By the numbers: Arizona

- 6,703 geoscience employees (excludes self-employed)
- 2.76 billion gallons/day: total groundwater withdrawal
• $6.61 billion: value of nonfuel mineral production in 2017
• 65 total disaster declarations, including 39 fire, 13 flood, and 10 severe storm disasters (1953-2017)
• $12.8 million: NSF GEO grants awarded in 2017

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

Agencies Working on Geoscience Issues in Arizona

Arizona Department of Environmental Quality
https://azdeq.gov/
The mission of the Arizona Department of Environmental Quality is to protect and enhance public health and the environment in Arizona. To achieve this, they administer the state’s environmental laws and delegated federal programs to prevent air, water and land pollution and ensure cleanup.

Arizona Department of Water Resources
https://new.azwater.gov/
The Arizona Department of Water Resources (ADWR) was created to secure long-term dependable water supplies for Arizona's communities. The Department administers and enforces Arizona’s groundwater code, and surface water rights laws (except those related to water quality); negotiates with external political entities to protect Arizona’s Colorado River water supply; oversees the use of surface and groundwater resources under state jurisdiction; and represents Arizona in discussions of water rights with the federal government. In addition, the Department explores methods of augmenting water supplies to meet future demands, and develops policies that promote conservation and equitable distribution of water. The Department also inspects dams and participates in flood control planning to prevent property damage, personal injury, and loss of life. In support of these activities, ADWR collects and analyzes data on water levels and on water-quality characteristics. Other responsibilities include management of floodplains and non-federal dams to reduce loss of life and damage to property.

Arizona Division of Emergency Management
https://dema.az.gov/emergency-management
The Arizona Division of Emergency Management (within the Department of Emergency and Military Affairs) coordinates the State of Arizona’s emergency preparedness, response and recovery efforts in order to reduce the impact of emergencies and disaster on people and property in the Whole Community.

Arizona Geological Survey
https://azgs.arizona.edu/
The mission of the Arizona Geological Survey is to serve as a primary source of geologic information in the state to enhance public understanding of the state's geologic character, geologic hazards and limitations and mineral resources.

Arizona Oil and Gas Conservation Commission
http://www.azogcc.az.gov/

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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What grows in arid, sandy soils? How do these soils become dust? Many small organisms, such as bacteria and fungi, grow among the sand and silt particles in dry valley and desert soils. At the soil’s surface, these organisms often form biological webs (“microbiotic crusts”) that keep small sand and...

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Webinars & Forums

Water as One Resource: How interactions between groundwater and surface water impact water availability
2015-07-13
This webinar provides an overview of how groundwater and surface water interact, what the implications of these interactions on water resources are, and how water can be more effectively managed if an understanding of these interactions is incorporated.

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GOLI Online Courses

Water as One Resource
Course Type: GOLI Online Course
View course
This course provides an overview of how groundwater and surface water interact, what the implications of these interactions on water resources are, and how water can be more effectively managed if an understanding of these interactions is incorporated.
The course presenters are Ken...

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Arizona
1999, United States Geological Survey

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