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The Office of Geological Survey (OGS) has been gathering and disseminating information about Michigan's non-renewable geologic resources since 1837.

Much of the published materials about Michigan geology are out-of-print or difficult to access.

This document is the result of an effort to make geologic information from agency publications available on the web. This is an ongoing project.

The digital files are in Adobe PDF format. Files are based on either text or image files. Text files are presented in a consistent format with a table of contents and bookmarks as well as text searching. Image files are graphic based files which are not computer searchable.

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Interpretation and evaluation of the usefulness, accuracy and/or correlation with contemporary scientific doctrine is the responsibility of the reader.

If you have any comments, changes, corrections, additions, contributions, ideas, or suggestions please contact: Steve Wilson at > wilsons15@michigan.gov

A special acknowledgement and thanks to Jamie Bohr for her work and attention to the details that make the Digital Geology Library possible. Since the first version in 2005 with about 175 files, Ms. Bohr expanded the collection to over 1,500 files.

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Annual Directory

The series "Annual Directory" was a record of the names, addresses, and plant, pit, mine, quarry, or mill locations of all mineral producers during a calendar year. The series was published from 1964 to 1978 when funding was eliminated.

Annual Directory of Michigan Mineral Operators;

J. R. Byerlay, 1964; This was an unnumbered report in the series. All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_1963opt_301517_7.pdf

Annual Directory of Michigan Mineral Operators;

J. R. Byerlay, 1965; This was an unnumbered report in the series. All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_1964opt_301518_7.pdf

Annual Directory 1: Michigan Mineral Operators;

J. R. Byerlay, 1966; first numbered Annual Directory All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/GIMDL-AD01_303295_7.pdf
[] http://www.michigan.gov/documents/deq/AD_01_301469_7.pdf

Annual Directory 2: Michigan Mineral Producers;

J. R. Byerlay, 1967; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_02_301472_7.pdf

Annual Directory 3: Michigan Mineral Producers;

J. R. Byerlay, 1969; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_03opt_301475_7.pdf

Annual Directory 4: Michigan Mineral Producers;

J. R. Byerlay, 1970; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_04opt_301477_7.pdf

Information not prepared in 1971

Annual Directory 5: Michigan Mineral Producers;

R. T. Segall, 1972; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_05opt_301479_7.pdf

Annual Directory 6: Michigan Mineral Producers;

R. T. Segall, 1973; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_06opt_301485_7.pdf

Annual Directory 7: Michigan Mineral Producers;

R. T. Segall, 1974; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/GIMDL-AD07_303296_7.pdf
[] http://www.michigan.gov/documents/deq/AD_07opt_301487_7.pdf

Annual Directory 8: Michigan Mineral Producers;

J. D. Lewis, 1975; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_08opt_301489_7.pdf

Annual Directory 9: Michigan Mineral Producers;

J. D. Lewis, 1976; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_09opt_301491_7.pdf
[] http://www.michigan.gov/documents/deq/GIMDL-AD09_303297_7.pdf

Annual Directory 10: Michigan Mineral Producers;

M. A. Gere, Jr., 1977; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_10opt_301493_7.pdf
[] http://www.michigan.gov/documents/deq/GIMDL-AD10_303298_7.pdf

Annual Directory 11: Michigan Mineral Producers;

M. A. Gere, Jr., 1978; All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_11opt_301496_7.pdf
[] http://www.michigan.gov/documents/deq/GIMDL-AD11_303299_7.pdf

Annual Directory 12: Michigan Mineral Producers;

M. A. Gere, Jr., 1979; This was the last Annual Directory. All counties, Brine, Cement, Clay, Copper, Dolomite, Gravel, Gypsum, Iron, Lime, Limestone, Marl, Peat, Salt, Sand, Sandstone, Shale, Silver, Stone, Sulfur
[] http://www.michigan.gov/documents/deq/AD_12_opt_301499_7.pdf
[] http://www.michigan.gov/documents/deq/GIMDL-AD12_303300_7.pdf

Annual Report

The series "Annual Report" contains not only the annual report of the State Geologist, but also a number of signed and unsigned articles relating to Michigan geology. Later the State Geologist's reports were made biennially and were published as a part of the Publication series. While a majority of these were published in black cloth, a few paperbound separates were also issued.

