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MINNESOTA GEOLOGICAL SURVEY

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CONTENTS

SOURCES OF INFORMATION ON MINNESOTA GEOLOGY 3

MAPS AND REPORTS OF THE MINNESOTA GEOLOGICAL SURVEY AVAILABLE AS HARD COPY

- Aeromagnetic Map Series4
- Bulletins.....4
- County Atlas Series (MGS & DNR)4
- Educational Series.....10
- Guidebook Series11
- Geologic Map of Minnesota, [1966-1982]; Scale 1:250,000.....11
- Information Circulars11
- Miscellaneous Map Series.....15
- Miscellaneous MGS Publications.....23
- Open-File Reports24
- Regional Hydrogeologic Assessments (MGS & DNR).....27
- Report of Investigations27
- State Map Series29

MAPS AND REPORTS BY OTHER AGENCIES

MINNESOTA DEPARTMENT OF NATURAL RESOURCES

- County Atlas Series (DNR & MGS)..... 4
- Regional Hydrogeologic Assessments (DNR & MGS)..... 27
- PRIM (Public Recreation Information Maps) 30

U.S. GEOLOGICAL SURVEY

- Geologic Maps and Reports30
- Topographic Maps31
- Hydrologic Atlases31

NATIONAL GEOGRAPHIC..... 33

OTHER MAPS AND ATLASES..... 33

BOOKS 33

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The Minnesota Geological Survey (MGS) is a unit of the Newton Horace Winchell School of Earth Sciences in the University of Minnesota. The Survey is the University outreach center for the science and technology of earth resources in Minnesota. The Survey conducts basic and applied earth science research, conveys that information to the public through publications and service activities, and promotes earth science education.

Minnesota Geological Survey Contact Information

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Water-Well Help Line..... 612) 626-4468

SOURCES OF INFORMATION ON MINNESOTA GEOLOGY

In addition to Minnesota Geological Survey (MGS) publications, information on Minnesota geology is available from a broad range of sources. All MGS reports and maps have been scanned and are available for free download through the MGS home page (www.mngs.umn.edu), as well as from the University of Minnesota Library Digital Conservancy Unit. Of increasing importance are MGS databases, such as the aeromagnetic and gravity databases. This catalog lists relatively recent publications that can still be purchased as hard copies. Literature from other publishers may be identified through internet searches or references services, and for older literature, previously prepared Bibliographies of Minnesota Geology remain accessible – including MGS Bulletins 34, 46, and 47, and Information Circular 21. These bibliographies can be found as PDF documents by searching at <http://conservancy.umn.edu/handle/11299/708>. For MGS publications not listed in this catalog, as an alternative to a digital download, most publications may be found in libraries, or on the used book market. Most publications released since 1993 also contain some geographic information system (GIS) files as supplementary information on the download web site. MGS publications may also be searched for through a map interface on the MGS web site.

The County Well Index (CWI) is a database that contains information for over 500,000 water-wells drilled in Minnesota. The data are derived from water-well contractors' logs of geologic materials encountered during drilling. Confirmed locations and interpreted geologic well records are available for about half of the wells. Available data also include casing, screen and pump information. CWI is Web accessible at [CWI ONLINE](#), [now the Minnesota Well Index (MWI)]. The database can be searched and files printed. Files cannot be downloaded. Due to the Homeland Security Act of 2002, wells supplying public water systems will not be displayed in CWI Online. If you need access to this information, please contact the MN Department of Health 651-201-4688. This restriction also applies to a data CD or downloadable file. If a CD is required, please contact MGS.

MAPS AND REPORTS OF THE MINNESOTA GEOLOGICAL SURVEY AVAILABLE AS HARD COPY

Most MGS maps published since 1994 have supplementary GIS data and are marked with an * in the list below. All publications since 1872 have now been scanned and are available in PDF format through the MGS website.

AEROMAGNETIC MAP SERIES

Recently reprocessed statewide aeromagnetic data may be downloaded from the MGS website; the following maps remain available for historic reference.

- A-1 Cook and Lake Counties.** 1983. **\$3.50.**
- A-2 St. Louis County.** 1983. **\$3.50.**
- A-3 Carlton and Pine Counties.** 1983. **\$3.50.**
- A-4 East-central region** [area between 93° to 94°37'30" and 45°37'30" to 47°37'30"]. 1983. **\$3.50.**
- A-5 Central region** [area between 94°37'30" to 96°30' and 47°37'30" to and 94°37'30" to 95°22'30" and 45°37'30"]. 1985. **\$3.50.**
- A-6 West-central region** [area from 95°22'30" to western state line between 45°37'30" and 47°; and from 94° to western state line between 45° and 45°37'30"]. 1987. **\$6.50.**
- A-7 Northwestern region** [area from 96°30' to western state line between 47° and 47°37'30" and from 95°37'30" to western state line between 47°37'30" and the International Boundary]. 1989. **\$6.50.**
- A-8 Southwestern region** [area from 94°22'30" to western state line between the southern state line and 44°22'30"; and from 94°37'30" to western state line between 44°22'30" and 45°]. 1989. **\$6.50.**
- A-9 Southeastern region.** 1991. **\$6.50.**

BULLETINS (ISSN 0076-9169)

- 46 Bibliography of Minnesota geology, 1951-1980.** G.B. Morey, N.H. Balaban, and L. Swanson. 1981. 143 p. **\$5.50.**
- 47 Bibliography of Minnesota geology, 1981-1985.** L. Swanson, N.H. Balaban, and G.B. Morey. 1987. 107 p. **\$5.50.**
- 48 Frederick William Sardeson, Geologist 1866-1958.** M.P. Weiss. 2000. 203 p. **\$16.50.**

COUNTY ATLAS SERIES

For County Atlases numbered C-13 and higher, GIS files may be downloaded; the MGS also offers a CD/DVD that contains products of the MGS County Atlas project in GIS and PDF formats. Each CD/DVD is **\$3.00** when purchased with an Atlas or associated RI, or **\$5.50** if purchased separately.

On the CD/DVD, atlas data are part of an ArcGIS mxd project file. The mxd is compatible with the latest versions of ArcGIS but is not backward compatible. With GIS software, the data are searchable and can be manipulated or integrated with other georeferenced data (such as road and water networks, census data, images, and parcel boundaries). If ArcGIS is not available the CD/DVD data can be viewed with ArcReader, a program available directly from the ESRI web site. It is free.

The CD/DVD also contains PDF files of the atlas plates that match the colors and styles of the printed version. Maps can be printed from the PDF files if you have access to a large format plotter. Also included are text versions of the map explanation, jpeg images, and database (dbf) files and some html files, that can be viewed or used independently of any GIS system.



The DNR parts of the County Atlas Series beginning with C-8 are available at http://www.dnr.state.mn.us/waters/groundwater_section/mapping/status.html.

