

Integrated Water Resources Strategy

2010 Open House Visual Summary



Burns, Oregon

Gresham – March 31

Ontario – April 7

Umatilla – April 8

Bandon – April 22

Tillamook – April 28

Medford – May 11

Klamath Falls – May 12

Redmond – May 13

Burns – May 25

Salem – June 8

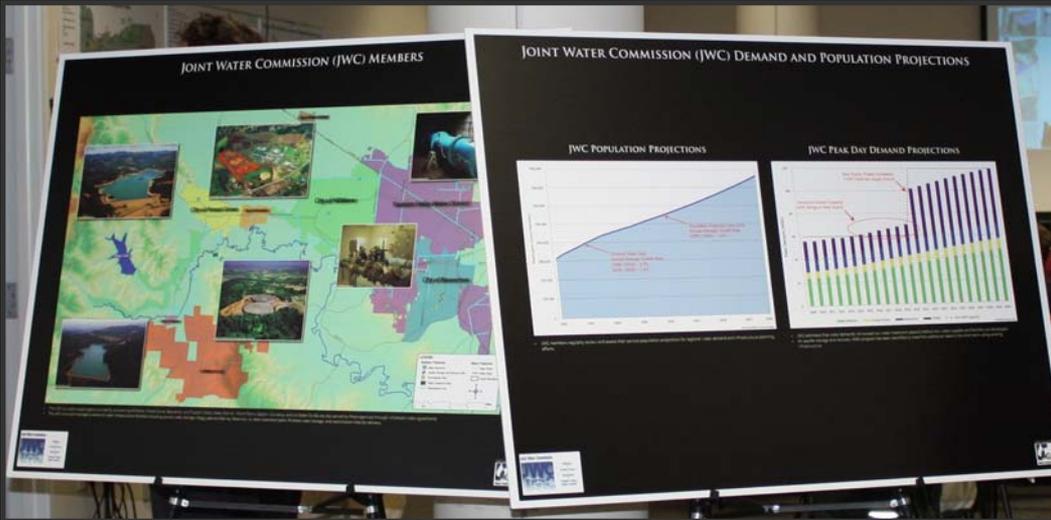
Eugene – June 10

The following pages highlight the water resources projects, displays, and information featured during the spring 2010 open house events. Most state agency staff and other public officials that participated are named in various photos. The businesses, organizations, and individuals that volunteered their time and resources, helping to make this public outreach effort a success, are recognized at the end of the document. Thank you to the Oregonians that attended an open house, completed a survey, or contributed to the discussion!

~ IWRS Project Team

August 2010

Gresham



Staff from the Joint Water Commission brought two displays that featured information on population projections, demand, and included an overview of its members.



Staff from the Regional Water Providers Consortium brought a display and information that featured guidance on water efficient plants, children's education materials, and other water conservation tips and tools.

Commissioner John Jackson,
Water Resources Commission



Terry Black and Alana Kambury,
Portland Water Bureau



Bruce McIntosh,
Oregon Department of Fish and Wildlife



Darrell Hedin,
Watermaster, Hillsboro office

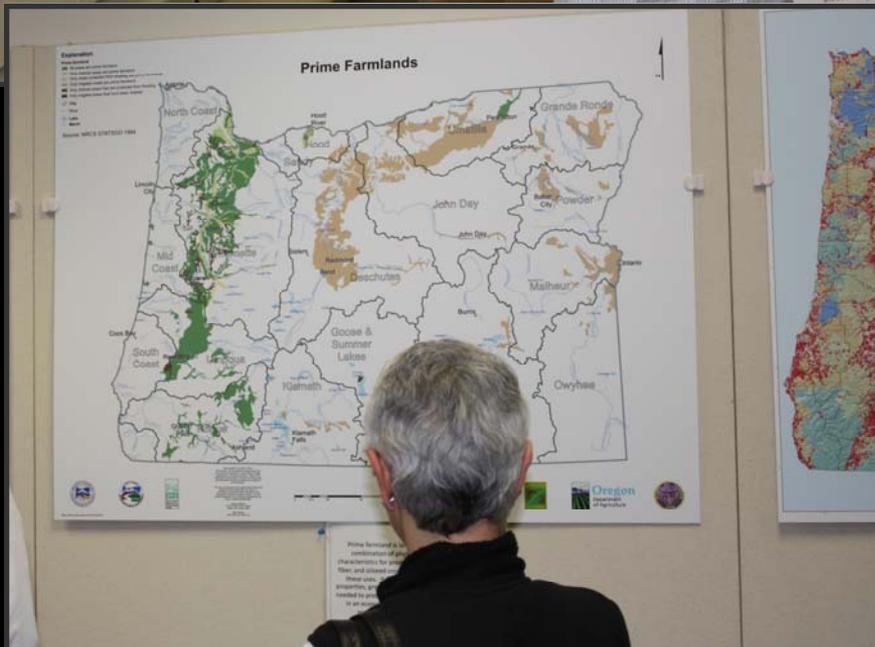


Participants viewing the Map Gallery



The maps covered a variety of information, including:

