

# Institute for Natural Resources Institute for Water and Watersheds



Informing natural resource decision making through integrated knowledge and information.



### Willamette Water 2100

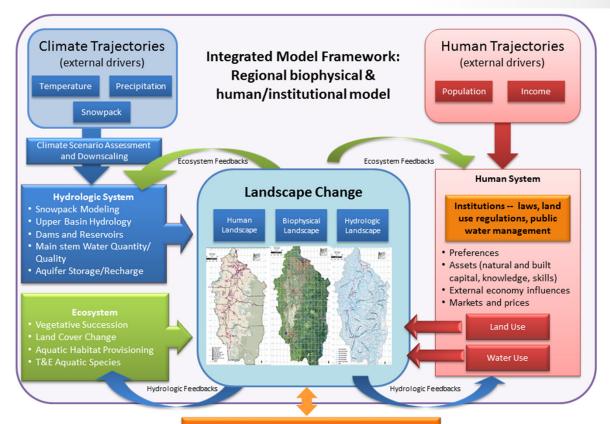






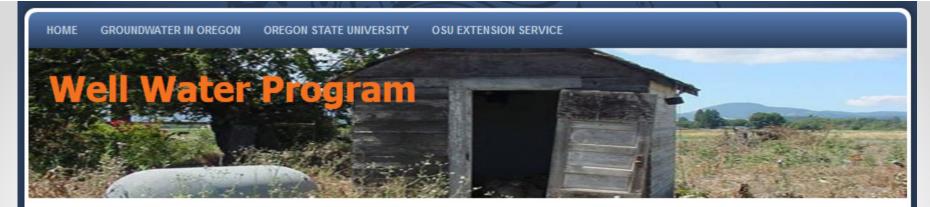
Principal Investigator: Roy Haggerty, OSU College of Earth, Ocean, and Atmospheric Sciences
Funded by the National Science Foundation
Managed by the OSU Institute for Water and Watersheds

A project evaluating how climate change, population growth, and economic growth will alter the availability and the use of water in the Willamette River Basin on a decadal to centennial timescale.



http://water.oregonstate.edu/ww2100

Policy Analysis -- comparison of outcomes from alternative scenario/institutions with those for reference scenario



#### **NAVIGATION**

Home

Septic Systems

Wells

Water Tests

Arsenic

Bacteria

Water Treatment

Limted Water

Assessment Tools

Real Estate Sales

Farm & Garden

Pesticides

Hazardous Waste

Events

### Well Water Program, OSU Extension Service

"Protecting the groundwater that provides our drinking water through education."

The goal of the Well Water Program is to help Oregonians protect thegroundwater that supplies their drinking water through education. Information available at <u>Well Water events</u> is now available for your use on this web page.

If you have a <u>well</u> or <u>septic system</u>, look over the many publications available to help you maintain these facilities in good working order—it could save you costly repairs, protect your family's health and insure the continued safety of your groundwater supply.

If you have questions and don't know where to turn, try contacting your local county Extension Service office.

If you want more information about the OSU Well Water Program or can't find the answers to your question - contact the program coordinator

What does water mean to people?

Degrees of Thirst by Onlineassociatedegrees.com

## Institute for Natural Resources

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### Strategic Goals

#### Goal 1

Increase the ability of others to efficiently and effectively deliver environmental and resource outcomes.

#### Goal 2

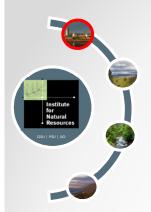
Extend the reach of integrated knowledge and information to inform natural resource decision making.

### Goal 3

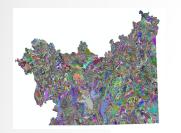
Enhance the relevance and delivery of INR's distinctive suite of services and products.