- *C-2 Geologic atlas of Winona County, Minnesota.** N.H. Balaban and B.M. Olsen, eds. 1984. (*out of print, available online. Plates available upon request for \$10.00 each. Please allow 1 business day for printing.*)
- *C-3 Geologic atlas of Olmsted County, Minnesota.** N.H. Balaban, ed. 1988. 9 pls. Scale 1:100,000. 9 pls. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, depth to bedrock; pl. 5, bedrock hydrogeology; pl. 6, pollution sensitivity; pl. 7, sinkhole probability; pl. 9, geologic resources (Plate 8 available for \$10.00 upon request. Please allow 1 business day for printing).* **\$12.00** for pls. 1-8.
- *C-4 Geologic atlas of Hennepin County, Minnesota.** N.H. Balaban, ed. 1989. 9 pls. Scale 1:100,000 and smaller. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, depth to bedrock; pl. 5, Quaternary hydrogeology; pl. 6, bedrock hydrogeology; pl. 7, pollution sensitivity; pl. 8, well construction; pl. 9, geologic resources.* **\$12.50.**
- *C-5 Geologic atlas of Washington County, Minnesota.** L. Swanson and G.N. Meyer, eds. 1990. 7 pls. Scale 1:100,000 and smaller. *Pl. 1, data-base; pl. 2, bedrock geology, pl. 3, surficial geology; pl. 4, bedrock topography and depth to bedrock; pl. 5, hydrogeology; pl. 6, sensitivity of ground-water systems to pollution; pl. 7, geology and well construction.* **\$12.50.**
- *C-6 Geologic atlas of Dakota County, Minnesota.** N.H. Balaban and H.C. Hobbs, eds. 1990. 9 pls. Scale 1:100,000 and smaller. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, depth to bedrock and bedrock topography; pl. 5, Quaternary hydrogeology; pl. 6, bedrock hydrogeology; pl. 7, sensitivity of the Prairie du Chien-Jordan aquifer to pollution; pl. 8, geology and well construction; pl. 9, geologic resources.* **\$12.50.**
- *C-7 Geologic atlas of Ramsey County, Minnesota.** G.N. Meyer and L. Swanson, eds. 1992. 10 pls. Scale 1:48,000 and smaller. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, bedrock topography and Quaternary stratigraphy; pl. 5, depth to bedrock and Confining units of the St. Peter Sandstone; pl. 6, surficial hydrogeology; pl. 7, bedrock hydrogeology; pl. 8, sensitivity of the water-table system to pollution; pl. 9, sensitivity of the Prairie du Chien-Jordan aquifer to pollution; pl. 10, bedrock and bedrock topography.* **\$13.00.**
- C-8 Geologic atlas of Fillmore County, Minnesota. Three parts \$26.00.**
- *Part A** J.H. Mossler, project manager. 1995. 5 pls. Scale 1:100,000. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, depth to bedrock and bedrock topography; pl. 5, geologic resources.* **\$12.50.**
- *Part B** J. Falteisek, Minnesota Dept. of Natural Resources, Division of Waters, project supervisor. 1996. 4 pls. Scale 1:100,000. *Pl. 6, bedrock hydrogeology; pl. 7, sensitivity of the St. Peter-Prairie du Chien-Jordan aquifer to pollution; pl. 8, sinkholes and sinkhole probability; pl. 9, springsheds.* **\$12.50.**
- Part C** Text supplement. R.S. Lively and N.H. Balaban, eds. 1995. 41 p. **\$2.50.**
- C-9 Geologic atlas of Rice County, Minnesota. Both parts \$24.50.**
- *Part A** H.C. Hobbs, project manager. 1995. 6 pls. Scale 1:100,000. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, depth to bedrock and bedrock topography; pl. 6, geologic resources.* **\$14.50.**
- *Part B** J. Falteisek, Minnesota Dept. of Natural Resources, Division of Waters, project supervisor. 1997. 3 pls., 1 pl supplement. Scale 1:100,000. *Pl. 7, water-table hydrogeology; pl. 8, bedrock hydrogeology; pl. 9 and pl. 9 supplement, sensitivity of ground-water systems to pollution.* **\$11.50.**
- C-10 Geologic atlas of Stearns County, Minnesota. Three parts \$33.50.** (*For more information on granites, see also Report of Investigations 56.*)
- *Part A** G.N. Meyer, project manager. 1995. 7 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, depth to bedrock and thickness of Cretaceous strata; pl. 6, bedrock topography; pl. 7, geologic resources.* **\$20.50.**
- *Part B** J. Falteisek, Minnesota Dept. of Natural Resources, Division of Waters, project manager. 1998. 3 pls. and insert. Scale 1:100,000. *Pl. 8, hydrogeology of the Quaternary water-table system; pl. 9, hydrogeology of Quaternary*

confined aquifers and bedrock aquifers; pl. 10, sensitivity of ground-water systems to pollution; insert, summary of ground-water chemistry. \$12.50.

Part C Text supplement. G.N. Meyer and L. Swanson, eds. 1996. 63 p. **\$3.00.**

C-11 Geologic atlas of Mower County, Minnesota. (See also *Report of Investigations 50.*)

***Part A** J.H. Mossler, project manager. 1998. 6 pls. Scale 1:100,000. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, depth to the Pre-Cretaceous bedrock surface and topography of the Pre-Cretaceous bedrock surface; pl. 5, subsurface stratigraphy; pl. 6, sand and gravel resources and bedrock resources. \$16.50.*

***Part B** J. Falteisek, Minnesota Dept. of Natural Resources, Division of Waters project manager. 2002. 4 pls. and insert. Scale 1:100,000. *Pl. 7, bedrock hydrogeology; pl. 8, ground-water flow in bedrock aquifers; pl. 9 sensitivity to pollution of the uppermost bedrock aquifers; pl. 10, karst hydrogeomorphic units; technical appendix, potentiometric surfaces of the uppermost bedrock aquifers. \$14.50.*

C-12 Geologic atlas of Goodhue County, Minnesota.

***Part A** D.R. Setterholm, project manager. 1998. 6 pls. Scale 1:100,000. *Pl. 1, data-base; pl. 2, bedrock geology; pl. 3, surficial geology and thickness of Quaternary sediments; pl. 4, Quaternary stratigraphy; pl. 5, bedrock topography; pl. 6, geologic resources. \$17.50 (with CD \$20.50).*

***Part B** J. Falteisek, Minnesota Dept. of Natural Resources, Division of Waters, project manager. 2003. 4 pls. Scale 1:100,000. *Pl. 7, bedrock and water-table hydrogeology; pl. 8, hydrogeologic cross sections; pl. 9, sensitivity of pollution of the uppermost bedrock aquifers; pl. 10, sinkholes, sinkhole probability, and springs and seeps. \$14.50.*

C-13 Geologic atlas of Pine County, Minnesota. (See also *Report of Investigations 60.*)

***Part A** T.J. Boerboom, project manager. 2001. 7 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geologic map and sections; pl. 3, supplemental data on bedrock geology and geophysics; pl. 4, surficial geology; pl. 5, Quaternary stratigraphy; pl. 6, sinkhole distribution, depth to bedrock and bedrock topography; pl. 7, mineral endowment. \$19.50, \$22.50 with CD.*

***Part B** J.A. Berg, project manager, Minnesota Dept. of Natural Resources, Division of Waters. 2003. 3 pls. Scale 1:100,000. *Pl. 8, hydrogeology of the unconsolidated and bedrock aquifers; pl. 9, hydrogeologic cross sections; pl. 10, sensitivity of pollution of the uppermost bedrock aquifers. \$14.50.*

C-14 Geologic atlas of Wabasha County, Minnesota. (See also *Report of Investigations 59.*)

***Part A** A.C. Runkel, project manager. 2001. 7 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, bedrock topography and depth to bedrock; pl. 5, karst features; pl. 6, geologic endowment of construction-aggregate materials; pl. 7, illustrated geology. \$18.50 (with CD \$21.50).*

***Part B** T.A. Petersen, project manager. 2005. 3 pls. Scale 1:100,000. *Pl. 8, hydrogeology of the unconsolidated and bedrock aquifers; pl. 9, hydrogeologic cross sections; pl. 10, sensitivity to pollution of the uppermost aquifers. \$10.00.*

C-15 Geologic atlas of Pope County, Minnesota.

***Part A** K.L. Harris, project manager. 2003. 5 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology, bedrock topography, and depth to bedrock; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, mineral endowment. \$9.50 (with CD \$12.50).*

***Part B** J.A. Berg, project manager. 2006. 4 pls. Scales 1:100,000, 1:150,000 and 1:300,000. *Pl. 6, hydrogeology of the surficial aquifers; pl. 7, hydrogeology of the buried aquifers; pl. 8, hydrogeologic cross sections; pl. 9, sensitivity to pollution of the buried aquifers. \$12.00.*

C-16 Geologic atlas of Crow Wing County, Minnesota.

***Part A** D.R. Setterholm, project manager. 2004. 6 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and Quaternary subsurface geology; pl. 6, mineral endowment. \$12.50 (\$18.50 with both CD's).*



