

WGNHS REPORTS

BIBLIOGRAPHIES AND INDEXES

These publications include map indexes, bibliographies, and lists of publications. See also *Special Report 2 and Bulletin 89*.

BI 1.

- ◆ *Index to Topographic Maps of Wisconsin*. Wisconsin Geological and Natural History Survey.

NOTE: Current information can be found in *Wisconsin: Index to topographic and other map coverage*. See "Publications Prepared in Cooperation with Federal and State Agencies," U.S. Geological Survey, Topographic Maps section.

BI 2.

- ◆ *List of Geological Survey Geologic and Water-Supply Reports and Maps for Wisconsin*. U.S. Geological Survey.

BI 3.

- ◆ *Publications of the University of Wisconsin, Geological and Natural History Survey, 1958*. 1958, 17 p.
- ◆ *Publications of the University of Wisconsin, Geological and Natural History Survey, 1969*. 1969, 22 p.
- ◆ *University Extension, The University of Wisconsin, Geological and Natural History Survey Supplemental List of Publications*. 1972, 4 p.
- ◆ *Publications of the Geological and Natural History Survey*. 1974, 30 p.
- ◆ *Publications of the Geological and Natural History Survey*. 1974, 29 p.
- ◆ *Publications List*. University of Wisconsin–Extension, Geological and Natural History Survey, 1977, 36 p.
- ◆ *List of Publications*. University of Wisconsin–Extension, Wisconsin Geological and Natural History Survey, 1979, 26 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1982, 44 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1985, 70 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1987, 78 p.

- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1989, 69 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1990, 71 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1992, 76 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1995, 73 p.
- ◆ *List of Publications*. Wisconsin Geological and Natural History Survey, 1998, 73 p.

List of Publications. Wisconsin Geological and Natural History Survey, 2002, 75 p.

BI 4.

- ◆ *Historical Directory of State Geological Surveys* (first edition). G.F. Hanson, 1962, 22 p.
- ◆ *Historical Directory of State Geological Surveys* (second edition). G.F. Hanson, 1969, 27 p.
- ◆ *Historical Directory of State Geological Surveys* (third edition). G.F. Hanson, 1972, 27 p.

BI 5.

- ◆ *Wells in Wisconsin That Enter Precambrian Basement Rocks* (first edition). G.F. Hanson, 6 p.
- ◆ *Wells in Wisconsin Penetrating Basement Rocks* (second edition). G.F. Hanson, 1964, 41 p.
- ◆ *Wells in Wisconsin That Enter Precambrian Rocks* (third edition). M. Roshardt, 1971, 68 p.
- ◆ *Index to Wells in Wisconsin Reaching Precambrian Rock* (fourth edition). M. Roshardt, 1976, 72 p.

BI 6.

- ◆ *Bibliography of Precambrian Geology of Wisconsin, 1778-1968*. C.E. Dutton and R.A. Bradley, 1971, 28 p.

BI 7.

- ◆ *List of Geologic Work Being Done in Wisconsin by State Surveys, Federal Agencies, Universities, and Colleges*. Compiled by M.E. Ostrom, 1971, 14 p.

BI 8.

- ◆ *Ground-Water Information Coverage in Wisconsin, 1973.* A. Zaporozec, 1973, page-size map. Reprinted from Special Report 2.

BI 9.

- ◆ *Status of 1:62,500 Topographic Mapping in Wisconsin, 1974.* R.J. Olmstead, 1974, page-size map. (See BI 1.)

BI 10.

- ◆ *Status of 1:24,000 Topographic Mapping in Wisconsin, 1973-74.* R.J. Olmstead, 1974, page-size map. (See BI 1.)

BI 11.

- ◆ *Status of Wisconsin Aeromagnetic Survey, September, 1974* (first edition). R.J. Olmstead, 1974, page-size map.
- ◆ *Wisconsin Aeromagnetic Survey Index of Published Maps* (second edition). R.J. Olmstead, 1976, 4 p. pamphlet.

Wisconsin Aeromagnetic Survey Index of Published Maps (third edition). M.L. Czechanski, 1978, page-size map.

BI 12.

- ◆ *Index of Published Orthophotoquads in Wisconsin* (first edition). R.J. Olmstead, 1976, page-size map.
- ◆ *Index of Published Orthophotoquads in Wisconsin* (second edition). M.L. Czechanski, 1978, page-size map.

BI 13.

Withdrawn.

BI 14.

Bibliography and Index of Wisconsin Ground Water, 1851-1972: Addendum, 1834-1972. A. Zaporozec, 1978, 39 p. University of Wisconsin, Water Resources Center. (See also Special Report 2.)

BI 15.

Wisconsin Ground Water—An Annotated Bibliography, 1973-1977. A. Zaporozec, 1978, 86 p. University of Wisconsin, Water Resources Center. (See also Special Report 2.)

BI 16.

Index of Geology of Wisconsin—Outcrop Descriptions. M.L. Czechanski and J.A. Funck, 1979.

BI 17.

Bibliography of Wisconsin Ground Water, Supplement 1978-1983. A. Zaporozec, 1984.

BI 18.

List of Open-File Reports of the Wisconsin Geological and Natural History Survey, 1984.

BI 19.

List of Reprint Articles by the Staff of the Wisconsin Geological and Natural History Survey, 1984.

BI 20.

List of Open-File Reports of the U.S. Geological Survey Pertaining to Wisconsin, 1985.

BI 21.

An Annotated Bibliography of Local Groundwater Management Publications. P. Robinson, D. Yanggen, S. Born, 1985, 25 p.

BULLETINS

Bulletins are comprehensive reports about field and laboratory investigations and are generally intended for use by natural science professionals.

Some U.S. Department of Agriculture (USDA) versions of soil surveys published between 1900 and 1925 are available from the Map and Publication Sales office. Although many of the older soil series bulletins are no longer available individually, they can be purchased as a part of a bound volume that includes several consecutively numbered bulletins.

Modern soil surveys (those published after 1955) were published by the USDA Soil Conservation Service (now the Natural Resources Conservation Service [NRCS])—some in cooperation with the WGNHS and the UW-College of Agriculture and Life Sciences. These soil surveys are not available from the Map and Publication Sales office but can be obtained from the county NRCS offices. Contact the NRCS state office (8030 Excelsior Drive, Madison, Wisconsin, 53717, telephone 608/662.4462, ext. 227) for further information.

B 1.

- ◆ *On the Forestry Conditions of Northern Wisconsin.* F. Roth, 1898, 78 p.

B 2.

- ◆ *On the Instincts and Habits of Solitary Wasps.* G.W. Peckham and E.G. Peckham, 1898, 245 p.

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- B 3.**
- ◆ *A Contribution to the Geology of the Precambrian Igneous Rocks of the Fox River Valley, Wisconsin.* S. Weidman, 1898, 63 p.
- B 4.**
- ◆ *On the Building and Ornamental Stones of Wisconsin.* E.R. Buckley, 1898, 544 p.
- B 5.**
- ◆ *The Geography of the Region about Devil's Lake and the Dalles of Wisconsin with Some Notes on its Surface Geology.* R.D. Salisbury and W.W. Atwood, 1900, 151 p.
- B 6.**
- ◆ *Preliminary Report on the Copper-Bearing Rocks of Douglas County, Wisconsin* (first edition). U.S. Grant, 1900, 55 p.
 - ◆ *Preliminary Report on the Copper-Bearing Rocks of Douglas County, Wisconsin* (second edition). U.S. Grant, 1901, 83 p.
- B 7.**
- ◆ *The Clays and Clay Industries of Wisconsin.* E.R. Buckley, 1901, 304 p.
- NOTE: Bulletin 7 is titled Part 1. Part 2 was never published. (See also B 15.)
- B 8.**
- ◆ *On the Lakes of Southeastern Wisconsin* (first edition). N.M. Fenneman, 1902, 178 p.
 - ◆ *On the Lakes of Southeastern Wisconsin* (second edition). N.M. Fenneman, 1910, 188 p.
- B 9.**
- ◆ *Preliminary Report on the Lead and Zinc Deposits of Southwestern Wisconsin.* U.S. Grant, 1903, 103 p.
- B 10.**
- ◆ *Highway Construction in Wisconsin.* E.R. Buckley, 1903, 339 p.
- B 11.**
- Preliminary Report on the Soils and Agricultural Conditions of North Central Wisconsin* (first edition). S. Weidman, 1903, 68 p., with soil map (scale 1 inch = 3 miles).
- Preliminary Report on the Soils and Agricultural Conditions of North Central Wisconsin* (second edition). S. Weidman, 1908, 72 p., with soil map (scale 1 inch = 3 miles).
- B 12.**
- ◆ *The Plankton of Lake Winnebago and Green Lake.* C.D. Marsh, 1903, 94 p.
- B 13.**
- ◆ *The Baraboo Iron-Bearing District of Wisconsin.* S. Weidman, 1904, 190 p.
- B 14.**
- ◆ *Report on Lead and Zinc Deposits of Wisconsin, with an Atlas of Detailed Geologic and Topographic Maps of Southwestern Wisconsin* (scale 4 inches = 1 mile). U.S. Grant, 1906, 100 p. A supplementary series of 6 maps by W.O. Hotchkiss and E. Steidtmann was published in 1909.
- B 15.**
- ◆ *The Clays of Wisconsin and Their Uses.* H. Ries, 1906, 259 p.
- B 16.**
- ◆ *The Geology of North Central Wisconsin.* S. Weidman, 1907, 697 p.
- B 17.**
- ◆ *The Abandoned Shore-Lines of Eastern Wisconsin.* J.W. Goldthwait, 1907, 134 p.
- B 18.**
- ◆ *Rural Highways of Wisconsin.* W.O. Hotchkiss, 1906, 136 p.
- B 19.**
- ◆ *Zinc and Lead Deposits of the Upper Mississippi Valley.* H.F. Bain, 1907, 154 p.
- B 20.**
- ◆ *The Water Powers of Wisconsin* (first edition). L.S. Smith, 1908, 354 p.
- The Water Powers of Wisconsin* (second edition). L.S. Smith, 1908, 436 p. Reprint of first edition with 1980 supplement that provides flow data for Wisconsin rivers and streams since 1908.
- B 21.**
- ◆ *The Fossils and Stratigraphy of the Middle Devonian of Wisconsin.* H.F. Cleland, 1911, 222 p.
- B 22.**
- ◆ *The Inland Lakes of Wisconsin: The Dissolved Gases of the Water and Their Biological Significance.* E.A. Birge and C. Juday, 1911, 259 p.

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- B 23.**
Reconnaissance [sic] Soil Survey of Part of North Western Wisconsin (first edition). S. Weidman, E.B. Hall, and F.L. Musback, 1911, 102 p., with soil map (scale 1 inch = 3 miles).
- ◆ *Reconnaissance [sic] Soil Survey of South Part of North Western Wisconsin* (second edition). S. Weidman, E.B. Hall, and F.L. Musback, 1914, 102 p., with soil map (scale 1 inch= 3 miles).
- B 24.**
 - ◆ *Reconnaissance [sic] Soil Survey of Marinette County*. S. Weidman and P.O. Wood, 1911, 44 p., with soil map (scale 1 inch = 3 miles).
- B 25.**
 - ◆ *Sandstones of the Wisconsin Coast of Lake Superior*. F.T. Thwaites, 1912, 117 p.
- B 26.**
The Geography and Industries of Wisconsin. R.H. Whitbeck, 1913, 94 p.
- B 27.**
 - ◆ *The Inland Lakes of Wisconsin: The Hydrography and Morphometry of the Lakes*. C. Juday, 1914, 137 p.
- B 28.**
 - ◆ *Soil Survey of Waushara County, Wisconsin*. A.R. Whitson, W.J. Geib, G. Conrey, A.K. Kuhlman, and J.W. Nelson, 1913, 62 p., with soil map (scale 1 inch = 1 mile).
- B 29.**
 - ◆ *Soil Survey of Waukesha County, Wisconsin*. A.R. Whitson, W.J. Geib, A.H. Meyer, P.O. Wood, and G.B. Jones, 1914, 82 p., with soil map (scale 1:62,500).
- B 30.**
 - ◆ *Soil Survey of Iowa County, Wisconsin*. A.R. Whitson, W.J. Geib, T.J. Dunnewald, E. Truog, and C. Lounsbury, 1914, 61 p., with soil map (scale 1:63,360).
- B 31.**
Soil Survey of the Bayfield Area, Wisconsin. A.R. Whitson, W.J. Geib, L.R. Schoenmann, F.L. Musback, and G.B. Maynadier, 1914, 51 p., with soil map (scale 1:63,360).
- B 32.**
 - ◆ *Reconnaissance [sic] Soil Survey of North Part of North Western Wisconsin*. F.L. Musback, T.J. Dunnewald, C. Thompson, and O.J. Bergh, 1914, 92 p., with soil map (scale 1 inch = 3 miles). (One printing was incorrectly titled Bulletin XXXI.)

NOTE: Bulletins 28, 29, 30, 31, and 32 are available bound together. .
- B 33.**
The Polyporaceae of Wisconsin. J.J. Neuman, 1914, 206 p.
- B 34.**
Limestone Road Materials of Wisconsin. W.O. Hotchkiss and E. Steidtmann, 1914, 137 p.
- B 35.**
 - ◆ *The Underground and Surface Water Supplies of Wisconsin*. S. Weidman and A.R. Schultz, 1915, 664 p.
- B 36.**
 - ◆ *The Physical Geography of Wisconsin* (first edition). L. Martin, 1916, 549 p., with relief map (scale 1:1,000,000).
 - ◆ *The Physical Geography of Wisconsin* (second edition). L. Martin, 1932, 608 p., with map. Cloth.
 - The Physical Geography of Wisconsin* (third edition). L. Martin, 1965 (reprinted 1974 and 1982), 608 p. Paperback.
- B 37.**
Soil Survey of Fond du Lac County, Wisconsin. A.R. Whitson, W.J. Geib, L.R. Schoenmann, F.L. Musback [sic], G. Conrey, and A.E. Taylor, 1914, 85 p., with soil map (scale 1:63,360).
- B 38.**
Soil Survey of Juneau County, Wisconsin. A.R. Whitson, W.J. Geib, L.R. Schoenmann, C.A. LaClair, O.E. Baker, and E.B. Watson, 1914, 93 p., with soil map (scale 1:63,360).
- B 39.**
Soil Survey of Kewaunee County, Wisconsin. A.R. Whitson, W.J. Geib, E.J. Graul, and A.H. Meyer, 1914, 84 p., with soil map (scale 1:63,360).

- B 40.**
Soil Survey of La Crosse County, Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, and C. Lounsbury, 1914, 77 p., with soil map (scale 1:63,360).
- NOTE:** Bulletins 37, 38, 39, and 40 are available bound together.
- B 41.**
◆ *A Study of Methods of Mine Valuation and Assessment, with Special Reference to the Zinc Mines of Southwestern Wisconsin.* W.L. Uglow, 1914, 43 p.
- B 42.**
◆ *The Geography of the Fox-Winnebago Valley.* R.H. Whitbeck, 1915, 105 p.
- B 43.**
◆ *Special Report on the Reconnaissance [sic] Soil Survey of Vilas and Portions of Adjoining Counties, Wisconsin.* A.R. Whitson, T.J. Dunnewald, W.C. Boardman, C.B. Post, and A.R. Albert, 1915, 77 p., with maps.
- B 44.**
◆ *Mineral Land Classification, Showing Indications of Iron Formation in Parts of Ashland, Bayfield, Washburn, Sawyer, Price, Oneida, Forest, Rusk, Barron, and Chippewa Counties.* W.O. Hotchkiss, E.F. Bean, and O.W. Wheelwright, 1915, 378 p.
- B 45.**
◆ *The Peat Resources of Wisconsin.* F.W. Huels, 1915, 274 p.
- B 46.**
◆ *Mineral Lands of Part of Northern Wisconsin.* W.O. Hotchkiss, E.F. Bean, and H.R. Aldrich, 1929, 212 p.
- B 47.**
Reconnaissance [sic] Soil Survey of North Eastern Wisconsin. A.R. Whitson, W.J. Geib, C. Thompson, C.B. Post, A.L. Buser, L.R. Schoenmann, and A.E. Taylor, 1916, 87 p., with soil maps (scale 1 inch = 3 miles).
- B 48.**
Soil Survey of Jefferson County, Wisconsin. A.R. Whitson, W.J. Geib, O.J. Noer, and A.H. Mayer [sic], 1916, 78 p., with soil map (scale 1:62,500).
- B 49.**
Soil Survey of Columbia County, Wisconsin. A.R. Whitson, W.J. Geib, G.W. Conrey, and A.E. Taylor, 1916, 84 p., with soil map (scale 1:62,500).
- ◆ Out of print
- B 50.**
Reconnaissance [sic] Soil Survey of North Part of North Central Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, C.B. Post, W.C. Boardman, A.R. Albert, A.E. Taylor, L.R. Schoenmann, and C. Thompson, 1916, 80 p., with soil map (scale 1 inch = 3 miles).
- NOTE:** Bulletins 47, 48, 49, and 50 (WGNHS editions) are available bound together. .
- B 51.**
Never published.
- B 52A.**
Reconnaissance [sic] Soil Survey of South Part of North Central Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, C.B. Post, A.E. Taylor, J.B.R. Dickey, and C. Thompson, 1918, 108 p., with soil map (scale 1 inch = 3 miles). U.S. Department of Agriculture edition.
- B 52B.**
Soil Survey of Wood County, Wisconsin. A.R. Whitson, W.J. Geib, G. Conrey, W.C. Boardman, and C.B. Post, 1918, 86 p., with soil map (scale 1:63,360).
- Soil Survey of Wood County, Wisconsin.* W.J. Geib, G. Conrey, W.C. Boardman, and C.B. Post, 1917, 51 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.
- B 52C.**
Soil Survey of Portage County, Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, L.P. Hanson, and L.R. Schoenmann, 1918, 79 p., with soil map (scale 1:63,360).
- Soil Survey of Portage County, Wisconsin.* W.J. Geib, L.R. Schoenmann, and L.P. Hanson, 1917, 52 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.
- B 52D.**
◆ *Soil Survey of Door County, Wisconsin.* A.R. Whitson, W.J. Geib, H.V. Geib, and C. Thompson, 1919, 72 p., with soil map (scale 1:63,360).
- ◆ *Soil Survey of Door County, Wisconsin.* W.J. Geib, C. Thompson, and H.V. Geib, 1918, 44 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.
- NOTE:** Bulletins 52A, 52B, 52C, and 52D (WGNHS editions) are available bound together.

B 53A.

- ◆ *Soil Survey of Dane County, Wisconsin.* A.R. Whitson, W.J. Geib, G.W. Conrey, and A.E. Taylor, 1917, 86 p., with soil map (scale 1:62,500).

B 53B.

- ◆ *Soil Survey of Rock County, Wisconsin.* A.R. Whitson, W.J. Geib, G.W. Conrey, and A.E. Taylor, 1917, 86 p., with soil map (scale 1:62,500).

Soil Survey of Rock County, Wisconsin. W.J. Geib, A.E. Taylor, G. Conrey, and W.M. Gibbs, 1920, 51 p., with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 53C.

Soil Survey of Green County. A.R. Whitson, T.J. Dunnewald, M.J. Edwards, W. Vosquil, K. Whitson, A.C. Anderson, and F.J. O'Connell, 1930, 82 p., with soil map (scale 1:62,500).

