By the numbers: Michigan

- 9,569 geoscience employees (excludes self-employed)
- 767 million gallons/day: total groundwater withdrawal
- $2.45 billion: value of nonfuel mineral production in 2017
- 36 total disaster declarations, including 11 flood, 8 severe storm, and 6 tornado disasters (1953-2017)
- $11.8 million: NSF GEO grants awarded in 2017

Read more in this Geoscience in Your State Factsheet...

**Agencies Working on Geoscience Issues in Michigan**

**Michigan Department of Environment, Great Lakes, and Energy**  
https://www.michigan.gov/egle/0,9429,,00.html  
The Department of Environment, Great Lakes, and Energy's mission is to protect Michigan's environment and public health by managing air, water, land, and energy resources.

**Michigan Geological Survey**  
https://wmich.edu/geologysurvey  
The mission of the Michigan Geological Survey is to facilitate basic and applied geological research to promote the best use of Michigan's geological resources for their social and economic benefits while protecting associated resource values and the environment.

**Michigan Office of the Great Lakes**  
https://www.michigan.gov/ogl/  
The Office of the Great Lakes was created by the Michigan Legislature in 1985 under the Great Lakes Protection Act. It presently houses the Areas of Concern Program, Coastal Management Program, and the Great Lakes Coordination Program. The Michigan Office of the Great Lakes is a leader in Great Lakes policy development and strategic program implementation to protect, restore, and sustain the Great Lakes watershed. The OGL collaborates with partner organizations to support sustainable use of coastal resources, coordinate restoration of severely degraded areas, manage water quality and quantity, prevent aquatic invasive species, and engage in emerging policy issues. The OGL provides advice and assistance to the Governor’s Office and other state offices.

**Michigan State Police, Emergency Management and Homeland Security Division**  
https://www.michigan.gov/msp/0,4643,7-123-72297_60152_66814--,00.html  
The Michigan State Police, Emergency Management and Homeland Security Division (MSP/EMHSD) is responsible for coordinating state and federal resources to assist local government in response and relief activities in the event of an emergency or disaster. The division also coordinates homeland security initiatives and various federal grants.

**Maps & Visualizations**

Interactive database for geologic maps of the United States  
U.S. Geological Survey  
The U.S. Geological Survey hosts the National Geologic Map Database (NGMDB). This interactive tool serves as a national archive for high-quality, standardized geologic maps created by the U.S. Geological Survey and state geological surveys. The MapView section of the NGMDB displays geologic maps...

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**Case Studies & Factsheets**
Roadway deicing in the United States

Background In areas prone to winter precipitation, transportation infrastructure must be able to quickly respond to snow and ice on roadways. Ice removal is a vital service in these communities. Deicing chemicals melt ice by lowering the temperature at which it melts. They can also prevent new ice...

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Webinars & Forums

Geologic Mapping to Empower Communities: Examples from the Great Lakes

This webinar will introduce geologic mapping in the Great Lakes region, showcase projects from the Great Lakes Geologic Mapping Coalition, and review planning decisions made based on their work. Speakers from the Illinois, Minnesota, and Michigan State Geological Surveys will discuss case...

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