First Annual Report of the Commissioner of Mineral Statistics of the State of Michigan, for 1877-1878 and Previous Years;

C. E. Wright, 1879; With contributions from: L. G. Emerson, J. H. Forster, S. S. Garrigues, J. R. Grout, C. D. Lawton, E. Reeder, A. P. Swineford, C. E. Wright, Z. W. Wright Ganister or Quartzite, General Historical Sketch Of The Iron Region, Geology of the Lake Superior Iron Region, Gypsum, Iron Mines, Lake Superior Brown Stones, Lake Superior Copper Mining Industry, Marble, Michigan Salt, Slate, The Iron River Silver District
[] http://www.michigan.gov/documents/deq/GIMDL-AR1877_215871_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Historical_opt_303309_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Iron_opt_303310_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Copper_a_opt_303313_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Copper_b_opt_303314_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Other_opt_303316_7.pdf
[] http://www.michigan.gov/documents/deq/AR_1877_Oversize_303318_7.pdf

Annual Report of the Commissioner of Mineral Statistics of the State Of Michigan, 1884; A. P. Swineford, 1885; copper, iron, plaster, salt

[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1884_215895_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1884_215895_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1884b_215900_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1884b_215900_7.pdf)

Mine and Mineral Statistics for 1891; C. D. Lawton, 1891; coal, gold, gypsum, iron, salt, slate, stone

[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1891_215901_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1891_215901_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1891b_215902_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1891b_215902_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1901; A. C. Lane, 1902; Contributions from; C. H. Gordon, A. W. Grabau, W. M. Gregory, A. C. Lane, F. Leverett, B. E. Livingston, F. B. Taylor

Alcona County, Alpena County, Arenac County, Bay County, Economic Geology, Gas, Geothermal Gradient, Kent County, Lapeer County, Limestone, Meteorites, Muskegon County, Oil, Lake Huron, Saginaw County, Salt, Sanilac County, Stratigraphy, Subsurface Geology, Surface Geology, Traverse Group, Tuscola County, Washtenaw County

[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1901A_303225_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1901A_303225_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1901_1opt_303353_7.pdf](http://www.michigan.gov/documents/deq/AR_1901_1opt_303353_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1901_2opt_303358_7.pdf](http://www.michigan.gov/documents/deq/AR_1901_2opt_303358_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1901_3opt_303362_7.pdf](http://www.michigan.gov/documents/deq/AR_1901_3opt_303362_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1901_plates_303368_7.pdf](http://www.michigan.gov/documents/deq/AR_1901_plates_303368_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1902; A. C. Lane, G. P. Grimsley, 1903; All counties, Gypsum, Iron, Limestone, Peat, Sand, Water

[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1902_215903_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1902_215903_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1902_303371_7.pdf](http://www.michigan.gov/documents/deq/AR_1902_303371_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1902b_215904_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1902b_215904_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1903; A. C. Lane, 1905; All counties, Brine, Building and Road Materials, Cement, Clay, Coal, Copper, Crawford Co., Keweenaw Co, Keweenawan Lodes, Limestone, Marl, Oil and Gas, Peat, Porcupine Mountains, Roscommon Co, Roscommon Co., Salt, Sand, Sandstone, Shale, Stone, Sulfur, The Tamarack Mine Cross-Section Theory of Copper Deposition, Topography, Transmission of Heat into the Earth, Water Supply of the Lower Peninsula, Waters of the Upper Peninsula

[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1903A_215908_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1903A_215908_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/GIMDL-AR1903b_215911_7.pdf](http://www.michigan.gov/documents/deq/GIMDL-AR1903b_215911_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_5opt_303437_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_5opt_303437_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_1opt_303432_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_1opt_303432_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_2opt_303433_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_2opt_303433_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_3opt_303434_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_3opt_303434_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_4opt_303435_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_4opt_303435_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1903_platesopt_303438_7.pdf](http://www.michigan.gov/documents/deq/AR_1903_platesopt_303438_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1904; A. C. Lane, 1905; With contributions by M. L. Fuller and I. C. Russell