B 54A.

Soil Survey of Buffalo County, Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, O.J. Noer, C. Lounsbury, and L. Cantrell, 1917, 76 p., with soil map (scale 1:63,360).

B 54B.

Soil Survey of Jackson County, Wisconsin. A.R. Whitson, W.J. Geib, T.J. Dunnewald, A.L. Goodman, G.W. Musgrave, and C.B. Clevenger, 1923, 85 p., with soil map (scale 1:63,360).

Soil Survey of Jackson County, Wisconsin. W.J. Geib, A.L. Goodman, G.W. Musgrave, C.B. Clevenger, and T.J. Dunnewald, 1922, 44 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 54C.

Soil Survey of Waupaca County, Wisconsin. A.R. Whitson, W.J. Geib, M.O. Tosterud, and C. Lounsbury, 1921, 84 p., with soil map (scale 1:63,360).

Soil Survey of Waupaca County, Wisconsin. W.J. Geib, C. Lounsbury, and M.O. Tosterud, 1920, 51 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 54D.

Soil Survey of Outagamie County, Wisconsin. A.R. Whitson, W.J. Geib, M.O. Tosterud, M.C. Ford, E.J. Graul, and H.V. Geib, 1921, 78 p., with soil map (scale 1 inch = 1 mile).

Soil Survey of Outagamie County, Wisconsin. W.J. Geib, H.V. Geib, M.C. Ford, and M.O. Tosterud, 1921, 42 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 55.

- ◆ *The Soils of Northern Wisconsin.* A.R. Whitson, T.J. Dunnewald, and C. Thompson, 1919, 45 p. Agricultural Experiment Station of the University of Wisconsin edition.

Soil Survey of Northern Wisconsin. A.R. Whitson, T.J. Dunnewald, and C. Thompson, 1921, 45 p., with soil map (scale 1 inch = 6 miles). Hardbound.

The Soils of Northern Wisconsin. A.R. Whitson, T.J. Dunnewald, and C. Thompson, 1922, 50 p. Agricultural Experiment Station of the University of Wisconsin edition. .

B 56A.

- ◆ *Soil Survey of Milwaukee County, Wisconsin.* A.R. Whitson, W.J. Geib, and T.J. Dunnewald, 1919, 63 p., with soil map (scale 1:62,500).

- ◆ *Soil Survey of Milwaukee County, Wisconsin.* W.J. Geib and T.J. Dunnewald, 1918, 32 p., with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 56B.

Soil Survey of Racine and Kenosha Counties, Wisconsin. A.R. Whitson, W.J. Geib, H.W. Stewart, W.M. Gibbs, C.B. Clevenger, and A.E. Taylor, 1923, 94 p., with soil map (scale 1:63,360).

Soil Survey of Kenosha and Racine Counties, Wisconsin. W.J. Geib, A.E. Taylor, J.E. Kubier, H.W. Stewart, and W.M. Gibbs, 1922, 58 p., with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 56C.

Soil Survey of Walworth County, Wisconsin. A.R. Whitson, W.J. Geib, W.H. Pierre, C.B. Clevenger, L.R. Schoenmann, and W.B. Cobb, 1924, 98 p., with soil map (scale 1:63,360).

Soil Survey of Walworth County, Wisconsin. W.J. Geib, L.R. Schoenmann, W.B. Cobb, V.C. Leaper, and W.H. Pierre, 1924, p. 1381-1430, with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

NOTE: Bulletins 56A, 56B, and 56C (WGNHS editions) are available bound together.

B 57.

- ◆ *Phytoplankton of the Inland Lakes of Wisconsin. Part I: Myxophyceae, Phaeophyceae, Heterokontaeae, and Chlorophyceae exclusive of the Desmidiaceae.* G.M. Smith, 1920, 243 p.
- ◆ *Phytoplankton of the Inland Lakes of Wisconsin. Part II: Desmidiaceae.* G.M. Smith, 1924, 277 p.

B 58.

The Geography and Economic Development of Southeastern Wisconsin. R.H. Whitbeck, 1921, 243 p.

B 59A.

- ◆ *Soil Survey of Sheboygan County.* A.R. Whitson, W.J. Geib, A.H. Meyer, W.H. Pierre, G.D. Scarseth, and A.C. Anderson, 1931, 77 p., with soil map (scale 1:63,360).

Soil Survey of Sheboygan County, Wisconsin. W.J. Geib, A.C. Anderson, W.H. Pierre, A.H. Meyer, G.D. Scarseth, and R.P. Bartholomew, 1929, 45 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 59B.

Soil Survey of Manitowoc County, Wisconsin. A.C. Anderson, W.J. Geib, M.J. Edwards, H.H. Hull, and M. Whitson, 1926, 28 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 59C.

Soil Survey of Washington and Ozaukee Counties, Wisconsin. A.R. Whitson, W.J. Geib, W.H. Pierre, V.C. Leaper, O. Magistad, A.C. Anderson, and J. Kubiery, 1926, 93 p., with soil map (scale 1:62,500).

- ◆ *Soil Survey of Washington and Ozaukee Counties, Wisconsin.* W.J. Geib, A.C. Anderson, A.H. Meyer, J. Kubiery, C.B. Clevenger, W.H. Pierre, V.C. Leaper, and O. Magistad, 1926, p. 1529-1574, with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 60A.

- ◆ *Soil Survey of Pierce County.* A.R. Whitson, F.L. Musbach, W.J. Geib, H.R. Lathrop, W.H. Pierre, M.J. Edwards, E.H. Templin, and E.H. Bailey, 1930, 71 p., with soil map (scale 1:63,360).

Soil Survey of Pierce County, Wisconsin. W.J. Geib, M.J. Edwards, E.H. Templin, and H.R. Lathrop, 1930, p. 1471-1504, with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 60B.

Soil Survey of Monroe County. A.R. Whitson, W.J. Geib, H. Chapman, R. Bartholomew, O. Stockstad, A.C. Anderson, M.J. Edwards, and E.H. Bailey, 1931, 93 p., with soil map (scale 1:62,500).

- ◆ *Soil Survey of Monroe County, Wisconsin.* W.J. Geib, A.C. Anderson, M.J. Edwards, E.H. Bailey, H. Chapman, R. Bartholomew, and O.L. Stockstad, 1929, p. 1315-1373, with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 60C.

- ◆ *Soil Survey of Sauk County, Wisconsin.* W.J. Geib, M.J. Edwards, E.H. Bailey, A.C. Anderson, T.J. Dunnewald, J. Fudge, O.L. Stockstad, and H. Chapman, 1925, 32 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 60D.

Soil Survey of Trempealeau County, Wisconsin. M.J. Edwards, E.H. Bailey, W.J. Geib, J.F. Fudge, B.S. Butman, and H. Cook, 1927, 50 p., with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 60E.

Soil Survey of Vernon County, Wisconsin. M.J. Edwards, A.C. Anderson, A.H. Meyer, J.A. Chucka, and D.E. Wilcox, 1928, 43 p., with soil map (scale 1:62,500). U.S. Department of Agriculture edition.

B 61A.

Soil Survey of Calumet County, Wisconsin. W.J. Geib, A.H. Meyer, J.A. Chucka, and H.H. Hull, 1925, 28 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 61B.

Soil Survey of Winnebago County, Wisconsin. A.C. Anderson, W.J. Geib, H.H. Hull, and M. Whitson, 1927, 34 p., with soil map (scale 1:63,360). U.S. Department of Agriculture edition.

B 61C.

- ◆ *Soil Survey of Green Lake County.* A.R. Whitson, W.J. Geib, H.D. Chapman, O. Magistad, F.J. O'Connell, T.J. Dunnewald, K. Whitson, A.C. Anderson, E.H. Bailey, and M.J. Edwards, 1929, 79 p., with soil map (scale 1:62,500).

Soil Survey of Green Lake County, Wisconsin. W.J. Geib, A.C. Anderson, E.H. Bailey, M.J. Edwards, H. Chapman, O. Magistad, F.J. O'Connell, T.J. Dun-

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- B 67.**
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- B 68.**
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 ♦ *Molding Sands of Wisconsin.* D.W. Trainer, Jr., 1928, 103 p.
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- B 79.**
◆ *Introduction to the Soils of Wisconsin.* F.D. Hole and G.B. Lee, 1955, 48 p. (See also B 88.)
- B 80.**
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- B 89.**
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- B 90.**
‡ *Pleistocene Geology of Taylor County, Wisconsin.*
⊙ J.W. Attig, 1994, 25 p., with folded geologic map and cross sections (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 19, and County Map Series, Geologic Maps, item 18.)
- B 91.**
‡ *Quaternary Geology of Ozaukee and Washington Counties, Wisconsin.* D.M. Mickelson and K.M. Syverson, 1997, 56 p., with folded geologic map and cross sections (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 21.)
- B 92.**
‡ *Pleistocene Geology of Polk County, Wisconsin.* M.D. Johnson, 2000, 70 p., with folded geologic map and cross sections (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 23.)
- B 93.**
‡ *Pleistocene Geology of Lincoln County, Wisconsin.* Nelson R. Ham and John W. Attig, 1997, 31 p., with folded geologic map (scale: 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 9, and County Map Series, Geologic Maps, item 19.)
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Director's Report, Fiscal Years 1985-88, Wisconsin Geological and Natural History Survey. 1989, 86 p.

DR 2.

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GW 3.

- ♦ *The Geology of the Eastern Mellen Intrusive Complex, Wisconsin*, by D.E. Tabet and J.R. Mangham; *Surface Microtextures of Freshwater Heavy Mineral Grains*, by R.D. Stieglitz and B. Rothwell; *Copper, Lead, Zinc, Nickel, and Silver in Lakes of the Clam Lake and Monico Regions*, by D.E. Pride, 1978, 51 p.

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- GW 5.**
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- GW 6.**
Water-Level Fluctuations Due to Earth Tides at Peshtigo, Wisconsin, by D.A. Hackbarth; *A Summary of the Duval Massive Sulfide Deposit, Marinette County, Wisconsin*, by V.F. Hollister and M.L. Cummings; *Some Aspects of the Petrologic and Tectonic History of the Precambrian Rocks of Waterloo, Wisconsin*, by C.A. Geiger, C.V. Guidotti, and W.L. Petro, 1982, 40 p.
- GW 7.**
Late Pleistocene History of Southeastern Wisconsin, edited by D.M. Mickelson and Lee Clayton with contributions from L.R. Follmer, A.K. Hansel, N.P. Lasca, E.A. Need, C.S. Peter, A.F. Schneider, and S.D. Stanford, 1983, 111 p. Also available online at <www.uwex.edu/wgnhs/gw7.htm>.
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- GW 9.**
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- GW 13.**
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GW 16.

Carbonate Diagenesis and Dolomitization of the Lower Ordovician Prairie Du Chien Group, by George L. Smith and J. Antonio Simo; *Complex Brecciation History Associated with Evaporite and Carbonate Dissolution in the Lower Ordovician Oneota Formation (Prairie Du Chien Group) near Spring Green, Wisconsin*, by George L. Smith; *Authigenic Silica Fabrics Associated with Cambro-Ordovician Unconformities in the Upper Midwest*, by George L. Smith, Robert H. Dott, Jr., and Charles W. Byers; *Proposed Reference Sections and Correlation of Upper Silurian and Devonian Strata, Eastern Wisconsin*, by Charles W. Rovey II; *Gravity Signature of the Waukesha Fault, Southeastern Wisconsin*, by Keith A. Sverdrup, William F. Kean, Sharon Herb, Susan A. Brukardt, and Ronald J. Friedel; *Radon Emanation from Soil of Kenosha, Racine and Waukesha Counties, Southeastern Wisconsin*, by Nancy S. Kochis and Steven W. Leavitt, 1996, 62 p.

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GW 17. (printed version);

<wisconsin-geologicalsurvey.org/geosci17.htm>
Conodonts and the Cambrian–Ordovician Boundary in Wisconsin, by Brian P. Parsons and David L. Clark; *Paleoecology and Sedimentology of the Prasopora Zonule in the Dunleith Formation (Upper Ordovician), Upper Mississippi Valley*, by H.C. Sanders, D.H. Geary, and C.W. Byers; *Sedimentology and Sequence Stratigraphy of a Lower Ordovician Mixed Siliciclastic–Carbonate System, Shakopee Formation, Fox River Valley of East-Central Wisconsin*, by Christopher L. Johnson and J.A. Simo; *Trace-Element Signatures and Tectonic Affinities of Proterozoic A-Type Granites and Rhyolites in Central Wisconsin*, by Jennifer M. Wenner and Mindy A. Lloyd; *Coupled Modeling of Gravity and Aeromagnetic Data to Estimate Subsurface Basement Topography in Southeastern Wisconsin*, by John D. Skalbeck, James N. Couch, Ryan S. Helgesen, and Daniel S. Swosinski.

GW 18. (printed version);

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(downloadable version)
History of Wisconsin Geologists, Allan F. Schneider, ed. *Increase Allen Lapham: Wisconsin's First Geologist*, by Paul G. Hayes; *The Reefs That Made Milwaukee Famous*, by Donald G. Mikulic; *Chamberlin, Salisbury, and Collie: A Tale of Three Beloit*

College Geologists, by Allan F. Schneider; *Wisconsin Agricultural Geologists: Ahead of Their Time*, by John P. Tandarich; *The Remarkable Legacy of the Wisconsin School of Precambrian Geology*, by Robert H. Dott, Jr.; *Becoming a Geologist: Florence Bascom in Wisconsin, 1874–1887*, by Lois B. Arnold; *Sequence Stratigraphy at the Turn of the Century: E.O. Ulrich's Ozarkian System in Wisconsin*, by Charles W. Byers; *Frederick William Sardeson*, by Malcolm P. Weiss; *Fredrik Turville Thwaites*, by Lee Clayton and John W. Attig; *Gilbert O. Raasch, Student of Wisconsin's Ancient Past*, by Donald G. Mikulic and Joanne Kluessendorf, 2001, 93 p.

GW 19. Online only:

<wisconsin-geologicalsurvey.org/geosci19.htm>
Volume 19, part 1: *Deposition of the Cambrian Eau Claire Formation, Wisconsin: Hydrostratigraphic implications of fine-grained cratonic sandstones*, by Wasinee Aswasereelert, J.A. (Toni) Simo, and David L. LePain, 2008, p. 1–22.

INFORMATION CIRCULARS

Information Circulars present information similar to that in Bulletins; however, Circulars are not as comprehensive in scope or treatment as Bulletins.

IC 1.

◆ *Some Effects of Precipitation on Ground Water in Wisconsin*. W.J. Drescher, 1955, 17 p.

IC 2.

◆ *Uranium Prospecting in Wisconsin*. G.F. Hanson, 1956, 6 p.

IC 3.

◆ *Ground Water in Wisconsin*. W.J. Drescher, 1956, 37 p.

IC 4.

◆ *Water Levels in Observation Wells in Wisconsin through 1957*. R.E. Audini, C.F. Berkstresser, Jr., and D.B. Knowles, 1959, 192 p. (See also IC 43.)

IC 5.

A Preliminary Study of the Distribution of Saline Water in the Bedrock Aquifers of Eastern Wisconsin. R.W. Ryling, 1961, 23 p.

IC 6.

Cambro-Ordovician Stratigraphy of Southwest Wisconsin. M.E. Ostrom, 1965, 57 p.

- IC 7.**
Cambrian Stratigraphy in Western Wisconsin.
M.E. Ostrom, 1966, 79 p.
- IC 8.**
Paleozoic Stratigraphic Nomenclature for Wisconsin. M.E. Ostrom, 1967. 1 sheet.
- IC 9.**
Trends in Ground-Water Levels in Wisconsin through 1966. R.W. Devaul, 1967, 109 p. (See also IC 43.)
- IC 10.**
- ◆ *Geochemical Prospecting by Spring Sampling in the Southwest Wisconsin Zinc Mining Area.* J. De Geoffroy, 1969, 28 p., with surface-water-quality map (scale 1:125,000).
- IC 11.**
- ◆ *Field Trip Guidebook for Cambrian-Ordovician Geology of Western Wisconsin.* M.E. Ostrom, R.A. Davis, Jr., and L.M. Cline, 1970, 131 p. With special papers: *Lithologic Cycles in Lower Paleozoic Rocks of Western Wisconsin*, M.E. Ostrom; and *Lithostratigraphy of the Prairie du Chien Group*, R.A. Davis, Jr.
- IC 12.**
- ◆ *Directory of Wisconsin Mineral Producers, 1968.* M.E. Ostrom, 1970, 67 p. (See also IC 42.)
- IC 13.**
- ◆ *Glacial Geology of Two Creeks Forest Bed, Valderan Type Locality and Northern Kettle Moraine State Forest*, R.F. Black, 1970, 40 p.
- IC 14. Various prices**
- ◆ *Geology of the Baraboo District, Wisconsin:*
 - ⊙ *A Description and Field Guide Incorporating Structural Analysis of the Precambrian Rocks and Sedimentologic Studies of the Paleozoic Strata.* I.W.D. Dalziel and R.H. Dott, Jr., 1970, 164 p., with geologic maps (scale 1:62,500). With summaries: *Glacial Geology*, R.F. Black; and *Plant Ecology of the Baraboo Hills*, J.H. Zimmerman.
- Report and plates are available on CD-ROM in Adobe Acrobat PDF format for \$25. Large-format photocopies of the five black and white plates (general structure map of Precambrian rocks of the Baraboo syncline; minor structures map of Precambrian rocks of the Baraboo syncline; structural data for Precambrian rocks; conglomerate-size data for lower Paleozoic rocks of the Baraboo region; and cross-bedding orientation data for the lower Paleozoic strata of the Baraboo region) are \$10 each; color plots of the geologic map (\$20) and cross sections (\$15) may also be purchased. Plates may be purchased individually.
- IC 15.**
Pleistocene Geology of Southern Wisconsin. Field trip guide with special papers by R.F. Black, N.K. Bleuer, F.D. Hole, N.P. Lasca, and L.J. Maher, Jr., 1970, 175 p.
- IC 16.**
- ◆ *Guidebook to the Upper Mississippi Valley Base Metal District* (first edition). A.V. Heyl, W.A. Broughton, and W.S. West, 1970, 49 p.
 - ◆ *Guidebook to the Upper Mississippi Valley Base-Metal District* (second edition). A.V. Heyl, W.A. Broughton, and W.S. West, 1973, 50 p. Prepared in limited quantities for the 19th Annual Institute on Lake Superior Geology.
 - ◆ *Geology of the Upper Mississippi Valley Base-Metal District* (third edition). A.V. Heyl, W.A. Broughton, and W.S. West, 1978, 45 p. (See Field Trip Guide Book 1 for a companion road log.)
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- ◆ *Field Trip Guidebook to the Hydrogeology of the Rock-Fox River Basin of Southeastern Wisconsin.* C.L.R. Holt, Jr., R.D. Cotter, J.H. Green, and P.G. Olcott, 1970, 47 p.
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- IC 20.**
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- IC 22.
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- IC 23.
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- IC 24.
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- IC 28.
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- IC 29.
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- IC 30.
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- IC 31.
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- IC 32.
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Ground-Water Resources and Geology of Dodge County, Wisconsin. R.W. Devaul, C.A. Harr, and J.J. Schiller, 1983, 34 p., with water-table map (scale 1:125,000).
- IC 45.**
‡ *Precambrian Geology of Marathon County, Wisconsin.* G.L. LaBerge and P.E. Myers, 1983, 88 p., with folded maps of aeromagnetism and bedrock geology (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 3.)
- IC 46.**
‡ *Pleistocene Geology of the Superior Region, Wisconsin.* Lee Clayton, 1984, 40 p., with folded map of Pleistocene geology (scale 1:250,000). (Please note: Report is photocopy.) (See also "WGNHS Maps," Regional Map Series, item 3.)
- IC 47.**
A Subsurface Study of the St. Peter Sandstone in Southern and Eastern Wisconsin. H. Mai and R.H. Dott, Jr., 1985, 26 p., with maps (scale 1:750,000).
- IC 48.**
‡ *Pleistocene Geology of Brown County, Wisconsin.* E.A. Need, 1985, 19 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 2.)
- IC 49.**
Stage Fluctuations of Wisconsin Lakes. L.B. House, 1985, 84 p.
- IC 50.**
⊙ *Pleistocene Geology of Vilas County, Wisconsin.* John W. Attig, 1985, 32 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 2.)
- IC 51.**
‡ *Pleistocene Geology of Florence County, Wisconsin.* Lee Clayton, 1986, 13 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 3, and County Map Series, Geologic Maps, item 6.)
- IC 52.**
‡ *Glacial and Related Deposits of Langlade County, Wisconsin.* D.M. Mickelson, 1986, 30 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 4, and County Map Series, Geologic Maps, item 7.)
- IC 53.**
Bedrock Geology of Portage County, Wisconsin. J.K. Greenberg and B.A. Brown, 1986. (No accompanying report; unfolded map only, scale 1:100,000.)
- IC 54.**
Bedrock Geology of Wood County, Wisconsin. B.A. Brown and J.K. Greenberg, 1986. (No accompanying report; unfolded map only, scale 1:100,000.)
- IC 55.**
Pleistocene Geology of Barron County, Wisconsin. Mark D. Johnson, 1986, 42 p., with map of Pleistocene geology (scale 1:100,000).
- IC 56.**
‡ *Pleistocene Geology of Portage County, Wisconsin.* Lee Clayton, 1986, 19 p., with folded map of Pleistocene geology and cross sections (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 11.)
- IC 57.**
Hydrogeology and Ground-Water Use and Quality, Brown County, Wisconsin. J.T. Krohelski, U.S. Geological Survey, with a section on bedrock geology by B.A. Brown, 1986, 42 p., with maps of potentiometric surface of upper aquifer and finite-difference grid and observation well locations (scale 1:100,000).
- IC 58.**
Water Resources of Langlade County, Wisconsin. W.G. Batten, U.S. Geological Survey, 1987, 28 p., with water-table map (scale 1:100,000).
- IC 59.**
‡ *Pleistocene Geology of Adams County, Wisconsin.* Lee Clayton, 1987, 14 p., with folded map of Pleistocene geology and cross sections (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 12.)