- Ecoregions
- Population Density
- Prime Farmlands
- Forest Ownership
- Fish Distribution
- Listed Fish Species
- Scenic Waterways
- Instream Water Rights
- Impaired Stream & Lakes
- Groundwater Management
- Precipitation
- Water Availability
- Potential Storage Sites
- Aquifer Storage and Recovery
- Climate Change
- Streamflow Restoration





Jeanna Hall,
Clean Water Services





Gresham Event Facilitators,
Terry Buchholz,
Integrated Water Solutions, LLC
Terry Black,
Portland Water Bureau



DEQ staff Doug Drake and Karen Williams with ODFW staff Danette Faucera



Thank you to Clean Water Services for providing refreshments at the Gresham event.



Elected Officials in Attendance...

Representative Jefferson Smith

Representative Nick Kahl

Representative Greg Matthews

Senator Jackie Dingfelder's Office



Ontario





The Grande Ronde Model Watershed, Anderson Perry and Associates, Powder Basin Water & Stream Health Committee, Department of Geology and Mineral Industries, Oregon Department of Fish and Wildlife, and Baker Valley Soil and Water Conservation District provided displays, materials and brochures.



Projects and information featured in

Ontario included:

- Powder River water quality enhancement efforts
- Invasive species management
- Piping projects
- Local geology
- Cooperative habitat restoration projects in the Grande Ronde
- Wallowa River channel restoration





Thank you to Anderson Perry & Associates for providing refreshments at the Ontario event.



*Rick Lusk, Watermaster, Baker City office
Tony Rutherford, Watermaster, Burns office*



Brenda Bateman,
Oregon Water Resources Department

Jim Nakano, *Malheur County Commissioner
and former Water Resources Commissioner*



Ray Perkins,
Oregon Department of Fish and Wildlife



Lynn Shumway,
Burnt River Irrigation District

Representative Cliff Bentz



Ontario Event Facilitators,
Linda Rowe,
*Malheur County Soil and Water
Conservation District*
Adena Green,
Owyhee Watershed Council









Louis Wettstein,
Malheur County Commissioner



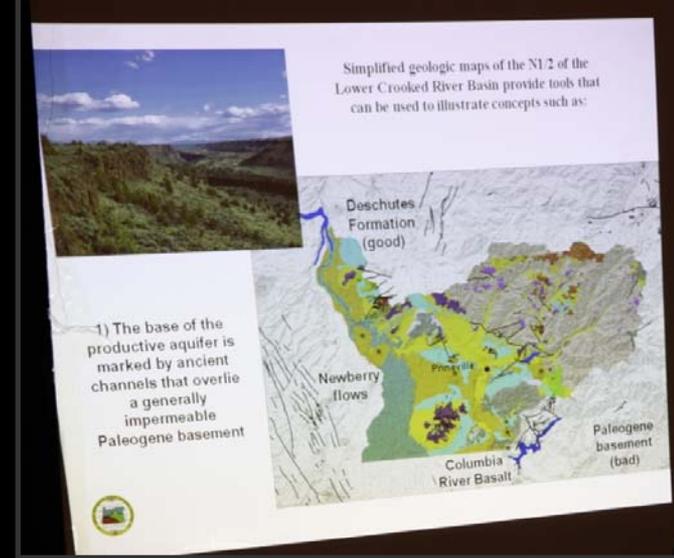
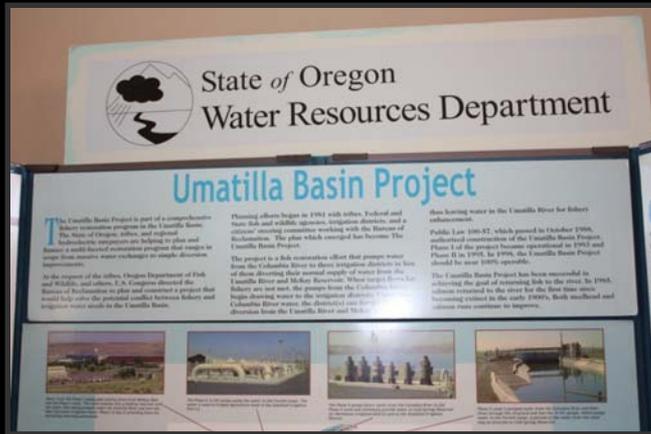
Ivan Gall,
Water Resources Department Eastern Region Manager