Bay Co., Cement, Cheboygan Co., Clay, Coal, Copper, Correlation, Delta Co., Dickinson Co., Emmet Co., Gas, Gladwin Co., Gold, Gravel, Gypsum, Huron River, Iron, Lake Huron, Lake Michigan, Limestone, Mackinac Island, Macomb Co., Marquette Co., Mason Co., Menominee Co., Midland Co., Nomenclature, Non-Metallics, Northern Peninsula counties, Oakland Co., Presque Isle Co., Shale, Tuscola Co., Washtenaw Co., Water, Wayne Co., Wells and Borings

[\[\] http://www.michigan.gov/documents/deq/AR_1907_Part1_314336_7.pdf](http://www.michigan.gov/documents/deq/AR_1907_Part1_314336_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1907_Part2_314338_7.pdf](http://www.michigan.gov/documents/deq/AR_1907_Part2_314338_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1907_Part3_314340_7.pdf](http://www.michigan.gov/documents/deq/AR_1907_Part3_314340_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1907_Part4_314343_7.pdf](http://www.michigan.gov/documents/deq/AR_1907_Part4_314343_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1904_Aopt_314316_7.pdf](http://www.michigan.gov/documents/deq/AR_1904_Aopt_314316_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1904_Bopt_314317_7.pdf](http://www.michigan.gov/documents/deq/AR_1904_Bopt_314317_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1904_Copt_314318_7.pdf](http://www.michigan.gov/documents/deq/AR_1904_Copt_314318_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1904_Plate_XVlopt_314320_7.pdf](http://www.michigan.gov/documents/deq/AR_1904_Plate_XVlopt_314320_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1905; A. C. Lane, 1906; C. C. Adams, W. F. Cooper, A. C. Lane, A. G. Ruthven, B. Walker, Allegan Co., Amphibians, Antrim Co., Arenac Co., Bay Co., Birds, Brine, Coal, Dolomite, Ecological, Fish, Gas, Gypsum, Insects, Iron, Isle Royale, Limestone, Marl, Molluscs, Northern Peninsula counties, Oil, Ontonagon, Peat, Porcupine Mountains, Reptiles, Salt, Sandstone, Shale, Sulfur, Tuscola Co., Water

[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part4_ARtext_303550_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part4_ARtext_303550_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part4opt_303565_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part4opt_303565_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Figures_303568_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Figures_303568_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part1_Adamstext_303547_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part1_Adamstext_303547_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part1Aopt_303553_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part1Aopt_303553_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part1Bopt_303554_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part1Bopt_303554_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Tables_303569_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Tables_303569_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part2_Coopertext_303548_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part2_Coopertext_303548_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part2Aopt_303555_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part2Aopt_303555_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part2Bopt_303556_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part2Bopt_303556_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part2Copt_303560_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part2Copt_303560_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part3_Walkertext_303549_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part3_Walkertext_303549_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part3Aopt_303562_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part3Aopt_303562_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part3Bopt_303563_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part3Bopt_303563_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1905_Part5opt_303566_7.pdf](http://www.michigan.gov/documents/deq/AR_1905_Part5opt_303566_7.pdf)

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1906; A. C. Lane, 1907; Report of the State Board of Geological Survey of Michigan for the Year 1906, A. C. Lane State Geologist. With contributions from: C. A. Davis, W. C. Gordan, I. C. Russell and C. S. Sargent.