- ◆ Out of print
‡ Unfolded map available separately
⊙ CD-ROM available separately

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- IC 60.**
Hydrogeology of Wood County, Wisconsin. W.G. Batten, U.S. Geological Survey, 1988, 31 p., with maps showing altitude of water table and location of groundwater quality sampling sites, landfills, and irrigated fields (scale 1:100,000).
- IC 61.**
‡ *Pleistocene Geology of Forest County, Wisconsin.*
⊙ W.W. Simpkins, M.C. McCartney, and D.M. Mickelson, 1987, 22 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 5, and County Map Series, Geologic Maps, item 13.)
- IC 62.**
Pleistocene Stratigraphic Units of Wisconsin, 1984-87. J.W. Attig, Lee Clayton, and D.M. Mickelson, 1988, 61 p.
- IC 63.**
Analysis of Water-Level Fluctuations in Wisconsin Wells. G.L. Patterson, U.S. Geological Survey, and Alexander Zaporozec, 1987, 38 p.
- IC 64.**
Hydrogeology of the Wisconsin River Valley in Marathon County, Wisconsin. Eloise Kendy and K.R. Bradbury, 1988, 78 p., with folded maps of the elevation of the base of the Wausau aquifer, elevation of the water table, and soil attenuation potential (scale 1:100,000).
- IC 65.**
‡ *Pleistocene Geology of Marathon County, Wisconsin.* John W. Attig and Maureen A. Muldoon, 1989, 27 p., with folded map of Pleistocene geology (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 14.)
- IC 66.**
‡ *Geology of Juneau County, Wisconsin.* Lee Clayton, 1989, 16 p., with folded geologic map and cross sections (scale 1:100,000). (See also "WGNHS Maps," County Map Series, Geologic Maps, item 15.)
- IC 67.**
‡ *Geology of Sauk County, Wisconsin.* Lee Clayton
⊙ and John W. Attig, 1990, 68 p., with folded geologic map and cross sections (scale 1:100,000). (See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 6, and County Map Series, Geologic Maps, item 16.)
- IC 68.**
‡ *Pleistocene Geology of Wood County, Wisconsin.* Lee Clayton, 1991, 18 p., with folded map of Pleistocene geology and geologic cross sections. (See also "WGNHS Maps," County Map Series, Geologic Maps, item 17.)
- IC 69.**
Wisconsin Lake Plant Database. Stanley A. Nichols and Ronald Martin, 1990, 27 p.
- IC 70.**
A Computer Model for Calculation of Groundwater Paths and Travel Times in Transient Three-Dimensional Flows. C. Zheng, K.R. Bradbury, and M.P. Anderson, 1992, 21 p.
- IC 71.**
Field Investigations and Numerical Studies of Groundwater Recharge Through Unsaturated Sand: A Methodology Applied to Central Wisconsin. M.W. Stoertz, M.P. Anderson, and K.R. Bradbury, 1991, 52 p.
- IC 72.**
Groundwater Flow Systems and Recharge in the Buena Vista Basin, Portage and Wood Counties, Wisconsin. K.R. Bradbury, J.M. Faustini, and M.W. Stoertz, 1992, 31 p.
- IC 73.**
Attributes of Wisconsin Lake Plants. Stanley A. Nichols and James G. Vennie, 1991, 19 p.
- IC 74.**
Variability of Hydraulic Conductivity in Uniform Sandy Till, Dane County, Wisconsin. T.W. Rayne, K.R. Bradbury, and D.M. Mickelson, 1996, 19 p.
- IC 75.**
Regional Groundwater Flow System Between the Wolf and Fox Rivers Near Green Bay, Wisconsin. W.G. Batten and K.R. Bradbury, 1992, 28 p.

MISCELLANEOUS PAPERS

These publications do not fit the criteria for other Survey publication series.

MP 79-1.

- ◆ *Stratigraphic Framework of the Wisconsin Middle Precambrian.* G.L. LaBerge and M.G. Mudrey, Jr., 1979, 22 p.

MP 79-2.

- ◆ *The Massive Sulfide Occurrences in Wisconsin.* M.G. Mudrey, Jr., 1979, 20 p.

MP 79-3.

Water Use Possibilities in Abandoned Iron Mines. B.L. Cutright, 1979, 13 p.

MP 80-1.

- ◆ *Data for Selected Wells in Northern Wisconsin.* A. Zaporozec, 1980, 135 p. Companion volume to Geoscience Wisconsin 5.

MP 80-2.

- ◆ *Some Technical Considerations Regarding Uranium Exploration Safety Issues.* T.J. Evans, 1980, 16 p.

MP 81-1.

Irrigable Lands Inventory—Phase I Groundwater and Related Information. I.D. Lippelt and R.G. Hennings, 1981.

This paper contains hydrogeologic information for the Golden Sands Resource Conservation and Development Area in central Wisconsin. The set of maps includes water-table elevation maps for the following counties: Adams, Jackson, Juneau, Marathon, Marquette, Monroe, Portage, Waupaca, Waushara, and Wood (scale 1:126,720). It also includes a regional aquifer potential map (scale 1:500,000), 10 page-size aquifer-potential maps, and a 13-page report.

MP 83-1.

Wisconsin Gravity Base Station Network. C. Patrick Ervin, 1983, 43 p.

MP 83-2.

Molybdenite in Wisconsin. J.K. Greenberg, 1983, 36 p.

MP 83-3.

Potential of a Wisconsin Clay for Binding Taconite Pellets. R. DasGupta, R.W. Heins, M.E. Ostrom, and T.D. Tiemann, 1983, 35 p.

MP 83-4.

- ◆ *Lower Proterozoic Volcanic Rocks and Their Setting in the Southern Lake Superior District.* J.K. Greenberg and B.A. Brown, p. 67-84. Reprinted from Geological Society of America Memoir 160.

MP 83-5.

Fracture-Trace Analysis for Water-Well Site Locations in Precambrian Igneous and Metamorphic Rock in Central Wisconsin. B.J. Socha, 1983, 37 p.

MP 84-1.

Pleistocene Stratigraphic Units of Wisconsin. D.M. Mickelson, L. Clayton, R.W. Baker, W.N. Mode, and A.F. Schneider, 1984, 15 p.

MP 84-2.

Local Ground-Water Protection: A Sampler of Approaches Used by Local Governments. J. Potter, 1984, 17 p.

MP 85-1.

Impact on Groundwater from Closure of an Underground Zinc-Lead Mine in Southwest Wisconsin. T.J. Evans and M.J. Cieslik, 1985, 16 p.

MP 86-1.

Ground-water Quality of Barron County, Wisconsin, Preliminary Report. A. Zaporozec, 1986, 35 p.

MP 87-1.

Groundwater Quality Investigation of Dunn County, Wisconsin. Compiled by I.D. Lippelt, 1987, 7 plates. Scale 1:100,000. Plate 1: Sample Numbers. Plate 2: Nitrate-N in mg/L. Plate 3: Chloride in mg/L. Plate 4: Laboratory Measurement of pH. Plate 5: Total Hardness in mg/L. Plate 6: Total Hardness/Conductivity. Plate 7: Ferrous iron in mg/L. (Large-format photocopy.)

MP 87-2

Groundwater Quality Investigation of Chippewa Wisconsin. Compiled by I.D. Lippelt, 1987, 7 plates. Scale 1:100,000. Plate 1: Sample Numbers. Plate 2: Nitrate-N in mg/L. Plate 3: Chloride in mg/L. Plate 4: Laboratory Measurement of pH. Plate 5: Total Hardness in mg/L. Plate 6: Total Hardness/Conductivity. Plate 7: Ferrous iron in mg/L. (Large-format photocopy.)

MP 89-1.

Water Resources of Vilas County, Wisconsin. G.L. Patterson, U.S. Geological Survey, 1989, 46 p., with water-table map (scale 1:100,000).

MP 91-2.

Seismic Reflection Profiling and Tectonic Evolution of the Midcontinent Rift in Lake Superior.

L.D. McGinnis and M.G. Mudrey, Jr., 2003. 1 CD-ROM, containing report and images of 15 plates.

MP 97-1.

Terra-Patrick #7-22 Deep Hydrocarbon Test, Bayfield County, Wisconsin: Investigations and Final Report.

A.B. Dickas and M.G. Mudrey, Jr., eds., 1999, 117 p.

SPECIAL REPORTS

Special Reports deal with subjects of topical interest. Their scope and treatment vary with the subject matter.

SR 1.

Preliminary Report on the Irrigation Potential of Dunn County, Wisconsin. P.G. Olcott, F.D. Hole, and G.F. Hanson, 1967, 17 p.

SR 2.

Bibliography and Index of Wisconsin Ground Water, 1851-1972. A. Zaporozec, 1974, 100 p. (See also Bibliographies and Indexes 14 and 15.)

SR 3.

Mining on Your Land? D. Barrows, M.E. Ostrom, and J. Preston, 1975, 10 p.

SR 4.

Ground-Water Hydrology and Geology Near the July 1974 Phenol Spill at Lake Beulah, Walworth County, Wisconsin. R.G. Borman, 1975, 13 p.

SR 5.

Shoreline Erosion in Southeastern Wisconsin. D.W. Hadley, 1976, 33 p.

SR 6.

Zoning and Financial Incentives for Reservation of Mineral Lands in Wisconsin. D. Barrows, K. Erickson, Y. Holy, M.E. Ostrom, J. Strasma, and B. Webendorfer, 1976, 151 p.

SR 7.

- ◆ *Evaluation of Siting Criteria for Low-Level Radioactive Waste Facility.* S. Brouwer and J. Yelderman, 1981, 270 p.

SR 8.

Groundwater Protection Principles and Alternatives for Rock County, Wisconsin.

Edited by A. Zaporozec, 1985, 73 p., with maps of soil and subsurface potential for attenuating pollutants and priority potential problem areas (scale 1:100,000).

SR 9.

A Guide to Groundwater Quality Planning and Management for Local Governments.

S.M. Born, D.A. Yanggen, and A. Zaporozec, 1987, 91 p.

SR 10.

Wellhead-Protection Districts in Wisconsin: An Analysis and Test Applications.

S.M. Born, D.A. Yanggen, A.R. Czecholinski, R.J. Tierney, and R.G. Hennings, 1988, 75 p.

SR 11.

Groundwater Protection Through Local Land-Use Controls.

D.A. Yanggen and Bruce Webendorfer, 1991, 48 p.

SR 12.

Groundwater Quality Regulation: Existing Governmental Authority and Recommended Roles.

Douglas Yanggen and Leslie L. Amrhein. Reprinted from *Columbia Journal of Environmental Law*, vol. 14, no. 1, 1989, 109 p.

SR 13.

- ◆ *An Overview of Metallic Mineral Regulation in Wisconsin.* Thomas J. Evans, 1991, 130 p.
- ◆ *An Overview of Metallic Mineral Regulation in Wisconsin, revised edition.* Thomas J. Evans, 1996, 130 p.
- ◆ *An Overview of Metallic Mineral Regulation in Wisconsin, third edition.* Thomas J. Evans, 2004, 139 p.

WELL RECORDS

WGNHS maintains two major sets of well data: Geologic Logs and Well Constructor's Reports. For detailed information about these records, please request a copy of the WGNHS general information sheet for well records ().

Geologic Logs

WGNHS staff members study samples of drill cuttings provided by well drillers who drill in Wisconsin and prepare detailed logs that describe the geologic formations penetrated by drilling. Staff have constructed approximately 7,100 Geologic Logs from cuttings from Wisconsin high-capacity, municipal, industrial, school, state, and federal wells.

Geologic Logs may be examined at the Survey offices by appointment. Single page-sized county index maps of these logs are available upon request; for a complete set of index maps (72 counties), the cost is \$20.00. Copies of the Geologic Logs may be purchased for \$1.00 plus labor each; there is a minimum cost of \$9.00 for mail orders (\$5.00 minimum for photocopies plus \$4.00 minimum for postage and handling). Please allow up to two weeks for processing large orders.

Geophysical information, such as gamma-ray, resistivity, and spontaneous potential (SP) data, is available for about five percent of the Geologic Logs. Geophysical logs may be examined at the Survey offices or ordered for \$2.00 per log. Please allow several days for processing orders. For a list of available geophysical logs, please order Wisconsin Open-File Report 80-3, List of WGNHS Geophysical Logs (cost, \$1.90).

Drill cuttings may be examined at the Survey offices by appointment only. Several weeks notice is usually required unless the samples were recently received by the Survey.

Well Constructor's Reports (WCRs)

Well Constructor's Reports (also called Well Construction Reports) are one- or two-page reports submitted to the Wisconsin Department of Natural Resources (DNR) by well drillers upon completion of a well. WGNHS receives these reports from the DNR within several years of their submission to DNR. Approximately 400,000 Well Constructor's Reports are on file at WGNHS.

All records are filed by county, township, range, and section. The cost for paper photocopies is \$0.10 per page plus an hourly charge for labor (which includes looking up reports, photocopying, and refiling). Large, continuous areas with many WCRs average \$0.40 per page total cost; small, discontinuous groups with few WCRs may cost more. Minimum cost is \$9.00 for mail orders (\$5.00 minimum for photocopies plus \$4.00 minimum for postage and handling). No returns are accepted. Microfilm of Well Constructor's Reports may be examined at the Survey offices by appointment only.

For more than 20 years, the Survey has sold paper copies of WCRs and will continue to offer this service. We are now selling WCRs on CD-ROM. The CD-ROMs contain scanned images of the currently available original paper copies, most dating from 1936 through 1989, which number approximately 350,000. Many customers will find that purchasing the CDs will save them the time and expense of having WCRs searched for and photocopied by Survey staff. Reports are available on CD by county; the complete collection for the state can be purchased at a significant savings. Pricing varies by the number of CDs purchased. Please see the WCR order form (bound at end of this publication) for pricing details.

The CDs contain scanned images of the WCRs in tag image file format (TIFF); the information is **not** in database form. However, the basic location information (county, township, range, section, and 1/4, 1/4, 1/4 section) has been entered into a simple database, included on the CD, that enables users to search for WCRs on each CD by location.

The CDs do not contain software to view the images or to use the database; users will need to supply their own viewing and database/spreadsheet software. **Because the CDs are not returnable**, we have developed a sample set for potential users to ensure that they are able to use the information. It is available for download on our web site, <wisconsingeologicalsurvey.org/wcrs.htm>. The zipped test file includes 18 WCR images from Grant County, Wisconsin, their accompanying database, and a file that explains the database structure.

WGNHS EDUCATIONAL MATERIALS

EDUCATIONAL SERIES

This series contains publications of a nontechnical nature.

ES 1.

Stones Used in State Capitol. E.F. Bean and C.A. Halbert, 4 p.

ES 2.

Mineral and Rock Collecting in Wisconsin. M.E. Ostrom and G.F. Hanson, 1961, 12 p.

ES 3.

Fossil Collecting in Wisconsin. M.E. Ostrom, 1962, 10 p.

ES 4.

List of High Points in Wisconsin. M.E. Ostrom, 1974, revised 1977, revised 1995, 1 p.

ES 5.

- ◆ *Mining and Minerals in Wisconsin.* M. Roshardt, 1975, brochure.
- ◆ *Mines and Minerals in Wisconsin: An Update.* M. Roshardt and T.J. Evans, 1978, brochure.

ES 6.

- ◆ *Soil Surveys for Town & Country.* F.D. Hole, 1975, 4 p. pamphlet.

ES 7.

- ◆ *Mineral and Water Resources of Wisconsin.* Report prepared by the U.S. Geological Survey in collaboration with the Wisconsin Geological and Natural History Survey. Printed at the request of Committee on Interior and Insular Affairs, U.S. Senate. 1976, 185 p.

ES 8.

- ◆ *Copper and Zinc Mining in Wisconsin.* M.G. Mudrey, Jr., 1978, brochure.

ES 9.

Wisconsin Lake Levels—Their Ups and Downs. R.P. Novitski and R.W. Devaul, 1978, 11 p.

ES 10.

Potential Mineral Deposits. T.O. Friz. Reprinted from *UIR/Research Newsletter*, vol. 13, no. 2, 1979, p. 31-32.

ES 11.

- ◆ *Residential Heating and Cooling with Ground Water* (first edition). J.P. Connelly, 1979, brochure.
- ◆ *Residential Heating and Cooling with Ground Water* (second edition). J.P. Connelly, 1980, brochure.

ES 12.

An Introduction to Wisconsin Wetlands. R.P. Novitzki, 1979, 19 p.

ES 13.

Uranium—the Resource and Wisconsin. J.K. Greenberg, M.G. Mudrey, Jr., and T.J. Evans, 1980, 15 p.

ES 14.

