

***Communities & Natural Resources:  
Bringing it all together with  
Oregon Explorer***



**Best Practices Exchange 2013**

Ruth Vondracek

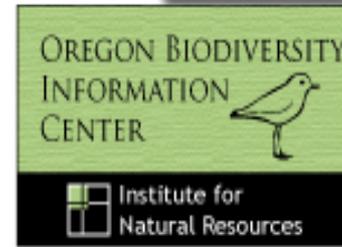
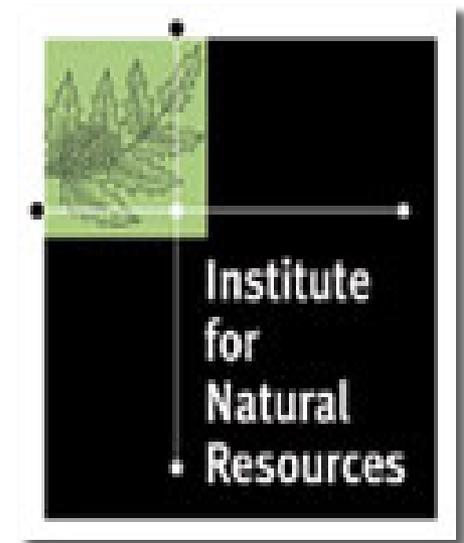
Oregon State University

Special Collections & Archives Research Center

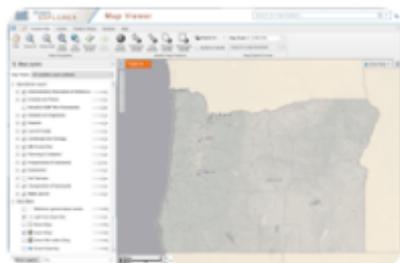
# Oregon Explorer Collaboration



Libraries & Press



## TOOLS



- ▶ [Oregon Explorer Map Viewer](#)
  - [Tutorials](#)
- ▶ [Watershed Restoration Tool](#)
  - [Tool and data info](#)
- ▶ [Community Reporter Tool](#)
- ▶ [Oregon Wildlife Viewer](#)
- ▶ [See all tools...](#)

## DATA & DOCS



- ▶ [Oregon Spatial Data Library](#)
- ▶ [Oregon Imagery Explorer](#)
- ▶ [Find resources](#)



# Oregon EXPLORER

Natural Resources Digital Library

Browse EXPLORER Sites:

[Location](#) ▾

[Topic](#) ▾

[Data](#) ▾

[About](#) ▾

## Welcome to the Oregon Explorer!

*Information to help citizens, planners, and policymakers make more informed decisions about Oregon's natural resources and communities.*

## NEW! Updated Imagery Explorer



The updated Imagery Explorer now provides streaming and download access to five generations of statewide aerial imagery: 1995, 2000, 2005, 2009, 2011, with the addition of 2009 and 2011 Color Infrared, Pictometry orthophotos in selected urban centers, bare earth hillshade, and other products derived from available Lidar data. Developed in partnership with the [Oregon Geospatial Enterprise Office \(GEO\)](#) and ESRI.



**Central access for natural resource and community information in Oregon and the West since 2007.**

**Location Portals**

-  [Deschutes Basin Explorer](#)
-  [Lakes Basin Explorer](#)
-  [North Coast Explorer](#)
-  [Umpqua Basin Explorer](#)
-  [Willamette Basin Explorer](#)
-  [Western Landscapes Explorer](#)

**Topic Portals**

-  [Farm Explorer](#)
-  [Hazards Explorer](#)
-  [Land Use Explorer](#)
-  [Rural Communities Explorer](#)
-  [Wetlands Explorer](#)
-  [Wildfire Risk Explorer](#)
-  [Wildlife Explorer](#)

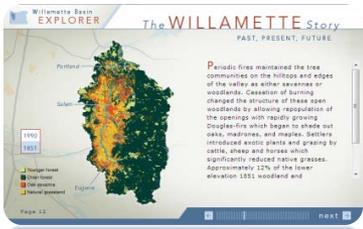
**Data Portals**

-  [Imagery Explorer](#)
-  [Oregon Spatial Data Library](#)

**About Oregon Explorer**

- More about [Oregon Explorer portals](#)
- [About this site](#)
- [How to use Oregon Explorer](#)

**Stories**



**Resources**

**ADDITIONAL RESOURCES**

**Biodiversity Partnership**  
The Biodiversity Partnership website is a Defenders of Wildlife initiative dedicated to promoting and supporting regional and statewide strategies to conserve biodiversity. The initiative has its roots in the Oregon Biodiversity Project, a collaborative effort begun in the mid-1990s that resulted in one of the nation's first statewide biodiversity assessments.

**Conservex Online**  
ConservexOnline is a meeting place for the conservation community, open to anyone who wants to find or share information relevant to conservation science and practice.

**EBM Tools Network**  
The EBM Tools Network is an alliance of EBM tool developers, practitioners, and training providers to develop and support software tools for ecosystem-based management (EBM) in coastal and marine environments, including coastal watersheds and the Great Lakes region.

**EPA Surf Your Watershed**  
The EPA's Surf Your Watershed service can help you locate, use, and share environmental information about your state and watershed.