Information and Data **Development, Management,** and Access **Science-Policy** Integration Institute for Natural Resources OSU | PSU | UO **Research and Project** Coordination **Experiential Learning** and Leadership Development

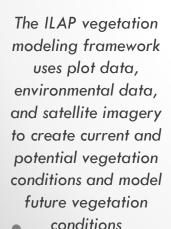
oregonstate.edu/inr



# Information and Data Development, Management, and Access









### Core Functions

- Natural resource dataset compilation and integration
- Access to comprehensive information related to natural resources
- Resource mapping
- Digital library enhancements
- Vegetation and landscape modeling
- Creating collaborative workspaces

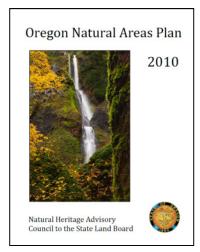


# Oregon Biodiversity Information Center



Capturing and maintaining unique, comprehensive data on rare, threatened, and endangered species throughout Oregon in support of biodiversity conservation and informed decision-making.













Central access to information for natural resource decision making in Oregon (since 2007) and the West (since 2012)

15 Explorer Sites

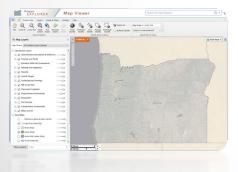
### **Newest portal**

Western Landscapes Explorer

### **Data portals**

Imagery Explorer Spatial Data Library

### Tools



### Data



### **Location portals**

Deschutes Basin Explorer Lakes Basin Explorer North Coast Explorer Umpqua Basin Explorer Willamette Basin Explorer

### **Stories**



### **Topic portals**

Oregon Farm Explorer
Oregon Hazards Explorer
Land Use Explorer
Rural Communities Explorer
Oregon Wetlands Explorer
Oregon Wildfire Risk Explorer
Oregon Wildlife Explorer