Bayport Limestone, Bessemer, Biological Survey, Black River, Brick, Clare Co., Clay, Coal, Copper, Copper, Crataegus, Dickinson Co., Earthquakes, Gas, Geologic Map, Gold, Gratiot Co., Gravel, Houghton Co., Huron Co., Ingham Co., Iron Co., Iron, Isabella Co., Isle Royale, Lime, Livingston Co., Luce Co., Mecosta Co., Menominee Co., Menominee Co., Montcalm Co., Notes of A. Winchell, Oakland Co., Oil, Peat, Publications, Roscommon Co., Saginaw Co., Salt, Sand, Sandstone, Sanilac Co., Silver, Southern Michigan counties, St Clair Co., Sulfur, Tuscola Co., Washtenaw Co., Water, Wexford Co.

[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part1opt_303643_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part1opt_303643_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part1_text_303630_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part1_text_303630_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_PlatesB_303660_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_PlatesB_303660_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2A_text_303632_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2A_text_303632_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2Aopt_303646_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2Aopt_303646_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2B_text_303635_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2B_text_303635_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2Bopt_303648_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2Bopt_303648_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2C_text_303637_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2C_text_303637_7.pdf)
[\[\] http://www.michigan.gov/documents/deq/AR_1906_Part2Copt_303651_7.pdf](http://www.michigan.gov/documents/deq/AR_1906_Part2Copt_303651_7.pdf)

http://www.michigan.gov/documents/deq/AR_1906_Part3_text_303639_7.pdf
http://www.michigan.gov/documents/deq/AR_1906_Part3opt_303652_7.pdf
http://www.michigan.gov/documents/deq/AR_1906_PlatesA_303657_7.pdf
http://www.michigan.gov/documents/deq/AR_1906_Part4_text_303640_7.pdf
http://www.michigan.gov/documents/deq/AR_1906_Part4opt_303654_7.pdf
http://www.michigan.gov/documents/deq/AR_1906_Part5_text_303641_7.pdf

Annual Report of the State Geologist Report of the State Board of Geological Survey of Michigan for the Year 1907;

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C. C. Adams, 1909; An Ecological Survey of Isle Royale, Lake Superior: Published As A part of the Report of the Board of the Geological Survey for 1908 Gravel, Isle Royale, Sand

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Annual Statistical Summary

“Annual Statistical Summaries” were issued in two separate theme formats starting in 1964. The first of these, “Mineral Industry of Michigan” has been assigned consecutive odd numbers while the second format, “Michigan’s Oil and Gas Fields”, has been assigned consecutive even numbers. Each of these formats has had a long history under a variety of other series and titles. The series “Mineral Industry of Michigan” was published in cooperation with the U. S. Bureau of Mines until 1976. The series “Michigan’s Oil and Gas Fields” was published until 1984.

Annual Statistical Summary 1: Mineral Industry of Michigan, 1963;

D. F. Klyce, 1964; Brine, Cement, Copper,

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Bulletin 1: Our Rock Riches; R. W. Kelley, 1964; With contributions from C. A. Arnold, J. Boyd, E. T. Carlson, W. L. Daoust, G. D. Eils, H. J. Hardenberg, R. E. Ives, E. A. Kirkby, N. X. Lyons, H. M. Martin, H. M. Martin, W. Palmer, F. G. Pardee, C. M. Riley, K. Spiroff, S. W. Sundeen and J. R. Van Pelt. Brine, Cement, Clay Pipe, Coal Basin, Copper, Dolomite, Economics, Gas Storage, Geologic Cross Section, Geologic History, Geologic Map, Geologic Time Scale, Gold Mines, Gravel, Gypsum, Iron Ore, Limestone, Mineral Resources, Oil and Gas, Oil and Gas fields, Oil formations, Production, Salt, Sandstones, Stratigraphic chart

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Bulletin 2: Rocks and Minerals of Michigan; O. F. Poindexter, H. M. Martin, S. G. Bergquist, 1971; All counties, Brine, Clay, Coal, Copper, Dolomite, Fossils, Gas, Gems, Glacial Drift, Gold, Gravel, Gypsum, Igneous Rocks, Iron, Limestone, Marl, Metamorphic Rocks, Meteorites, Minerals, Oil, Peat, Petroleum, Rocks, Salt, Sand, Sandstone, Sedimentary Rocks, Shale, Silver, Soil, Stone, Sulfur, Water. Many earlier versions exist dating from 1936 to 1971 including Publication 42 from 1939 to 1951 and subsequently as Bulletin 2 in 1965.