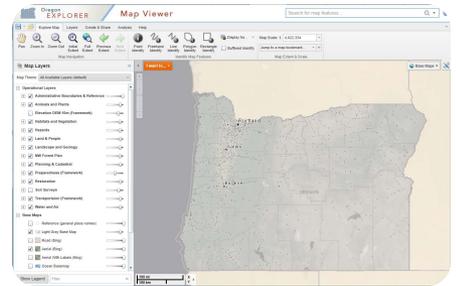
**Fishing - Software and Learning Systems for Fish Passage through Culverts**  
Pronounced "Fish Crossing", this software is intended to assist engineers, hydrologists, and fish biologists in the evaluation and design of culverts for fish passage. It is free and available for download.

**Greenbelt Land Trust**  
The Greenbelt Land Trust is a non-profit organization whose goal is to enhance and protect the open space amenities essential to preserving quality of life in the mid-Willamette Valley.

**Data**



**Tools**



# Oregon Explorer Portals

## Location Portals

 [Deschutes Basin](#) Explorer

 [Lakes Basin](#) Explorer

 [North Coast](#) Explorer

 [Umpqua Basin](#) Explorer

 [Willamette Basin](#) Explorer

 [Western Landscapes](#) Explorer

## Topic Portals

 [Farm](#) Explorer

 [Hazards](#) Explorer

 [Land Use](#) Explorer

 [Rural Communities](#) Explorer

 [Wetlands](#) Explorer

 [Wildfire Risk](#) Explorer

 [Wildlife](#) Explorer

## Data Portals

 [Imagery](#) Explorer

 [Oregon Spatial Data Library](#)

## About Oregon Explorer

More about [Oregon Explorer portals](#)

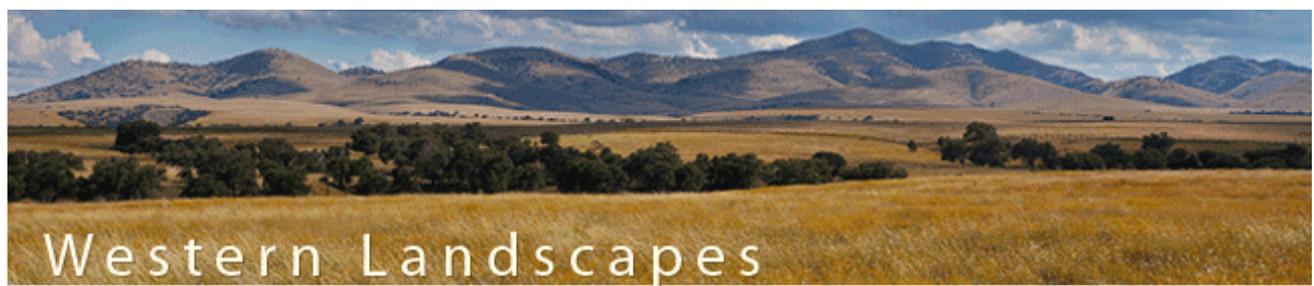
[About](#) this site

[How to use](#) Oregon Explorer



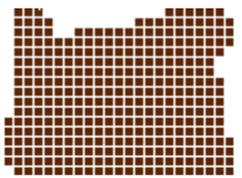
### Natural Resources Digital Library

*Providing access to information to evaluate large landscapes over time in the West*



## Western Landscapes

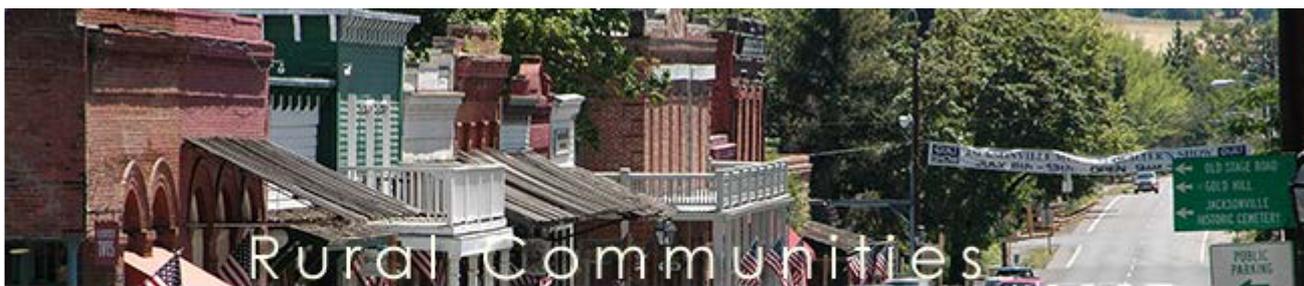
# EXPLORER



### Natural Resources Digital Library

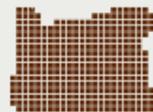
*Information to help local citizens and policymakers make better decisions about rural issues including vitality and change in Oregon's rural communities.*

In partnership with:  
**Rural Studies Program**



## Rural Communities

# EXPLORER



Natural Resources Digital Library

Information to support the conservation and restoration of Oregon's wetlands



In partnership with:  
**The Wetlands Conservancy**  
**Oregon Department of State Lands**