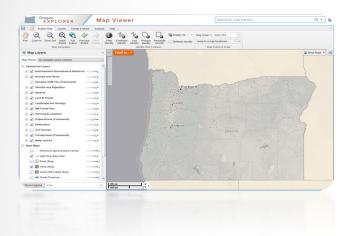
### Resources



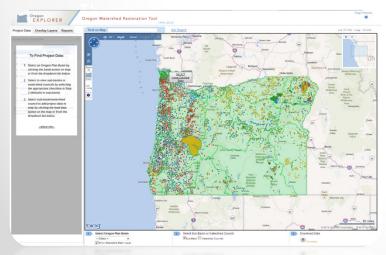
www.oregonexplorer.info

# Oregon Explorer Tools

### **General Mapping Tool**



### **Thematic Mapping Tools**



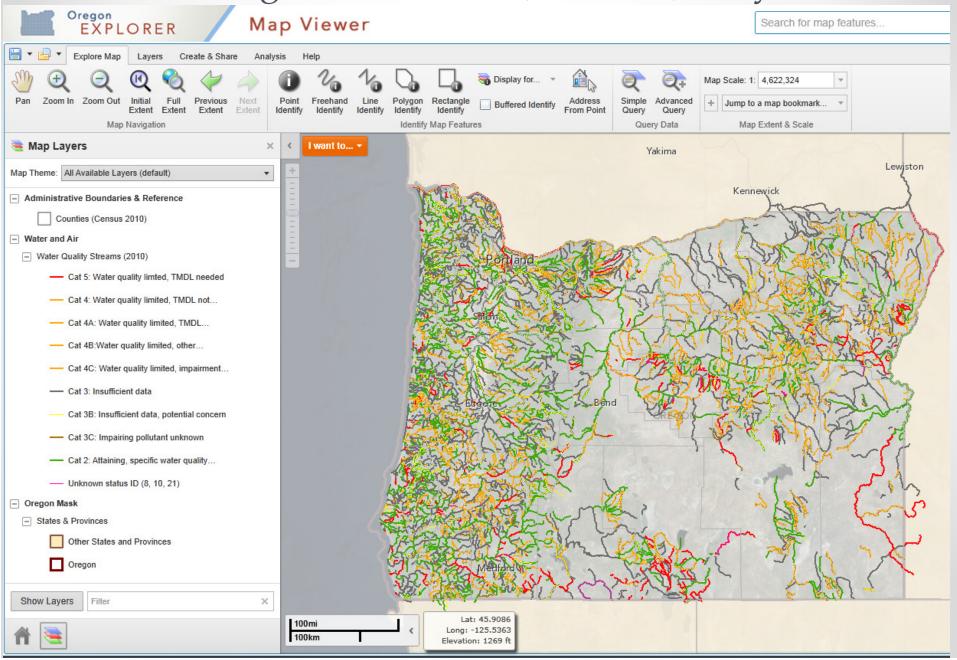
### **Reporting Tools**



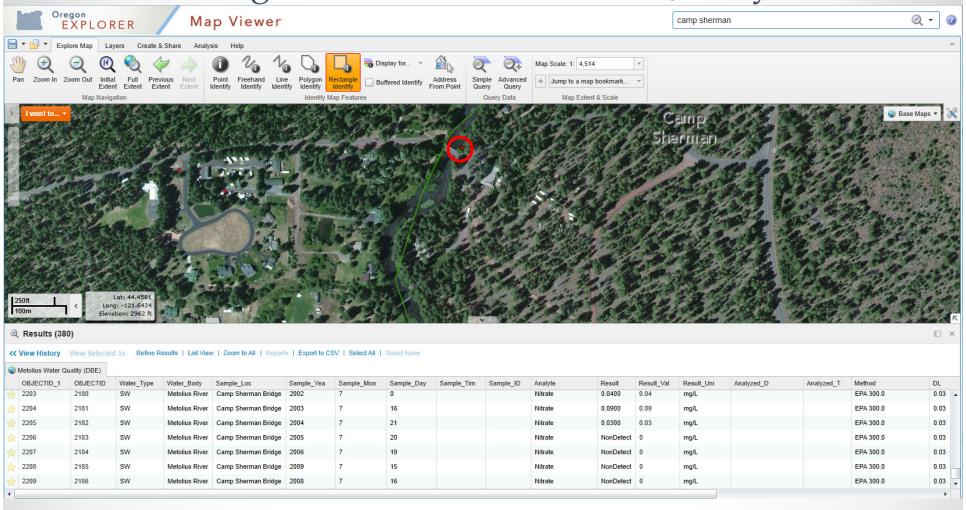
### **Data Tools**



### Providing Access to DEQ Water Quality Data

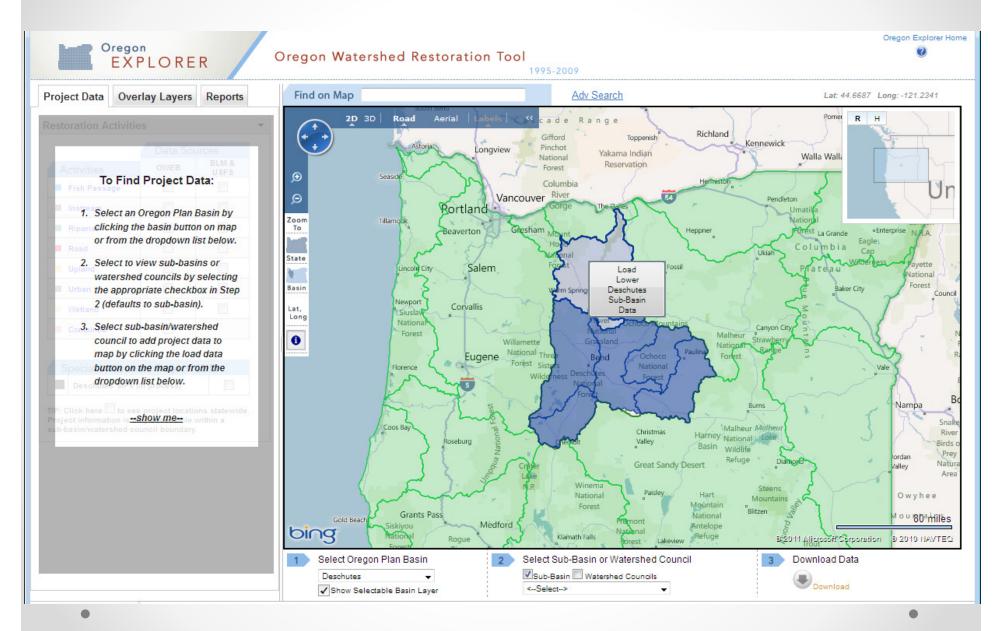


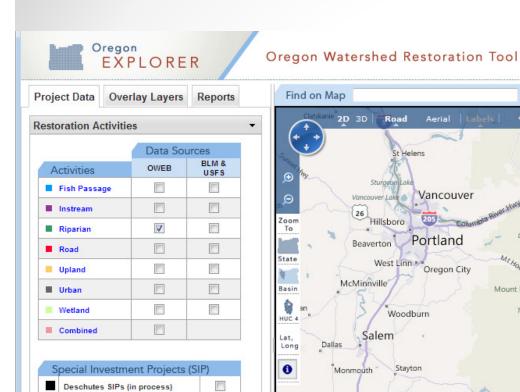
### Providing Access to Local Water Quality Data



Future -- Providing access to crowd-sourced water quality data via "Monitool" in partnership with Gauge Scientific?

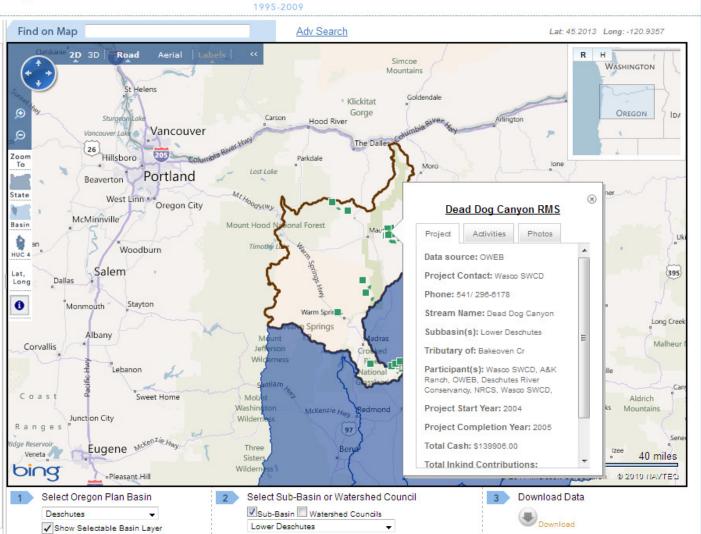
### Watershed Restoration Tool





TIP: Click here to see project locations statewide.

Project information is only accessible within a sub-basin/watershed council boundary.



Oregon Explorer Home





Information to policymakers about rural is and change ii communities.

In partnership Rural Studies

# **Community Data**



#### **Explore Rural Communities**

What is a community?

What is rural?

Rural Oregon stories

Use the <u>Rural Communities Explorer</u> Tutorial

Glossary of rural terms

#### Research, Map & Analyze

Access community data

Use the Community Model

Map rural issues

Find data sources for rural communities

Reports and Publications

### Issues in Rural Oregon

Learn about rural issues

What is community vitality?

Redefining Oregon

Experts & Other Resources

### ACCESS COMMUNITY DATA

2006-2010 Community Data NOW AVAILABLE for communities in Oregon and Siskiyou County, CA!!