Umatilla



Projects and information featured during the Umatilla event included:

- Umatilla Basin Project
- Umatilla Basin Recharge Project
- Pendleton Aquifer and Recovery
- Geologic formations and studies
- Irrigation System Improvements



Thank you to Umatilla Electric Cooperative for providing refreshments.



Anderson Perry and Associates, the Oregon Water Resources Department – Pendleton office, Oregon Department of Geology and Mineral Industries and IRZ consulting provided displays, materials and brochures for the event.





Paul Hendricks, Water Resources Department, Pendleton office



Mike Ladd, WRD North Central Region Manager checking in at the welcome table. Many thanks to staff from the Oregon Association of Water Utilities for doing a wonderful job greeting attendees at every open house event! Pictured above are OAWU's Scott Berry and Hans Schroeder.



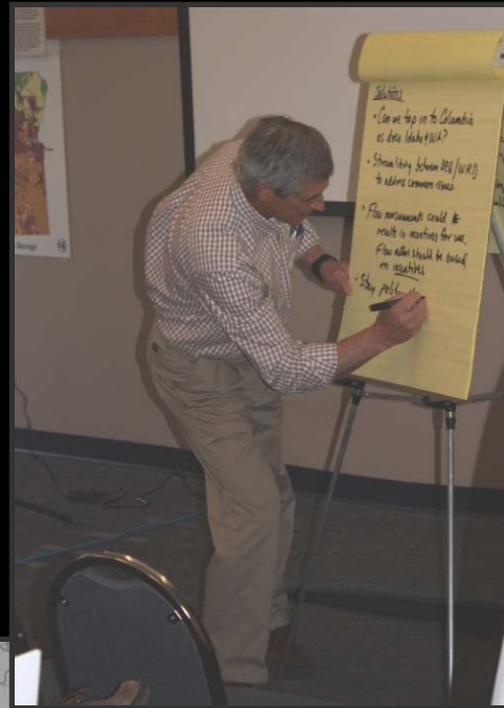
Tony Justus,
Watermaster, Pendleton office



Facilitator, Jeff Blackwood,
*Retired U.S. Forest Service Supervisor
Umatilla Basin Watershed Council*



Commissioner Dennis Doherty (with microphone), Umatilla County
Mike Wick, Westland Irrigation District



Tami Sasser,
Umatilla Basin Watershed Council Coordinator





Representative Bob Jenson



Chuck Miller,
Hermiston Irrigation District

Chuck Wilcox,
Hermiston Irrigation District





Bandon





Projects featured in Bandon included:

- Coquille Watershed Projects
- Tenmile Watershed Projects
- K-Line Irrigation Systems
- Water Quality Improvements
- Agricultural Water Quality Management Plans
- Upper Pony Creek Reservoir expansion
- Matson Creek wetland restoration project
- Kentuck Creek stream restoration
- Fish passage projects

The Coos Soil and Water Conservation District and the Oregon Department of Fish and Wildlife (Charleston office) provided displays, materials, and brochures for the event.





Dave Williams, Watermaster, Roseburg office and Bruce Sund, WRD Southwest Deputy Region Manager

Thank you to the Coos Bay-North Bend Water Board for providing refreshments.







Coos County Planning Department staff capturing audience comments.





Tillamook





Projects and information featured in Tillamook included:

- Tillamook Bay watershed health
- Tillamook County Water Trail
- Septic System Maintenance for homeowners
- Well water protection
- Stormwater solutions
- Estuary management in the Pacific Northwest
- Bioretention and low impact development
- Riparian invasive species
- Improving irrigation through soil moisture monitoring.
- Habitat restoration in the Miami River wetlands, Coal Creek, and Wolfe Creek.
- Backyard Planting Program
- E. coli status, trends and source assessment in the Tillamook Bay watershed.

The Tillamook Estuaries Partnership, OSU Extension Service and Sea Grant, and the Oregon Department of Environmental Quality provided displays, materials, and brochures for the event.





Bill Ferber, WRD NW Region Manager



Facilitator, John Dean
Resource Assistance for Rural Environments Program



Ken Stahr, IWRS Science Coordinator
Greg Beaman, Watermaster, Tillamook office

Thank you to the Tillamook Estuaries Partnership for providing refreshments.