**Explore Oregon's Wetlands**

The [importance](#) and [history](#) of wetlands

[Types](#) of wetlands

Wetland [plant associations](#)

Studying wetlands [hydrology and soils](#)

Learn about wetland [ecology](#), [plants and animals](#), [invasive species](#), and [at-risk](#) species

**Research, Map & Analyze**

[ORWAP](#) reporter

Use our [mapping tools](#) and view maps

Find [wetland data](#)

[Reports](#) and publications

View [photos and videos](#)

**Issues & Actions**

Wetland [conservation](#), [monitoring](#), and [rehabilitation](#)

Wetland [mitigation](#) and [regulation](#), [stressors](#), [climate change](#) and its effect on wetlands

Wetland [ecosystem services](#) and their [valuation](#)

**Experts & Other Resources**

Find [expertise](#) and contacts

In the [news](#)

[Funding and technical assistance](#)

Other **OREGON EXPLORER** Sites

**OREGON'S GREATEST WETLANDS**

**Priority Wetlands for Conservation and Restoration**

Wetlands are uniquely productive and valuable ecosystems, and provide a wide range of ecological, social and environmental functions. Though often limited in size, they occur in all corners of Oregon and are among the most biologically productive and species-rich habitats in the state. Coastal salt marshes, pitcher-plant bogs, mountain fens, valley bottom vernal pools, wet prairies, spruce swamps and desert saltgrass flats are a small sampling of the diversity of wetland types in Oregon.



Wetlands are habitat for plants, animals, invertebrates, fish, and fungi. They store flood waters, maintain base flows, and recycle nutrients and chemicals while providing opportunities for recreation, education, and aesthetic experiences. Read [full story](#).

**CONSERVING YAQUINA ESTUARY**



The [Wetlands Conservancy](#) recently acquired 480 acres that will be the cornerstones of a comprehensive protection system for the highest priority salt marsh sites in Yaquina Estuary. The new acquisitions have been the spark for additional acquisitions in the Yaquina, Alsea Bay and Beaver Creek watersheds.

It has helped launch a multi-partner vision of 10,000 acres of conserved forest, riparian, wetland, mudflat and estuary lands from Newport to Waldport.