Wisconsin Climatic Data Archive Program. R.W. Larsen, 1980, brochure.

ES 15.

- ◆ *Ground-Water Levels in Wisconsin, Annual Summary, 1980.* A. Zaporozec, 1981, 4 p.
- ◆ *Ground-Water Levels in Wisconsin, Annual Summary, 1981.* A. Zaporozec, 1982, 4 p.
- Ground-Water Levels in Wisconsin, Annual Summary, 1982.* A. Zaporozec, 1983, 4 p.
- Ground-Water Levels in Wisconsin, Annual Summary, 1983.* A. Zaporozec, 1984, 4 p.
- Ground-Water Levels in Wisconsin, Annual Summary, 1984.* A. Zaporozec, 1985, 4 p.
- ◆ *Groundwater Levels in Wisconsin, Summary, 1985-86.* A. Zaporozec, 1987, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1987.* A. Zaporozec, 1988, 4 p.
- Groundwater Levels in Wisconsin, Summary 1988-89.* A. Zaporozec, 1990, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1990.* A. Zaporozec, 1991, 4 p.
- Groundwater Levels in Wisconsin, 1991-93.* A. Zaporozec, 1994, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1994.* A. Zaporozec, 1995, 6 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1995.* A. Zaporozec, 1996, 6 p.

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- Groundwater Levels in Wisconsin, Annual Summary, 1996.* A. Zaporozec, 1997, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1997.* A. Zaporozec, 1998, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1998.* A. Zaporozec, 1999, 4 p.
- Groundwater Levels in Wisconsin, Annual Summary, 1999.* A. Zaporozec, 2000, 4 p.
- ES 16.**
- ◆ *Ground-Water Levels in Marathon County.* A. Zaporozec, 1980, brochure.
- ES 17.**
- Update on Mining in Wisconsin.* T.J. Evans and D.A. Harkin, 1981, 11 p.
- ES 18.**
- ◆ *Metallic Mineral Exploration in Wisconsin, Summary of 1980 Activity.* T.J. Evans and S.P. Osborn, 1981, brochure.
 - ◆ *Metallic Mineral Exploration in Wisconsin, Summary of 1981 Activity.* William P. Scott, 1982, 6 p.
 - ◆ *Metallic Mineral Exploration in Wisconsin, Summary of 1982 Activity.* William P. Scott, 1983, 6 p.
 - Metallic Mineral Exploration in Wisconsin, Summary of 1983 Activity.* William P. Scott, 1984, 6 p.
 - Metallic Mineral Exploration in Wisconsin, Summary of 1984 Activity.* William P. Scott, 1985, 6 p.
 - Metallic Mineral Exploration in Wisconsin, Summary of 1985 Activity.* Thomas J. Evans, 1986, 6 p.
 - Metallic Mineral Exploration in Wisconsin, Summary of 1986 Activity.* Thomas J. Evans, 1987, 4 p.
 - Metallic Mineral Exploration in Wisconsin, Summary of 1987 Activity.* Thomas J. Evans, 1988, 4 p.
- ES 19.**
- ◆ *Growing Degree Days for Corn in Wisconsin.* V.L. Mitchell and R.W. Larsen, 1981, 22 p.
- ES 20.**
- Ground-Water Levels in Rock County.* A. Zaporozec, 1981, brochure.
- ES 21.**
- Ground-Water Quality of Rock County.* A. Zaporozec, 1982, brochure.
- ES 22.**
- Sample Repository.* W.P. Scott, 1982, brochure.
- ES 23.**
- Earth-Science Information in Land Use Planning.* A. Zaporozec, 1982, brochure.
- ES 24.**
- Ground-Water Level Monitoring Program in Wisconsin.* A. Zaporozec, 1982, 9 p.
- ES 25.**
- Ground-Water Levels in Juneau County.* I. Lippelt and A. Zaporozec, 1982, brochure.
- ES 26.**
- Oil and Gas in Wisconsin, Questions and Answers.* T.J. Evans, M.G. Mudrey, Jr., and R.M. Peters, 1984, 8-page folder.
- ES 27.**
- ◆ *Groundwater—Wisconsin's Buried Treasure.* 1984. 14-minute slide/tape set prepared in cooperation with the Department of Natural Resources. 69 slides, 1 cassette, 7 p. text.
- ES 28.**
- Major Ground-Water Units of Wisconsin.* A. Zaporozec and R.D. Cotter, 1985, 20 p.
- ES 29.**
- Ground-Water Levels in Calumet County.* I. Lippelt and A. Zaporozec, 1985, brochure.
- ES 30.**
- GNHS, Wisconsin Geological and Natural History Survey.* Brochure that explains our organization, programs, and services.
- ES 31.**
- ◆ *A Brief Review of Mineral Resources in Wisconsin.* T.J. Evans and W.P. Scott, 1986, brochure.
- ES 32.**
- Ground-Water Fluctuations in Wisconsin.* G.L. Patterson and A. Zaporozec, 1985, 15 p.
- ES 33.**
- Groundwater Quality of Barron County.* A. Zaporozec, 1987, brochure.
- ES 34.**
- Selected Developments in Wisconsin's Mineral Industry in 1988.* Thomas J. Evans, 1989, 10 p.

Selected Developments in Wisconsin's Mineral Industry in 1989. Thomas J. Evans, 1990, 10 p.

Selected Developments in Wisconsin's Mineral Industry in 1990. Thomas J. Evans, 1991, 8 p.

Selected Developments in Wisconsin's Mineral Industry in 1992. Thomas J. Evans, 1993, 8 p.

Selected Developments in Wisconsin's Mineral Industry in 1993. Thomas J. Evans, 1994, 7 p.

Selected Developments in Wisconsin's Mineral Industry in 1994. Thomas J. Evans, 1995, 10 p.

Selected Developments in Wisconsin's Mineral Industry in 1995. Thomas J. Evans, 1996, 9 p.

Selected Developments in Wisconsin's Mineral Industry in 1996 and 1997. Thomas J. Evans, 1998, 9 p.

ES 35.

The Ice Age Geology of Devils Lake State Park. John W. Attig, Lee Clayton, Kenneth I. Lange, and Louis J. Maher, 1990, 28 p., with Ice Age geologic map (scale 1:24,000).

ES 36.

- ◆ *Glaciation of Wisconsin.* Lee Clayton, John Attig, D.M. Mickelson, and M.D. Johnson, 1991, 4 p.

- ◆ *Glaciation of Wisconsin.* Lee Clayton, John Attig, D.M. Mickelson, and M.D. Johnson, revised 1992, 4 p.

Glaciation of Wisconsin. Lee Clayton, John Attig, D.M. Mickelson, M.D. Johnson, and K.M. Syverson, 2006 [third edition], 4 p.

ES 37.

Precipitation Summary for 1990. Pamela Naber, 1991, 4 p.

Precipitation Summary for 1991. Pamela Naber Knox, 1992, 4 p.

Precipitation Summary for 1992. Pamela Naber Knox, 1993, 6 p.

Precipitation Summary for 1993. Pamela Naber Knox, 1994, 6 p.

Precipitation Summary for 1994. Pamela Naber Knox, 1995, 6 p.

Precipitation Summary for 1995. Pamela Naber Knox, 1996, 6 p.

ES 38.

Historical Monthly Precipitation Database: Documentation for Version 1.0. Pamela Naber Knox, 1992, 12 p. with diskette.

ES 39.

- ◆ *State Climatology Office: Your Resource for Weather and Climate Information.* [Pamela Naber Knox], [1994], brochure.

ES 40.

Wisconsin Groundwater Observation-Well Network. A. Zaporozec, 1996, 14 p.

ES 41.

- ◆ *Sources of Wisconsin Weather and Climate Information.* [Pamela Naber Knox], [1995], brochure.

ES 42.

- ◆ *Wisconsin in Geologic Time, 1997.* [1996.] Poster calendar featuring photograph *Lone Rock from Below* by H.H. Bennett, circa 1890. 23.5 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 1998.* [1997.] Poster calendar featuring photograph *High Rock from Romance Cliff* by H.H. Bennett, circa 1890. 24 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 1999.* [1998.] Poster calendar featuring photograph *Up from Coldwater Canyon*, by H.H. Bennett, circa 1890. 24 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 2000.* [1999.] Poster calendar featuring photograph *Boulder atop Cliff at Foot of Devils Doorway, Devils Lake*, by H.H. Bennett, circa 1890. 21 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 2001.* [2000.] Poster calendar featuring photograph *Steamboat Rock*, by H.H. Bennett, circa 1890. 21 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 2002.* [2001.] Poster calendar featuring photograph *Channel at Steamboat Rock*, by H.H. Bennett, circa 1890. 32 x 23.5 inches.

- ◆ *Wisconsin in Geologic Time, 2003.* [2002.] Poster calendar featuring photograph *Sugar Bowl*, by H.H. Bennett, circa 1890. 21.5 x 32 inches.

- ◆ *Wisconsin in Geologic Time, 2004.* [2003.] Poster calendar featuring photograph *High Rock*, by H.H. Bennett, circa 1880. 32 x 23.5 inches.

- ◆ *Wisconsin in Geologic Time, 2005.* [2004.] Poster calendar featuring photograph *Willow River Falls, St. Croix County, 1882.* 22 x 29 inches.

- ◆ *Wisconsin in Geologic Time, 2006*. [2005.] Poster calendar featuring *Hemlock Island, Ashland County, 1880*. 22 x 29 inches.
- ◆ *Wisconsin in Geologic Time, 2007*. [2006.] Poster calendar featuring *Little Manitou Falls, Pattison State Park, 1880*. 22 x 29 inches.
- ◆ *Wisconsin in Geologic Time, 2008*. [2007.] Poster calendar featuring *Potsdam Sandstone: Stand Rock, Dalles of the Wisconsin, 1880*. 22 x 29 inches.

ES 43.

Landscapes of Dane County, Wisconsin. D.M. Mickelson, 2007, 43 p.

ES 44.

Understanding Wisconsin Township, Range, and Section Land Descriptions. I.D. Lippelt, 2000, 4 p.

Understanding Wisconsin Township, Range, and Section Land Descriptions [revised edition]. I.D. Lippelt, 2002, 4 p.

ES 45.

Common Paleozoic Fossils of Wisconsin. R.H. Nehm and B.E. Bemis, 2002, 25 p.

FIELD TRIP GUIDE BOOKS

Some of these guide books contain geologic road logs, stop descriptions, and associated data. For an annotated list of field trip guides, see Bibliographies and Indexes, item 16. For other field trip guide books, see Information Circulars 11, 13, 14, 15, 16, and 17. See also "Publications by Other Organizations," Other Contributions.

FTGB 1.

Upper Mississippi Valley Base-Metal District. M.G. Mudrey, Jr., ed., 1978, 39 p. Companion volume to Information Circular 16 (third edition). Prepared for 24th Annual Meeting—Institute on Lake Superior Geology. (Photocopy.)

FTGB 2.

Precambrian Inliers in South-Central Wisconsin. E.I. Smith, R.A. Paull, and M.G. Mudrey, Jr., eds., 1978, 89 p. Companion volume to *Geoscience Wisconsin*, vol. 2. Prepared for 24th Annual Meeting—Institute on Lake Superior Geology.

FTGB 3.

Lithostratigraphy, Petrology, and Sedimentology of Late Cambrian—Early Ordovician Rocks Near Madison, Wisconsin. I.E. Odom, M.E. Ostrom, C.W. Byers, R.C. Morris, and R.A. Adams, 1978, 142 p. Prepared for 8th Annual Meeting—Great Lakes Section—Society of Economic Paleontologists and Mineralogists.

FTGB 4.

Middle Precambrian Geology of Northern Wisconsin. M.G. Mudrey, Jr., ed., 1979, 44 p. Prepared for 25th Annual Meeting—Institute on Lake Superior Geology. (Photocopy.)

FTGB 5.

Quaternary History of the Driftless Area with Special Papers. J.C. Knox, P.J. Bartlein, T. Webb, III, L. Clayton, T.A. Frolking, F.D. Hole, J.W. Attig, M.D. Johnson, L.J. Maher, Jr., P.T. McDowell, and D.M. Mickelson, 1982, 177 p. Prepared for 29th Annual Meeting—Midwest Friends of the Pleistocene. (Photocopy.)

FTGB 6.

A Guide to the Glacial Landscapes of Dane County, Wisconsin. D.M. Mickelson, 1983, 53 p., with folded map of glacial geology (scale 1:100,000).

FTGB 7.

Late Glacial History and Environmental Geology of Southeastern Wisconsin, Road Log and Geological Stop Descriptions. D.M. Mickelson, A.F. Schneider, S.D. Stanford, L.R. Follmer, and N. Lasca, 1983, 39 p. Companion volume to *Geoscience Wisconsin*, vol. 7. Prepared for 17th Annual Meeting of Geological Society of America. (Photocopy.)

FTGB 8.

Middle Proterozoic to Cambrian Rocks in Central Wisconsin: Anorogenic Sedimentary and Igneous Activity. J.K. Greenberg and B.A. Brown. 1983, 50 p. (Photocopy.)

FTGB 9.

Three Billion Years of Geology. B.A. Brown, L. Clayton, F. Madison and T. Evans, 1983, 51 p. Prepared for 47th Annual Tri-State Geology Conference, Black River Falls, Wisconsin. (Photocopy.)

FTGB 10.

A Voyageur's Guide to the Lower Wisconsin River. Stan Nichols, 1984, 27 p.

FTGB 11.

Pleistocene History of West-Central Wisconsin, by Robert W. Baker; *Special Paper—Uranium-Series Dating of Calcite Cemented Sands and Gravels in Minnesota and Wisconsin*, by Richard S. Lively, 1984, 76 p. Prepared for the 31st Annual Midwest Friends of the Pleistocene Field Conference, River Falls, Wisconsin. (Photocopy.)

FTGB 12.

The Wolf River Batholith and Baraboo Interval in Central Wisconsin. J.K. Greenberg, B.A. Brown, L.G. Medaris, and J.L. Anderson, 1986, 56 p. Prepared for 32nd Annual Meeting Institute on Lake Superior Geology.

FTGB 13.

Precambrian Petroleum Potential Along the Mid-continent Trend. M.G. Mudrey, Jr., ed., 1986, 45 p. Companion volume to *Geoscience Wisconsin*, vol. 11. Prepared for 16th Annual Field Conference Great Lakes Section Society of Economic Paleontologists and Mineralogists. (Photocopy.)

OUTCROP DESCRIPTIONS

More than 100 descriptions of outcrops are available; these descriptions illustrate various geologic formations, features, and characteristics. Individual descriptions are one to ten pages long, and include a map with specific location, a description of geologic features, and a discussion of the geologic significance. See *Bibliographies and Indexes*, item 16, for the index to this series. Cost per outcrop description is \$1.00; complete set price is \$50.00. The complete set is also available on CD-ROM in Adobe Acrobat PDF format for \$25.

ROCK SETS

ES 46.

Important Rocks and Minerals of Wisconsin—Rock Set. This collection of 15 rocks and minerals is intended for K–12 classroom use. In addition to providing a basis for identifying Wisconsin's more significant rocks, the collection will also help to explain the importance of rocks. Each rock in the set is numbered and explained in detail in the accompanying 18-page information sheet. No educational discount is available for this item.

ES 47.

Student Rock Collection Kit. Kits contain five representative rocks and minerals from Wisconsin: red granite, sandstone, dolomite, purple quartzite, plus a fifth of our choice. Includes a 3-page explanation to be copied. Multiple kits are shipped in five bags (one for each rock type). Kits are \$2.50 each; no educational discount is available for this item.

WGNHS MAPS

AEROMAGNETIC SURVEY

Aeromagnetic maps of north-central Wisconsin have been prepared by the WGNHS and the University of Wisconsin–Oshkosh. An index sheet of the published maps is listed under *Bibliographies and Indexes*, item 11. Copies of the maps may be examined at the Survey Offices.

DIGITAL INFORMATION

Geologic/Hydrogeologic Data

Data extracted from published maps are available on CD-ROMs; data are in ArcInfo® export format (.e00) and are suitable for use in geographic information systems that accept this format. Each data CD contains data, metadata, an Adobe® Acrobat® PDF file of the map, and a PDF of any accompanying report. Please refer to the items under their series listings for information about the print version.

We also have some items available on CD that are scanned images only; some of these images may be used as a backdrop in a geographic information system if desired, but the information cannot be manipulated.

Information from the data CDs is also available free of charge on our Web site: <www.uwex.edu/wgnhs/gis.htm>. Information from the image CDs is considered too large for download and is only available for purchase on CD-ROM.

1. Bulletin 101-DI

Geology of La Crosse County, Wisconsin. T.J. Evans, 2003. [Original print publication date: 2003.] 1 CD-ROM with data files.

2. Information Circular 50-DI

Pleistocene Geology of Vilas County, Wisconsin. John W. Attig, 2003. [Original print publication date: 1985.] 1 CD-ROM with data files.

3. Information Circular 51-DI

Pleistocene Geology of Florence County, Wisconsin. Lee Clayton, 2003. [Original print publication date: 1986.] 1 CD-ROM with data files.

4. Information Circular 52-DI

Pleistocene Geology of Langlade County, Wisconsin. D.M. Mickelson, 2003. [Original print publication date: 1986.] 1 CD-ROM with data files.

5. Information Circular 61-DI

Pleistocene Geology of Forest County, Wisconsin. W.W. Simpkins, M.C. McCartney, D.M. Mickelson, 2003. [Original print publication date: 1987.] 1 CD-ROM with data files.

6. Information Circular 67-DI

Geology of Sauk County, Wisconsin. Lee Clayton and John W. Attig, 2003. [Original print publication date: 1990.] 1 CD-ROM with data files.

7. Miscellaneous Map 54-DI

Depth to Bedrock Map of Sauk County, Wisconsin. M.B. Gotkowitz and K.K. Zeiler, 2003. [Original print publication date: 2002.] 1 CD-ROM with data files.

8. Miscellaneous Map 55-DI

Water-Table Elevation Map of Sauk County, Wisconsin. M.B. Gotkowitz and K.K. Zeiler, 2003. [Original print publication date: 2002.] 1 CD-ROM with data files.

9. Bulletin 93-DI

Geology of Lincoln County, Wisconsin. N.R. Ham and J.W. Attig, 2004. [Original print publication date: 1997.] 1 CD-ROM with data files.

10. Bulletin 99-DI

Geology of Waukesha County, Wisconsin. Lee Clayton, 2004. [Original print publication date: 2001.] 1 CD-ROM with data files.

11. Miscellaneous Map 47-DI

Generalized Water-Table Elevation Map of Trempealeau County, Wisconsin. M.A. Muldoon and J. Craven, 2005. [Original print publication date: 1998.] 1 CD-ROM with data files.

12. Bulletin 95-DI

Pleistocene Geology of Dane County, Wisconsin. Lee Clayton and John W. Attig, 2005. [Original print publication date: 1997.] 1 CD-ROM with data files.

13. State Map 10-DI

Glacial Deposits of Wisconsin: Sand and Gravel Resource Potential. Compiled by D.W. Hadley and J.H. Pelham. [Original print publication date: 1976.] 1 CD-ROM with images of map in several image formats (PDF, JPEG, JPEG2000, and georeferenced MrSID), but no data files.