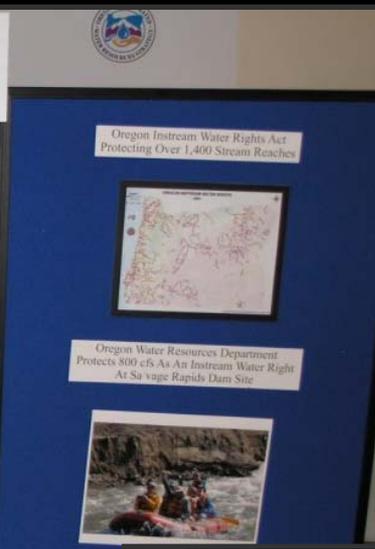
Sally Puent,
DEQ NW Region Manager



Representative Deborah Boone

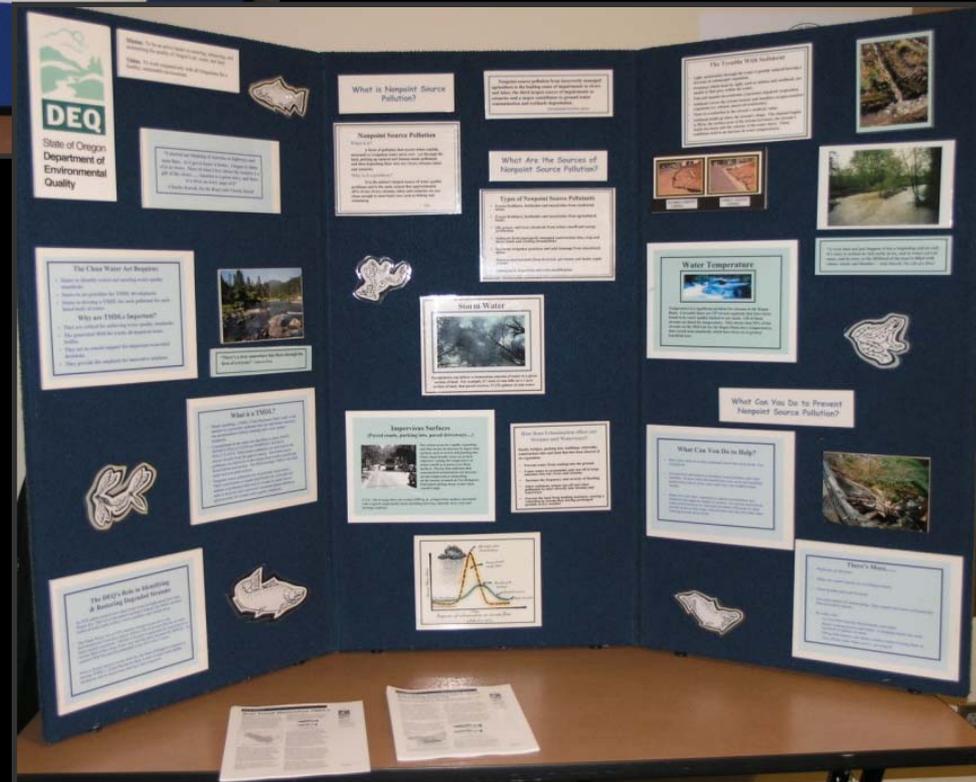
Medford

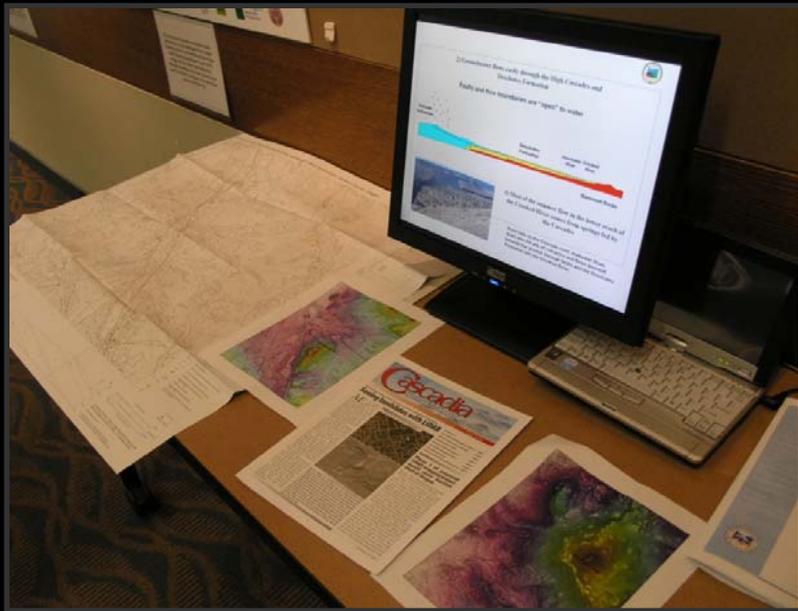




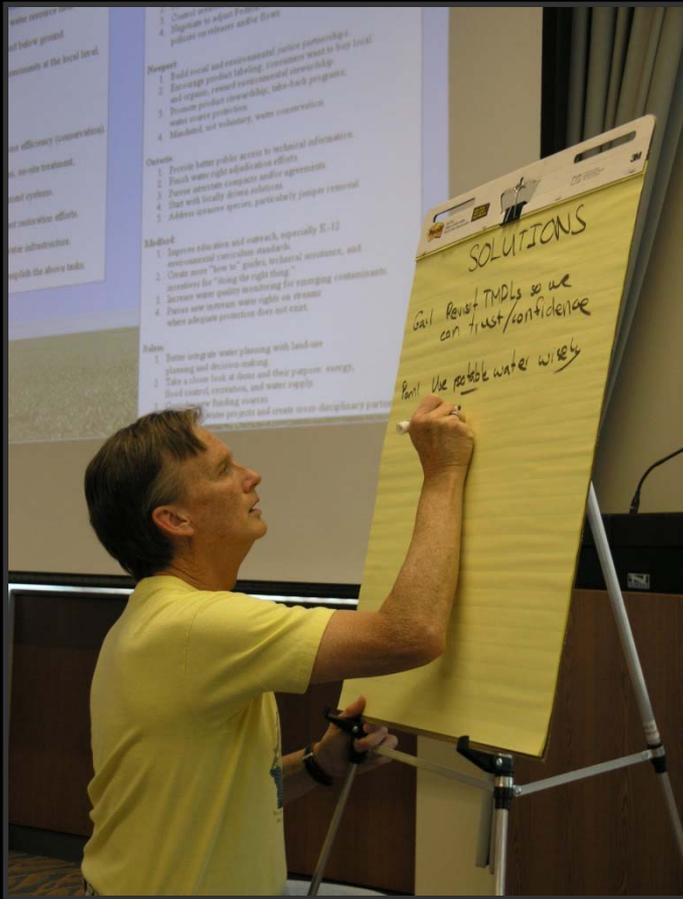
Projects and information featured in Medford included:

- Savage Rapids dam removal
- Nonpoint source pollution
- Clean Water Act requirements
- Water quality pollutants
- Riparian vegetation
- Fish passage at road crossings
- Importance of seasonal streams for fish habitat
- Stream gage locations in Jackson County
- Data logger, sensor, and transducer for streamflow measurement.





WaterWatch of Oregon, Oregon Department of Environmental Quality, Oregon Department of Fish and Wildlife, Oregon Department of Geology and Mineral Industries, and the Oregon Water Resources Department (Grants Pass office) provided displays, materials and brochures for the event.



Facilitator, Hydrologist Robert Coffan
Katalyst, Inc.





Facilitator, Professor Eric Dittmer
Southern Oregon University

Thank you to the Medford Water Commission for providing refreshments.