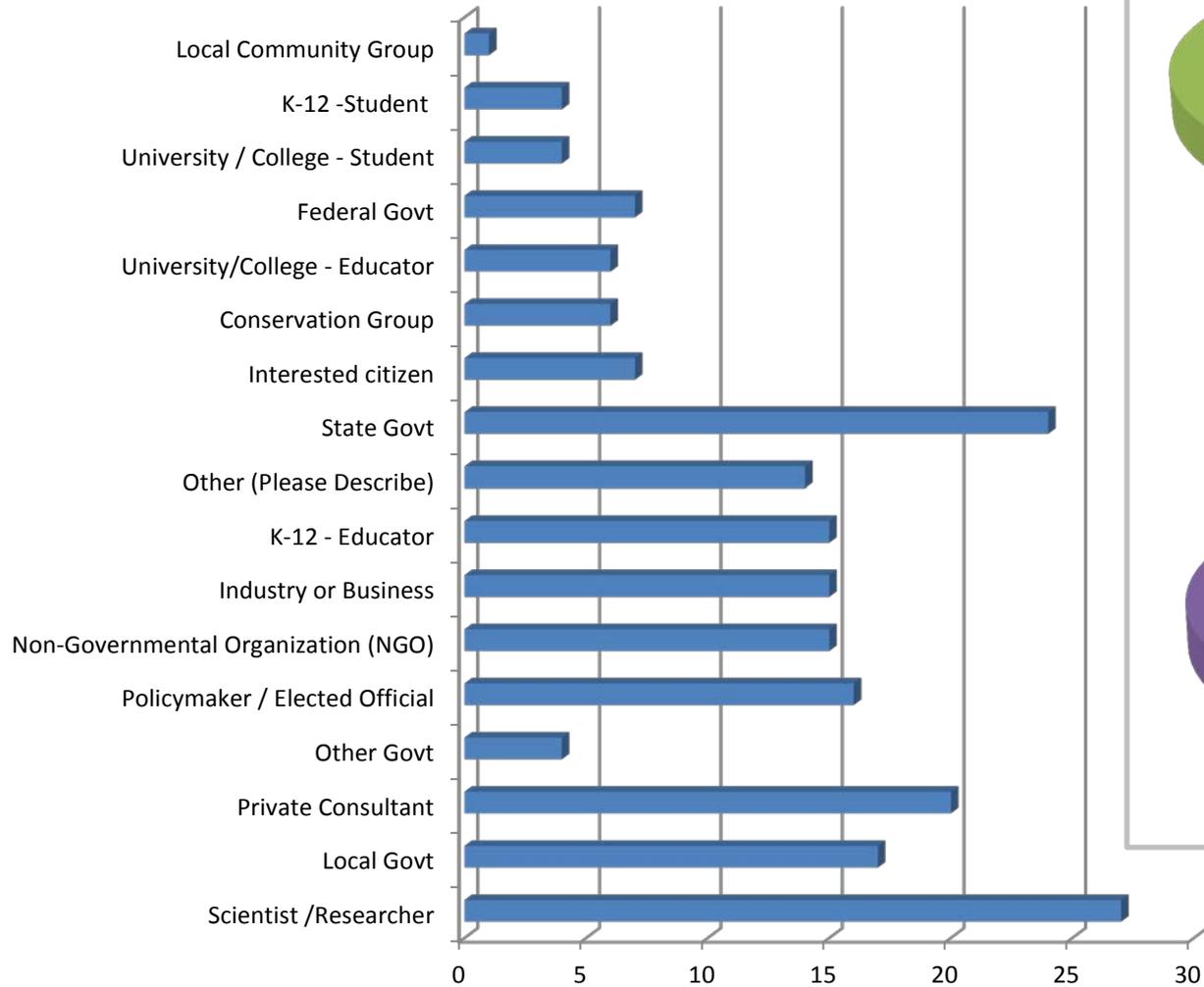


# Technology

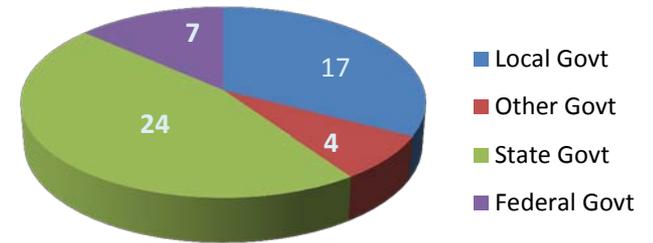
- ❖ Site architecture – Drupal
- ❖ Mapping software – GeoCortex  
formerly ArcGIS
- ❖ Blacklight search –  
formerly LibraryFind