14. Information Circular 14-DI

Geology of the Baraboo District, Wisconsin: A Description and Field Guide Incorporating Structural Analysis of the Precambrian Rocks and Sedimentologic Studies of the Paleozoic Strata. I.W.D. Dalziel and R.H. Dott, Jr. [Original print publication date: 1970.] 1 CD-ROM with images of plates, including geologic map, and report in PDF format only. No data files are included.

15. Miscellaneous Map 56-DI

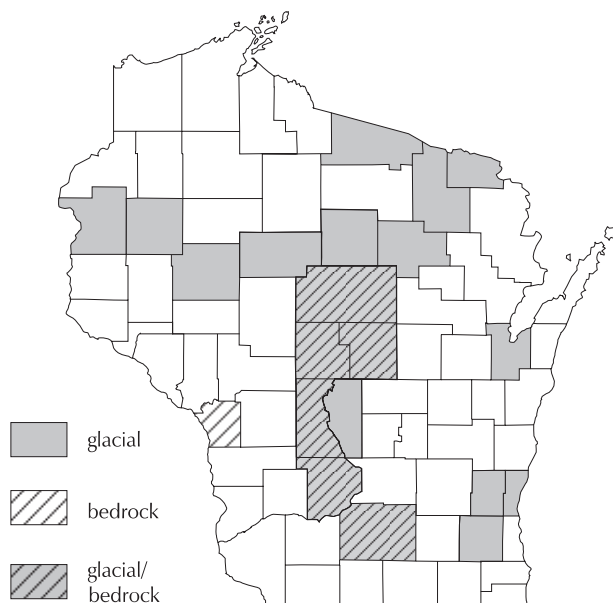
Water-Table and Aquifer-Susceptibility Maps of Calumet County, Wisconsin. M.B. Gotkowitz and S.J. Gaffield, 2006. [Original print publication date: 2006.] 1 CD-ROM with data files.

16. State Map 18-DI

Bedrock Geologic Map of Wisconsin. M.G. Mudgett, Jr., B.A. Brown, and J.K. Greenberg, 2007. [Original print publication date: 1982.] 1 CD-ROM with data files. (Also includes georeferenced MrSID file.)

17. Bulletin 103-DI

Geology of Chippewa County, Wisconsin. K.M. Syverson, 2008. [Original print publication date: 2007.] 1 CD-ROM with data files.



County Geologic Map Index

18. Bulletin 97-DI

Geology of Northern Oconto County, Wisconsin. J.W. Attig and N.R. Ham, 2008. [Original print publication date: 1999.] 1 CD-ROM with data files.

19. Bulletin 90-DI

Pleistocene Geology of Taylor County, Wisconsin. J.W. Attig, 2008. [Original print publication date: 1994.] 1 CD-ROM with data files.

COUNTY MAP SERIES (SCALE 1:100,000)

Geologic Maps

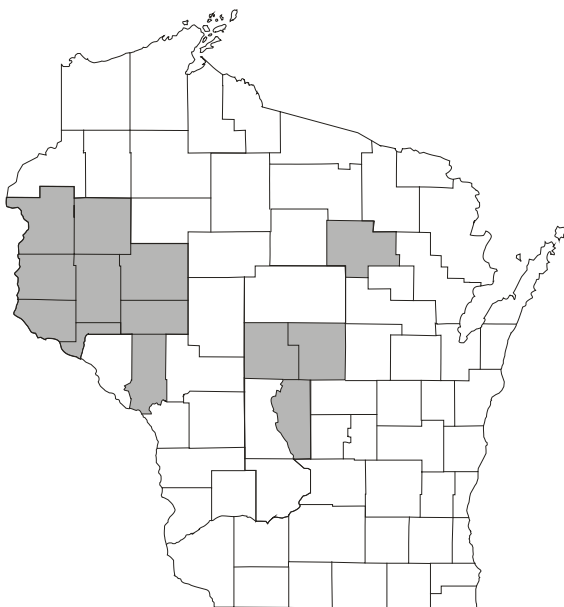
1.
 - ◆ *Glacial Geology of Dane County, Wisconsin.* D.M. Mickelson and M.C. McCartney, 1979. Full color. (Map is only available with Field Trip Guide Book 6.)
2. *Pleistocene Geology of Brown County, Wisconsin.* Edward Need, 1983. Map 83-1. Full color. (Unfolded copy; folded copy available with Information Circular 48.)
3. *Bedrock Geology of Marathon County, Wisconsin.* G.L. LaBerge, and P.E. Myers, 1983. Map 83-5. Full color. (Unfolded copy; folded copy available with Information Circular 45.)
4. *Aeromagnetics of Marathon County, Wisconsin.* 1983. Map 83-6. Black and white. (Folded copy; also available with Information Circular 45.)
5.
 - ◆ *Pleistocene Geology of Vilas County, Wisconsin.* John W. Attig, 1985. Map 85-2. Full color. (Map is only available with Information Circular 50.)
6. *Pleistocene Geology of Florence County, Wisconsin.* Lee Clayton, 1986. Map 86-1. Full color. (Unfolded copy; folded copy available with Information Circular 51.)
7. *Pleistocene Geology of Langlade County.* David Mickelson, 1986. Map 86-2. Full color. (Unfolded copy; folded copy available with Information Circular 52.)

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8. *Bedrock Geology of Portage County, Wisconsin.* J.K. Greenberg and B.A. Brown, 1986. Map 86-3. Full color. (Unfolded copy.)
9. *Bedrock Geology of Wood County, Wisconsin.* B.A. Brown and J.K. Greenberg, 1986. Map 86-4. Full color. (Unfolded copy.)
10. ♦ *Pleistocene Geology of Barron County, Wisconsin.* Mark D. Johnson, 1986. Map 86-5. Full color. (Map is only available with Information Circular 55.)
11. *Pleistocene Geology of Portage County, Wisconsin.* Lee Clayton, 1986. *Plate 1: Pleistocene Geologic Map.* Map 86-6a. *Plate 2: Cross Sections.* Map 86-6b. Both full color. (Unfolded copies; folded copies available with Information Circular 56.)
12. *Pleistocene Geology of Adams County, Wisconsin.* Lee Clayton, 1987. *Plate 1: Pleistocene Geologic Map.* Map 87-1a. *Plate 2: Cross Sections.* Map 87-1b. Both full color. (Unfolded copies; folded copies available with Information Circular 59.)
13. *Pleistocene Geologic Map, Forest County, Wisconsin.* W.W. Simpkins, M.C. McCartney, D.M. Mickelson, 1987. Map 87-7. Full color. (Unfolded copy; folded copy available with Information Circular 61.)
14. *Pleistocene Geology of Marathon County, Wisconsin.* John W. Attig and Maureen A. Muldoon, 1989. *Plate 1: Geologic Map.* Full color. (Unfolded copy; folded copy available with Information Circular 65.)
15. *Geology of Juneau County, Wisconsin.* Lee Clayton, 1989. *Plate 1: Geologic Map. Plate 2: Cross Sections.* Both full color. (Unfolded copies; folded copies available with Information Circular 66.)
16. *Geologic Map of Sauk County, Wisconsin.* Lee Clayton and John W. Attig, 1990. Full color.
17. *Pleistocene Geologic Map of Wood County, Wisconsin.* Lee Clayton, 1991. Full color. (Unfolded copy; folded copy with cross sections available with Information Circular 68.)
18. *Pleistocene Geologic Map and Cross Sections of Taylor County, Wisconsin.* J.W. Attig, 1993. Full color. (Unfolded copy; folded copy available with Bulletin 90.)
19. *Pleistocene Geologic Map of Lincoln County, Wisconsin.* Nelson R. Ham and John W. Attig, 1997. Full color. Scale: 1:100,000. (Unfolded copy; folded copy available with Bulletin 93.)
20. *Pleistocene Geology Map of Dane County, Wisconsin.* Lee Clayton and John W. Attig, 1997. *Plate 1: Geologic Map.* Full color. Scale: 1:100,000. (Unfolded copy; folded copy with cross sections available with Bulletin 95.)
21. *Quaternary Geologic Map of Ozaukee and Washington Counties, Wisconsin.* D.M. Mickelson and K.M. Syverson, 1997. Full color. (Unfolded copy; folded copy with cross sections available with Bulletin 91.)
22. *Quaternary Geologic Map of Northern Oconto County, Wisconsin.* J.W. Attig and N.R. Ham, 1999. *Plate 1: Geologic Map.* Full color. (Unfolded copy; folded copy available with Bulletin 97.)
23. *Pleistocene Geologic Map of Polk County, Wisconsin.* M.D. Johnson, 1998. *Plate 1: Geologic Map.* Full color. (Unfolded copy; folded copy available with Bulletin 92.)
24. *Pleistocene Geologic Map of Waukesha County, Wisconsin.* Lee Clayton, 2001. *Plate 1: Geologic Map.* Full color (Unfolded copy; folded copy available with Bulletin 99.)

25. *Geologic Map and Cross Sections of La Crosse County, Wisconsin.* T.J. Evans, 2003. Full color (Unfolded copy; folded copy available with Bulletin 101.)
26. *Pleistocene Geologic Map of Chippewa County, Wisconsin.* K.M. Syverson, 2007. Plate 1: *Geologic Map.* Full color. (Unfolded copy; folded copy available with Bulletin 103.)

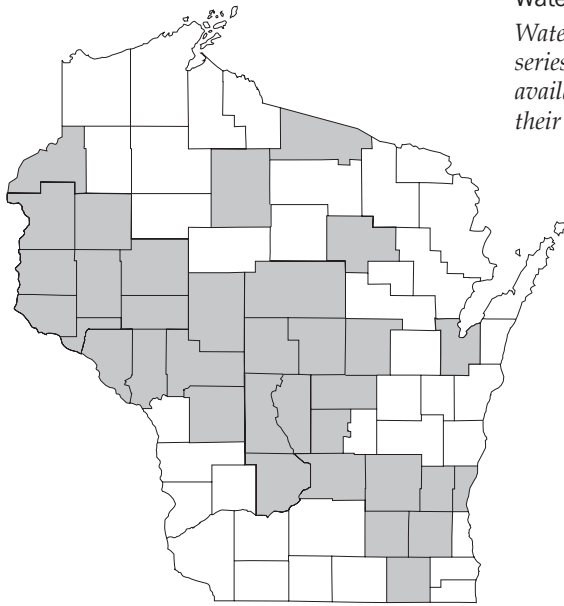
Soil Attenuation Maps

1. *Soils of Barron County and Their Ability to Attenuate Contaminants.* A.W. Sutherland and F.W. Madison, 1987. Map 87-2b. Two color.
2. *Soils of Chippewa County and Their Ability to Attenuate Contaminants.* A.W. Sutherland and F.W. Madison, 1987. Map 87-3. Two color.
3. *Soils of Dunn County and Their Ability to Attenuate Contaminants.* A.W. Sutherland and F.W. Madison, 1987. Map 87-4. Two color.



Soil-Attenuation-Potential Map Index

4. *Soils of Adams County and Their Ability to Attenuate Contaminants.* L. Ward Good and F.W. Madison, 1987. Map 87-5. Two color.
5. *Soils of Wood County and Their Ability to Attenuate Contaminants.* L.W. Good and F.W. Madison, 1987. Map 87-6. Two color.
6. *Soils of Portage County and Their Ability to Attenuate Contaminants.* L. Ward Good and F.W. Madison, 1987. Map 87-8. Two color.
7. *Soils of Pierce County and Their Ability to Attenuate Contaminants.* A.W. Sutherland, C.C. Leigh, F.W. Madison, 1987. Map 87-9. Two color.
8. *Soils of St. Croix County and Their Ability to Attenuate Contaminants.* J.A. Gassen, E.C. Lawson, F.W. Madison, 1987. Map 87-10. Two color.
9. *Soils of Eau Claire County, Wisconsin, and Their Ability to Attenuate Contaminants.* K.J. Cates and F.W. Madison, 1989. Map 89-6. Two color.
10. *Soil-Attenuation-Potential Map of Pepin County, Wisconsin.* K.J. Cates and F.W. Madison, 1990. Two color.
11. *Soil-Attenuation-Potential Map of Langlade County, Wisconsin.* J.A. Gassen and F.W. Madison, 1990. Two color.
12. *Soil-Attenuation-Potential Map of Polk County, Wisconsin.* K.J. Cates and F.W. Madison, 1991. Two color.
14. *Soil-Attenuation-Potential Map of Trempealeau County, Wisconsin.* K.J. Cates and F.W. Madison, 1993. Two color.



Water-Table Map Index

Water-Table Maps

Water-table maps have been included in WGNHS reports in several series or have been printed as stand-alone maps. This index map shows available water-table maps by county. Please refer to the items under their series listings for more information.

County	Series	County	Series
Adams	MP81-1	Monroe	MP81-1
Barron	Map 87-2e*	Ozaukee	IC38
Brown	IC 57	Pepin	MM36
Buffalo	MM 50	Pierce	MM 31
Burnett	MM 45	Polk	MM 48
Calumet	MM 56	Portage	MP 81-1
Chippewa	MM 20	Price	MM 49
Clark	MM 33	St. Croix	MM 32
Columbia	IC 37	Sauk	MM 55
Dodge	IC 44	Trempealeau	MM 47
Dunn	MM 21	Vilas	MP 89-1
Eau Claire	MM 35	Walworth	IC 34
Jackson	MP81-1	Washington	IC 38
Jefferson	IC33	Waukesha	IC 29
Juneau	MP81-1	Waupaca	MP81-1
Langlade	IC58	Waushara	MP81-1
Marathon	IC64, MP81-1	Wood	IC60, MP81-1
Marquette	MP81-1		

IC = Information Circular; MM = Miscellaneous Map Series;
MP = Miscellaneous Paper Series

* See County Map Series, Other 1:100,000 Maps

Other 1:100,000 Maps

1.

Atlas of Groundwater Resources and Geology of Barron County, Wisconsin. Compiled by A. Zaporozec, 1987. Scale 1:100,000. Black and white and two color. Map 87-2a-2i: *Physical Setting; Soils of Barron County and Their Ability to Attenuate Pollutants (‡); Bedrock Geology; Depth to Bedrock; Hydrogeology; Water Quality; Potential Sources of Groundwater Pollution; Groundwater Levels; Groundwater Pollution Potential.*

MISCELLANEOUS MAP SERIES

Hydrographic maps (maps 1 through 16) show lake-bottom contours and limited shoreline features. Maps 1 through 10 were originally published with short explanations.

1.

- ◆ *Hydrographic Map of Lake Geneva, Wisconsin.* Compiled by L.S. Smith, 1898. Scale 1 inch = 1/2 mile. Contour interval 10 feet (3 meters).

2.

Hydrographic Map of Elkhart Lake, Sheboygan County, Wisconsin. Compiled by L.S. Smith, 1898. Scale 1 inch = 1/7 mile. Contour interval 10 feet.

3.

Hydrographic Map of Lake Beulah, Walworth County, Wisconsin, together with Booth and East Troy Lakes. Compiled by L.S. Smith, 1898. Scale 1 inch = 1/6 mile. Contour interval 10 feet.

4.

- ◆ *Hydrographic Map of the Oconomowoc-Waukesha Lake District, Waukesha County, Wisconsin.* Compiled by L.S. Smith, 1898. Scale 1 inch = 1/2 mile. Contour interval 10 feet.

5.

Hydrographic Map of the Chain-O'-Lakes, Waupaca County, Wisconsin. Compiled by L.S. Smith, 1898. Scale 1 inch = 1/6 mile. Contour interval 10 feet.

◆ Out of print
‡ Unfolded map available separately

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6.
 - ◆ *Hydrographic Map of Delavan and Lauderdale Lakes, Walworth County, Wisconsin.* Compiled by L.S. Smith, 1898. Scale 1 inch = 1/4 mile. Contour interval 10 feet.
 7.
 - ◆ *Hydrographic Map of Green Lake, Wisconsin.* Compiled by C.D. Marsh, 1898. Scale 1 inch = 1/3 mile. Contour interval 20 feet.
 8.
 - ◆ *Hydrographic Map of Lake Mendota, Dane County, Wisconsin, and of its Adjacent Topography.* Compiled by L.S. Smith, 1900. Scale 1 inch = 1/3 mile. Contour interval 5 feet.
 9.
 - ◆ *Hydrographic Map of Big Cedar Lake, Wisconsin, Washington County.* Compiled by L.S. Smith, 1899. Scale 1 inch = 1/4 mile. Contour interval 10 feet.
 10.
 - ◆ *Hydrographic Map of Lake Monona, Dane County, Wisconsin, and of the Adjacent Topography.* Compiled by L.S. Smith, 1900. Scale 1 inch = 1/4 mile. Contour interval 5 feet.
 11.
 - ◆ *Hydrographic Map of Lake Mendota, Dane County, Wisconsin.* 1953. Scale 1 inch = 2,000 feet. Contour interval 5 feet.
 12.
 - ◆ *Hydrographic Map of Madison Area Lakes.* R.D. Sale, 1961. Scale 1 inch = 1/4 mile. Contour interval 5 feet.
 13.

Madison Area Lakes. D.L. Patterson and M.L. Czechanski, 1984. Map 84-1. Scale 1:24,000. Color. Available as Tyvek copy (tear and water resistant) and paper copy, various prices.
 14.
 - ◆ *Hydrographic Map of Lake Waubesa.* Scale 1 inch = 1/2 mile. Contour interval 5 feet. Page-size.
 15.
 - ◆ *Hydrographic Map of Lake Kegonsa.* Scale 1 inch = 1/2 mile. Contour interval 5 feet. Page-size.
 16.
 - ◆ *Hydrographic Map of Black Oak Lake.*
 17.
 - ◆ *Pleistocene Geology of the Door Peninsula.* F.T. Thwaites and K. Bertrand. From *GSA Bulletin*, vol. 68, 1957. Scale 1:250,000.
 18.

Total Magnetic Intensity Map of Northern Wisconsin. John H. Karl, 1986. Scale 1:250,000. Map 86-7.
 19.
 - ◆ *Experimental Satellite Image Map, Sturgeon Bay, Wisconsin.* Compiled from Landsat Thematic Mapper Data, 1985. Scale 1:62,500.
 20.

Generalized Water-Table Elevation of Chippewa County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-1.
 21.

Generalized Water-Table Elevation of Dunn County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-2. (Large-format photocopy.)
 22.

Depth to Bedrock of Chippewa County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-3. (Large-format photocopy.)
 23.

Depth to Bedrock of Dunn County, Wisconsin. I.D. Lippelt and T.E. Fekete, 1988. Scale 1:100,000. Map 88-4. (Large-format photocopy.)
 24.

Potential Yields of Wells in the Sandstone Aquifer of Dunn County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-5. (Large-format photocopy.)
 25.

Potential Yields of Wells in the Sand-and-Gravel Aquifer of Dunn County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-6. (Large-format photocopy.)
 26.

Potential Yields of Wells in the Sand and Gravel Aquifer of Chippewa County, Wisconsin. I.D. Lippelt, 1988. Scale 1:100,000. Map 88-9. (Large-format photocopy.)