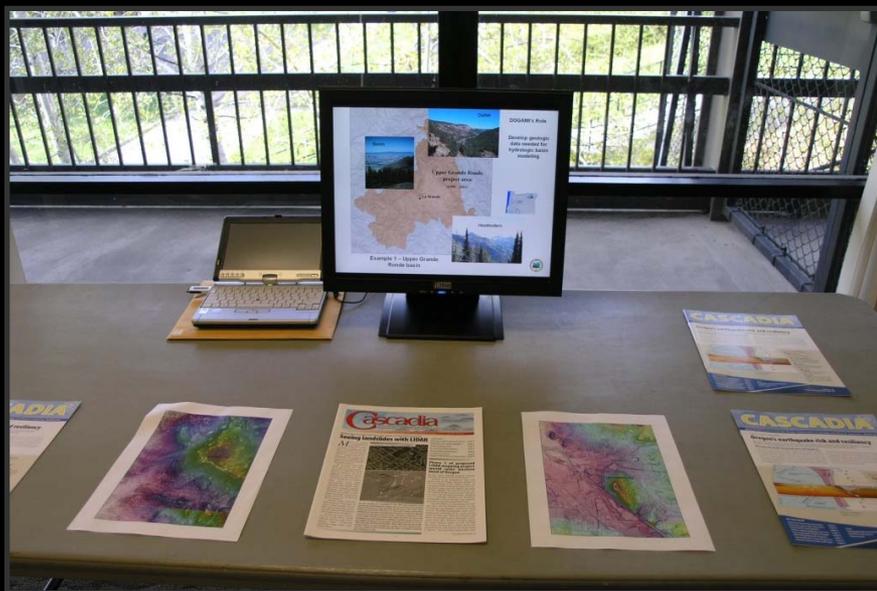
Senator Doug Whitsett



Bill Meyers, DEQ, Rogue Basin Coordinator



Klamath Falls







Commissioner John Roberts,
Water Resources Commission



Senator Doug Whitsett and Gail Whitsett, Senator's Chief of Staff



Projects and information featured during the Klamath Falls event included:

- **Geothermal activities**
- **Pest management**
- **Chiloquin dam removal**
- **LIDAR technology**
- **Fish passage improvements**
- **Habitat enhancement**
- **Native fish in the Klamath watershed**



The Bureau of Reclamation, Oregon Department of Fish and Wildlife, Oregon Department of Geology and Mineral Industries, and Liskey Farms provided displays, materials, and brochures for the event.



Thank you to the Oregon Association of Water Utilities for providing refreshments at the Klamath Falls and Burns events.



Staff and students from Oregon Institute of Technology's Conflict Dispute Resolution Program helped facilitate the meeting and captured comments during the Klamath Falls event.



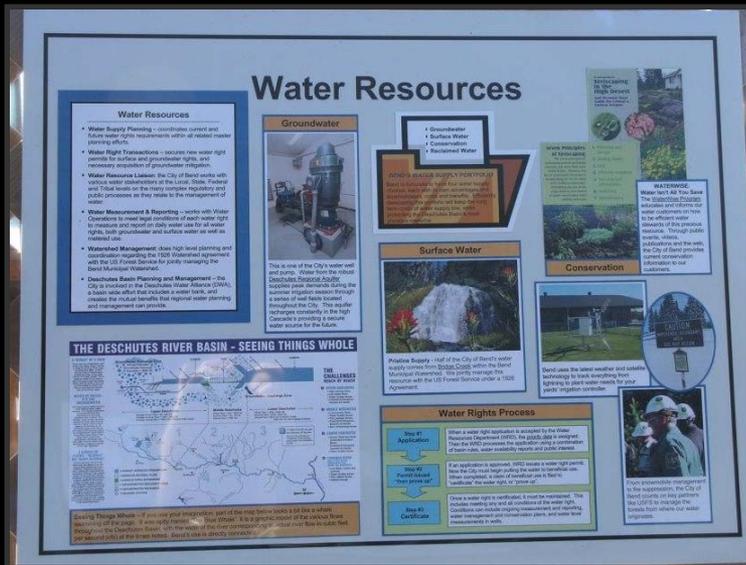
Redmond





Projects and information featured in during the Redmond event included:

- City of Bend Water reuse and water wise programs
- Deschutes Groundwater Mitigation Program
- Xeriscaping
- Restoring streamflow and improving water quality in the Deschutes basin
- Groundwater, surface water and conservation in the Deschutes basin
- City of Bend's water reclamation facility
- Fish habitat improvement projects
- Native fish in the basin



DESCHUTES RIVER CONSERVANCY

A COOPERATIVE APPROACH TO RESTORING RIVER HEALTH

Mission: To Restore Streamflow and Improve Water Quality in the Deschutes Basin



Nearly 90% of the streamflow from the Deschutes River in Bend is diverted through irrigation canals during the irrigation season which typically runs from April through October. The diversions cause a dramatic reduction of streamflow (close to 700 cubic feet per second) in the middle Deschutes, defined as the reach between Bend and Lake Billy Chinook.

The porous, volcanic soil characteristic of this high desert region causes approximately 50% of the water that is diverted from the river in irrigation canals to seep into the ground before it reaches the farm. As a result, irrigation districts need to divert twice the amount of water as they need to serve their patrons – an extremely inefficient and antiquated system. By piping or lining the canals, the water that is currently lost to seepage can be conserved and only half as much water needs to be diverted from the Deschutes River.