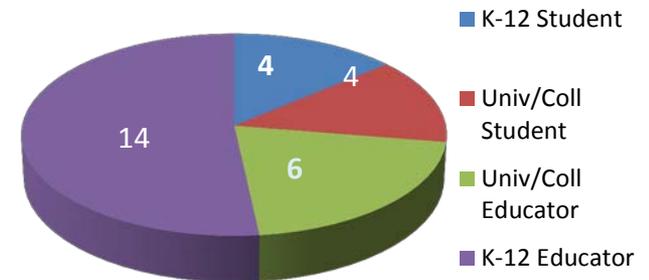
# Affiliations



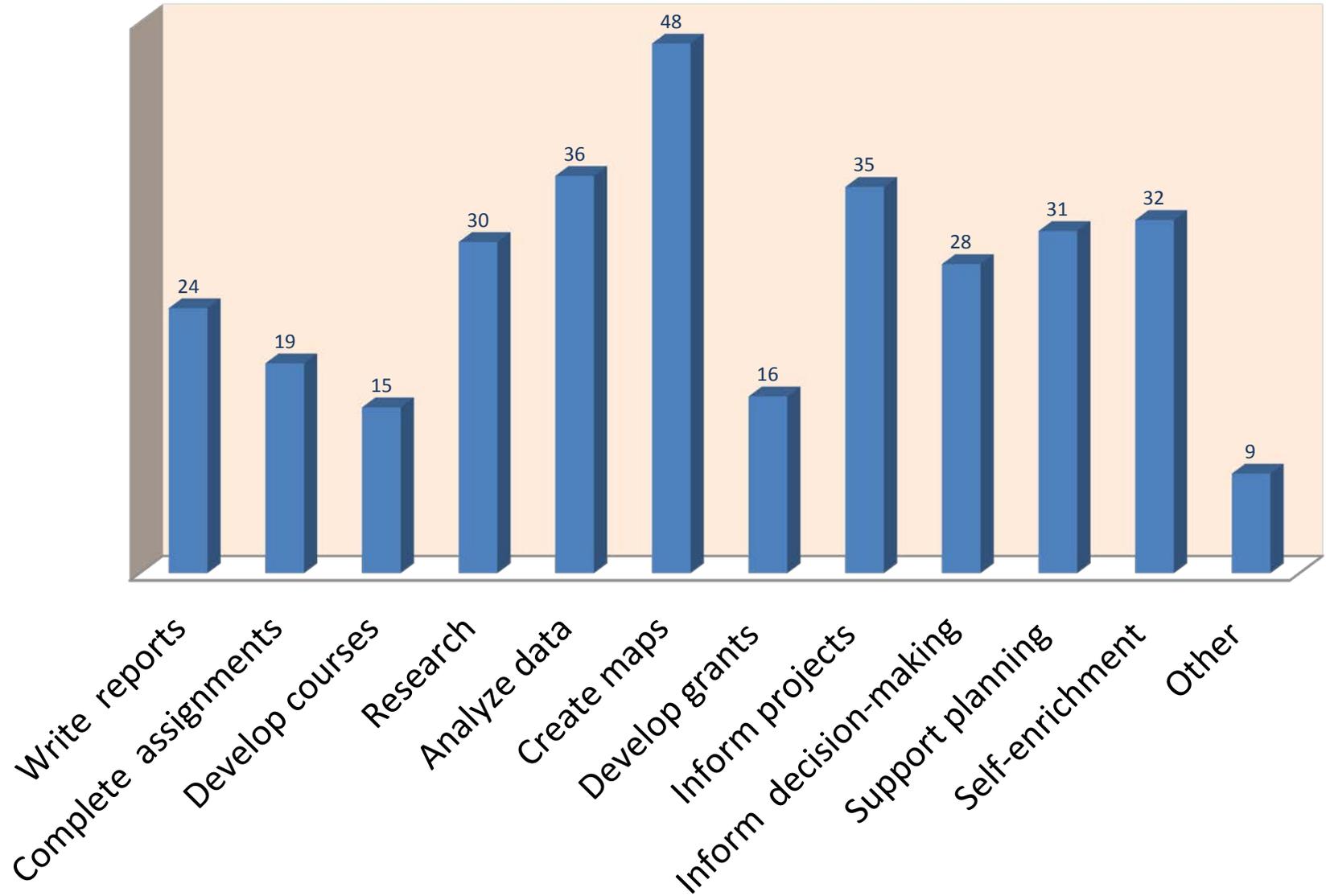
## Government Affiliations

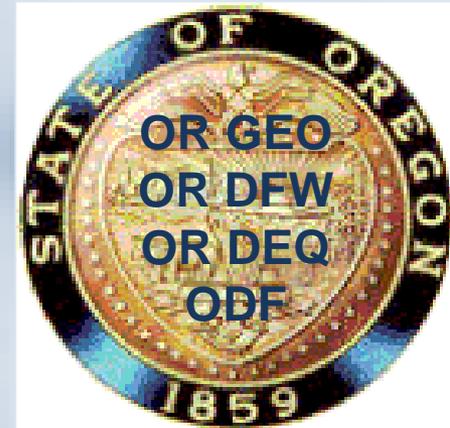
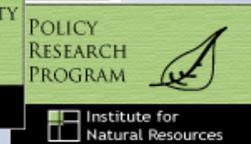
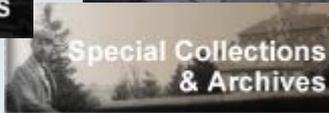


## K – 20 Affiliations



# Use of Information and Data







**Content-DM** → **Hydra**  
**DC**



**dSPACE**  
**DC**



**EAD**



<b>dc.relation</b>	North Coast Explorer
<b>dc.relation</b>	Oregon Explorer
<b>dc.relation</b>	Umpqua Explorer
<b>dc.relation</b>	Wetlands Explorer
<b>dc.subject.other</b>	Watershed assessment
<b>dc.subject.other</b>	Coos Bay
<b>dc.subject.other</b>	Watershed plan
<b>dc.subject.other</b>	South Slough National Estuarine Research Reserve

## Explore Oregon's Wetlands

The [importance](#) and [history](#) of wetlands

[Types](#) of wetlands

Wetland [plant associations](#)

Studying wetlands [hydrology and soils](#)

Learn about wetland [ecology](#), [plants and animals](#), [invasive](#) species, and [at-risk](#) species

## Research, Map & Analyze

[ORWAP](#) reporter

Use our [mapping tools](#) and view maps

Find [wetland data](#)

[Reports](#) and publications

View [photos and videos](#)

## Issues & Actions

Wetland [conservation](#), [monitoring](#), and [rehabilitation](#)

Wetland [mitigation](#) and [regulation](#), [stressors](#), [climate change](#) and its effect on wetlands

[Home](#)

## REPORTS AND PUBLICATIONS

Oregon Explorer's digital library provides access to a rich collection of historical and current reports and publications on Oregon's wetlands and related topics. The Library includes the Oregon State University's [ScholarsArchive](#), an institutional repository hosted by the OSU Libraries, University of Oregon's ScholarsBank, and the joint digital collections of OSU and UO, among others. You may browse by title, author, or date and search by place, county, topic, or other keywords.

[Search now](#) for information on Oregon's wetlands and related topics.

For additional selected reports and publications about Oregon's wetlands, use the links below:

- Oregon Coastal Estuaries Data and Information Workshop [agenda and presentations](#)
- Wetland [bibliographies](#)
- Wetland [reports](#)



### Search the Oregon Explorer Collections

Text   Images   **All**

[Advanced Search](#)

### Search results for '[Oregon wetlands](#)'

#### Refine Results

**Material Types**

- Articles (23 results)
- Books (13 results)
- Gis vector datas (1 results)
- Images (3 results)
- Internets (5 results)
- Others (5 results)
- Pages (5 results)
- Research papers (7 results)
- Technical reports (6 results)
- Texts (1 results)
- Theses (4 results)

**Subjects**

- Natural resources --
- Oregon -- Portland (5 results)

Results 1 - 10 of 106 hits   **Sort by:** Relevance

#### [Image results from the Oregon Digital Library Partners](#)



[Article] [Review of 2003-2007 Oregon Statewide Comprehensive Outdoor Recreation](#)  
2 p. Review produced for HC 441: Science Colloquium: Willamette River Environmental Health, Robert D. Cl...  
University of Oregon, Spring term, 2004  
[University of Oregon ScholarsBank](#)  
[Full Abstract](#)   [Citation](#)   [Save This Item](#)

## Subjects

Natural resources -- Oregon -- Portland (5 results)  
Development impacts (3 results)  
Neighborhood planning -- Oregon -- Veneta (1 results)  
Storm sewers -- Oregon -- Portland (1 results)  
Regional planning -- Oregon -- Lane County (1 results)  
[\[More Subjects...\]](#)

