Geoscience in Your State Factsheets

How does geoscience affect your state?

The AGI Geoscience Policy team created State Geoscience Information factsheets to inform geoscientists and decision makers on how geoscience impacts their state. These factsheets highlight geoscience areas including, employment, water, minerals, energy and hazards in each state. They also demonstrate how federal research agencies, such as the National Science Foundation, U.S. Geological Survey, National Aeronautics and Space Administration, and the National Ocean and Atmospheric Administration contribute beneficial geoscience information to each state.

If you have any questions on our state factsheets, please contact us at govt@americangeosciences.org

Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
Florida
Georgia
Geoscience in Virginia

WHAT IS GEO SCIENCE?
Geosciences is the study of the Earth and the processes that sustain it and our economy. Understanding the Earth’s surface and subsurface, its resources, hazards, and climate allows us to develop solutions to critical economic, environmental, health, and safety challenges.

By the numbers: VIRGINIA
- 32,000 geoscience employees (not federal/self-employed)
- 786,400 global/year: total greenhouse gas emissions
- 7.1 billion value of non-fuel mineral production in 2017
- 91 total disaster declarations, including 17 severe storms, 3 floods, and 5 hurricanes/droughts (1965-2017)1
- 5.1 billion REIP grants awarded in 2017

ENERGY AND MINERALS IN VIRGINIA
- 1.1 billion value of non-fuel mineral production in 2017
- Interstate (subsea), crux (ground), and air quality: constructed by Virginia-based firm
- 133 million bbl of crude oil production in 2017
- 42 million bbl of coal produced in 2017
- 1.65 million megawatt hours, hydroelectricity produced in 2017
- 1.3 million megawatt hours, wind-derived fuels produced in 2017

WATER USE IN VIRGINIA
- 77 million gallons/day: total groundwater withdrawal
- 6.5 million gallons/day: industrial water withdrawal
- 47 million gallons/day: public supply water withdrawal
- 57 million gallons/day: industrial water withdrawal
- 7% of the population is served by public water supplies

NATIONAL HAZARDS IN VIRGINIA
- 46 total disaster declarations, including 17 severe storms, 3 floods, and 13 hurricanes/droughts (2012-2017)
- 1 billion dollars in disaster assistance grants (2005-2017)
- 1.2 billion dollars in mitigation grants (2005-2017)
- 5.9 million power distribution grants (2005-2017)
- 126 million dollars in community project grants (2005-2017)
- 461,000 active disaster events, with costs exceeding $4 billion in inflation-adjusted (1990-2017)

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1. U.S. Geological Survey, Virginia Water Science Center
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Tags:
- policy