Geoscience in New Hampshire

WHAT IS GEOSCIENCE?

Geoscience is the study of the Earth and the complex geologic, marine, atmospheric, and hydrologic processes that sustain life and the economy. Understanding the Earth’s surface and subsurface, its resources, history, and hazards allows us to develop solutions to critical economic, environmental, health, and safety challenges.

By the numbers: NEW HAMPSHIRE

- 1,780 geoscience employees (excludes self-employed)¹
- 80 million gallons/day: total groundwater withdrawal³
- $78 million: value of nonfuel mineral production in 2017⁴
- 46 total disaster declarations, including 18 severe storm, 10 flood, and 7 snow disasters (1953-2017)⁶
- $15.2 million: NSF GEO grants awarded in 2017¹⁴

ENERGY AND MINERALS IN NEW HAMPSHIRE

- $78 million: value of nonfuel mineral production in 2017⁴
- Crushed stone, sand and gravel, stone: top three nonfuel minerals in order of value produced in 2017⁴
- 1.29 million megawatt hours: hydroelectricity produced in 2017⁵
- 1.64 million megawatt hours: wood-derived fuels produced in 2017⁵
- 414,000 megawatt hours: wind produced in 2017⁵

WATER USE IN NEW HAMPSHIRE

- 80 million gallons/day: total groundwater withdrawal³
- 860 million gallons/day: total surface water withdrawal³
- 96 million gallons/day: public supply water withdrawal³
- 5 million gallons/day: water withdrawal for irrigation³
- 13 million gallons/day: industrial fresh water withdrawal³
- 63% of the population is served by public water supplies³

NATURAL HAZARDS IN NEW HAMPSHIRE

- 46 total disaster declarations, including 18 severe storm, 10 flood, and 7 snow disasters (1953-2017)⁶
- 16 weather and/or climate events, each with costs exceeding $1 billion (inflation adjusted) (1980-2017)⁷

4 U.S. Geological Survey, Mineral Commodity Summaries 2018
5 U.S. Energy Information Administration
6 FEMA Data Visualization: Summary of Disaster Declarations and Grants (accessed May 2, 2018)
U.S. GEOLOGICAL SURVEY (USGS)
- $1.15 billion: total USGS budget in FY 2018 (5.8% increase from FY 2017)⁸
- The National Cooperative Geologic Mapping Program funds geologic mapping projects with federal (FEDMAP), state (STATEMAP), and university (EDMAP) partners
- $1.19 million: New Hampshire STATEMAP funding (1993-2016)⁹
- Dartmouth College, Keene State College, and University of New Hampshire have participated in EDMAP⁹
- USGS streamgages collect real-time or recent streamflow, groundwater, and water-quality data in New Hampshire

NATIONAL SCIENCE FOUNDATION (NSF)
- $7.8 billion: total NSF budget in FY 2018 (4% increase from FY 2017)¹³
- $1.4 billion: total NSF Geosciences Directorate (GEO) awards in FY 2017 (7.2% increase from FY 2016)¹⁴
- 44 NSF GEO awards in New Hampshire totaling $15.2 million in 2017¹⁴
- $10 million: NSF GEO grants awarded to Dartmouth College in 2017¹⁴

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
- $8.1 billion: total EPA budget in FY 2018 (0% change from FY 2017)¹⁵
- 20 active Superfund sites in New Hampshire 2018¹⁶
- $8.09 million: Drinking Water State Revolving Fund (DWSRF) grants in New Hampshire in 2017¹⁷
- $200,000: Brownfield cleanup grants awarded to New Hampshire in 2018¹⁸

FEDERAL FACILITIES IN NEW HAMPSHIRE
- USDA Forest Science Laboratory, Durham
- USACE Cold Regions Research and Engineering Laboratory, Hanover
- USGS District Office of Water Resources, Pembroke

YOUR STATE SOURCE FOR GEOSCIENCE INFORMATION
New Hampshire Geological Survey
29 Hazen Drive
PO Box 95
Concord, NH 03302-0095
603-271-1976

⁸ U.S. Department of the Interior, FY 2019 Budget in Brief
⁹ U.S. Geological Survey, National Cooperative Geologic Mapping Program
¹⁰ National Aeronautics and Space Administration, FY 2019 Budget Estimates
¹¹ National Oceanic and Atmospheric Administration, FY 2019 Bluebook
¹² NOAA In Your State and Territory
¹³ U.S. House of Representatives, FY 2018 Omnibus Spending Bill (Division B) - Commerce, Justice, Science, and Related Agencies Appropriations Act, 2018
¹⁴ National Science Foundation, Budget Information System
¹⁵ U.S. House of Representatives, FY 2018 Omnibus Spending Bill (Division G) - Department of the Interior, Environment, and Related Agencies Appropriations Act, 2018
¹⁶ U.S. Environmental Protection Agency, Superfund Sites
¹⁷ U.S. Environmental Protection Agency, Drinking Water State Revolving Fund National Information Management System Reports
¹⁸ U.S. Environmental Protection Agency, Brownfields Grant Fact Sheet Search

AGI's Geoscience Policy and Critical Issues programs support well-informed public policy and decision making by providing information and facilitating dialogue between the geoscience community and decision makers at all levels.
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