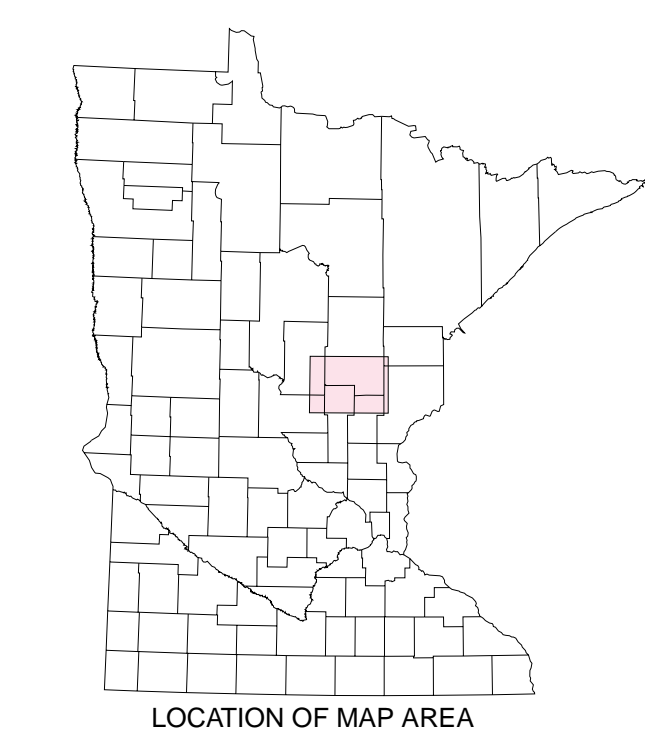


### DATA BASE

By  
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1999

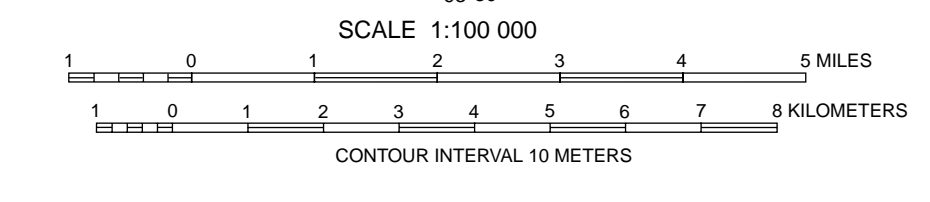
#### DESCRIPTION OF MAP SYMBOLS

- Inferred contact—Mainly located from aeromagnetic data, except where locally constrained by information from outcrops.
- Inferred concealed contact beneath Mille Lacs Lake—Located from aeromagnetic data.
- Inferred fault—Mainly interpreted from aeromagnetic data but locally based on drill-hole data.
- Inferred thrust fault or structural discontinuity—Savanech or upper plate. Interpreted to have mainly involved thrust displacement.
- Inferred concealed thrust fault or structural discontinuity beneath Mille Lacs Lake—Located from aeromagnetic data.
- Magmatic foliation—Showing strike and dip: inclined.
- Metamorphic foliation—Showing strike and dip: inclined; vertical.
- Bedding—Showing strike and dip: inclined; vertical; ball indicates toppling direction.
- Metamorphic (mineral) lineation—Showing trend and plunge.
- Bedrock outcrop.
- Test hole drilled before 1972.
- Test hole drilled since 1972.
- Water well.



LOCATION OF MAP AREA

Base modified from U.S. Geological Survey 1996 Digital Raster  
Graphics of the 1998 Mille Lacs Lake 1:100,000 quadrangle  
Universal Transverse Mercator Projection, grid zone 15  
1983 North American Datum



GIS compilation and cartography by  
Timothy E. Hall and Joyce Herms  
Graphic design by R.S. Lively

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## BEDROCK GEOLOGY OF THE MILLE LACS LAKE 30 X 60 MINUTE QUADRANGLE, EAST-CENTRAL MINNESOTA