 130N29W08DCC01.

LOCATION.-- Lat 46°4'44", long 94°21'25", in SW 1/4 SW 1/4 SE 1/4 sec.8, T.130 N., R.29 W., Hydrologic Unit 07010104, at Camp Ripley.

Owner: Minnesota Army National Guard, Camp Ripley.

AQUIFER.-- Surficial outwash sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.-- Drilled water-table observation well, diameter 2 in., depth 59 ft, screened 56 to 59 ft.

INSTRUMENTATION.-- Monthly measurements by observer.

DATUM.-- Land-surface datum is 1,149.0 ft above sea level. Measuring point: Top of casing, 2.10 ft above land-surface datum.

REMARKS.-- Water levels used in monthly National Water Conditions Report.

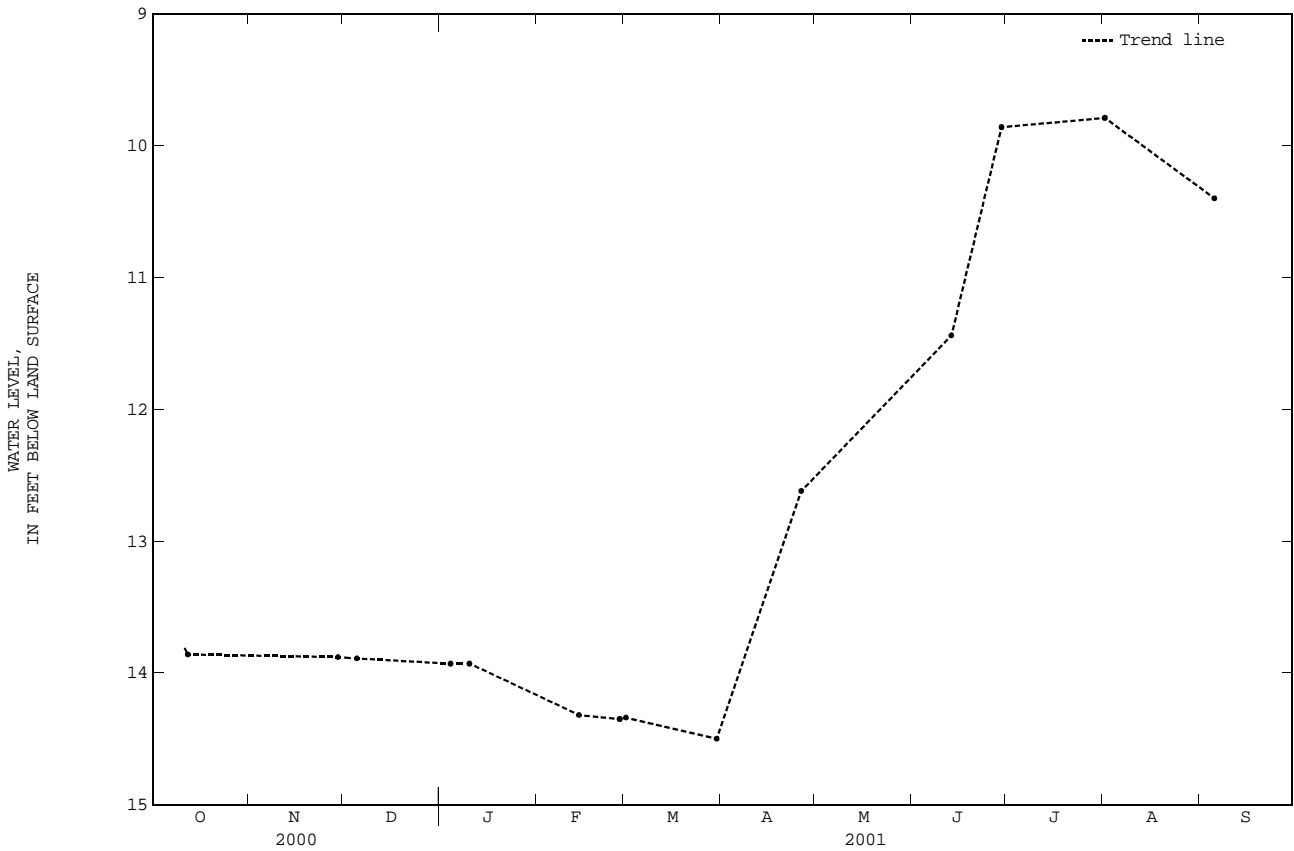
PERIOD OF RECORD.-- Apr. 1949 to current.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level observed, 7.35 ft below land-surface datum, July 28, 1972; lowest observed, 19.75 ft below land-surface datum, Aug. 4, 1961.

EXTREMES FOR CURRENT WATER YEAR.-- Highest water level observed, 9.79 ft below land-surface datum, Aug. 1; lowest observed, 14.50 ft below land-surface datum, Mar. 30.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	13.81	DEC 05	13.89	FEB 14	14.32	MAR 30	14.50	JUN 29	9.86
12	13.86	JAN 04	13.93	27	14.35	APR 26	12.62	AUG 01	9.79
NOV 29	13.88	10	13.93	MAR 01	14.34	JUN 13	11.44	SEP 05	10.40



GROUND WATER LEVELS-Continued

WATONWAN COUNTY

440037094372601. Local number, 106N32W01DDB01.

LOCATION.-- Lat 44°00'37", long 94°37'26", in NW¹/₄SE¹/₄SE¹/₄ sec.1, T.106 N., R.32 W., Hydrologic Unit 07020010, north of St. James.

Owner: U.S. Geological Survey.

AQUIFER.-- Surficial outwash sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.-- Drilled water-table observation well, diameter 1 1/4 in., depth 22 ft, screened 19 to 22 ft.

INSTRUMENTATION.-- Monthly measurements by observer.

DATUM.-- Land-surface datum is 1,056.2 ft above sea level. Measuring point: Top of casing, 4.80 ft above land-surface datum.

PERIOD OF RECORD.-- Nov. 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level observed, 4.11 ft below land-surface datum, Apr. 27, 1969; lowest observed, 16.22 ft below land-surface datum, Mar. 7, 1990.

EXTREMES FOR CURRENT WATER YEAR.-- Highest water level observed, 10.05 ft below land-surface datum, Oct 26; lowest observed, 11.79 ft below land-surface datum, Jan. 28.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	13.35	NOV 30	13.75	MAR 19	14.43	JUL 19	9.38	SEP 12	9.89
30	13.54	FEB 13	14.26	JUN 15	8.83	AUG 19	9.55		