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Full page illustrations for student use and reference
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Michigan Basin; R. L. Milstein, 1989; Cambrian, Dolomite, Gas, Limestone, Nomenclature, Oil, Sandstone, Shale, Stratigraphy

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Bulletin 08: Stratigraphic Lexicon for Michigan; P. A. Catacosinos, 2001; A comprehensive compilation of stratigraphic terms with accompanying stratigraphic chart All counties, Nomenclature, Stratigraphy

[] http://www.michigan.gov/documents/deq/GIMDL-BU08_216121_7.pdf

Bulletin 08: Chart Stratigraphic Nomenclature for Michigan; P. A. Catacosinos, 2001; 1 colored sheet 17" by 22" folded to 8.5" by 11", included as part of Bulletin 8 All counties, Nomenclature, Stratigraphy

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Circular

Each "Circular" is a short technical or semi-technical paper. Most are either bibliographic in nature or are concerned with the various laws which the Geological Survey enforces. Others give mine; statistics or discuss subjects such as seismic disturbances. The series began publication in 1963.

Circular 3: Mineral Resources Depletion or Deterioration?; W. Been, 1966; All counties, Iron, Salt, Water

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Circular 18: State of Michigan Designated and

Critical Sand Dune Areas; Geological Survey, 2002; Maps of the designated sand dune areas in an 8.5" by 14" format. Sand Dunes, Southern Peninsula counties

[] http://www.michigan.gov/documents/deq/CR18_301744_7.pdf

Circular 19: Michigan's Sand Dune Mining and

Administrative Rules; Geological Survey, 2004; Part637 Sand Dune Mining regulations Sand Dunes, Southern Peninsula counties

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Sand Dune Mining web site

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Coal Mine Maps

"Coal Mine Maps" show known Coal Mine locations. Maps for the Michigan 'Coal Basin' counties of; Bay, Calhoun, Eaton, Genesee, Ingham, Jackson, Midland, Saginaw, Shiawassee, and Tuscola counties are available. See also USBM Open File Report 76

Map of the coal basin in Michigan

[] http://www.michigan.gov/documents/deq/GIMDL-COAL-BASIN_307760_7.pdf

Coal Map: Bay County Coal Mine

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Map: Calhoun County Coal Mines

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Coal Map: Eaton County Coal Mine

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Coal Map: Genesee County Coal Mine

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Coal Map: Ingham County Coal Mine

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Coal Map: Jackson County Coal Mine

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Coal Map: Midland and Bay counties

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Coal Map: Saginaw County Coal Mine

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Coal Map: Shiawassee County Coal Mine

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Coal Map: Tuscola County Coal Mine

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[] http://www.michigan.gov/documents/deq/GIMDL-CMTUSB_301958_7.PDF

List of available Coal Maps

[] http://www.michigan.gov/documents/deq/GIMDL-COAL-MINE-MAPS_307762_7.pdf

Part 635, "Michigan's Coal Mine Reclamation Regulations," Natural Resources and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, as amended

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J. Kalliokoski, E. J. Welch, 1976; Coal, Southern Peninsula counties

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"Contributions to Michigan Geology" are reports that have been submitted electronically. Illustrations are scanned and incorporated in the final product. The resulting product is near publication quality. Complete editorial standards have not been applied.

Contribution to Michigan Geology 90-01: Precambrian Geology of the Penny Lake Area, Marquette Greenstone...; James R. Small and Theodore J. Bornhorst, 1990;

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Contribution to Michigan Geology 90-2: Platinum;

T. J. Bornhorst, D. A. Baxter, 1990; Dickinson Co., Geochemistry, Geological Environments, Gogebic Co., Hydrothermal Deposits, Keweenaw Peninsula, Kiernan Sills, Marquette Trough, Mineralization, Nickel-Copper Deposits, Northern Complex, Platinum Group Element Deposits, Placer Deposits, Selenium Data, Southern Complex, Western Northern Peninsula counties

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Early Reports

The earliest reports of the Michigan Geological Survey under Douglass Houghton were made directly to the State Legislature. They were issued as 25 legislative documents in the House and Senate Journals of the Michigan Legislature between 1838 and 1844. The work which was completed following Houghton's death was similarly published in Joint Documents of the House and Senate in 1846.