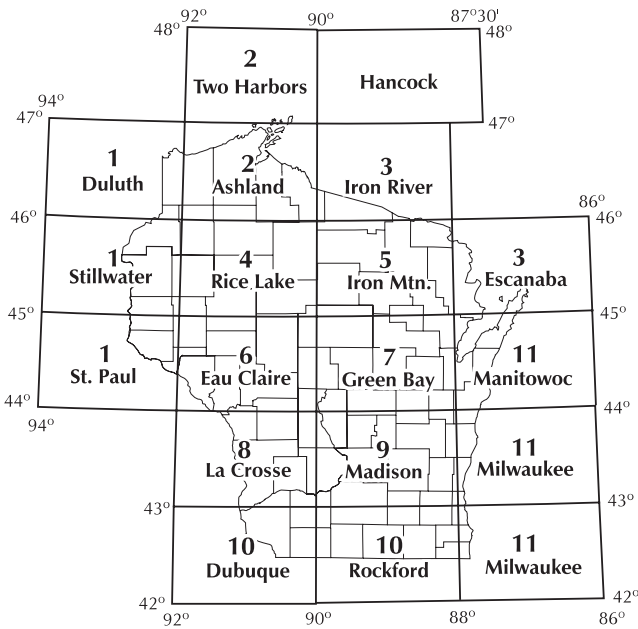
27. *Potential Yields of Wells in the Bedrock Aquifers of Chippewa County, Wisconsin.* I.D. Lippelt, 1988. Scale 1:100,000. Map 88-10. (Large-format photocopy.)
28. *Groundwater Quality Investigation of Clark County, Wisconsin.* Compiled by G.S. Steinhart and I.D. Lippelt, 1989, 8 plates. Scale 1:100,000. Plate 1: Sample Numbers (map 89-4a). Plate 2: Nitrate-N in mg/L (map 89-4b). Plate 3: Chloride in mg/L (map 89-4c). Plate 4: Laboratory Measurement of pH (map 89-4d). Plate 5: Total Hardness in mg/L (map 89-4e). Plate 6: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$ (map 89-4f). Plate 7: Estimated Langelier Saturation Index (ELSI) (map 89-4g). Plate 8: Total Alkalinity in mg/L (map 89-4h). (Large-format photocopy.)
29. *Groundwater Quality Investigation of St. Croix County, Wisconsin.* Compiled by I.D. Lippelt, 1989, 7 plates. Scale 1:100,000. Plate 1: Sample Numbers (map 89-5a). Plate 2: Nitrate-N in mg/L (map 89-5b). Plate 3: Chloride in mg/L (map 89-5c). Plate 4: Laboratory Measurement of pH (map 89-5d). Plate 5: Total Hardness in mg/L (map 89-5e). Plate 6: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$ (map 89-5f). Plate 7: Ferrous Iron in mg/L (map 89-5g). (Large-format photocopy.)
30. *Groundwater-Quality Investigation Maps of Pierce County, Wisconsin.* Compiled by I.D. Lippelt, 1990, 7 plates. Scale 1:100,000. Plate 1: Sample Numbers (map 90-3a). Plate 2: Nitrate as Nitrogen in mg/L (map 90-3b). Plate 3: Chloride in mg/L (map 90-3c). Plate 4: Laboratory Measurement of pH (map 90-3d). Plate 5: Total Hardness in mg/L (map 90-3e). Plate 6: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$ (map 90-3f). Plate 7: Ferrous Iron in mg/L (map 90-3g). (Large-format photocopy.)
31. *Generalized Water-Table Elevation Map of Pierce County, Wisconsin.* I.D. Lippelt, 1990. Scale 1:100,000.
32. *Generalized Water-Table Elevation Map of St. Croix County, Wisconsin.* I.D. Lippelt, 1990. Scale 1:100,000.
33. *Generalized Water-Table Elevation Map of Clark County, Wisconsin.* I.D. Lippelt, 1990. Scale 1:100,000.
34. *Depth to Bedrock of Pierce County, Wisconsin.* Bruce A. Brown, 1991. Scale 1:100,000.
35. *Generalized Water-Table Elevation Map of Eau Claire County, Wisconsin.* M.A. Muldoon, 1992. Scale 1:100,000.
36. *Generalized Water-Table Elevation Map of Pepin County, Wisconsin.* M.A. Muldoon and D.M. Johnson, 1993. Scale 1:100,000.
37. *Depth to Bedrock Map of Eau Claire County, Wisconsin.* D.M. Johnson, 1993. Scale 1:100,000.
38. *Groundwater Quality Investigation Maps of Pepin County, Wisconsin.* Compiled by D.M. Johnson, 1994, 6 plates. Scale 1:100,000. Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L. (Large-format photocopy.)
39. *Depth to Bedrock Map of Pepin County, Wisconsin.* D.M. Johnson, 1994. Scale 1:100,000.
40. *Groundwater Quality Investigation Maps of Trempealeau County, Wisconsin.* Compiled by M.S. Bridson, 1997, 6 plates. Scale 1:100,000. Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L. (Large-format photocopy.)
41. *Depth to Bedrock Map of Trempealeau County, Wisconsin.* K.J. Cates, 2001. Scale 1:100,000. Two-color plot.

42. **Groundwater Quality Investigation Maps of Burnett County, Wisconsin.** Compiled by M.S. Bridson, 1997, 6 plates. Scale 1:100,000. *Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L.* (Large-format photocopy.)
43. **Groundwater Quality Investigation Maps of Polk County, Wisconsin.** Compiled by M.S. Bridson, 1997, 6 plates. Scale 1:100,000. *Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L.* (Large-format photocopy.)
44. **Green Bay Area Private Claims and Williams Grant Subdivision in Brown County, Wisconsin.** D.L. Patterson, D.C. Endrizzi, and I.D. Lippelt, 1997. Scale: 1:36,000. Full-color plot.
45. **Generalized Water-Table Elevation Map of Burnett County, Wisconsin.** M.A. Muldoon and M.V. Dahl, 1998. Scale 1:100,000.
46. **Depth to Bedrock Map of Buffalo County, Wisconsin.** K.J. Cates, 2001. Scale 1:100,000. Two-color plot.
47.
 ☉ **Generalized Water-Table Elevation Map of Trempealeau County, Wisconsin.** M.A. Muldoon and J. Craven, 1998. Scale 1:100,000. See also "WGNHS Maps," Digital Information, Geologic/Hydrogeologic Data, item 11.
48. **Generalized Water-Table Elevation Map of Polk County, Wisconsin.** M.A. Muldoon and J. Craven, 2000. Scale 1:100,000. Two-color plot.
49. **Generalized Water-Table Elevation Map of Price County, Wisconsin.** K.J. Cates and W.A. Batten, 1999. Scale 1:100,000. Two-color plot.
50. **Generalized Water-Table Elevation Map of Buffalo County, Wisconsin.** W.A. Batten and A. Zaporozec, 1999. Scale 1:100,000. Two-color plot.
51. **Groundwater Quality Investigation Maps of Price County, Wisconsin.** Compiled by P.D. Roffers and K.J. Cates, 2000, 6 plates. Scale 1:100,000. *Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L.* (Large-format photocopy.)
52. **Glacial Landforms of the Southern Green Bay Lobe, Southeastern Wisconsin.** P.M. Colgan, 2002. Scale 1:250,000. Full-color plot.
53. **Groundwater Quality Investigation Maps of Buffalo County, Wisconsin.** Compiled by P.D. Roffers and K.J. Cates, 2001, 6 plates. Scale 1:100,000. *Plate 1: Nitrate as Nitrogen in mg/L. Plate 2: Chloride in mg/L. Plate 3: Laboratory Measurement of Alkalinity in mg/L. Plate 4: Total Hardness in mg/L. Plate 5: Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$. Plate 6: Ferrous Iron in mg/L.* (Large-format photocopy.)
54.
 ☉ **Depth to Bedrock Map of Sauk County, Wisconsin.** M.B. Gotkowitz and K.K. Zeiler, 2002. Scale 1:100,000. Full-color plot. (See also WGNHS Maps, Digital Information, Geologic/Hydrogeologic Data, item 7.)
55.
 ☉ **Water-Table Elevation Map of Sauk County, Wisconsin.** M.B. Gotkowitz and K.K. Zeiler, 2002. Scale 1:100,000. Full-color plot. (See also WGNHS Maps, Digital Information, Geologic/Hydrogeologic Data, item 8.)
56.
 ☉ **Water-Table and Aquifer-Susceptibility Maps of Calumet County, Wisconsin.** M.B. Gotkowitz and S.J. Gaffield, 2006. Scale 1:100,000. Full-color plot. (See also WGNHS Maps, Digital Information, Geologic/Hydrogeologic Data, item 15.)

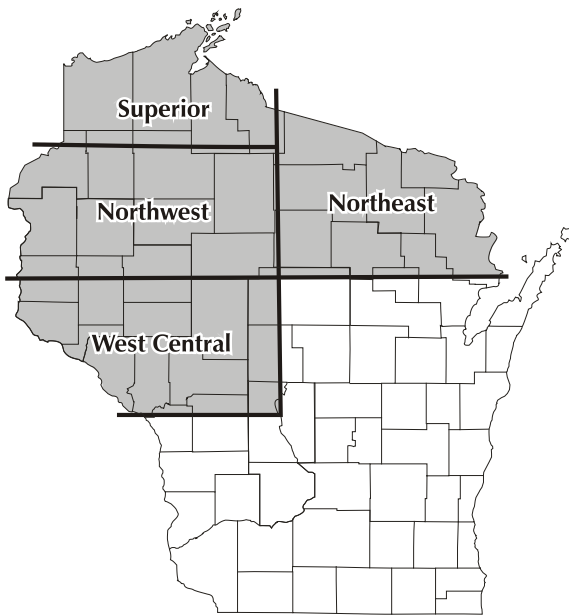
PAGE-SIZE MAP SERIES

This series of maps of the entire state contains information at an approximate scale of 1:2,730,000. Information is generalized to fit an 8 1/2 x 11 inch page; these maps should not be used for detailed studies.

1.
 - ◆ *Aeolian Silt and Sand Deposits of Wisconsin*. F.D. Hole, 1950, reprinted 1968. Two color.
2.
 - ◆ *Soils of Wisconsin*. F.D. Hole and M.T. Beatty, 1957, brochure. With text. Full color.
3.
 - ◆ *Soils of Wisconsin*. F.D. Hole, M.T. Beatty, and G.B. Lee, 1966. With text. Full color.
4.
 - ◆ *Soils of Wisconsin*. F.D. Hole, 1973. With text. Full color. Withdrawn, see next entry.
5.
 - ◆ *Soil Regions of Wisconsin*. Compiled by F.D. Hole, 1974. With 3-page explanatory text. Full color.
6.
 - ◆ *Geologic Map of Wisconsin*. 1970. Three color.
7.
 - ◆ *Bedrock Geology of Wisconsin*. 1971, with short geologic history. Full color.
8.
 - ◆ *Bedrock Geology of Wisconsin*. 1981. Full color.
9.
 - ◆ *Ice Age Deposits of Wisconsin*. F.T. Thwaites, 1960, reprinted in 1964. Two color.
10.
 - ◆ *Buried Pre-Cambrian of Wisconsin*. F.T. Thwaites, 1957. Black and white.
11.
 - ◆ *Early Vegetation of Wisconsin*. G. Cottam, O.L. Loucks, and J.T. Curtis, 1965. With brief text. Full color.
12.
 - ◆ *Landforms of Wisconsin*. D.A. Woodward, 1971. Three color.
13.
 - ◆ *Preliminary Map Showing Thickness of Glacial Deposits in Wisconsin*. R.G. Borman, 1971. Black and white.
14.
 - ◆ *Preliminary Map of Probable Well Yields from Glacial Deposits in Wisconsin*. R.G. Borman, 1971. Black and white.
15.
 - ◆ *Preliminary Map of Probable Well Yields from Bedrock in Wisconsin*. R.G. Borman, 1971. Black and white.
16.
 - ◆ *Areas with Potential for Crushed Stone Production in Wisconsin*. 1977. With brief text. Two color.
17.
 - ◆ *Ground-Water Pollution Potential Based on Recharge Rates*. 1977. With brief text. Two color.
18.
 - ◆ *Thickness of Unconsolidated Material in Wisconsin*. 1983. Full color.
19.
 - ◆ *Groundwater Contamination Susceptibility in Wisconsin*. 1989. Full color.
20.
 - ◆ *Soil Regions of Wisconsin*. F.W. Madison and H.F. Gundlach. 1993. With brief text. Full color.
21.
 - ◆ *Page-Size Maps of Wisconsin*. Set includes *Bedrock Geology of Wisconsin* (1981), *Early Vegetation of Wisconsin* (1965), *Groundwater Contamination Susceptibility in Wisconsin* (1989), *Ice Age Deposits of Wisconsin* (1964), *Landscapes of Wisconsin* (2004), *Soil Regions of Wisconsin* (1993), and *Thickness of Unconsolidated Material in Wisconsin* (1983).
22.
 - ◆ *Landscapes of Wisconsin*. 2004. Full color.



Soil Map Index (Regional Map Series 1)



Regional Map Index (Regional Map Series 2-7)

REGIONAL MAP SERIES (scale 1:250,000)

1. **Various prices**
Soil Map of Wisconsin. F.D. Hole, M.T. Beatty, G.B. Lee, and A.J. Klingelhoets, 1968.
 Consists of 11 soil map quadrangle overlays (transparent copies, each) with 18 U.S. Geological Survey topographic map quadrangles (each). Explanatory booklet. Total cost \$174.75. Order by number and name as shown on index.
2. *Simple Bouguer Gravity Map, Northeast Sheet.* C.P. Ervin, K. Tuftee, and J. Funck, 1983. Map 83-2. Black and white.
3. *Pleistocene Geology of the Superior Region, Wisconsin.* Lee Clayton, 1985. Map 85-1. Full color.
4. *Bedrock Geology of Wisconsin, Northeast Sheet.* J.K. Greenberg and B.A. Brown, 1984. Map 84-2. Full color.
5. *Bedrock Geology of Wisconsin, Northwest Sheet.* M.G. Mudrey, Jr., G.L. LaBerge, P.E. Myers, and W.S. Cordua, 1987. Maps 87-11a & b (2 sheets). Full color.
6. *Bedrock Geology of Wisconsin, West-Central Sheet.* B.A. Brown, 1988. Map 88-7. Full color.
7. *Simple Bouguer Anomaly Gravity Map—Superior Sheet.* Compiled by M.D. Thompson, C.P. Ervin, M.L. Czechanski, M.G. Mudrey, Jr., and B.A. Brown, 1991. (Black and white plot.)

STATE MAP SERIES

See "Publications Prepared in Cooperation with Federal and State Agencies," Wisconsin Department of Administration, LANDRAP Maps, for maps 1-9.

10.

- ◉ *Glacial Deposits of Wisconsin: Sand and Gravel Resource Potential*. Compiled by D.W. Hadley and J.H. Pelham, 1976. Scale 1:500,000. Full color.

NOTE: See "Publications Prepared in Cooperation with Federal and State Agencies," Wisconsin Department of Administration, LANDRAP Report 3 for text.

Map is available in several image formats (PDF, JPEG, JPEG2000, and georeferenced MrSID) on CD-ROM. [This CD contains no data files.] A PDF of LANDRAP Report 3 is also included.

11.

- ◆ *Map of Wisconsin Showing Geology and Roads*. W.O. Hotchkiss and F.T. Thwaites, 1911. Scale 1:380,160.

12.

- ◆ *A New Geological Map of Wisconsin*. I.A. Lapham, 1869. Scale 1:1,000,000. Full-color.

13.

- ◆ *Geologic Map of Wisconsin*. E.F. Bean, 1928. Scale 1:1,000,000. Full color.

14.

- ◆ *Geologic Map of Wisconsin*. E.F. Bean, 1939. Scale 1:1,000,000. Full color.

15.

- ◆ *Geologic Map of Wisconsin*. E.F. Bean, 1949. Scale 1:1,000,000. Full color.

16.

- ◆ *Geologic Map of Wisconsin*. E.F. Bean, 1949. Reprinted 1959. Scale 1:1,000,000. Full color.

17.

- ◆ *Geologic Map of Wisconsin*. E.F. Bean, 1949. Reprinted 1965. Scale 1:1,000,000. Full color.

18.

- ◉ *Bedrock Geologic Map of Wisconsin*. M.G. Muddrey, Jr., B.A. Brown, and J.K. Greenberg, 1982. Scale 1:1,000,000. Full color. (paper copy); (plastic copy). (See also WGNHS Maps, Digital Information, Geologic/Hydrogeologic Data, item 16.)

NOTE: A generalized version of this map is available as a postcard for each. (See also Page-Size Map 8.)

19.

- ◆ *Wisconsin Glacial Deposits*. F.T. Thwaites, 1960. Scale 1:1,500,000. Two color.

20.

Soils of Wisconsin. Compiled by F.D. Hole, M.T. Beatty, C.J. Milfred, G.B. Lee, and A.J. Klingelhoets, 1968. Differentiates 190 soil groups. Scale 1:710,000. Full color.

21.

- ◆ *Relief Map of Wisconsin*. 1915. Shows rivers, lakes, and elevations of prominent hills in Wisconsin. Scale 1:1,000,000.

22.

State of Wisconsin (shaded relief map). U.S. Geological Survey, 1968. Scale 1:500,000. Three color.

23.

State of Wisconsin (base map). U.S. Geological Survey, 1968. Shows county, township, and range lines, rivers and lakes, cities, towns, and railroads. Does not show topographic contours. Scale 1:1,000,000. 23 by 24 inches. Black and white.

24.

State of Wisconsin (base map). U.S. Geological Survey, 1968. Shows county, township, and range lines, rivers and lakes, cities, towns, and railroads. Does not show topographic contours. Scale 1:500,000. 42 by 46 inches. Full color.

25.

State of Wisconsin (base map). U.S. Geological Survey, 1968. Shows township and range lines, counties, rivers and lakes, cities, towns, railroads, topographic contours (contour interval 200 feet), highways, national forests, wildlife refuges and Indian reservations. Scale 1:500,000. 42 by 46 inches. Full color.

26.

- ◆ *Preliminary Map of Probable Well Yields from Glacial Deposits in Wisconsin*. R.G. Borman, 1971. Scale 1:1,760,000.

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- ◆ Out of print
 - ◉ CD-ROM available separately

-
27. ♦ *Preliminary Map of Probable Well Yields from Bedrock in Wisconsin.* R.G. Borman, 1971. Scale 1:1,760,000.
28. *Landforms of Wisconsin.* Compiled by D.A. Woodward, 1972. With county lines. Scale 1:1,000,000. Three color.
29. *Landforms of Wisconsin.* Compiled by D.A. Woodward, 1972. Without county lines. Scale 1:1,000,000. Three color.
30. *Depth to Bedrock in Wisconsin.* Compiled by L.C. Trotta and R.D. Cotter, 1973. Scale 1:1,000,000. Contour interval 100 feet. Two color.
31. *Bouguer Anomaly Gravity Map of Wisconsin.* Compiled by C.P. Ervin and S. Hammer, 1974. Scale 1:500,000, 2 sheets, with 13-page text. Two color.
32. *Probable Yields of Wells in the Sand-and-Gravel Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
33. *Probable Yields of Wells in the Sandstone Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
34. *Probable Yields of Wells in the Niagara Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
35. *Dissolved-Solids Concentrations of Water in the Sand-and-Gravel Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
36. *Dissolved-Solids Concentrations of Water in the Sandstone Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
37. *Dissolved-Solids Concentrations of Water in the Niagara Aquifer, Wisconsin.* Compiled by R.W. Devaul, 1975. Scale 1:1,000,000. Two color.
- NOTE:* Maps 32, 33, 34, 35, 36, and 37 may be purchased as a set for .
38. *Photo-Mosaic Soil Map of Wisconsin.* Compiled by F.D. Hole, 1977. Scale 1:1,000,000. Two color.
39. *Map of the Original Vegetation Cover of Wisconsin.* R.W. Finley, 1976. Scale 1:500,000. Full color. Folded copy.
40. *Landscapes of Wisconsin.* 2001. Scale 1:500,000. Full color. 42 x 42 inches.
NOTE: A generalized version of this map is available as a postcard for each. (See also Page-Size Map 22.)