## Authors

Begnaud, Mark Mark Begnaud (1 results)  
Lovema Wilson (1 results)  
Lane Council of Governments (Or.) (1 results)  
Findley, Tim (1 results)  
Bauer, John Paul Adamus (1 results)  
[\[More Authors...\]](#)

## Databases

University of Oregon ScholarsBank (25 results)  
ScholarsArchive (25 results)  
Oregon Department of Fish and Wildlife (21 results)  
UO/OSU Digital Image Collections (20 results)  
Oregon Explorer Archive-It Digital Library (15 results)

[University of Oregon ScholarsBank](#)

[Full Abstract](#) [Citation](#) [Save This Item](#)

[Article] [Review of Wetland regulatory compliance in the Willamette Valley, Oregon, 1982](#)

2 p. Review produced for HC 441: Science Colloquium: Willamette River Environmental Health, Robert D. C  
University of Oregon, Spring term, 2004

[University of Oregon ScholarsBank](#)

[Full Abstract](#) [Citation](#) [Save This Item](#)

[Article] [Review of Wetland and land use change in the Willamette Valley, Oregon, 1982](#)

2 p. Review produced for HC 441: Science Colloquium: Willamette River Environmental Health, Robert D. C  
University of Oregon, Spring term, 2004

[University of Oregon ScholarsBank](#)

[Full Abstract](#) [Citation](#) [Save This Item](#)

[Internet] [Effects of grass seed agriculture on aquatic invertebrate communities in](#)

Wyss, Lance A. Lance A. Wyss | aquatic invertebrates; farmed wetlands; wet prairie;

[Effects of grass seed agriculture on aquatic invertebrate communities in seasonal wetlands](#)

[Citation](#) [Save This Item](#)

[Research paper] [A historical reconstruction and land use history of six tidal wetlands in](#)

Hennessey, Jennifer Taylor Jennifer Taylor Hennessey | Tidal wetlands; Land use;

[A historical reconstruction and land use history of six tidal wetlands in Oregon](#)

[Citation](#) [Save This Item](#)

[Assessment of Potential Dike-Breach Restoration of Estuarine Wetlands in Tillamook Bay,](#)

[Assessment of Potential Dike-Breach Restoration of Estuarine Wetlands in Tillamook Bay,](#)

[Citation](#) [Save This Item](#)

[Thesis] [Seasonal floodplain wetlands as fish habitat in Oregon and Washington](#)

Baker, Cynthia F. Cynthia F. Baker | floodplain wetland; fish community; Floodplain ecology

## Search the Oregon Explorer Collections

Text

Images

All

Oregon wetlands

Find It!

[Advanced Search](#)

Search results for ['Oregon wetlands'](#) > ['Oregon Explorer Archive-It Digital Library'](#) 

### Refine Results

#### Material Types

Articles (15 results)

#### Databases

[Unfilter Databases](#)

Results 11 - 15 of 106 hits

Sort by: Relevance

[Article] [Partners - Natural Resources Conservation Service](#)

Partners - Natural Resources Conservation Service OACD Home Contact Us About Us Calendar, M Oregon's Conservation Districts Membership Join Today! Why is Conservation Important? Resource *Partners - Natural Resources Conservation Service*

[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'Oregon Explorer Archive-It Digital](#)

[Article] [Northwest | Defenders in Action: Ecosystem Markets | Defenders of Wildlife](#)

naturally. For example, trees give us oxygen and shade, forests purify our drinking water, and wet wetlands , pollination, and soil productivity. An ecosystem market arises when... three priority hab *Northwest | Defenders in Action: Ecosystem Markets | Defenders of Wildlife*

[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'Oregon Explorer Archive-It Digital](#)

[Article] [PNW River Reach File Documentation](#)

