

Geoscience in Your State: New Jersey

WHAT IS GEOSCIENCE?

Geoscience is the study of the earth and the composition, structure, development, and physical processes that control life and the economy. Understanding the earth's history and evolution, its resources, history, and development is essential to the development of a sustainable, environmentally sound, and globally competitive



By the numbers: NEW JERSEY

- 8,387 geoscience employees (excludes self-employed)¹
- 569 million gallons/day total groundwater withdrawal²
- 250 million acres of undeveloped land in NJ³
- 100 billion cubic feet of natural gas in NJ⁴
- 100 billion cubic feet of oil in NJ⁵
- 100 billion cubic feet of coal in NJ⁶

8,387 GEOSCIENTISTS IN NEW JERSEY

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- \$265 million: value of nonfuel mineral production in 20174
- 50 total disaster declarations, including 17 severe storm, 9 hurricane, and 8 flood disasters (1953-2017)?
- \$15.3 million: NSF GEO grants awarded in 201714...

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

Agencies Working on Geoscience Issues in New Jersey

New Jersey Department of Environmental Protection

<https://www.nj.gov/dep/>

On America's first official ""Earth Day"" — April 22, 1970, the New Jersey Department of Environmental Protection was born. New Jersey became the third state in the country to consolidate its past programs into a unified major agency to administer aggressive environmental protection and conservation efforts. Former Governor William T. Cahill appointed Richard J. Sullivan as the first commissioner. Since that day, NJDEP began a role to manage natural resources and solve pollution problems. In what started with about 1,400 employees in five divisions, NJDEP now has a staff of approximately 2,900 and is a leader in the country for its pollution prevention efforts and innovative environmental management strategies.

New Jersey Geological Survey

<https://www.state.nj.us/dep/njgs/index.html>

The mission of the New Jersey Geological Survey includes geoscience mapping, research and interpretive roles as well as water resource planning and regulatory functions.

New Jersey Office of Emergency Management

<http://www.ready.nj.gov/>

The Emergency Management section is responsible for planning, directing and coordinating emergency operations within the State of New Jersey which are beyond local control.

Maps & Visualizations



Interactive map of offshore sand and gravel resources of the United States

Bureau of Ocean Energy Management

The Bureau of Ocean Energy Management's Marine Minerals Information System (MMIS) provides an interactive map with information on offshore sand and gravel resources for 18 states on the Atlantic and Gulf coasts of the United States. The system includes: Sand and gravel resources Marine...

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Case Studies & Factsheets



Geologic map guides earthquake damage prediction in New Jersey

Geologic mapping provides the data foundation that makes soil mapping and earthquake simulations possible. This approach

also can be used to predict damage in areas where the historical record indicates a risk of potential earthquakes. Defining the Problem The density and value of its buildings...

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Webinars & Forums



Offshore Energy

This webinar is based on a Congressional briefing organized by the Advances in Earth Science coalition (16 May 2016). The webinar brings together experts from academia and government to explain the scientific and engineering tools that enable production in challenging environments far from land...

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