- *Part B** T.A. Petersen, project manager. 2008. 4 pls. Scale 1:100,000. *Pl. 7, hydrogeology of the buried and surficial aquifers; pl. 8, hydrogeologic cross sections; pl. 9, pollution sensitivity of the buried and surficial aquifers; pl. 10, interaction of lakes and ground water.* **\$12.00.**
- *C-17 Geologic atlas of Scott County, Minnesota.**
- *Part A** D.R. Setterholm, project manager. 2007. 6 pls. Scale 1:100,000 and 1:200,000. *Pl. 1, data-base; pl. 2, bedrock geology, pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock and bedrock geology models; pl. 6, suburban recharge and surface infiltration.* **\$9.50.**
- C-18 Geologic atlas of Todd County, Minnesota.**
- *Part A** D.R. Setterholm, project manager. 2007. 6 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and sand distribution model; pl. 6, mineral endowment.* **\$16.50 (\$19.50 with DVD).**
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2011. 4 pls. Scale 1:100,000. *Pl. 7, distribution of the surficial and buried sand aquifers; pl. 8, hydrogeologic cross sections; pl. 9, hydrogeology of the surficial and buried sand aquifers; pl. 10, pollution sensitivity of the buried sand aquifers.* **\$12.00.**
- C-19 Geologic atlas of Carlton County, Minnesota.**
- *Part A** Terrence J. Boerboom, project manager. 2009. 6 pls. Scales 1:100,000 and 1:200,000. *Pl. 1 data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and sand distribution model; pl. 6, mineral endowment.* **\$16.00 (with CD \$19.00).**
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2011. 4 pls. Scale 1:100,000. *Pl. 7, hydrogeology of the surficial aquifer; pl. 8, hydrogeologic cross sections; pl. 9, hydrogeology of the buried aquifers; pl. 10, sensitivity of groundwater systems to pollution.* **\$12.00.**
- C-20 Geologic atlas of McLeod County, Minnesota.**
- *Part A** Barbara A. Lusardi, project manager. 2009. 6 pls. Scales 1:100,000 *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, supplemental bedrock geology; pl. 4, surficial geology; pl. 5, quaternary stratigraphy and sand distribution model; pl. 6, bedrock topography, depth to bedrock, and mineral endowment.* **\$9.50.**
- *Part B** Minnesota Dept. of Natural Resources, Ecological and Water Resources Division. 2013, 3 pls. Scale 1:100,000. *Pl. 7, hydrogeology; pl. 8, hydrogeologic cross sections; pl. 9, pollution sensitivity of the near-surface materials, buried sand and gravel aquifers, and the bedrock surface.* **\$12.00.**
- C-21 Geologic atlas of Carver County, Minnesota.**
- *Part A** E.J. Bauer, project manager. 2009. 5 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy and sand distribution model; pl. 5, bedrock topography, depth to bedrock, and mineral endowment.* **\$13.60 (\$16.60 with DVD).**
- *Part B** Minnesota Dept. of Natural Resources, Ecological and Water Resources Division. 2014. 4 pls. Scale 1:100,000. *Pl. 6, Quaternary hydrogeology; pl. 7, hydrogeologic cross sections; pl. 8, bedrock hydrogeology; pl. 9, pollution sensitivity.* **\$12.00.**
- C-22 Geologic atlas of Chisago County, Minnesota.**
- *Part A** D.R. Setterholm, project manager. 2010. 6 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy and sand distribution model; pl. 5, bedrock topography, depth to bedrock, and mineral endowment, pl. 6, bedrock topography and depth to bedrock.* **\$19.00 (\$22.00 with DVD).**
- *Part B** Minnesota Dept. of Natural Resources, Ecological and Water Resources Division. 2014. 4 pls. Scale 1:100,000. *Pl. 7, surficial aquifer hydrogeology; pl. 8, Quaternary and bedrock aquifer hydrogeology; pl. 9, hydrogeologic cross sections; pl. 10, pollution sensitivity.* **\$12.00.**

C-23 Geologic atlas of Benton County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2010. 5 pls. Scales 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary stratigraphy and sand distribution model; pl. 5, bedrock topography, depth to bedrock, and mineral endowment. \$17.00 (\$20.00 with DVD).*
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2012. 4 pls. Scale 1:100,000. *Pl. 6, hydrogeology of the surficial sand aquifer; pl. 7, hydrogeologic cross sections; pl. 8, hydrogeology of the buried aquifers and the Rice Area aquifer system; pl. 9, sensitivity of the groundwater systems to pollution. \$12.00.*

C-24 Geologic atlas of Sibley County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2012. 6 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2 bedrock geology; pl.3 surficial geology; pl. 4, quaternary stratigraphy; pl. 5, sand distribution model, and pl. 6, bedrock topography and depth to bedrock. \$15.00.*

C-25 Geologic atlas of Nicollet County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2012. 6 pls. Scale 1:100,000. *Pl.1, data-base map; pl.2, bedrock geology; pl. 3 surficial geology; pl. 4, quaternary stratigraphy; pl. 5, sand distribution model, and pl. 6, bedrock topography and depth to bedrock. \$15.00.*
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2016. Report and 2 pls. Scale 1:100,000. *Pl. 7, chemical hydrogeology; pl. 8, hydrogeologic cross sections \$12.00.*

C-26 Geologic atlas of Blue Earth County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2012. 6 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, sand distribution model, and pl. 6, bedrock topography and depth to bedrock. \$15.00.*
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2016. 3 pls. Scale 1:100,000 to 1:500,000. *pl. 7, bedrock groundwater flow directions; pls. 8 and 9, hydrogeologic cross sections. \$12.00.*

C-27 Geologic atlas of Anoka County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2013. 6 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, sand distribution model; pl. 6, bedrock topography and depth to bedrock. \$15.00.*
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2016. 3 pls., *pl. 7, water chemistry; pls. 8 and 9, hydrogeologic cross sections. \$12.00.*

C-28 Geologic atlas of Renville County, Minnesota.

- *Part A** D.R. Setterholm, project manager. 2013. 5 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and sand distribution model. \$15.00.*
- *Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2017. 1 report, 1 book of 27 map figures, 3 pls, *pl. 6, chemical hydrogeology; pls. 7 and 8, hydrogeologic cross sections. \$12.00.*

C-29 Geologic Atlas of Clay County, Minnesota.

- *Part A** E.J. Bauer, project manager. 2014. 5 pls. Scale 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl.2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and sand distribution model. \$15.00.*

C-30 Geologic atlas of Wright County, Minnesota.

- *Part A** R. G. Tipping, project manager. 2013. 6 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, sand distribution model; pl. 6, bedrock topography and depth to bedrock. \$15.00*

C-31 Geologic atlas of Morrison County, Minnesota.



***Part A** B. A. Lusardi, project manager. 2014. 5 pls. Scales 1:100,000 and 1:200,000. *Pl. 1 data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and stand distribution model.* **\$15.00.**

C-32 Geologic atlas of Sherburne County, Minnesota.

***Part A** B.A. Lusardi, project manager. 2013. 5 pls. Scale 1:100,000 and 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, quaternary stratigraphy; pl. 5, bedrock topography, depth to bedrock, and sand distribution.* **\$15.00**

***Part B** Minnesota Dept. of Natural Resources, Division of Waters. 2017. 1 report, 3 pls, *pl. 6, water chemistry; pls. 7 and 8, hydrogeologic cross sections.* **\$12.00.**

C-33 Geologic atlas of Houston County, Minnesota.

***Part A** Setterholm, Dale, R., project manager. 2014. 4 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, bedrock topography, depth to bedrock.* **\$15.00**

C-34 Geologic atlas of Winona County, Minnesota.

***Part A** Setterholm, Dale, R., project manager. 2014. 4 pls. Scale 1:100,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, bedrock topography, depth to bedrock.* **\$15.00**

C-35 Geologic atlas of Meeker County, Minnesota.

***Part A** Meyer, Gary N., project manager. 2015. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5. Bedrock Topography, Depth to Bedrock, Sand Distribution Model.* **\$15.00**

C-36 Geologic Atlas of Redwood County, Minnesota

***Part A** Setterholm, Dale, R., project manager. 2016. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5. Bedrock Topography, Depth to Bedrock, Sand Distribution Model.* **\$15.00**

C-37 Geologic Atlas of Brown County, Minnesota

***Part A** Boerboom, Terrence, J., project manager. 2016. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5. Bedrock Topography, Depth to Bedrock, Sand Distribution Model.* **\$15.00**

C-38 Geologic Atlas of Kanabec County, Minnesota

***Part A** Boerboom, Terrence, J., project manager. 2016. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5. Bedrock Topography, Depth to Bedrock, Sand Distribution Model.* **\$15.00**

C-39 Geologic Atlas of Washington County, Minnesota

***Part A** Bauer, Emily, J., project manager. 2016. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5., Sand Distribution Model; Pl. 6, Bedrock Topography and Depth to Bedrock.* **\$15.00**