Report of the State Geologist 1838 [House No. 14]; Douglass Houghton, 1838; House Document No. 14

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Michigan's Mineral Industries

The series "Michigan's Mineral Industries" began publication in 1950 with a review of the year 1948. It was published annually, with the exception that no review of the year 1950 was published. In 1963, with the issue reviewing 1962, the report became a part of the Annual Statistical Summary series AS. This series is no longer active.

Summary Report Number 1 Production and Value of Minerals and Mineral Products in Michigan

1927 to 1931 and Prior Years; W. Osgood, O. F. Poindexter, 1933; All counties, Brick, Bromine, Calcium, Cement, Chloride, Clay, Coal, Copper, Dolomite, Granite, Gypsum, Iodine, Iron, Lime, Limestone, Magnesium, Oil and Gas, Salt, Sand, Sand and Gravel, Sandstone, Slate, Stone

[\[\] http://www.michigan.gov/documents/deq/SS_01_1933_309343_7.pdf](http://www.michigan.gov/documents/deq/SS_01_1933_309343_7.pdf)

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Statistical Summary Report 2: Production and Value of Minerals and Mineral Products in

Michigan 1930 to 1934 and Prior Years; W. Osgood, O. F. Poindexter, 1936; All counties, Brick, Bromine, Calcium, Cement, Chloride, Clay, Coal, Copper, Dolomite, Granite, Gypsum, Iodine, Iron, Lime, Limestone, Magnesium, Oil and Gas, Salt, Sand, Sand and Gravel, Sandstone, Slate, Stone

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Mineral Industries of Michigan 1934 to 1938 and Prior Years; W. Osgood, O. F. Poindexter, 1940; All counties, Brick, Bromine, Calcium, Cement, Chloride, Clay, Coal, Copper, Dolomite, Granite, Gypsum, Iodine, Iron, Lime, Limestone, Magnesium, Oil and Gas, Salt, Sand, Sand and Gravel, Sandstone, Slate, Stone

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Mineral Industries of Michigan. ...; O. F. Poindexter, H. J. Hardenberg, J. C. Rosenau, 1940 - 1953; Illustrated All counties, Brine, Cement, Clay, Coal, Copper, Gas, Gold, Gravel, Gypsum, Iron, Lime, Limestone, Oil, Salt, Sand, Sandstone, Silver, Stone, not digitized.

Michigan's Mineral Industries 1952; H. O. Sorensen, E. T. Carlson, 1954; Brine, Cement, Clay, Coal, Copper, Gas, Gravel, Gypsum, Iron, Lime, Oil, Peat, Salt, Sand, Shale, Stone

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Michigan's Mineral Industries 1953; H. O. Sorensen, E. T. Carlson, 1955; Brine, Cement, Clay, Copper, Gas, Gravel, Gypsum, Iron, Lime, Oil, Peat, Salt, Sand, Shale, Stone

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Michigan's Mineral Industries 1957; H. O. Sorensen, E. T. Carlson, 1958; Brine, Cement, Clay, Copper, Gas, Gravel, Gypsum, Iron, Lime, Oil, Peat, Salt, Sand, Shale, Stone, Water

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"Miscellany" is one report about non-metallic Minerals.

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Mineral Statistics

"Mineral Statistics" are early reports on the Mineral Industry in Michigan. These include discussion about the commodities, mines and volumes produced.