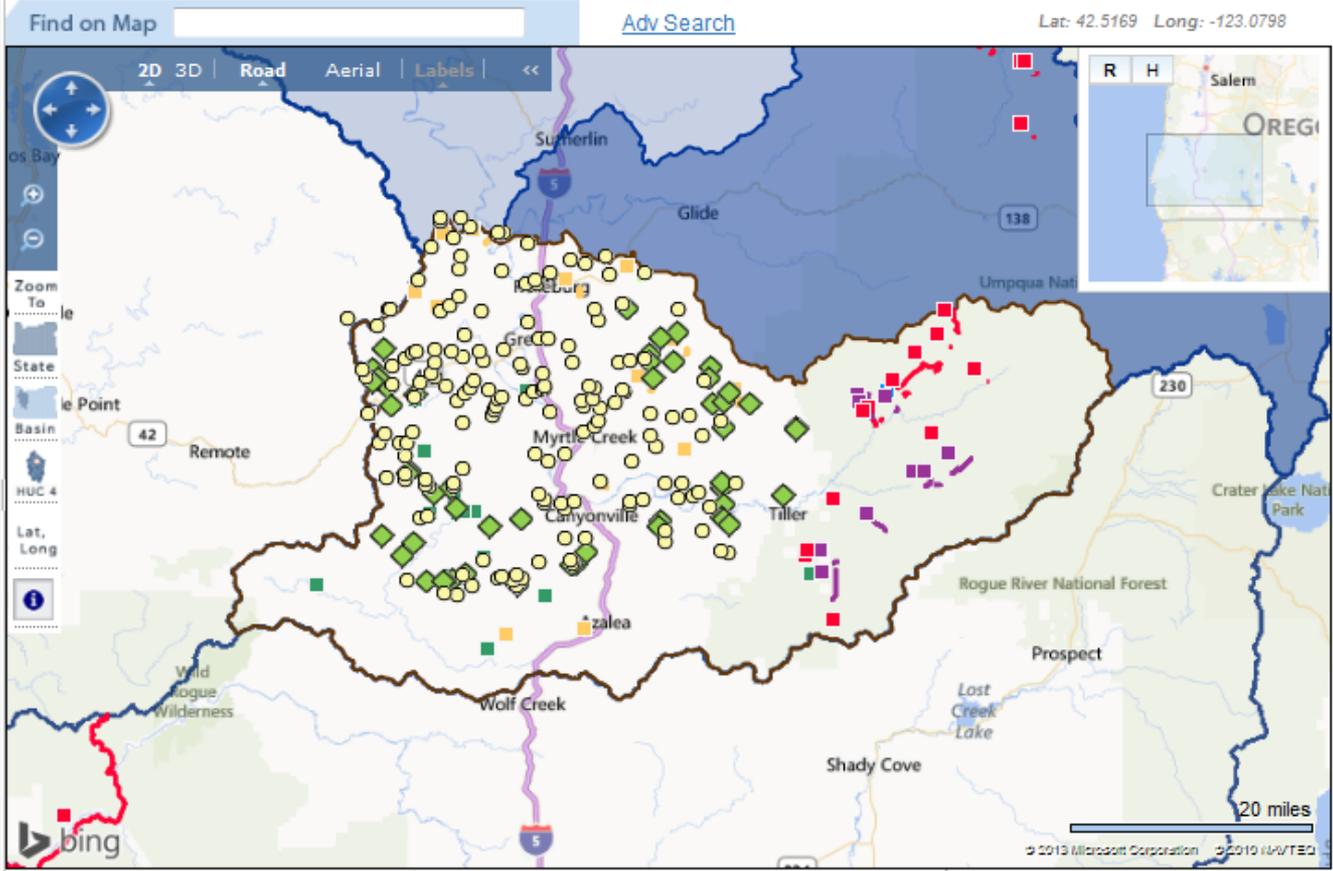
JON BOWERS - OREGON DEPARTMENT OF FISH AND WILDLIFE BART BUTTERFIELD - IDAHO DEPART Columbia River Basin within the conterminous United States, the coasts of Oregon and Washington *PNW River Reach File Documentation*

[Full Abstract](#) [Citation](#) [Save This Item](#) [more from 'Oregon Explorer Archive-It Digital](#)

Project Data	Overlay Layers	Reports																											
<table border="1"> <thead> <tr> <th>Activities</th> <th>OWEB</th> <th>BLM or USFS</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Fish Passage</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Instream</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Riparian</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Road</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Upland</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Urban</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Wetland</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Combined</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Activities	OWEB	BLM or USFS	<input checked="" type="checkbox"/> Fish Passage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Instream	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Riparian	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Upland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Urban	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Wetland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Combined	<input type="checkbox"/>	<input type="checkbox"/>		
Activities	OWEB	BLM or USFS																											
<input checked="" type="checkbox"/> Fish Passage	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input checked="" type="checkbox"/> Instream	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input checked="" type="checkbox"/> Riparian	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input checked="" type="checkbox"/> Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input checked="" type="checkbox"/> Upland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input type="checkbox"/> Urban	<input type="checkbox"/>	<input type="checkbox"/>																											
<input checked="" type="checkbox"/> Wetland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																											
<input checked="" type="checkbox"/> Combined	<input type="checkbox"/>	<input type="checkbox"/>																											

TIP: Click here  to see project locations statewide. Project information is only accessible within a sub-basin/watershed council boundary.

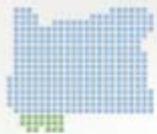
Fish Passage Inventory	
<b>Bureau of Land Management (BLM)</b>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Passable
<input type="checkbox"/>	<input checked="" type="checkbox"/> Not Passable
<b>Umpqua Basin Fish Access Team (UBFAT)</b>	
<input type="checkbox"/>	<input type="checkbox"/> Not a barrier
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Barrier to all juvenile species
<input type="checkbox"/>	<input checked="" type="checkbox"/> Barrier to adult Cutthroat and Coho



1 Select Oregon Plan Basin  
 Umpqua  
 Show Selectable Basin Layer

2 Select Sub-Basin or Watershed Council  
 Sub-Basin  Watershed Councils  
 South Umpqua

3 Download Data



# REPORTER

Indicators for your community by  
city, county, and census tract

[Select Communities](#)
[My Report](#)
[Help](#)
[FAQs](#)

PRINT

## Step 1: Select Communities

Enter a city, county, or census tract below. Or, use the map at right.