C-40 Geologic Atlas of Wadena County, Minnesota

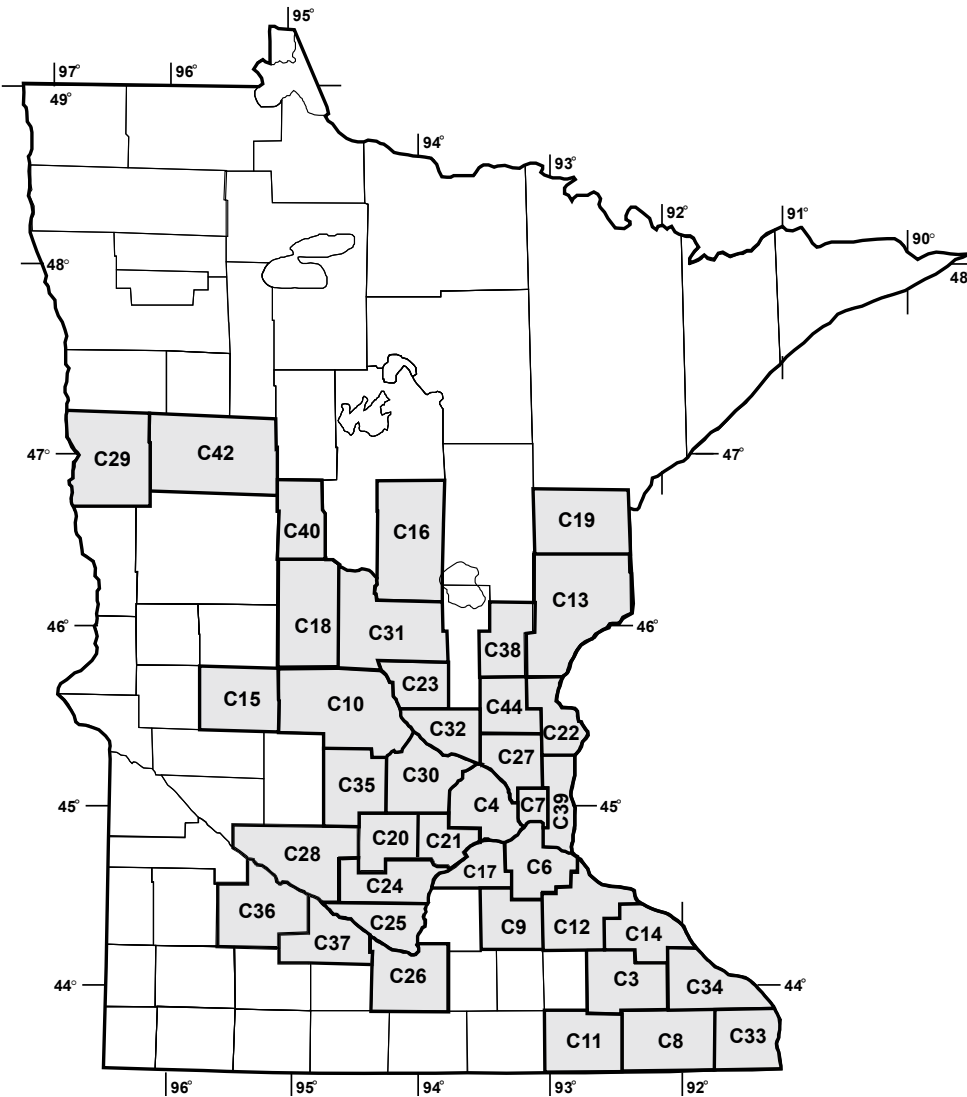
***Part A** Lusardi, Barbara, A., project manager. 2016. 5 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5. Bedrock Topography, Depth to Bedrock, Sand Distribution Model.* **\$15.00**

C-42 Geologic Atlas of Becker County, Minnesota

***Part A** Bauer, Emily, J., project manager. 2016. 6 pls. Scale 1:100,000 to 1:200,000. *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5., Supplemental Quaternary Stratigraphy and Sand Distribution Model; Pl. 6, Bedrock Topography and Depth to Bedrock.* **\$15.00**

C-44 Geologic Atlas of Isanti County, Minnesota

***Part A** Bloomgren, B.A., project manager. 2017. 6 pls. Scale 1:100,000 *Pl. 1, data-base map; pl. 2, bedrock geology; pl. 3, surficial geology; pl. 4, Quaternary Stratigraphy; Pl. 5., Sand Distribution Model; Pl. 6, Bedrock Topography and Depth to Bedrock. \$15.00*

**Completed Counties:**

Anoka	C-27
Becker	C-42
Benton	C-23
Blue Earth	C-26
Brown	C-37
Carver	C-21
Carlton	C-19
Clay	C-29
Crow Wing	C-16
Chisago	C-22
Dakota	C-6
Fillmore	C-8
Goodhue	C-12
Hennepin	C-4
Houston	C-33
Isanti	C-44
Kanabec	C-38
McLeod	C-20
Meeker	C-35
Morrison	C-31
Mower	C-11
Nicollet	C-25
Olmsted	C-3
Pine	C-13
Pope	C-15
Scott	C-1, 17
Sherburne	C-32
Sibley	C-24
Stearns	C-10
Ramsey	C-7
Redwood	C-36
Renville	C-28
Rice	C-9
Todd	C-18
Wabasha	C-14
Wadena	C-40
Washington	C-5, 39
Winona	C-2, 34
Wright	C-30

EDUCATIONAL SERIES (ISSN 0544-3083)

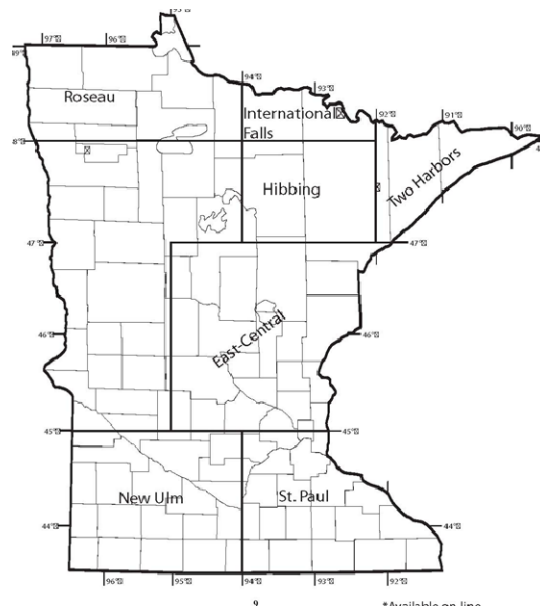
- ES 2** Guide to mineral collecting in Minnesota. G.R. Rapp, Jr. and D.T. Wallace. Second revised edition 1979. 42 p. \$1.50.
- ES 6** The search for oil and gas in Minnesota. G.B. Morey. 1984. 30 p. \$1.50.
- ES 8** Using ground-water data for water planning. B.M. Olsen, E.H. Mohring and B.A. Bloomgren. 1987. 24 p. \$5.50.
- ES 9** The geology of Whitewater State Park [Winona County]. A.C. Runkel. 1996. 22 p. \$5.50.
- *ES 10** Geology of the Root River State Trail area, southeastern Minnesota. J.H. Mossler. 1999. 56 p., 1 map in pocket. \$8.00.

GUIDEBOOK SERIES (ISSN 0192-6268)

- *GS 21** **Field trip guidebook for selected geology in Minnesota and Wisconsin.** 2005. L.A. Robinson, ed. *Prepared for the 2005 Geological Society of America, North Central Section Meeting, Minneapolis, Minnesota, May 18-20, 2005.* 278 p. **\$33.50.**
- *GS 22** **Landforms, stratigraphy, and lithologic characteristics of glacial deposits in central Minnesota.** 2004. A.R. Knaeble, coordinator. *Prepared for the 50th Midwest Friends of the Pleistocene Field Conference, June 4-6, 2004.* 44 p. **\$19.00.**

GEOLOGIC MAP OF MINNESOTA, [1966-1982]; (SCALE 1:250,000)

- St. Paul sheet, bedrock geology.** R.E. Sloan and G.S. Austin. 1966. **\$2.00.** *Flat only.*
- New Ulm sheet, bedrock geology.** G.S. Austin, J.A. Grant, R.J. Ikola, and P.K. Sims. 1970. **\$2.00.** *Flat or folded.*
- Hibbing sheet, bedrock geology.** P.K. Sims, G.B. Morey, R.W. Ojakangas, and S. Viswanathan. 1970. **\$2.00.** *Flat or folded.*
- International Falls sheet, bedrock geology.** D.L. Southwick and R.W. Ojakangas. 1979. **\$5.00.** *Flat or folded. (See also USGS map I-1965-B, which includes part of Ontario.)*
- Roseau sheet, bedrock geology.** R.W. Ojakangas, J.H. Mossler, and G.B. Morey. 1979. **\$5.00.** *Flat or folded. (See also USGS map I-2358-A, which includes parts of Ontario and Manitoba.)*
- East-Central Minnesota, bedrock geology [includes Duluth and Stillwater sheets, plus the parts of Brainerd and St. Cloud sheets east of 95°].** G.B. Morey, B.M. Olsen, and D.L. Southwick. 1981. **\$6.50.** *Flat or folded.*
- Two Harbors sheet, bedrock geology.** J.C. Green. 1982. **\$5.50.** *Flat or folded. (See also M-119.)*



INFORMATION CIRCULARS (ISSN 0544-3105)

