Water Chemistry
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This map was compiled and generated in a geographic information system (GIS). Digital data products, including chemistry data, are available from the Minnesota Department of Natural Resources (DNR) Ecological and Water Resources Division at http://www.mndnr.gov/water.

MAP EXPLANATION

Sampled well and aquifer symbols
Symbol color indicates tritium age of water sample.

Surficial and buried sand and gravel aquifers

Bedrock aquifers
Prairie da Chien

Prairie da Chien-Jordan
Jordan
Jordan-St. Lawrence
Jordan-Mt. Simon
St. Lawrence; St. Lawrence-Tunnel City
Tunnel City
Tunnel City-Wonowse
Wonowse-Wonowse-Eau Claire
Wonowse-Mt. Simon
Eau Claire
Mt. Simon, Eau Claire-Mt. Simon
Mt. Simon-Hinckley
Indeterminate/multiple

Tritium age
Symbol color indicates tritium age of water sample.

Cold War era: water entered the ground during the peak period of atmospheric tritium concentrations from nuclear bomb testing, 1958-1959 and 1961-1972 (greater than 15 tritium units [TU]).

Recent: water entered the ground since about 1953 (3 to 15 TU).

Modern: water is a mixture of recent and vintage (greater than 1 TU to less than 8 TU).

Vintage: water entered the ground before 1953 (less than or equal to 1 TU).

Groundwater conditions

Groundwater moves from an overlying surficial aquifer to a buried aquifer.

Groundwater moves from an overlying surficial aquifer to an underlying buried aquifer.

Groundwater flows laterally.

Tritium concentrations may be artificially elevated by high capacity pumping.

Groundwater flowpath is unknown.

Symbols and labels

Wells used to generate cross section

If shown, chloride concentration equals or exceeds 3 parts per million.
(* indicates naturally elevated values)

If shown, arsenic concentrations equals or exceeds 10 parts per billion.

If shown, nitrate/nitrogen concentration equals or exceeds 1 part per million.

If shown, groundwater residence time in years estimated by carbon-14 (14C) isotope analysis.

Line of cross section
Body of water

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