

## Geoscience in Your State: Nebraska

**NE GEOLOGY**

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 environmental, environmental health, and development challenges.



**BY THE NUMBERS: GEOLOGY**

- 25 geoscience employees in Nebraska
- 2500 geologists in the United States
- 95 million acres of land in Nebraska
- 100 billion gallons of water in Nebraska
- 100 million acres of land in Nebraska
- 100 million acres of land in Nebraska

**BY THE NUMBERS: METEOROLOGY**

- 25 meteorologists in Nebraska
- 2500 meteorologists in the United States
- 95 million acres of land in Nebraska
- 100 billion gallons of water in Nebraska
- 100 million acres of land in Nebraska
- 100 million acres of land in Nebraska

**BY THE NUMBERS: HYDROLOGY**

- 25 hydrologists in Nebraska
- 2500 hydrologists in the United States
- 95 million acres of land in Nebraska
- 100 billion gallons of water in Nebraska
- 100 million acres of land in Nebraska
- 100 million acres of land in Nebraska

**BY THE NUMBERS: CLIMATE SCIENCE**

- 25 climate scientists in Nebraska
- 2500 climate scientists in the United States
- 95 million acres of land in Nebraska
- 100 billion gallons of water in Nebraska
- 100 million acres of land in Nebraska
- 100 million acres of land in Nebraska

© 2014 Nebraska Geoscience Institute  
 1000 North 17th Street, Lincoln, NE 68502  
 402.471.1234  
[www.negeoinstitute.org](http://www.negeoinstitute.org)

**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: Nebraska

2,245 geoscience employees (excludes self-employed)<sup>1</sup>

5.82 billion gallons/day: total groundwater withdrawal<sup>3</sup>

\$192 million: value of nonfuel mineral production in 2017<sup>4</sup>

60 total disaster declarations, including 27 severe storm, 18 flood, and 5 fire disaster disasters (1953-2017)<sup>6</sup>

\$1.05 million: NSF GEO grants awarded in 2017<sup>14</sup>

## Your State Source for Geoscience Information

Conservation and Survey Division  
(in the School of Natural Resources)  
University of Nebraska-Lincoln  
3310 Holdrege Street  
Lincoln, NE 68583-0961  
<http://snr.unl.edu/csd/>  
402-472-3471

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

## Agencies Working on Geoscience Issues in Nebraska

### Nebraska Department of Environmental Quality

<http://deq.ne.gov/>

The Nebraska Department of Environmental Quality was created pursuant to passage of the Nebraska Environmental Protection Act in 1971. Although the Department has grown and been given additional responsibilities over the years, its ongoing mission has remained the same - the protection of Nebraska's air, land and water resources.

### Nebraska Department of Natural Resources

<https://dnr.nebraska.gov/>

Finding a balance between competing demands is a key to Nebraska's resource future. Assessing impacts of alternative soil and water management options requires an understanding of complex issues and substantial amounts of reliable data. The Nebraska Department of Natural Resources (NDNR) is committed to providing Nebraska's citizens and leaders with the data and analyses they need to make wise resource decisions for the benefit of all Nebraskans both now and in the future. The NDNR is a State agency with responsibilities in the areas of: Surface Water, Groundwater, Floodplain Management, Dam Safety, Natural Resources Planning, Water Planning and Integrated Management, Storage of Natural Resources and Related Data, and Administration of State Funds.

### Nebraska Emergency Management Agency

<https://nema.nebraska.gov/>

The Nebraska Emergency Management Agency is charged by state statute to reduce the vulnerabilities of the people and communities of Nebraska from the damage, injury and loss of life and property resulting from natural, technological or man-made disasters and emergencies.

### Nebraska Geological Survey

<http://snr.unl.edu/csd/>

The Survey's mission is to investigate and record information about Nebraska's geologic history, its rock and mineral resources, the quantity and quality of its water resources, land cover and other aspects of its geography, as well as the nature, distribution and uses of its soils.

## Maps & Visualizations



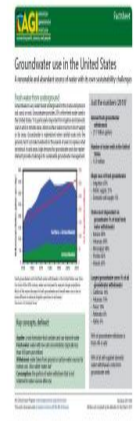
## [Interactive database for geologic maps of the United States](#)

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...

[Search all Maps & Visualizations](#) >

## Case Studies & Factsheets

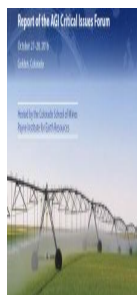


### [Groundwater use in the United States](#)

Fresh water from underground Groundwater is any water found underground in the cracks and pores in soil, sand, or rock. Groundwater provides 25% of the fresh water used in the United States.<sup>1</sup> It is particularly important for irrigation and domestic uses in arid or remote areas, where surface...

[Search all Case Studies & Factsheets](#) >

## Webinars & Forums



### [2016 Critical Issues Forum: Addressing Changes in Regional Groundwater Resources: Lessons from the High Plains Aquifer](#)

2016-10-27

The 2016 Critical Issues Forum was a 1-½ day meeting covering multiple aspects of groundwater depletion in the High Plains.

[Search all Webinars & Forums](#) >

## 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...

[Search all GOLI courses](#) >

---

## Research Database Publications



**Nebraska**

1999, United States Geological Survey

---

[Search all publications](#) >

---

---