

Geoscience in Your State: Tennessee

WHAT IS GEOSCIENCE?

Geoscience is the study of the Earth and the composition, structure, processes, and physical properties that make it up and the energy, interactions, and the natural resources that we use. It is a science that helps us understand our planet and its resources, and how to manage them sustainably.



By the numbers: TENNESSEE

- 5,302 geoscience employees (excludes self-employed)¹
- 430 million gallons/day: total groundwater withdrawal³
- 30 billion cubic feet of natural gas production in 2017
- 400 billion cubic feet of natural gas production in 2017
- 100 million acres of land in Tennessee
- 20 million acres of land in Tennessee

DEVELOPMENT

- 20 million acres of land in Tennessee
- 100 million acres of land in Tennessee

INDUSTRY

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- 430 million gallons/day: total groundwater withdrawal³
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RESOURCES

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CONTACT

- 1. Geoscience employees (excludes self-employed)
- 2. Groundwater withdrawal (includes self-employed)
- 3. Groundwater withdrawal (includes self-employed)

For more information, please visit our website: www.geosciencein.tn.gov

By the numbers: Tennessee

- 5,302 geoscience employees (excludes self-employed)¹
- 430 million gallons/day: total groundwater withdrawal³

- \$1.14 billion: value of nonfuel mineral production in 2017⁴
- 68 total disaster declarations, including 31 severe storm, 17 flood, and 11 fire disasters (1953-2017)?
- \$2.22 million: NSF GEO grants awarded in...

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

Agencies Working on Geoscience Issues in Tennessee

Tennessee Department of Environment and Conservation

<https://www.tn.gov/environment>

The Tennessee Department of Environment and Conservation exists to enhance the quality of life for citizens of Tennessee and to be stewards of our natural environment by: protecting and improving the quality of Tennessee's air, land, and water through a responsible regulatory system; protecting and promoting human health and safety; conserving and promoting natural, cultural and historic resources; and providing a variety of quality outdoor recreational experiences.

Tennessee Emergency Management Agency

<https://www.tn.gov/tema.html>

TEMA's Mission is to coordinate preparedness, response, and recovery from man-made, natural, and technological hazards in a professional and efficient manner in concert with stakeholders.

Tennessee Geological Survey

<https://www.tn.gov/environment/program-areas/tennessee-geological-survey.html>

The mission of the Tennessee Geological Survey is to encourage and promote the prudent development and conservation of Tennessee's geological, energy and mineral resources by developing and maintaining data bases, maps and technical services; providing accurate geologic hazard assessments; and disseminating geologic information through publications and educational materials.

Maps & Visualizations



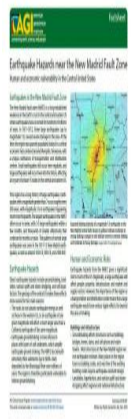
Interactive database for geologic maps of the United States

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



Earthquake Hazards near the New Madrid Fault Zone

Earthquakes in the New Madrid Fault Zone The New Madrid fault zone (NMFZ) is a long-established weakness in the Earth's crust in the central and eastern US where earthquakes have occurred for hundreds of millions of years. In 1811-1812, three large earthquakes (up to magnitude 7.5) caused severe...

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Webinars & Forums



2014 Critical Issues Forum: America's Increasing Reliance on Natural Gas: Benefits and Risks of a Methane Economy 2014-11-19

The 2014 Critical Issues Forum, entitled "America's Increasing Reliance on Natural Gas: Benefits and Risks of a Methane Economy", examined the 5- to 30-year outlook for the development of a natural gas-dominant energy sector in North America and discussed the associated benefits and risks.

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Research Database Publications



Tennessee

1999, United States Geological Survey

[Search all publications >](#)
