

Geoscience in Your State: Tennessee

INTRODUCTION

Geoscience is a part of the earth and the atmosphere, water, and geology, and the process that interact with the economy. Understanding the earth's surface and subsurface, its resources, history, and development is a key to understanding the earth's history, and the development of the earth's resources.



By the numbers: TENNESSEE

- 5,302 geoscience employees (includes self-employed)
- 430 million gallons/day total groundwater withdrawal
- 300 million acres of forested land in 2017
- 400 billion barrels of oil in 2017
- 100 million acres of land in 2017
- 100 million acres of land in 2017

2020 UPDATE

- 5,302 geoscience employees (includes self-employed)
- 430 million gallons/day total groundwater withdrawal
- 300 million acres of forested land in 2017
- 400 billion barrels of oil in 2017
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1. Geoscience employees (includes self-employed)	5,302
2. Total groundwater withdrawal (million gallons/day)	430
3. Forested land (million acres)	300
4. Oil reserves (billion barrels)	400
5. Land area (million acres)	100

Source: U.S. Geological Survey, 2020. Data for 2017 is from the U.S. Geological Survey, 2017. Data for 2020 is from the U.S. Geological Survey, 2020. Data for 2020 is from the U.S. Geological Survey, 2020. Data for 2020 is from the U.S. Geological Survey, 2020.

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...

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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



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Webinars & Forums



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