- IC-21** **Publications of the Minnesota Geological Survey and its predecessor, the Geological and Natural History Survey of Minnesota.** L. Swanson. 1985. 48 p. **\$1.50.**
- IC-22** **Analytical results of the Public Geologic Sample Program, 1983-1985 biennium.** G.B. Morey and others. 1985. 56 p., 2 figs., 9 tbls. **\$2.50.**
- IC-23** **Scientific core drilling in central Minnesota: Summary of lithologic and geochemical results.** D.L. Southwick, G.N. Meyer, and S.J. Mills. 1986. 186 p., 2 figs., 1 tbl. **\$4.50.**

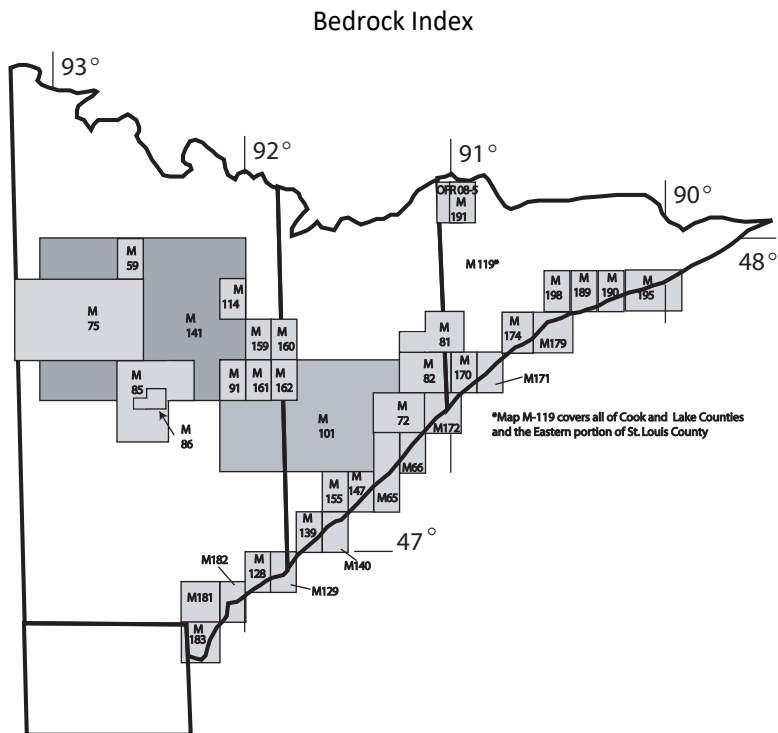


Index to Bedrock Mapping

- IC-32** **Geology and manganese resources of the Cuyuna iron range, east-central Minnesota.** G.B. Morey. 1990. 28 p., 11 figs. **\$5.50.**
- IC-33** **Catalog of paleontological type specimens in the Geological Museum, University of Minnesota.** W.F. Rice. 1990. 125 p. **\$9.50.**
- IC-34** **Precambrian geology of the southern Canadian Shield and the eastern Baltic Shield.** R.W. Ojakangas, ed. *U.S.A.-U.S.S.R.-Canada Joint Seminar, August 21-23, 1990, Duluth, Minnesota.* 174 p. **\$12.50.**
- IC-35** **Geophysical solutions to geologic problems of continental interiors: A Minnesota workshop.** V.W. Chandler, ed. 1991. 68 p. **\$5.50.**
- IC-36** **Radium in the Mt. Simon-Hinckley aquifer, east-central and southeastern Minnesota.** R.S. Lively and others. 1992. 58 p. **\$5.50.**
- IC-37** **Scientific core drilling in parts of Itasca, St. Louis, and Lake Counties, northeastern Minnesota, 1989-1991: Summary of lithologic, geochemical, and geophysical results.** J.P. Meints and others. 1993. 159 p. **\$8.50.**
- IC-38** **Analytical results of the Public Geologic Sample Program, 1989-1991 biennium.** G.B. Morey and L.S. Day. 1992. 79 p. **\$10.50.**
- IC-40** **Scientific and exploration drilling in northwestern Minnesota: Lithological, geochemical, and geophysical results of drilling by the Minnesota Geological Survey, 1991-1993, and a summary of other scientific and exploration drilling.** M.A. Jirsa and T.J. Boerboom. 1993. 106 p. **\$6.50.**
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- IC-42** **Scientific test drilling and mapping in east-central Minnesota, 1994-1995: Summary of lithologic results. (Companion to Open File Report 95-1 & MGS Miscellaneous Map M-132.)** M.A. Jirsa and V.W. Chandler. 1997. 105 p. **\$11.50.**
- *IC-43** **Background levels of mercury and arsenic in Paleoproterozoic rocks of the Mesabi Iron Range, northern Minnesota.** G.B. Morey and R.S. Lively. 1999. 14 p. **\$2.50.**
- IC-44** **Geochemical evaluation of platinum group element (PGE) mineralization in the Sonju lake intrusion, Finland, Minnesota.** J. D. Miller Jr. 1999. 32p. **\$3.50.**
- *IC-45** **Utility of elemental geochemical data in correlation and provenance studies of Pleistocene materials: a case study in Stearns County, central Minnesota.** G.B. Morey, R.S. Lively, and G.N. Meyer. 2000. 24 p. **\$3.50.**
- *IC-46** **Aggregate resources inventory of the seven-county metropolitan area, Minnesota.** D.L. Southwick, M. Jouseau, G.N. Meyer, J.H. Mossler, and T.E. Wahl. 2000. 91 p. **\$25.50.** (See also MGS Miscellaneous Map 102.)

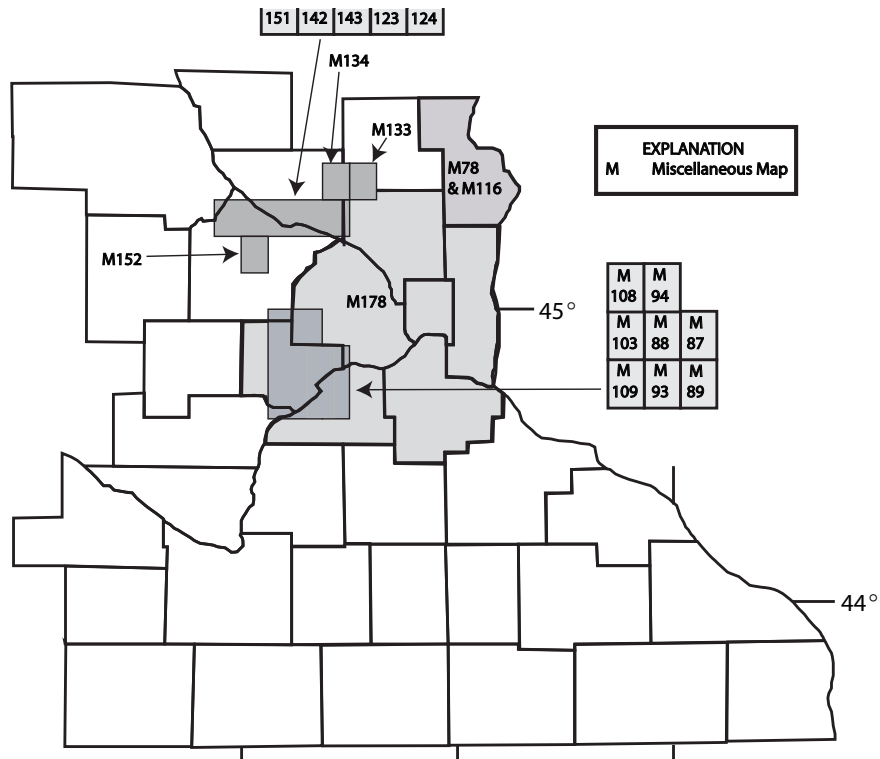
Index to Bedrock Mapping for the North Shore Region

Index of bedrock mapping for other parts of MN located on page 12
(See also Country Atlas index, page 10; Geologic Map Series, page 11;
and State Map Series List, page 30)