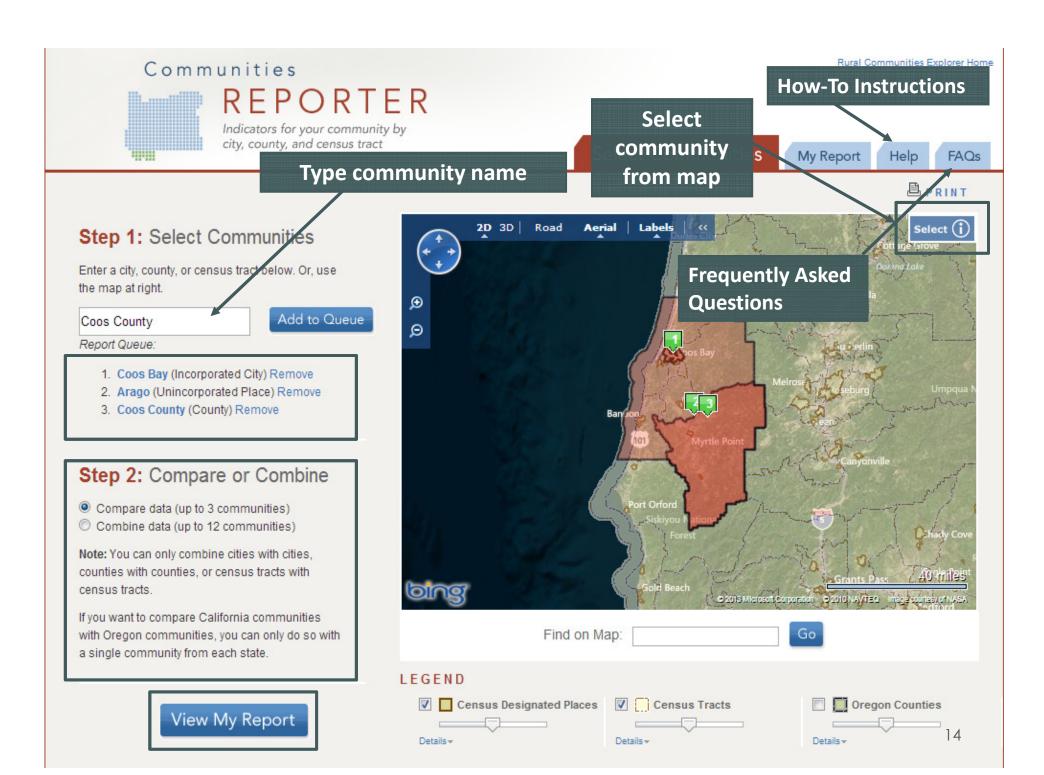
The Communities Reporter Tool has been updated with 2006-2010 data from the American Community Survey, 20 census data, and 2010 data from over 25 other sources for all of the 1,431 places and 37 counties in Oregon and Siskiyou County, CA.



And now you can upload or download documents with information about you can upload or download documents with information about you can upload or download documents with information about you secondary secondary in the Communities Reporter Tool! Use this feature to access unique community data, or as an opportunity to share community data that you have gathered, with the public.

#### Video Introduction to the Rural Communites Explorer





### Community Documents

Population

Age

Family Structure

#### Education

Income

Employment & Labor Market

Migration

Race & Ethi Health & Mc Repor

Crime & Abuse

Housing

Food system

Natural Resources & Amenities

Economic Resources

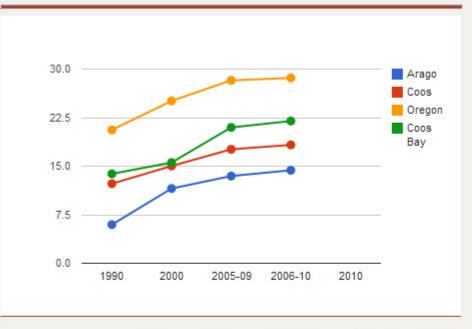
Environmental Health

Community Capacity

Classifications

### Education

## Percentage of Adults with 4-year Degree or Greater



	1990	2000	2005-09	2006-10	2010
Coos Bay	13.82%	15.56%	20.99%	21.98%	-
Arago	5.97%	11.55%	13.48%	14.37%	50
▼ Coos	12.30%	15.03%	17.61%	18.29%	22
Oregon	20.60%	25.08%	28.26%	28.64%	
http:/	/oe.oregonexplo	rer.info/rural/O	regonCommuniti	esReporter	

DOWNLOAD.

a available

egon

2006-10

88.55% +/- 0.4%

28.64% +/- 0.3%

Formula: ([# people over 25 with 4year degree + # with master s + # with professional degree+ # with doctorate]/[total population over 25])\*100

Communities

year Degree or Greater

education.

Percentage of Adults with 4-

25+ with 4-year degree or greater

The percentage of the population age

REPORTER

Source: US Census Bureau Decennial Census (1990, 2000), American Community Survey (2005-09). a available