DISCONTINUED WGNHS SERIES

ANNUAL REPORTS (1854-80)

1.
 - ◆ *First Annual Report on the Geological Survey of the State of Wisconsin*. E. Daniels, 1854, 84 p., with map.
2.
 - ◆ *Annual Report on the Geological Survey of the State of Wisconsin*. J.G. Percival, 1855, 101 p., with map.
3.
 - ◆ *Annual Report of the Geological Survey of the State of Wisconsin*. J.G. Percival, 1856, 111 p.
4.
 - ◆ *Annual Report of the Geological Survey of the State of Wisconsin*. E. Daniels, 1858, 62 p.
5.
 - ◆ *Report on the Geological Survey of the Lead Regions*. J. Murrish, 1872, 65 p.
6.
 - ◆ *Annual Report on the Geological Survey of the Mineral Regions, 1872-1873*. J. Murrish, 1873, 26 p.
7.
 - ◆ *Annual Report of the Wisconsin Geological Survey for the Year 1877*. T.C. Chamberlin, 1878, 93 p.
8.
 - ◆ *Annual Report of the Wisconsin Geological Survey for the Year 1878*. T.C. Chamberlin, 1878, 51 p.
9.
 - ◆ *Annual Report of the Wisconsin Geological Survey for the Year 1879*. T.C. Chamberlin, 1880, 72 p.

BIENNIAL REPORTS (1898-1985)

1.
 - ◆ *First Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1898, 31 p.
2.
 - ◆ *Second Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1901, 44 p.

3.
 - ◆ *Third Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1902, 35 p.
4.
 - ◆ *Fourth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1904, 42 p.
5.
 - ◆ *Fifth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1906, 45 p.
6.
 - ◆ *Sixth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1908, 45 p.
7.
 - ◆ *Seventh Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1910, 55 p.
8.
 - ◆ *Eighth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1912, 39 p.
9.
 - ◆ *Ninth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1914, 40 p.
10.
 - ◆ *Tenth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1916, 42 p.
11.
 - ◆ *Eleventh Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1918, 40 p.
12.
 - ◆ *Twelfth Biennial Report of the Commissioners of the Geological and Natural History Survey*. 1920, 37 p.

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13.
 - ◆ *Thirteenth Biennial Report of the Commissioners of the Geological and Natural History Survey.* 1922, 37 p.
 14.
 - ◆ *Fourteenth Biennial Report of the Commissioners of the Geological and Natural History Survey.* 1924, 44 p.
 15.
 - ◆ *Fifteenth Biennial Report of the Commissioners of the Geological and Natural History Survey.* 1926, 44 p.
 16.
 - ◆ *Sixteenth Biennial Report of the Commissioners of the Geological and Natural History Survey.* 1928, 49 p.
 17.
 - ◆ *Seventeenth Biennial Report of the Commissioners of the Geological and Natural History Survey.* 1930, 48 p.
 18.
 - ◆ *Eighteenth Biennial Report of the Geological and Natural History Survey.* 1832, 41 p.
 19.
 - ◆ *Nineteenth Biennial Report of the Geological and Natural History Survey.* 1935, 39 p.
 20.
 - ◆ *Twentieth Biennial Report of the Geological and Natural History Survey.* 1937, 40 p.
 21.
 - ◆ *Twenty-First Biennial Report of the Geological and Natural History Survey.* 1938, 40 p.
 22.
 - ◆ *Twenty-Second Biennial Report of the Geological and Natural History Survey.* 1940, 39 p.
 23.
 - ◆ *Twenty-Third Biennial Report of the Geological and Natural History Survey.* 1942, 39 p.
 24.
 - ◆ *Twenty-Fourth Biennial Report of the Geological and Natural History Survey.* 1944, 41 p.

25.
 - ◆ *Twenty-Fifth Biennial Report of the Geological and Natural History Survey.* 1947, 39 p.
26.
 - ◆ *Programs and Activities, Geological and Natural History Survey, 1978.* 1979, 52 p.
27.
 - ◆ *Programs and Activities, Geological and Natural History Survey, 1979-1980.* 1981, 44 p.
28.
 - ◆ *Programs and Activities, Geological and Natural History Survey, 1981-1982.* 1983, 44 p.
29.
 - ◆ *Programs and Activities, Geological and Natural History Survey, 1983-1984.* 1985, 44 p.

COUNTY TOPOGRAPHIC MAP SERIES (1926-33)

1.
 - ◆ *Buffalo County Topographic Map.* 1932. Scale 1:62,500.
2.
 - ◆ *Crawford County Topographic Map.* 1933. Scale 1:62,500.
3.
 - ◆ *Green County Topographic Map.* 1926. Scale 1:62,500.
4.
 - ◆ *La Crosse County Topographic Map.* 1931. Scale 1:62,500.
5.
 - ◆ *Trempealeau County Topographic Map.* 1929. Scale 1:62,500.
6.
 - ◆ *Vernon County Topographic Map.* 1928. Scale 1:62,500.

EARLY SURVEY REPORTS (1849-83)

Note: The first four volumes of the *Geology of Wisconsin* (but not the atlases) are available online at <libtext.library.wisc.edu/cgi-bin/EcoNatRes/EcoNatRes-idx?type=browse&scope=ECONATRES.GEOLOGYWI>.

1.

- ◆ *Geology of Wisconsin*. Survey of 1873-1879, Volume I. T.C. Chamberlin, 1883, 725 p.

1A.

- ◆ *Atlas accompanying Volumes I and IV, Geological Survey of Wisconsin*. T.C. Chamberlin, R.D. Irving, J.E. Davies, and J. Wilson, Jr., 1882. Includes 5 multicolor state maps (scale 1 inch = 15 miles), 10 large-scale maps showing ore-bearing crevices in the lead-zinc district, and 2 triangulation maps by the U.S. Geodetic Survey.

2.

- ◆ *Geology of Wisconsin*. Survey of 1873-1877, Volume II (first edition). T.C. Chamberlin, 1877, 768 p.
- ◆ *Geology of Wisconsin*. Survey of 1873-1877, Volume II (second edition, revised). T.C. Chamberlin, 1878, 768 p.

2A.

- ◆ *Atlas accompanying Volume II*. Geological Survey of Wisconsin. T.C. Chamberlin, R.D. Irving, and M. Strong, 1877, 14 plates.

3.

- ◆ *Geology of Wisconsin*. Survey of 1873-1879, Volume III. T.C. Chamberlin, 1880, 763 p.

3A.

- ◆ *Atlas accompanying Volume III*. Geological Survey of Wisconsin. T.C. Chamberlin, R.D. Irving, M. Strong, T.B. Brooks, C.E. Wright, and E.T. Sweet, 1849, 14 plates.

4.

- ◆ *Geology of Wisconsin*. Survey of 1873-1879, Volume IV. T.C. Chamberlin, 1882, 779 p.

NOTE: See Early Survey Report 1A.

5.

- ◆ *Report on the Geological Survey of the State of Wisconsin, Volume I*. J. Hall and J.D. Whitney, 1862, 455 p., with maps.

ROAD PAMPHLETS (1907-09)

This series was discontinued with the formation of the State Highway Commission in 1911.

1.

- ◆ *Earth Roads* (first edition). A.R. Hirst, 1907, 26 p.
- ◆ *Earth Roads* (second edition). A.R. Hirst, 1909, 29 p.

2.

- ◆ *The Earth Road Drag* (first edition). A.R. Hirst, 1907, 16 p.
- ◆ *The Earth Road Drag* (second edition). A.R. Hirst, 1909, 17 p.

3.

- ◆ *Stone and Gravel Roads* (first edition). A.R. Hirst, 1907, 27 p.
- ◆ *Stone and Gravel Roads* (second edition). A.R. Hirst, 1909, 35 p.

4.

- ◆ *Culverts and Bridges* (first edition). A.R. Hirst, 1907, 47 p.
- ◆ *Culverts and Bridges* (second edition). A.R. Hirst and M.W. Torkelson, 1909, 58 p.

5.

- ◆ *First Biennial Report of the Highway Division*. W.O. Hotchkiss, 1909, 94 p.

WATER CONDITIONS PAMPHLETS (1967-71)

These pamphlets about water conditions in Wisconsin were prepared by the Wisconsin Geological and Natural History Survey in cooperation with the U.S. Geological Survey.

1.

- ◆ *Water Conditions in Wisconsin, January 1–June 30, 1967*. P.G. Olcott and F.C. Dreher, 1967, 4 p. pamphlet.

2.

- ◆ *Water Conditions in Wisconsin, July 1–December 31, 1967*. P.G. Olcott and F.C. Dreher, 1968, 4 p. pamphlet.

3.

- ◆ *Water Conditions in Wisconsin, January 1–June 30, 1968*. P.G. Olcott and F.C. Dreher, 1968, 4 p. pamphlet.

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4. ♦ *Water Conditions in Wisconsin, June 30–December 31, 1968.* P.G. Olcott and F.C. Dreher, 1969, 4 p. pamphlet.
 5. ♦ *Water Conditions in Wisconsin, January 1–June 30, 1969.* P.G. Olcott and F.C. Dreher, 1969, 4 p. pamphlet.
 6. ♦ *Water Conditions in Wisconsin, July 1–December 31, 1969.* P.G. Olcott and F.C. Dreher, 1970, 4 p. pamphlet.
 7. ♦ *Water Conditions in Wisconsin, January 1–June 30, 1970.* P.G. Olcott and F.C. Dreher, 1970, 4 p. pamphlet.
 8. ♦ *Water Conditions in Wisconsin, July 1–December 31, 1970.* P.G. Olcott and F.C. Dreher, 1971, 4 p. pamphlet.
 9. ♦ *Water Conditions in Wisconsin, January 1–June 30, 1971.* P.G. Olcott and F.C. Dreher, 1971, 4 p. pamphlet.
 10. ♦ *Water Conditions in Wisconsin, July 1–December 31, 1971.* P.G. Olcott and F.C. Dreher, 1972, 4 p. pamphlet.

PUBLICATIONS PREPARED IN COOPERATION WITH FEDERAL AND STATE AGENCIES

The following publications have been prepared in cooperation with the WGNHS and are offered for sale even though they have been published by other agencies. This list contains only those publications that are available from the WGNHS; it should not be construed as a complete listing.

U.S. ENVIRONMENTAL PROTECTION AGENCY

1. *Delineation of Wellhead Protection Areas in Fractured Rocks*. 1991. Walk-in customers, .
2. *Wellhead Protection Strategies for Confined-Aquifer Settings*. 1991. Walk-in customers, .

U.S. FOREST SERVICE

1. *Chequamegon–Nicolet National Forest*. 2000. Scale 1:126,720. Detailed maps of forest lands on U.S. Geological Survey base, showing roads, trails, campgrounds, and other information of interest to recreationalists.

U.S. GEOLOGICAL SURVEY

The following selected publications of the U.S. Geological Survey are offered for sale. They have been prepared as a result of cooperative studies with the WGNHS. Items may also be ordered from:

U.S. Geological Survey
Information Services
Federal Center
Box 25286
Denver, Colorado 80225

telephone: 888/275.8747
web site: www.usgs.gov
email: ask@usgs.gov

Bulletins

- 1015-G.
Zinc-Lead-Copper Resources and General Geology of the Upper Mississippi Valley District. A.V. Heyl, Jr., E.J. Lyons, A.F. Agnew, and C.H. Behre, Jr., 1955, p. 227-245, with geologic maps.
- 1042-B.
Airborne and Ground Reconnaissance of Part of the Syenite Complex near Wausau, Wisconsin. R.C. Vickers, 1956, 44 p. Published by the U.S. Geological Survey on behalf of the U.S. Atomic Energy Commission.
- 1123-B.
Geology of the Montfort and Linden Quadrangles, Wisconsin. J.E. Carlton, 1961, 138 p., with geologic maps (scale 1:24,000).
- 1123-E.
Geology of the Platteville Quadrangle, Wisconsin. A.F. Agnew, 1963, p. 245-277, with maps.
- 1123-F.
Geology of the Rewey and Mifflin Quadrangles, Wisconsin. A.R. Taylor, 1964, p. 279-360, with geologic maps (scale 1:24,000).
- 1123-G.
Geology of the Belmont and Calamine Quadrangles, Wisconsin. H. Klemic and W.S. West, 1964, p. 361-435, with geologic maps (scale 1:24,000).
- 1123-I.
Geology of the Potosi Quadrangle, Grant County, Wisconsin, and Dubuque County, Iowa. J.W. Whitlow and W.S. West, 1966, p. 533-571, with geologic map, and mine workings map (scale 1:24,000).
- 1242-A.
Aeromagnetic and Tectonic Analysis of the Upper Mississippi Valley Zinc-Lead District. A.V. Heyl and E.R. King, 1966, 16 p., with aeromagnetic and tectonic maps (scale 1:62,500).

Circulars

769.

A Theoretical Basis for Exploration for Native Copper in Northern Wisconsin. W.S. White, 1978, 19 p.

842.

The Potential for Diamond-Bearing Kimberlite in Northern Michigan and Wisconsin. W.F. Cannon and M.G. Mudrey, Jr., 1981, 15 p.

887.

Mineral Resource Assessment of the Iron River 1° x 2° Quadrangle, Michigan and Wisconsin. W.F. Cannon, 1983, 21 p.

Geophysical Investigations

GP-579

Aeromagnetic Map of Parts of the Thomaston, Carp River North Ironwood and Little Girls Point Quadrangles, Gogebic and Ontonagon Counties, Michigan and Iron County, Wisconsin. P.W. Philbin and J.L. Vargo, 1966, 1 sheet. Scale 1:62,500.

GP-828

Aeromagnetic Map of Central Gogebic County, Michigan, and Northern Vilas County, Wisconsin. Prepared in cooperation with the Michigan Department of Natural Resources, 1972, 1 sheet. Scale 1:62,500.

Hydrologic Atlases

This series uses colored maps, figures, and diagrams to show the hydrologic systems in the major river basins of the state. Subjects include the general physical setting, the availability and natural quality of groundwater and surface water, stream flows, water use, and other hydrologic information.

HA-321.

Water Resources of Wisconsin, Fox-Wolf River Basin. P.G. Olcott, 1968, 4 sheets.

HA-360.

Water Resources of Wisconsin, Rock-Fox River Basin. R.D. Cotter, R.D. Hutchinson, E.L. Skinner, and D.A. Wentz, 1969, 4 sheets.

NOTE: HA-321 and HA-360 are out of print; because of the demand for these items, we have scanned the plates and are now offering full-size color plots as a replacement for the printed version.

HA-367.

Water Resources of Wisconsin, Central Wisconsin River Basin. R. Devaul and J.H. Green, 1971, 4 sheets.

HA-386.

Water Resources of Wisconsin, Chippewa River Basin. H.L. Young and S.M. Hindall, 1972, 4 sheets.

HA-390

Low-Flow Frequency of Wisconsin Streams. Warren A. Gebert, in cooperation with the Wisconsin Department of Natural Resources, 1971, 1 sheet. Scale 1:750,000.

HA-432.

Water Resources of Wisconsin, Lake Michigan Basin. E.L. Skinner and R.G. Borman, 1973, 4 sheets.

HA-451.

Water Resources of Wisconsin, St. Croix River Basin. H.L. Young and S.M. Hindall, 1973, 4 sheets.

HA-453.

Water Resources of Wisconsin, Pecatonica-Sugar River Basin. S.M. Hindall and E.L. Skinner, 1973, 3 sheets.

HA-470.

Water Resources of Wisconsin, Menominee-Oconto-Peshigo River Basin. E.L. Oakes and L.G. Hamilton, 1973, 4 sheets.

HA-474.

Water Resources of Wisconsin, Trempealeau-Black River Basin. H.L. Young and R.G. Borman, 1973, 4 sheets.

HA-479.

Water Resources of Wisconsin, Lower Wisconsin River Basin. S.M. Hindall and R.G. Borman, 1974, 3 sheets.

HA-524.

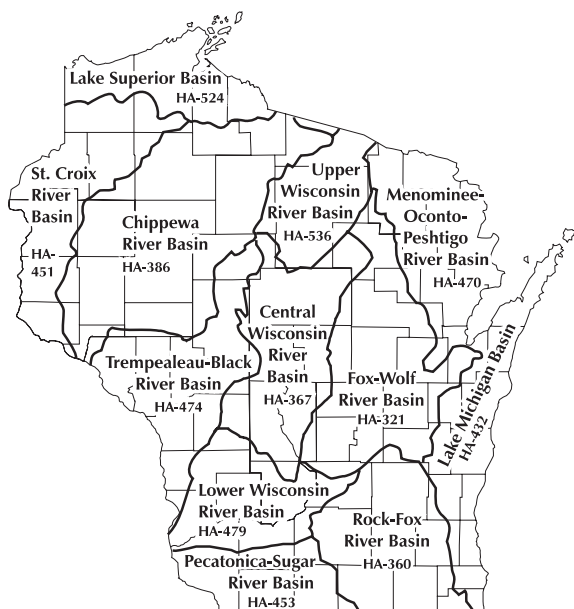
Water Resources of Wisconsin, Lake Superior Basin. H.L. Young and E.L. Skinner, 1974, 3 sheets.

HA-536.

Water Resources of Wisconsin, Upper Wisconsin River Basin. E.L. Oakes and R.D. Cotter, 1975, 3 sheets.

HA-653

Flood of July 1–5, 1978 on the Kickapoo River,



River Basin Reports (in Hydrologic Atlas series)

Southwestern Wisconsin. P.E. Hughes, J.S. Hanuksela, and W.J. Danchuk, in cooperation with the Wisconsin Department of Natural Resources, 1981, 7 sheets.

HA-731

Geology, Ground-Water Flow, and Dissolved-Solids Concentrations in Ground Water along Hydrogeologic Sections through Wisconsin Aquifers. P.A. Kammerer, L.C. Trotta, D.P. Krabbenhoff, R.A. Lidwin, 1998, 4 sheets.

Hydrologic Unit Map

HU-1974

Hydrologic Unit Map—1974: State of Wisconsin. Scale 1:500,000.

Mineral Investigation Field Studies Maps

MF-3.

Geologic Structure Map of the Beetown Lead-Zinc Area, Grant County, Wisconsin. A.V. Heyl, Jr., I.J. Lyons [sic], and J.J. Theiler, 1952. Scale 1:12,000.

MF-15.

Geology and Zinc-Lead-Barite Deposits in the

Area East of Cuba City, Wisconsin. A.F. Agnew, A.E. Flint, and R.P. Crumpton, 1954. Scale 1:12,000.

MF-40.

Zinc and Lead Deposits of the Sinsinawa River Area, Grant County, Wisconsin. J.W. Allingham, A.E. Flint, and A.F. Agnew, 1955. Scale 1:12,000.

MF-1835-A.

Map Showing Availability of Data for Selected Deep Drill Holes in the Northern Midcontinent, USA. Compiled by Douglas N. Mugel, 1986. Scale 1:1,000,000.

MF-1835-B.