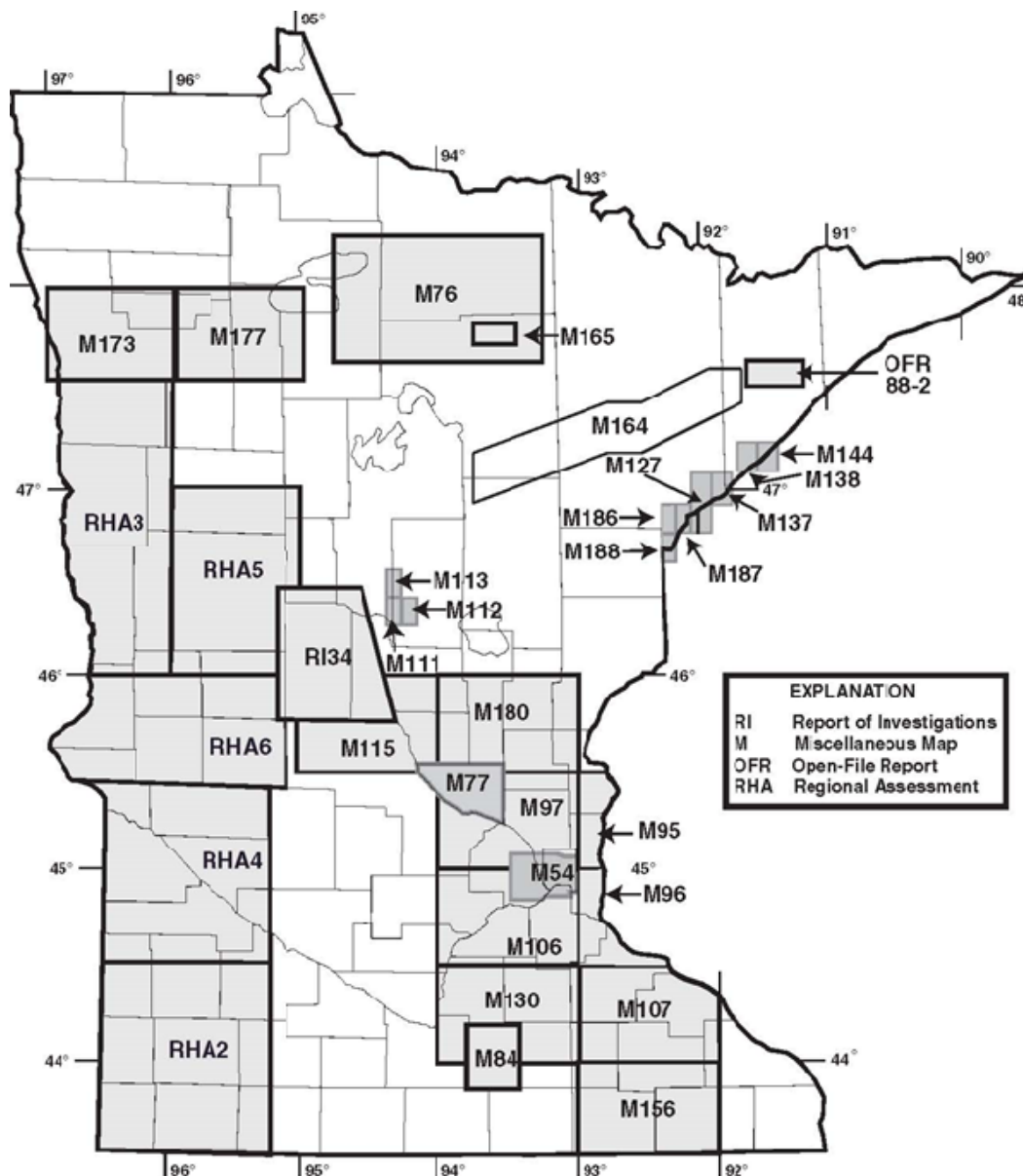




Index to Quaternary Geologic Mapping in the Twin Cities Metro



Index to selected Quaternary Geologic Maps



MISCELLANEOUS MAP SERIES

(See MAP INDEXES, PAGES 12, 14, 15, 16)

- M-09** Simple Bouguer gravity map of Minnesota, Two Harbors sheet. R.J. Ikola. 1970. Scale 1:250,000. **\$1.50.** *Folded only.*
- M-12** Simple Bouguer gravity map of Minnesota, Roseau sheet. L.D. McGinnis, G. Durfee, and R.J. Ikola. 1973. Scale 1:250,000. **\$3.50.** *Folded only.*
- M-35** Simple Bouguer gravity map of Minnesota, Stillwater sheet. L.D. McGinnis, D.R. Carlson, R. Pederson, and J.S. Schafersman. 1977. Scale 1:250,000. **\$2.75.** *Folded only.*



- M-37** Simple Bouguer gravity map of Minnesota, Duluth sheet. K.A. Krenz and C.P. Ervin. 1977. Scale 1:250,000. **\$2.75.** *Folded only.*
- M-40** Simple Bouguer gravity map of Minnesota, Brainerd sheet. L.D. McGinnis, J.K. Jackson, and C.P. Ervin. 1978. Scale 1:250,000. **\$2.75.** *Folded only.*
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- M-46** Geologic map of the Long Island Lake quadrangle, Cook County, Minnesota. G.B. Morey, P.W. Weiblen, J.J. Papike, and D.H. Anderson. 1981. Scale 1:24,000. **\$3.50.** *Folded only.*
- M-47** Lineament map, International Falls sheet, Minnesota. G.B. Morey and J.F. Heutmaker. 1982. Scale 1:250,000. **\$6.50.** *Folded only.*
- M-48** Simple Bouguer gravity map of Minnesota, St. Paul sheet. C.P. Ervin, B.W. Van De Voorde, and V.W. Chandler. 1982. Scale 1:250,000. **\$4.00.** *Folded only.*
- M-49** Lineament map, Hibbing sheet, Minnesota. J.F. Heutmaker and G.B. Morey. 1982. Scale 1:250,000. **\$4.00.** *Folded only.*
- M-51** Paleozoic lithostratigraphy of southeastern Minnesota. J.H. Mossler. 1983. 8 pls. Scale 1:500,000. **\$12.50.** *Folded only.*
- M-52** Bedrock topography and isopachs of Cretaceous and Quaternary strata, east-central and southeastern Minnesota. J.H. Mossler. 1983. 2 pls. Scale 1:500,000. **\$6.50.** *Folded only.*
- M-53** Shaded-relief aeromagnetic anomaly map of northeastern and east-central Minnesota. V. W. Chandler, E. Nordstrand, and S. Anderson. 1984. 1 pl. 1:000,000. **\$4.00.** *Folded only.*
- M-54** Quaternary geologic map of the Minneapolis-St. Paul urban area, Minnesota. G.N. Meyer. 1985. Scale 1:48,000. **\$5.50.** *Folded only.*
- M-55** Bedrock geologic and topographic maps of the seven-county twin cities metropolitan area, Minnesota. M. A. Jirsa, B. M. Olsen, and B. A. Bloomgren. 1986. 2 pls. 1:125,000. **\$4.00.** *Folded only.*
- M-56** Simple Bouguer gravity map of Minnesota, Hibbing sheet. V.W. Chandler, M.A. Jirsa, and R.J. Ikola. 1985. Scale 1:250,000. **\$2.50.** *Folded only.*
- M-57** Bedrock geologic and topographic maps of the Minneapolis-St. Paul urban area, Minnesota. B. A. Bloomgren. 1985. 2 pls. 1:48:000. **\$4.00.** *Folded only.*
- M-58** Ground-water geochemical atlas for parts of east-central Minnesota. R.S. Lively and G.B. Morey. 1985. 5 pls. Scale about 1:600,000. **\$5.50.** *Folded only.*
- M-59** Geologic map of Norwegian Bay quadrangle, St. Louis County, Minnesota. R.L. Bauer. 1985. Scale 1:24,000. **\$3.00.** *Folded only.*
- M-60** Distribution of iron-formations in the main Cuyuna range, east-central Minnesota. G.B. Morey and D.D. Morey. 1986. Scale 1:48,000. **\$6.50.** *Folded only.*
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- M-62** Simple Bouguer gravity map of Minnesota, International Falls sheet. V.W. Chandler, S.J. Mills, and R.J. Ferderer. 1987. Scale 1:250,000. **\$4.50.** *Folded only.*
- M-63** Geology and geophysics of the Denham-Mahtowa area, east-central Minnesota. P.L. McSwiggen. 1987. Scale 1:48,000. **\$5.50.** *Folded only.*

