

## About DEQ

The Idaho Department of Environmental Quality (DEQ) is the state government agency charged with protecting human health and preserving the quality of Idaho's air, land, and water.

DEQ manages a broad range of activities including education, outreach, and technical assistance to businesses, local government agencies, classrooms, and interested citizens.

## About DEQ's Ground Water Program

DEQ's Water Quality Division is responsible for ensuring that the state's surface, ground, and drinking water resources meet state water quality standards.

The Ground Water Program, one of several programs within the Water Quality Division, is responsible for protecting the quality of ground water in Idaho and relies on a combination of programs to protect, monitor, and clean up ground water from pollution. Education and outreach is one method DEQ uses to protect ground water.

## For More Information on Ground Water

Visit DEQ's website at [www.deq.idaho.gov/ground-water](http://www.deq.idaho.gov/ground-water) or contact one of the following offices:

### Department of Environmental Quality

#### State Office Water Quality Division

1410 N. Hilton  
Boise, ID 83706  
(208) 373-0502

#### Regional Offices

##### Boise

1445 N. Orchard  
Boise, ID 83706  
(208) 373-0550  
toll-free: (888) 800-3480

##### Lewiston

1118 F Street  
Lewiston, ID 83501  
(208) 799-4370  
toll-free: (877) 541-3304

##### Coeur d'Alene

2110 Ironwood Parkway  
Coeur d'Alene, ID 83814  
(208) 769-1422  
toll-free: (877) 370-0017

##### Pocatello

444 Hospital Way #300  
Pocatello, ID 83201  
(208) 236-6160  
toll-free: (888) 655-6160

##### Idaho Falls

900 N. Skyline, Suite B  
Idaho Falls, ID 83402  
(208) 528-2650  
toll-free: (800) 232-4635

##### Twin Falls

650 Addison Ave. W,  
Suite 110  
Twin Falls, ID 83301  
(208) 736-2190  
toll-free: (800) 270-1663

### DEQ's Mission

*To protect human health and preserve the quality of Idaho's air, land, and water for use and enjoyment today and in the future.*



Printed on recycled paper, DEQ July 2013. PID 0205, CA 30060. Costs associated with this publication are available from the State of Idaho Department of Environmental Quality in accordance with Section 60-202, Idaho Code.

LET'S  
TALK  
GROUND  
WATER

Education and Outreach  
Opportunities from DEQ



Idaho Department of  
Environmental Quality  
[www.deq.idaho.gov](http://www.deq.idaho.gov)



## Who Can Request Ground Water Outreach Assistance from DEQ?

DEQ staff are available to present ground water related information upon request, as schedules permit. Teachers, local government officials, and group leaders (of clubs, service groups, or associations) are all encouraged to request outreach assistance from the DEQ Ground Water Program.

## DEQ Ground Water Lesson Plans for Teachers & Students

Water quality lesson plans are available on DEQ's website at [www.deq.idaho.gov/teacher-resources](http://www.deq.idaho.gov/teacher-resources).

**Pollution and Healthy Environment: Like Oil and Water** (Lesson Plan: 4th–8th grades)  
Students pollute water to learn how pollutants mix with water in the environment.

**The Rain Takes Pollution Mainly Down the Drain** (Lesson Plan: 4th–7th grades)  
Students build stormwater “mazes” and observe how stormwater transports pollution from our streets to ground water and surface water.

**Project WET** (Various Lesson Plans: K–12)  
Students receive water education through various water-related activities.



## DEQ Water Quality Outreach Activities — Ground Water Flow Model & Incredible, Edible Aquifer

### The Ground Water Flow Model

**Focus/Objective:** A ground water flow model is used to illustrate the movement of ground water, types of aquifers, how pollution can get into ground water and drinking water wells, and the need to protect and conserve ground water resources. Students will come to understand how our actions can affect ground water and drinking water.



Ground Water Flow Model

**Target Audience:** Age 10 and up.

**Time Required:** 30 minutes (can be longer depending on the number of participants, additional lecture/discussion, or the use of additional activities such as Project WET or Incredible, Edible Aquifer).

**Supplies Needed:** Use of the model requires access to water and electricity. No additional supplies are needed for this activity.

### The Incredible, Edible Aquifer

**Focus/Objective:** Students will learn about the water cycle and ground water while building their own **edible aquifer!** Topics include the geologic formation of an aquifer, types of aquifers, how aquifers can become contaminated, and the need to protect and conserve ground water resources.

**Target Audience:** Grades 4–8\* (but can be adapted to other audiences).

**Time Required:** 45 minutes (can be longer depending on the number of participants and additional lecture or discussion).

\*Meets several Idaho Standards for these grade levels.



**Supplies Needed:** Visit DEQ's website at [www.deq.idaho.gov/teacher-resources](http://www.deq.idaho.gov/teacher-resources) and click on Incredible, Edible Aquifer for a list of supplies.