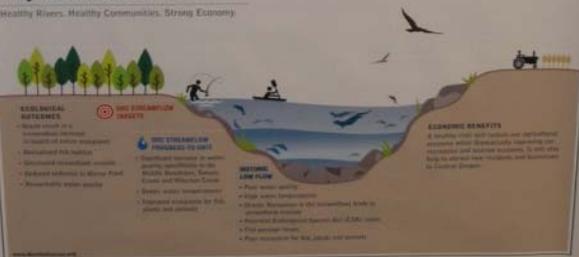
Low streamflows lead to habitat degradation, water quality problems and unhealthy habitat for fish and wildlife. Water conservation projects help to restore streamflows, improve water quality and enhance habitat for fish and wildlife.

There are eight irrigation districts that serve the water needs of their patrons by diverting water from the Deschutes River and its tributaries. To date, the Deschutes River Conservancy has worked with five irrigation districts to finance large scale piping and lining of canal projects resulting in 74 cubic feet per second of permanently protected streamflow in the Deschutes River Basin.

DRC Streamflow Restoration Progress Report



Why Streamflow Matters.
Healthy Rivers. Healthy Communities. Strong Economy



ECOSYSTEM BENEFITS:

- Provide habitat for native and non-native species
- Support riparian-dependent species
- Provide habitat for birds and mammals
- Support aquatic invertebrates
- Support riparian-dependent species
- Support riparian-dependent species
- Support riparian-dependent species

WATER QUALITY BENEFITS:

- Support riparian-dependent species

COMMUNITY BENEFITS:

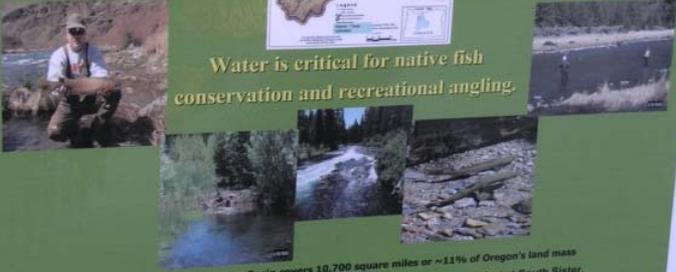
- Support riparian-dependent species

Oregon Department of Fish and Wildlife
Deschutes Watershed District

Agency Mission: Protect and Enhance Oregon's fish and wildlife and their habitats for use and enjoyment by present and future generations.



Water is critical for native fish conservation and recreational angling.

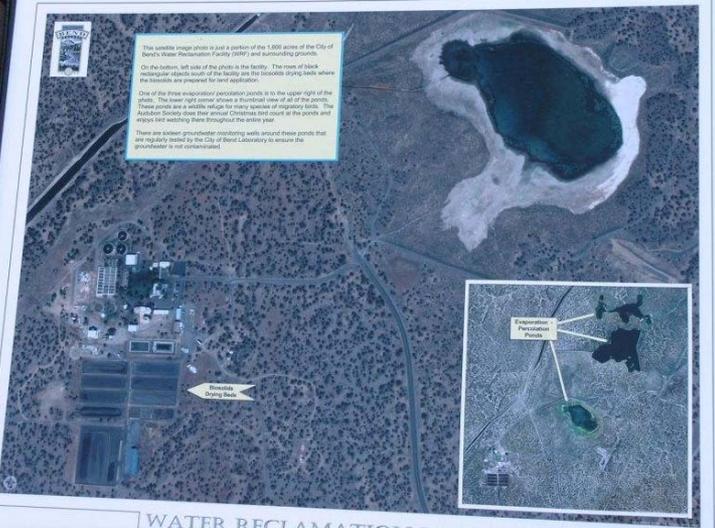


Deschutes Basin covers 10,700 square miles or ~11% of Oregon's land mass
Elevations from 150 feet near Columbia River to 10,312 feet at South Sister.
Annual Precipitation: <10 inches in lower elevations to >100 inches (mostly snow) in Cascades

Fishery Economics in Oregon

\$782.9 million annual expenditures statewide.
\$48.8 million expenditures in Deschutes Basin counties (Source Fishing, Hunting & Wildlife Viewing in Oregon, 2008 State and County Expenditure Estimates – Dean Runyon Assoc.)

Water is Vital for Wildlife

The satellite image shows a portion of the 1,600 acres of the City of Bend's Water Reclamation Facility (WRF) and surrounding grounds.

On the bottom left side of the photo is the facility. The rows of black rectangular objects south of the facility are the concrete drying beds where the biosolids are prepared for land application.

One of the three impoundment/purification ponds is in the upper right of the photo. The three impoundment ponds are a natural part of the WRF. These ponds are a wildlife refuge for many species of migratory birds. The Bend Wildlife Society does their annual Christmas bird count at the ponds and organ bird watching there throughout the entire year.