- M-64** Geologic map of the Sherry Lake quadrangle, Itasca County, Minnesota. M.A. Jirsa. 1988. Scale 1:24,000. **\$5.50.** *Folded only.*
- M-65** Geologic map of the Silver Bay and Split Rock Point NE quadrangles, Lake County, Minnesota. J.D. Miller, Jr. 1988. Scale 1:24,000. **\$5.50.** *Folded only.*
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- M-67** Bedrock geologic map of parts of Koochiching, Itasca, and Beltrami Counties, north-central Minnesota. M.A. Jirsa and T.J. Boerboom. 1990. Scale 1:250,000. **\$8.50.** *Folded only.*
- M-68** Bedrock geologic map of northeastern Itasca County, Minnesota. M.A. Jirsa. 1990. Scale 1:48,000. **\$8.50.** *Folded only.*
- M-69** Geologic maps of the Late Cretaceous rocks, southwestern Minnesota. D.R. Setterholm. 1990. Color and black and white. 2 pls. Scale 1:750,000. **\$6.50.** *Folded only.*
- M-70** Distribution of arsenic in ground water and rocks, southwestern Minnesota. G.B. Morey, D.R. Setterholm, and R. Kanivetsky. 1990. Black and white. Scale 1 inch = 7.5 miles. **\$4.50.** *Folded only.*
- M-71** Geologic map of the North Shore of Lake Superior, Lake and Cook Counties, Minnesota: Part 1. Little Marais to Tofte. J.C. Green. 1992. Scale 1:24,000. **\$4.50.** *Folded only.*
- M-72** Geologic map of the Doyle Lake and Finland quadrangles, Lake County, Minnesota. J.D. Miller, Jr., J.C. Green, T.J. Boerboom, and V.W. Chandler. 1993. Scale 1:24,000. **\$8.50.** *Folded only.*
- M-73** Bedrock geology of Waseca County, Minnesota. B.A. Bloomgren. 1993. 3 pls. Scale 1:62,500 and smaller. **\$7.00.** *Folded only. (See M-84 for a surficial geologic map of Waseca County.)*
- M-74** Reconnaissance geologic map of the Northwest Angle, Lake of the Woods County, Minnesota. C.E. Zamzow and G.B. Morey. 1991. Scale 1:48,000. **\$4.50.** *Folded only.*
- M-75** Bedrock geologic map of the Cook to Side Lake area, St. Louis and Itasca Counties, Minnesota. M.A. Jirsa, T.J. Boerboom, V.W. Chandler, and P.L. McSwiggen. 1991. Scale 1:48,000. **\$10.50.** *Folded only.*
- M-76** Surficial geologic map of parts of Koochiching, Itasca, and Beltrami Counties, north-central Minnesota. G.N. Meyer. 1993. Scale 1:250,000. **\$7.50.** *Folded only.*
- M-77** Quaternary geologic map of Sherburne County, Minnesota. G.N. Meyer and H.C. Hobbs. 1993. Scale 1:100,000. **\$4.50.** *Folded only.*
- M-78** Quaternary geologic map of Chisago County, Minnesota. G.N. Meyer. 1993. Scale 1:100,000. **\$4.50.** *Folded only.*
- M-79** Geologic map of Archean bedrock, Soudan-Bigfork area, northern Minnesota. Compiled by D.L. Southwick. 1993. Scale 1:100,000. **\$5.50.** *Folded only. This map covers a block of 26 7.5-minute quadrangles (2 x 13) in and contiguous to the Vermilion district.*
- M-80** Bedrock geologic map of northwestern Minnesota. M.A. Jirsa, A.C. Runkel, and V.W. Chandler. 1994. Scale 1:250,000. **\$7.50.** *Folded only. A map of the area of Minnesota north of lat. 47° N. and west of lon. 95.5° W.*
- M-81** Bedrock geologic map of the Silver Island Lake, Wilson Lake, and western Toohey Lake quadrangles, Lake and Cook Counties, Minnesota. T.J. Boerboom and J.D. Miller, Jr. 1994. Scale 1:24,000. **\$7.50** *Folded only.*
- M-82** Bedrock geologic map of the Cabin Lake and Cramer quadrangles, Lake and Cook Counties, Minnesota. J.D. Miller, Jr., T.J. Boerboom, and E.A. Jerde. 1994. Scale 1:24,000. **\$7.50.** *Folded only.*
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- *M-84** Surficial geology of Waseca County, Minnesota. B.A. Lusardi. 1997. Scale 1:62,500. *(See also M-73 for bedrock geologic maps of Waseca County.)* **\$7.50.** *Folded only.*
- *M-85** Bedrock geologic map of the Virginia Horn, Mesabi Iron Range, St. Louis County, Minnesota. M.A. Jirsa, T.J. Boerboom, and G.B. Morey. 1998. Scale 1:48,000. *(Companion to RI-53.)* Paper plot-**\$10.50.**



- *M-86 **Bedrock geologic map of the Midway area, St. Louis County, Minnesota.** M.A. Jirsa. 1998. Scale 1:12,000. (*Companion to RI-53.*) Paper plot-**\$10.50.**
- *M-87 **Surficial geologic map of the Shakopee quadrangle, Carver, Scott, and Hennepin Counties, Minnesota.** B.A. Lusardi. 1997. Scale 1:24,000. Paper plot-**\$8.00.**
- *M-88 **Surficial geologic map of the Victoria quadrangle, Carver County, Minnesota.** B.A. Lusardi. 1998. Scale 1:24,000. Paper plot-**\$8.00.**
- *M-89 **Surficial geologic map of the Jordan East quadrangle, Carver and Scott Counties, Minnesota.** B.A. Lusardi. 1998. Scale 1:24,000. Paper plot-**\$8.00.**
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- *M-91 **Bedrock geologic map of Allen quadrangle, St. Louis County, Minnesota.** M.J. Severson and J.D. Miller, Jr. 1999. Scale 1:24,000. Paper plot-**\$8.00.**
- *M-92 **Bedrock geologic map of northwestern Minnesota.** M.A. Jirsa, V.W. Chandler, A.C. Runkel. 1999. Scale 1:200,000. Paper-plot **\$12.50.**
- *M-93 **Surficial geologic map of the Jordan West quadrangle, Carver and Scott Counties, Minnesota.** B.A. Lusardi. 1999. Scale 1:24,000. Paper-plot **\$8.00.**
- *M-94 **Surficial geologic map of the Mound quadrangle, Carver and Hennepin, Minnesota.** B.A. Lusardi. 1999. Scale 1:24,000. Paper-plot **\$8.00.**
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- *M-96 **Surficial geology of the Hastings 30 x 60 minute quadrangle, Minnesota.** H.C. Hobbs. 1999. Scale 1:100,000. Paper-plot **\$9.50.**
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- *M-99 **Bedrock geology of the Aitkin 30 x 60 minute quadrangle, east-central Minnesota.** T.J. Boerboom, M.J. Severson, and D.L Southwick. 1999. 2 pls. Scale 1:100,000. Paper plots. Pl. 1, bedrock geologic map. **\$12.50** Pl. 2, data base map. **\$10.50.**
- *M-100 **Bedrock geology of the Mille Lacs 30 x 60 minute quadrangle, east-central Minnesota.** T.J. Boerboom, M.J. Severson, and D.L. Southwick. 1999. 2 pls. Scale 1:100,000. *Pl. 1, bedrock geologic map-\$12.50; pl. 2, data base map-\$10.50.* Complete set paper plots-**\$23.00.**
- *M-101 **Bedrock geologic map of the central Duluth Complex and western part of the Beaver Bay Complex, Lake and St. Louis Counties, Minnesota.** J.D. Miller, Jr., and V.W. Chandler. 1999. Scale 1:100,000. Paper plot-**\$12.50.**
- *M-102 **Primary sources of construction aggregate in the Twin Cities seven-county Metropolitan Area, Minnesota.** G.N. Meyer and J.H. Mossler, compilers. 1999. 2 pls. on 4 sheets. Scale 1:100,000. *Pl. 1, map of primary aggregate sources [2 sheets]; pl. 2, data-base map [2 sheets]; each sheet, \$12.50.* Complete set paper plots-**\$50.00.** (*See also MGS Information Circular 46.*) Also refer to the DNR aggregate web site: www.dnr.state.mn.us/lands_minerals/metroaggregate.html.
- *M-103 **Surficial geologic map of the Waconia quadrangle, Carver County, Minnesota.** B.A. Lusardi. 2000. Scale 1:24,000. Paper plot-**\$8.00.**
- *M-104 **Bedrock geology and structure of the seven-county Twin Cities Metropolitan Area, Minnesota.** J.H. Mossler and R.G. Tipping. 2000. Scale 1:125,000. Paper plot-**\$12.50.**