Annual Report of the Commissioner of Mineral

Statistics for 1880; C. E. Wright, 1881; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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Annual Report of the Commissioner of Mineral

Statistics for 1884; C. E. Wright, 1885; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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Mineral Resources 1885

; C. D. Lawton, 1886; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gold, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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; C. D. Lawton, 1887; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gold, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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; C. D. Lawton, 1890; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gold, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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; G. A. Newett, 1897; Mineral products, production and value Brine, Cement, Clay, Copper, Gas, Gold, Gravel, Gypsum, Iron, Lime, Marl, Oil, Peat, Salt, Sand, Shale, Stone, Sulfur

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Open File

The "Open File" group listed here are transcriptions of a wide range of field work done by geologist working for the Geological Survey. Quality and amount of material varies. This is not a complete collection of all of the notebooks. Much of this information was used in subsequent publications. Many of the original documents are in other archive collections. This is different from the more contemporary 'Open File Report' listing that follows this group

The Glacial History and Development of Michigan

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Open File 76: A Summary of the Stratigraphy of the Southern Peninsula of Michigan; E. J. Baltrusaites, 1918; C. K. Clark, G. V. Cohee, R. P. Grant W. A. Kelly, K. K. Landes, G. D. Lindberg, R. B. Newcombe
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Rules & Regulations

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Part 615: Oil and Gas Part 615; "Michigan's Oil and Gas Regulations, " Natural Resources and Environmental Protection Act (NREPA), Act No. 451, Public Acts of 1994, as amended
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Part 625: Mineral Wells; Part 625, Mineral Wells, Natural Resources and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, as amended
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Part 625, Mineral Wells web page
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Part 631: Mine Reclamation; Part 631, Metallic Mine Reclamation, Natural Resources and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, as amended
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Part 635: Coal Mine; Part 635. Natural Resources Michigan's Coal Mine Reclamation Regulations, and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, as amended
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Part 635: Coal Mine web page
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Part 637: Sand Dune Mining; Part 637, Sand Dune Mining, Natural Resources and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, as amended
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Part 637: Sand Dune Mining web page
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Annual Report of the Inspector of Salt

The "Annual Reports of the Inspector of Salt" were annual reports on salt well locations and production. Salt is often overlooked as an important resource that is used in many products as well as being critical to the early development of the state.

35th Annual Report of the Inspector of Salt - for the year ending November 30th, 1903; Bay Co., Iosco Co., Manistee Co., Mason Co., Midland Co., Saginaw Co., Salt, St. Clair Co., Wayne Co.

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44th Annual Report of the Inspector of Salt - for the year ending November 30th, 1912; Bay Co., Iosco Co., Manistee Co., Mason Co., Midland Co., Saginaw Co., Salt, St. Clair Co., Wayne Co.

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UIPC Reports

The Underground Injection Practices Council (UIPC) has produced reports that relate to Michigan.

UIPC Class I Injection Well Survey Phase I Report: Survey of Selected Sites April, 1986; UIPC, 1986;

[] http://www.michigan.gov/documents/deq/UIPC_ClassIInjWellSurvPI_1986_Aopt_306739_7.pdf
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UIPC Class I Injection Well Survey Phase II Report: Survey of Operations 1987; UIPC, 1987;

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K. L. Wier, 1967;

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[] http://www.michigan.gov/documents/deq/GIMDL-USGSMGXLVID_302992_7.PDF
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[] http://www.michigan.gov/documents/deq/GIMDL-USGSPP144A_303062_7.pdf
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Volume

The first major publication series of the Survey was titled "Volume". Between 1873 and 1904 nine numbers and an atlas of maps were produced. Each Volume consists of several in-depth technical reports on the geology of Michigan. The Volume series was bound in green cloth or leather with gold lettering. Paperbound separates of most of the reports were also available. Volumes were numbered with Roman numerals.

Volume I: Part I. Iron-Bearing Rocks (Economic). Chapters 1-4; T. B. Brooks, 1873; Baraga Co., Clay, Copper, Dickinson Co., Dolomite, Gogebic Co., Houghton Co., Iron, Iron Co., Lime, Limestone, Marquette Co., Menominee Co., Ontonagon Co., Peat, Sand, Sandstone, Silver, Stone, Sulfur
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