

Geoscience in Your State: Vermont

WHAT IS GEOSCIENCE?

Geoscience is the study of the earth and the complex physical, chemical, and biological processes that interact to form and transform the earth. Understanding the earth's history and evolution, its resources, history, and development is essential to understanding our environment, and developing sustainable solutions.



By the numbers VERMONT

- 941 geoscience employees (excludes self-employed)¹
- 37 million gallons/day: total groundwater withdrawal²
- \$8 million: state's estimated production of oil³
- 100 billion: estimated value of the state's natural resources⁴
- 100 billion: estimated value of the state's natural resources⁵
- 100 billion: estimated value of the state's natural resources⁶

DEVELOPMENT VERMONT

- 100 billion: estimated value of the state's natural resources⁷
- 100 billion: estimated value of the state's natural resources⁸
- 100 billion: estimated value of the state's natural resources⁹
- 100 billion: estimated value of the state's natural resources¹⁰

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- 100 billion: estimated value of the state's natural resources¹²
- 100 billion: estimated value of the state's natural resources¹³
- 100 billion: estimated value of the state's natural resources¹⁴

INDUSTRY VERMONT

- 100 billion: estimated value of the state's natural resources¹⁵
- 100 billion: estimated value of the state's natural resources¹⁶
- 100 billion: estimated value of the state's natural resources¹⁷
- 100 billion: estimated value of the state's natural resources¹⁸
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WATER VERMONT

- 100 billion: estimated value of the state's natural resources²³
- 100 billion: estimated value of the state's natural resources²⁴
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WATER VERMONT

- 100 billion: estimated value of the state's natural resources²⁷
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- 100 billion: estimated value of the state's natural resources³⁰

By the numbers: Vermont

- 941 geoscience employees (excludes self-employed)¹
- 37 million gallons/day: total groundwater withdrawal²

- \$149 million: value of nonfuel mineral production in 20174
 - 43 total disaster declarations, including 21 severe storm, 15 flood, and 2 drought disasters (1953-2017)?
 - \$959,000: NSF GEO grants awarded in 201714
- ...

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

Agencies Working on Geoscience Issues in Vermont

Vermont Center for Geographic Information

<https://vcgi.vermont.gov/>

The Vermont Center for Geographic Information, a division of the Agency of Commerce and Community Development (VCGI), will provide strategic governance and deliver high quality geospatial data, services, solutions, infrastructure and expertise using methods that are efficient and effective, client-focused, and consistent with our enabling legislation.

Vermont Department of Environmental Conservation

<https://dec.vermont.gov/>

The Vermont Department of Environmental Conservation aims to preserve, enhance, restore, and conserve Vermont's natural resources, and protect human health for the benefit of this and future generations.

Vermont Emergency Management

<https://vem.vermont.gov/>

Vermont Emergency Management manages and provides support to a number of emergency response agencies in Vermont. Programs managed by VEM include Debris Management, the Emergency Alert System, the National Incident Management System, the Radiological Emergency Response Plan, the State Emergency Response Commission, and VT-ALERT.

Vermont Geological Survey

<https://dec.vermont.gov/geological-survey>

The Vermont Geological Survey, also known as the Division of Geology and Mineral Resources in the Department of Environmental Conservation, conducts research and mapping relating to the geology, resources and topography of the State.

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



What Determines the Location of a Well?

Introduction Oil- and gas-rich rocks are only found in certain parts of the United States, so most of the country has no oil or gas wells. Where oil and gas production is commercially viable, many factors determine the exact location of each well, including leasing, permitting, competing land uses...

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