egon

2010

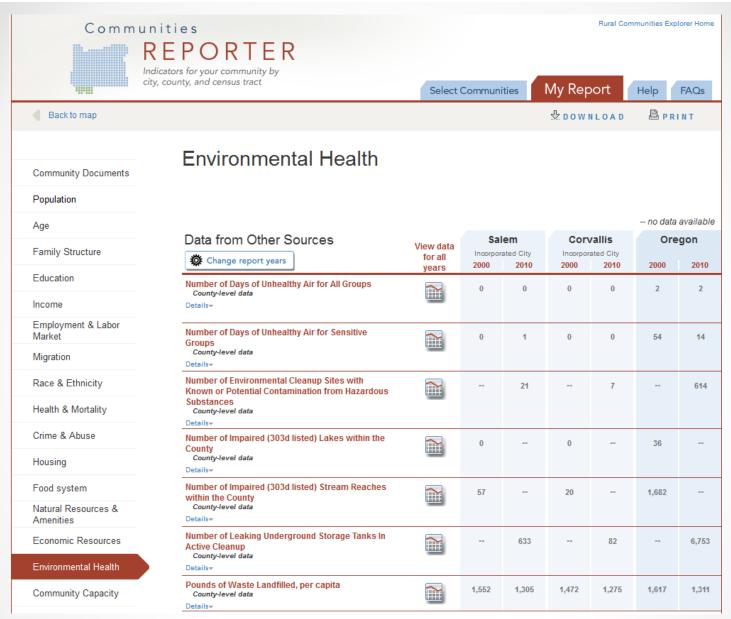
3.35%

51.19%

2200

15

Details+

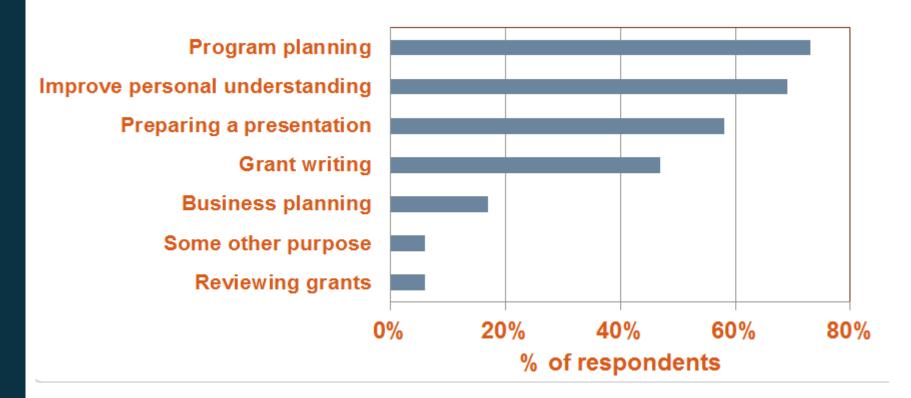


Future Enhancement – Tracking Oregon's Progress Indicators (TOP) for Healthy Economy, Communities, Environment

with support from Oregon Community Foundation & OSU Rural Studies Program

### Users & Uses of the Rural Communities Explorer

- 4,000 people/month
- 55,000 visits since Oct. 2010



2012 User Survey

Oregon State

### **Initiatives**

#### HIS Central - current status

- A quick data extraction for Western Oregon yields 18 major web services and roughly 20,000 data series from HIS Central
- Metadata, documentation, and related information on data and series
- Standardized database and repository for data and archiving
- Publicly accessible and supported by CUASHI, state and federal organizations and over 100 universities
- Interface for major data model and database management



### Hydrologic Information Server



Willamette Water 2100 produced data













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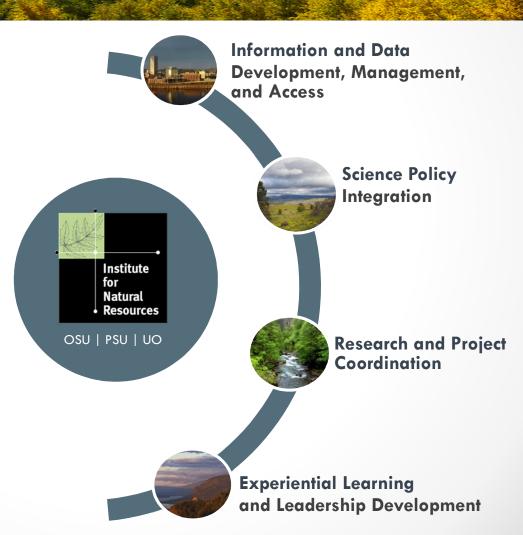
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