Equivalent Freshwater Head and Dissolved-Solids Concentration of Water in Rocks of Cambrian, Ordovician, and Mississippian Age in the Northern Midcontinent, USA. Compiled by D.G. Jorgensen, J.O. Helgesen, R.B. Leonard, and D.C. Signor, 1986. Scale 1:1,000,000.

MF-1835-D.

Isopach and Lithofacies Map of the Sauk Sequence (excluding basal clastics) in the Northern Midcontinent, USA. Compiled by Walden P. Pratt, 1987. Scale 1:1,000,000.

MF-1835-E.

Phanerozoic Structural Features in the Northern Midcontinent, USA. Compiled by Raymond R. Anderson, 1988. Scale 1:2,500,000.

MF-1835-F.

Map Showing Distribution of Alkaline Igneous Rocks and Associated Carbonatites and Peridotites in the Northern Midcontinent, USA. Compiled by F.A. Hills, R.W. Scott, Jr., T.J. Armbrustmacher, and P. Berendsen, 1991. Scale 1:1,000,000.

MF-1835-G.

Lithologic Cross Sections of Phanerozoic Rocks in the Northern Midcontinent, USA. Compiled by D.N. Mugel and W.P. Pratt, 1991. Scale 1:1,000,000.

MF-1835-H.

Maps Showing Areal Extent of Selected Paleozoic Shales in the Northern Midcontinent, USA. Compiled by Walden P. Pratt, 1992. Scale 1:1,000,000. 7 sheets.

Miscellaneous Investigation Series

I-466.

Map Showing Precambrian Geology of the Menominee Iron-Bearing District and Vicinity, Michigan and Wisconsin. C.E. Dutton and R.E. Linebaugh, 1967. Scale 1:125,000.

I-631.

Lithologic, Geophysical, and Mineral Commodity Maps of Precambrian Rocks in Wisconsin. C.E. Dutton and R.E. Bradley, 1970. 6 sheets. Scales 1:500,000 and 1:1,000,000.

I-1360-A.

Mineral-Resources Map of the Iron River 1° x 2° Quadrangle, Michigan and Wisconsin. W.F. Cannon, 1985. Scale 1:250,000.

I-1360-B.

Bedrock Geologic Map of the Iron River 1° x 2° Quadrangle, Michigan and Wisconsin. W.F. Cannon, 1986. Scale 1:250,000.

I-1360-C.

Surficial Geologic Map of the Iron River 1° x 2° Quadrangle, Michigan and Wisconsin. Warren L. Peterson, 1985. Scale 1:250,000.

I-1360-E.

Bouguer Gravity Anomaly Map and Geologic Interpretation of the Iron River 1° x 2° Quadrangle, Michigan and Wisconsin. J.S. Klasner and W.J. Jones, 1989. Scale 1:250,000.

I-1360-N

Interpretive Geochemical Map of the Iron River 1 x 2° quadrangle, Michigan and Wisconsin. H.V. Alminas, J.D. Hoffman, and R.T. Hopkins, 1984. Scale 1:250,000. 2 sheets. Full color.

Maps I-1420 (NK and NL 15 and 16) are a part of the U.S. Geological Survey Quaternary Geological Atlas of the United States. All were edited and integrated by G.M. Richmond and D.S. Fullerton. Scale 1:1,000,000.

I-1420 (NK-15).

Quaternary Geologic Map of the Des Moines 4° x 6° Quadrangle. U.S. sheet, 36 x 44 inches.

I-1420 (NK-16).

Quaternary Geologic Map of the Chicago 4° by 6° Quadrangle, U.S. Sheet, 29 x 54 inches.

I-1420 (NL-15).

Quaternary Geologic Map of the Minneapolis 4° by 6° Quadrangle, U.S. Sheet, 29 x 46 inches.

I-1420 (NL-16).

Quaternary Geologic Map of the Lake Superior 4° by 6° Quadrangle, U.S. Sheet, 29 x 41 inches.

I-1903.

Geologic Map of Proterozoic Rocks Near Mountain, Oconto County, Wisconsin. P.K. Sims, 1989. Scale 1:24,000.

I-1924.

Geologic Map of Precambrian Rocks of Rice Lake 1° x 2° Quadrangle, northern Wisconsin. Compiled by P.K. Sims, 1989. Scale 1:250,000.

I-1925.

Geologic Map of Precambrian Rocks of Eau Claire and Green Bay 1° x 2° Quadrangles, Central Wisconsin. Compiled by P.K. Sims, 1990. Scale 1:250,000.

I-1926.

Geologic Map of Precambrian Rocks of Neillsville-Stevens Point area, Central Wisconsin. Compiled by P.K. Sims, 1990. Scale 1:250,000.

I-2185.

Geologic Map of Precambrian Rocks, Southern Lake Superior Region, Wisconsin and Northern Michigan. Compiled by P.K. Sims, 1992. Scale: 1:500,000.

I-2356.

Geologic Map of Precambrian Rocks of Parts of Iron Mountain and Escanaba 30 x 60 Minute Quadrangles, Northeastern Wisconsin and Adjacent Michigan. P.K. Sims and K. Schulz, 1993. Scale: 1:100,000.

I-2566.

Bedrock Geologic Map of the Ashland and the Northern Part of the Ironwood 30 x 60 Minute Quadrangles, Wisconsin and Michigan. W.F. Cannon, L.G. Woodruff, S.W. Nicholson, and C.A. Hedgman, 1996. Scale 1:100,000.

Open-File Reports

03-147.

Wisconsin Potential Field Grids, Derivative Maps, and Tectonic Interpretations. D.L. Daniels, S.L. Snyder, D.W. Geister, C.P. Ervin, M.G. Mudrey, Jr., W.F. Cannon, and C.L. Dicken, 2003, 1 CD-ROM.

03-157.

Principal Facts for Gravity Data Collected in Wisconsin: A Web Site and CD-ROM for Distribution of Data. S.L. Snyder, D.W. Geister, D.L. Daniels, and C.P. Ervin, 2004, 1 CD-ROM.

Professional Papers

274-K.

Stratigraphy of Middle Ordovician Rocks in the Zinc-Lead District of Wisconsin, Illinois, and Iowa. A.F. Agnew, A.V. Heyl, Jr., C.H. Behre, Jr., and E.J. Lyons, 1956, p. 251-312.

633.

Geology of the Florence Area, Wisconsin and Michigan. C.E. Dutton, 1971, 54 p., with geologic, magnetic, and aeromagnetic maps. Scale 1:24,000.

Quadrangle Maps

This series of maps includes the U.S. Geological Survey topographic maps and maps using them as a base. In general, quadrangle maps in this series cover 7.5 x 7.5 minutes, 30 minutes x 1 degree, and 1 x 2 degrees of latitude and longitude, at scales of 1:24,000, 1:100,000 (metric), and 1:250,000, respectively.

Geologic Quadrangle Maps

GQ-487.

Geologic Map of the Kieler Quadrangle, Grant County, Wisconsin, and Jo Daviess County, Illinois. J.W. Whitlow and W.S. West, 1966.

GQ-488.

Geologic Map of the Dickeyville Quadrangle, Grant County, Wisconsin. J.W. Whitlow and W.S. West, 1966.

GQ-949.

Geologic Map of the Lancaster Quadrangle, Grant County, Wisconsin. W.S. West and P.M. Blacet, 1971.

GQ-959.

Geologic Map of the Ellenboro Quadrangle, Grant County, Wisconsin. W.S. West, J.W. Whitlow, C.E. Brown, and A.V. Heyl, Jr., 1971.

GQ-1582.

Geologic Map of the Hurricane Quadrangle, Grant County, Wisconsin. Walter S. West and Allen Heyle, 1985.

Topographic Maps

Topographic maps use contours to show relief; these maps also show surface features such as rivers, marshes, roads, trails, and buildings.

Maps are available from the Map and Publication Sales office for per quadrangle for 7.5-minute (scale 1:24,000) and for 30-minute x 1 degree (metric) and 1 x 2 degree quadrangles.

County topographic maps (scale 1:100,000) are also available from the Map and Publication Sales office for .

For a CD-ROM version of U.S. Geological Survey topographic maps, please see "Publications by Other Organizations," Other Contributions, item 44.

The U.S. Geological Survey publication Wisconsin: Index to topographic and other map coverage shows the quadrangles currently available; it can be obtained free upon request from the Map and Publication Sales office.

Water-Resources Investigations Report

03-4154.

Numerical Simulation of Ground-Water Flow in La Crosse County, Wisconsin, and into Nearby Pools of the Mississippi River. R.J. Hunt, D.A. Saad, and D.M. Chapel.

Water-Supply Papers

1190.

Ground-Water Conditions in Artesian Aquifers in Brown County, Wisconsin. W.J. Drescher, 1953, 49 p., with seven water-information maps.

1421.

Geology and Ground-Water Resources of Outagamie County, Wisconsin. E.F. LeRoux, 1957, 57 p., with maps.

1604.

Geology and Ground-Water Resources of Fond du Lac County, Wisconsin. T.G. Newport, 1962, 52 p., with maps.

- 1669-C.
Hydrology of Upper Black Earth Creek Basin, Wisconsin. D.R. Cline. With a section on surface water by M.W. Busby, 1963, 27 p., with maps (scale 1:62,500).
- 1669-J.
Ground-Water Conditions in the Green Bay Area, Wisconsin, 1950-60. D.B. Knowles, 1964, 37 p., with maps (scale 1:62,500).
- 1809-B.
Geology and Ground-Water Resources of Waushara County, Wisconsin. W.K. Summers, 1965, 32 p., with geologic, bedrock surface, and water-table maps (scale 1:62,500).
1814.
Geology and Water Resources of Winnebago County, Wisconsin. P.G. Olcott, 1966, 61 p., with topography and bedrock geology maps (scale 1:62,500).
1878.
Water Resources of Racine and Kenosha Counties, Southeastern Wisconsin. R.D. Hutchinson, 1970, 63 p., with aquifer systems, bedrock geology, and hydrogeologic maps (scale 1:125,000 and 1:250,000).
- 1999-I.
Water for Cranberry Culture in the Cranmoor Area of Central Wisconsin. L.J. Hamilton, 1971, 20 p., with hydrogeologic maps (scale 1:62,500).
2006.
The Pine-Popple River Basin—Hydrology of a Wild River Area, Northeastern Wisconsin. E. Oakes, S.J. Field, and L.P. Seeger, 1973, 57 p., with geohydrologic and geologic maps (scale 1:125,000).
2022.
Water Availability in Central Wisconsin—An Area of Near-Surface Crystalline Rock. E.A. Bell and M.G. Sherrill, 1974, 32 p., with water table, geologic information, and bedrock information maps (scales 1:125,000 and 1:48,000).
2047.
Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite. M.G. Sherrill, 1978, 38 p., with bedrock topography, geology, and water-table maps (scale 1:125,000).

U.S. BUREAU OF MINES Mineral Industry of Wisconsin

2.
The Mineral Industry of Wisconsin. R.C. Briggs and M.E. Ostrom. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1975, 16 p.
3.
The Mineral Industry of Wisconsin. R.C. Briggs and M.E. Ostrom. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1976, 18 p.
4.
The Mineral Industry of Wisconsin. J.L. Reuss, P. LaTour, and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1977, 13 p.
5.
The Mineral Industry of Wisconsin. J.J. Hill and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1978-79, 13 p.
6.
The Mineral Industry of Wisconsin. J.J. Hill and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1980, 14 p.
7.
The Mineral Industry of Wisconsin. J.J. Hill and Thomas J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1981, 13 p.
8.
The Mineral Industry of Wisconsin. J.J. Hill and Thomas J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1982, 11 p.

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9. *Minerals in the Economy of Wisconsin*. J.L. Reuss and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of Interior in cooperation with the Wisconsin Geological and Natural History Survey, 1979, 16 p.
10. *The Mineral Industry of Wisconsin*. J.J. Hill, T.J. Evans, and W.J. West. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1983, 14 p.
11. *The Mineral Industry of Wisconsin*. J.J. Hill, T.J. Evans, and W.J. West. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1984, 13 p.
12. *The Mineral Industry of Wisconsin*. J.J. Hill, T.J. Evans, and W.J. West. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1985, 14 p.
13. *The Mineral Industry of Wisconsin*. J.J. Hill, T.J. Evans, and W.J. West. Prepared by the Bureau of Mines, U.S. Department of Interior, and the Wisconsin Geological and Natural History Survey. Preprint from Bureau of Mines, Minerals Yearbook, 1986, 10 p.
14. *The Mineral Industry of Wisconsin*. J.J. Hill and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of the Interior, and the Wisconsin Geological and Natural History Survey. From the Bureau of Mines, Minerals Yearbook, 1988, 9 p.
15. *The Mineral Industry of Wisconsin*. L.E. Esparza and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of the Interior, and the Wisconsin Geological and Natural History Survey. From the Bureau of Mines, Minerals Yearbook, 1989, 9 p.
16. *The Mineral Industry of Wisconsin*. J.H. Aase and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of the Interior, and the Wisconsin Geological and Natural History Survey. From the Bureau of Mines, Annual Report, 1990, 9 p.
17. *The Mineral Industry of Wisconsin*. R.H. Wood, II, and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of the Interior, and the Wisconsin Geological and Natural History Survey. From the Bureau of Mines, Annual Report, 1991, 9 p.
18. *The Mineral Industry of Wisconsin in 1992*. R.H. Wood, II, and T.J. Evans. Prepared by the Bureau of Mines, U.S. Department of the Interior, and the Wisconsin Geological and Natural History Survey. From the Bureau of Mines, Minerals Industry Surveys, 1992, 3 p.
19. *Mineral Industry Surveys: The Mineral Industry of Wisconsin in 1993*. R.H. Wood, II, 1994, 4 p.
- WISCONSIN DEPARTMENT OF ADMINISTRATION**
- LANDRAP Maps***
4. *Major Public Open Space*. Compiled by Office of State Planning and Energy, 1974. Scale 1:500,000. Full color.
5. *Lands of Special Public Policy Designation*. Compiled by Office of State Planning and Energy, 1974. Scale 1:500,000. Full color.
10. *Glacial Deposits of Wisconsin: Sand and Gravel Resource Potential*. Compiled by D.W. Hadley and J.H. Pelham, 1976. Scale 1:500,000. Full color.
- LANDRAP Reports***
3. *Glacial Deposits of Wisconsin: Sand and Gravel Resource Potential*. D.W. Hadley, 1976, 19 p. To be used with LANDRAP Map 10 (see WGNHS Maps, State Map 10).

* Only those publications currently in stock are listed

PUBLICATIONS BY OTHER ORGANIZATIONS

NATURAL HISTORY COUNCIL*

The following are publications of the Natural History Council, University of Wisconsin–Madison.

1. *Distribution, Ecology and Taxonomy of Recent Freshwater Ostracoda of Lake Mendota, Wisconsin*. J.A. Kitchell and D.L. Clark, 1979, 24 p.
2. *Aquatic Insects of Wisconsin: Keys to Wisconsin Genera and Notes on Biology, Distribution and Species*. W.L. Hilsenhoff [1981?], 60 p. (Photocopy.)

OTHER CONTRIBUTIONS*

3. *Soils of the North Central Region of the United States*. Agricultural Experiment Station, University of Wisconsin, Madison, 1960, 192 p., with soil map (scale 1:2,500,000).
5. *41st Annual Tri-State Field Conference*. Edited by K.G. Nelson, 1977, 151 p. University of Wisconsin–Milwaukee, Department of Geological Sciences. With field trips showing the Silurian and Devonian stratigraphy of southeastern Wisconsin, Pleistocene geology of southeastern Wisconsin, the Neda Formation, and Milwaukee County environmental concerns.
7. **Various prices**
Groundwater and Land Use in Water Cycle. Poster, 24 x 37 inches, ; 11 x 17 inches, . Wisconsin Geological and Natural History Survey and Department of Natural Resources.
9. *[Map of] Groundwater Contamination Susceptibility in Wisconsin*. Department of Natural Resources and Wisconsin Geological and Natural History Survey, 1987. Scale 1:1,000,000. Full color. (See also Page-Size Map 19.)
21. *Groundwater—Protecting Wisconsin's Buried Treasure*. Supplement to Wisconsin Natural Resources Magazine, 1999, 32 p.
35. *The Central Sands Geographic Information Project: Managing an Invisible Resource with GIS*. M.F. Bohn and T.M Prescott. Walk-in customers, .
37. *Glacial Lake Wisconsin*. Lee Clayton and John Attig, 1989, 80 p. Hard cover. Geological Society of America Memoir 173.
38. *Hiking Field Trip Guide for Glacial Landforms in the Chippewa Moraine Ice Age National Scientific Reserve, Wisconsin*. K.M. Syverson, P. Bement, H. Bohl, T. Hogue, K. Johnson, M. Koeppe Yarrington, G. Michael, C. Schmidt, S. Toshner, and E. Wieland, 1994. Compiled for University of Wisconsin–Eau Claire Geology 345 class project. 2 p.
39. *Guide to Field Trips in Wisconsin and Adjacent Areas of Minnesota*. 31st Annual meeting of the North-Central Geological Society of America Madison, Wisconsin, 1997. Field trip coordinator, M.G. Mudrey, Jr., 114 p.
40. *Wisconsin Mineral Locality Index*. William S. Cordua, 1998. In *Rocks & Minerals* magazine, November/December 1998, v. 73, no. 6. Full-color magazine.
41. *Wisconsin Land Cover Map*. Interpreted from satellite imagery, 1999. Developed by Wisconsin Initiative for Statewide Cooperation on Landscape Analysis and Data (WISCLAND). Shows the patterns and features of Wisconsin's landscape. Size: 42 x 49 in. Scale 1:500,000. Full color.
42. *Penokean Deformation in Central Wisconsin: Volcanic Rocks and Gneisses: Fieldtrip Guidebook prepared for the 32nd Annual Meeting of the ILSG, April 28–May 4, 1986, Wisconsin Rapids, Wisconsin*. R.S. Maass, 1986, 58 p.
43. *Association of American State Geologists: Guide to Field Trips, June 11 and 13, 1990 Annual Meeting, Madison, Wisconsin*. 1990, 47 p.

* Only those publications currently in stock are listed

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44. *Wisconsin: Seamless U.S. Geological Survey Topographic Maps on CD-ROM*. National Geographic Society, 2001. Complete full-state coverage, including general reference map, National Atlas series, 1:500,000, 1:100,000, and 1:24,000 map series. GPS ready. Four CD-ROMs.
45. *Roadside Geology of Wisconsin*. R.H. Dott, Jr., and J.W. Attig, 2004. Guide to the geology of the state, emphasizing what can be seen or readily accessed from state highways. 346 p.
46. *Wisconsin's Foundations: A Review of the State's Geology and its Influence on Geography and Human Activity*, Gwen Schultz, 2004, 211 p. University of Wisconsin Press.
47. *Minnesota Fossils and Fossiliferous Rocks*, Robert E. Sloan, 2005, 218 p.

INDEX

ABBREVIATIONS

Bib & Index = WGNHS Bibliographies and Indexes
Educ Series = WGNHS Educational Series
FTGB = WGNHS Field Trip Guide Book
Geo Wis = WGNHS Geoscience Wisconsin
Info Circ = WGNHS Information Circular
Misc Map = WGNHS Miscellaneous Map
Misc Paper = WGNHS Miscellaneous Paper
Spec Report = WGNHS Special Report
US EPA = U.S. Environmental Protection Agency
USGS Bull = USGS Bulletin
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