Report Queue:

1. [Corvallis](#) (Incorporated City) [Remove](#)

## Step 2: Compare or Combine

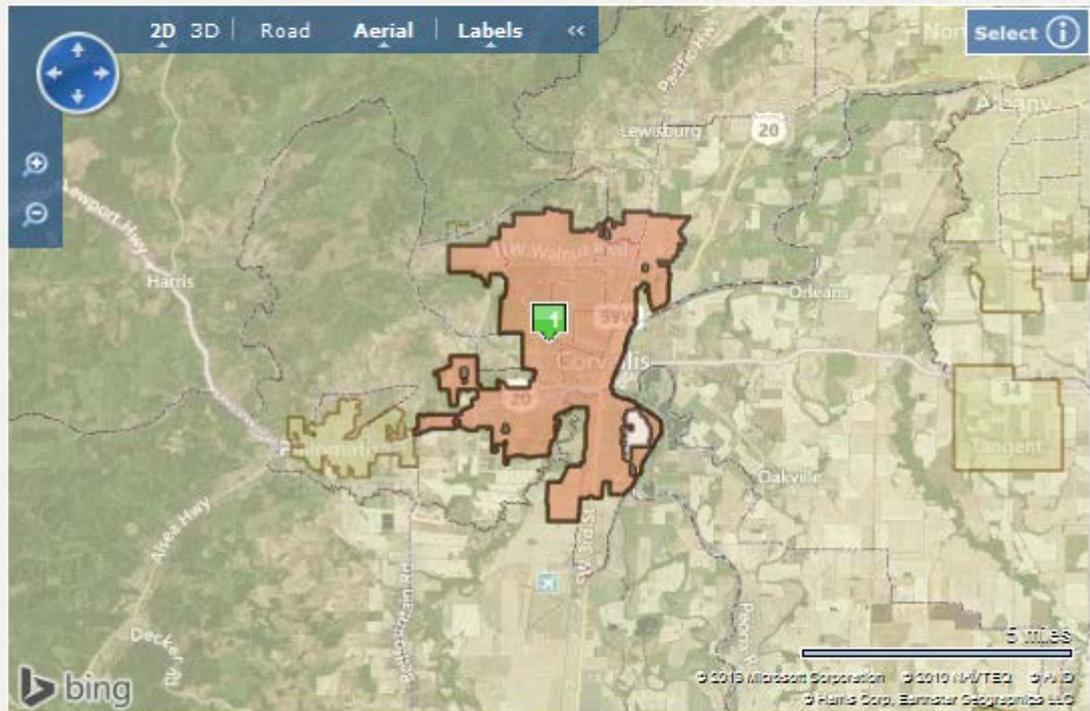
- Compare data (up to 3 communities)  
 Combine data (up to 12 communities)

**Note:** You can only combine cities with cities, counties with counties, or census tracts with census tracts.

If you want to compare California communities with Oregon communities, you can only do so with a single community from each state.

## Step 3: Compare To

- Rural Oregon or Siskiyou County [\(?\)](#)  
 Urban Oregon or Siskiyou County [\(?\)](#)  
 Whole State (Oregon or California) [\(?\)](#)


 Find on Map: 


### LEGEND



Census Designated Places

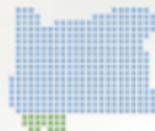


Census Tracts



Oregon Counties





# REPORTER

Indicators for your community by city, county, and census tract

Select Communities

**My Report**

Help

FAQs

◀ Back to map

↓ DOWNLOAD

🖨️ PRINT

🔗 LINK

## Food system

Community Documents

Population

Age

Family Structure

Education

Income

Employment & Labor Market

Migration

Race & Ethnicity

Health & Mortality

Crime & Abuse

Housing

**Food system**

Natural Resources & Amenities

Economic Resources

Environmental Health

### Data from Other Sources

⚙️ Change report years

View data for all years

-- no data available

		Corvallis		Oregon (i)	
		Incorporated City			
		1990	2011	1990	2011
<b>Prevalence of Farmers Markets, per 1,000 population</b>		--	0.06	--	0.05
<a href="#">Details</a>					
<b>Prevalence of Retail Food Stores, per 1,000 population</b>		--	0.52	--	0.45
<a href="#">Details</a>					
<b>Estimated Percentage of Individuals who are Food Insecure</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					
<b>Estimated Percentage of Individuals who are Food Insecure with Hunger</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					
<b>Estimated Number of Food Insecure Individuals</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					
<b>Estimated Percentage of Children who are Food Insecure</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					
<b>Estimated Number of Food Insecure Children</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					
<b>Average Cost of a Meal</b>		--	--	--	--
<i>County-level data</i>					
<a href="#">Details</a>					

# Challenges

- Keeping content and data fresh have been a challenge
  - Developed through small grants, one portal at a time
  - Only a few of these portals resulted in long-term relationships
  - No early MOUs
- Structure of site not-integrated
- Display records, publications, photos in a meaningful way
- Blend historical and current content



# Goals for redesign

- More site integration
- Elevate tools/maps access
- Mobile friendly
- Updated look and feel
- Improved search
- Integrate maps throughout
- Improved navigation

# Ruth Vondracek

Oregon State University

Special Collections & Archives Research Center

[ruth.vondracek@oregonstate.edu](mailto:ruth.vondracek@oregonstate.edu)