- *M-105 Bedrock geology of the Island View quadrangle, Koochiching County, north-central Minnesota.** C.B. Hemstad, R.W. Ojakangas, and D.L. Southwick. 2000. 2 pls. Scale 1:24,000. *Pl. 1, bedrock geology; pl. 2, bedrock outcrop; each sheet, \$8.00*. Complete set paper plots-**\$16.00**.
- *M-106 Surficial geology of the St. Paul 30 x 60 minute quadrangle, Minnesota.** G.N. Meyer and B.A. Lusardi, compilers. 2000. Scale 1:100,000. Paper plot-**\$12.50**.
- *M-107 Surficial geology of the Rochester 30 x 60 minute quadrangle, Minnesota.** Compiled by H.C. Hobbs. 2000. Scale 1:100,000. Paper plot-**\$12.50**.
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- 97-5 Mineral potential assessment of northern St. Louis County, southeastern Koochiching County, and northeastern Itasca County, Minnesota.** V.W. Chandler, M.A. Jirsa, and G.B. Morey. 1997. 9 pls. Scale 1:100,000. Paper plots. *Pl. 1, total field magnetic anomaly reduced to pole; pl. 2, second vertical derivative of the total field magnetic anomaly; pl. 3, second vertical derivative of the simple Bouguer anomaly; pl. 4, geophysical interpretation; pl. 5, drill hole and outcrop location; pl. 6, bedrock geology; pl. 7, geophysical model cross-sections; pl. 8, depth to magnetic basement; pl. 9, mineral potential; each plate, \$12.50. Complete set-\$112.50.*
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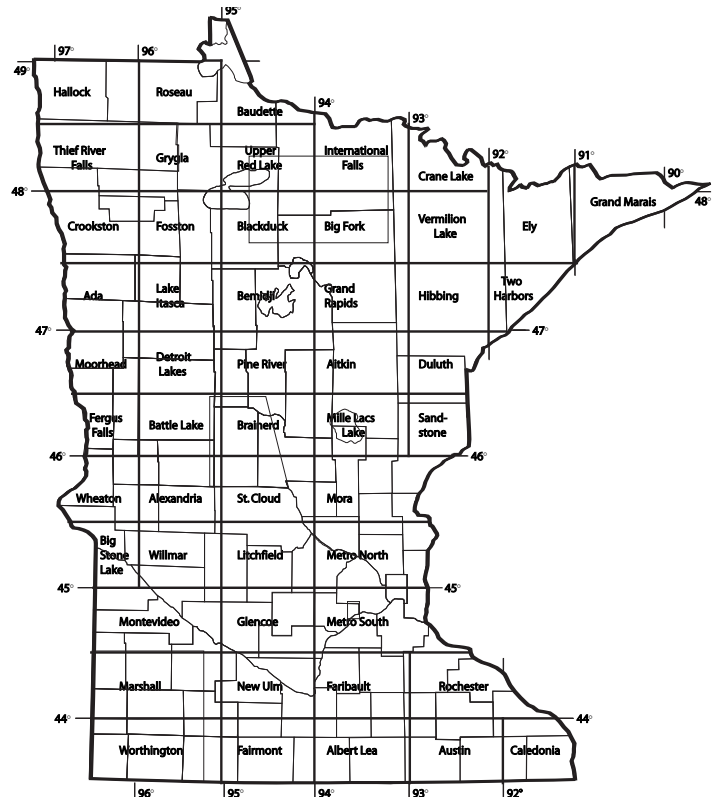
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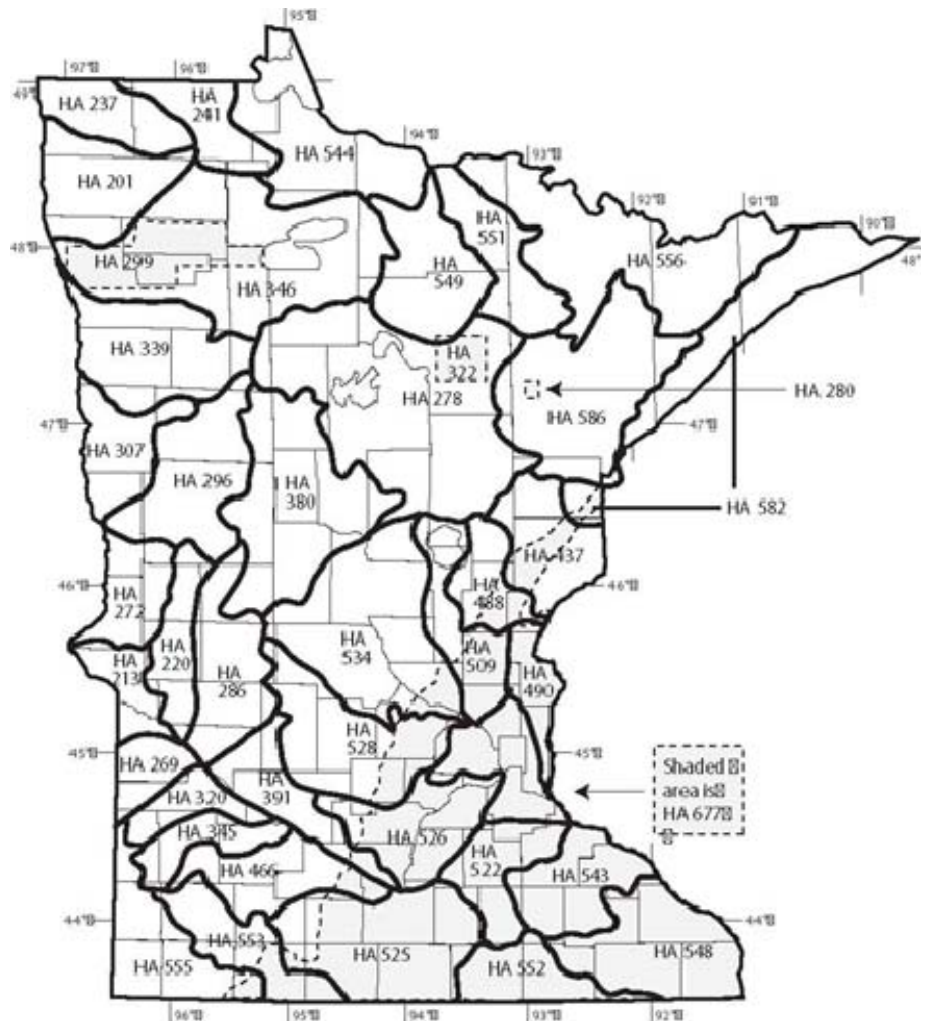
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Voyageurs National Park Recreation Map. National Geographic. Scale 1:50,000. **\$11.95**.

OTHER MAPS AND ATLASES

Geologic Map, Mesabi Iron Range, Minnesota. Second Edition. Compiled by D.G. Meineke and others. *Prepared for the 1993 meeting of the Institute on Lake Superior Geology.* 1999. Scale 1:62,500. **\$6.50**. Flat only.

Minnesota Atlas and Gazetteer. DeLorme Mapping. *Topographic maps (GPS grids) of the entire state (scale 1:190,000) and information on bike routes, campgrounds, fishing, hiking, hunting, parks, wildlife, and more.* 2001. 96p. **\$19.95**.

Wisconsin Atlas and Gazetteer. DeLorme Mapping. *Topographic maps (GPS grids) of the entire state (scale 1:150,000) and information on bike routes, campgrounds, fishing, hiking, hunting, parks, wildlife, and more.* 2000. 104p. **\$19.95**.

BOOKS

An Introduction to Caves of Minnesota, Iowa, and Wisconsin. E. C. Alexander, Jr., ed. 1980. 1980 Speleological Society Convention Guidebook. 5 pls. Paperback. **\$5.50**.

Geology on Display: Geology and Scenery of Minnesota's North Shore State Parks. J.C. Green. 1996. Minnesota Department of Natural Resources. 69 p. Spiral-bound paper. **\$19.95**.

A Guide to Minnesota's Scientific & Natural Areas. Second Edition. 1999. Minnesota Department of Natural Resources. 194 p. Spiral-bound paper. **\$14.95**.

The Lake Superior Agate. Fourth Edition. S.F. Wolter. 2008. 111 p. Paperback. **\$24.95**.

The Lake Superior Agate: One Man's Journey. S.F. Wolter. 2001. 175 p. Paperback. **\$24.95**.

Minnesota Fossils and Fossiliferous Rocks. R.E. Sloan. 2005. 218 p. Spiral-bound paper. **\$30.00**.

Minnesota's Geology. R.W. Ojakangas, and C.L. Matsch. *An extensive overview of the Geology of Minnesota; includes numerous color plates.* 1982. 255 p. Paperback. **\$29.95**.

Minnesota Highway Map. MN Department of Transportation. **\$0.93**. **Free if picked up**.

Minnesota History Along the Highways. S.P. Rubinstein. *Presents the locations and texts of 60 geologic markers, and nearly 300 historic markers in Minnesota.* 2003. 322 p. Paperback. **\$13.95**.

Roadside Geology of Minnesota. R.W. Ojakangas. 2009. Mountain Press. 353 p. Paperback. **\$26.00**.

Rock Pickers Guide to Lake Superior's North Shore. M.S. Stensaas. 2000. 43 p. Paperback. **\$9.95**.

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