There are several geothermal reservoirs with various other ponds that are regularly visited by the City of Bend Laboratory to monitor the groundwater in that area.

WATER RECLAMATION FACILITY

The Deschutes River Conservancy, City of Bend, Oregon Department of Fish and Wildlife, and the Oregon Water Resources Department provided displays, materials, and brochures for the event.



Commissioner Mary Meloy,
Water Resources Commission

**Food and refreshments for the Redmond event were generously provided by
Newton Consultants and Bryant, Lovlien & Jarvis, PC.**





In front, Facilitator, Matt Shinderman,
Oregon State University – Cascades Campus, and
Alyssa Mucken, Oregon Water Resources Department

Burns









Projects and information featured during the Burns event included:

- Harney Basin Groundwater Study
- Greater Harney Basin Agriculture Water Quality Plan and Rules update
- Western Juniper removal efforts
- Malheur watershed management
- Aquatic invasive species
- Instream water rights
- Fish passage improvements



The Harney County Watershed Council and the Oregon Department of Fish and Wildlife provided displays, materials and brochures for the event.



Water Resources Commissioner Charlie Barlow and Harney County Judge Steve Grasty



Facilitator, Amanda Benton
Rural Assistance for Rural Environments Program, High Desert Partnership

Salem



Salem Event Facilitators

Terry Buchholz,
Integrated Water Solutions, LLC
Sam Chan and Megan Kleibacker,
Oregon State University – Sea Grant



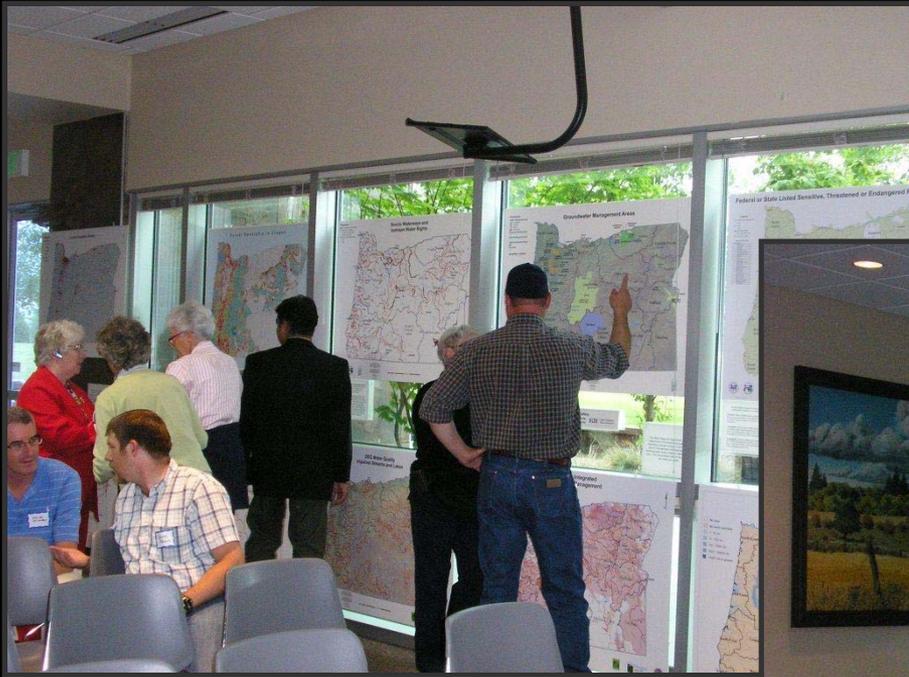
Thank you to GSI Water Solutions, Inc.
for providing refreshments at the Salem event.



**Water Resources Commissioners
Jeanne LeJeune and Chair John Jackson**







Water Resources Department Watermaster Mike McCord answers questions regarding groundwater management areas.



**Jon Unger,
NW Region Assistant Watermaster**

Eugene





Oregon Association of Water Utilities' Board Member Tim Bunnell and staff member Mike Collier greet participants at the welcome table.

**Water Resources Commissioner Carol Whipple
and WRD Northwest Region Manager Bill Ferber**



Michael Mattick,
Watermaster, Springfield office





Eugene Event Facilitators

Cynthia Solie,

Oregon Cascades West Council of Governments

Sam Chan,

Oregon State University – Sea Grant

Teresa Chan,

University of Oregon student

Thank you to the Benton-Lane-Linn Water Resources Study Group for co-hosting the Eugene open house event.

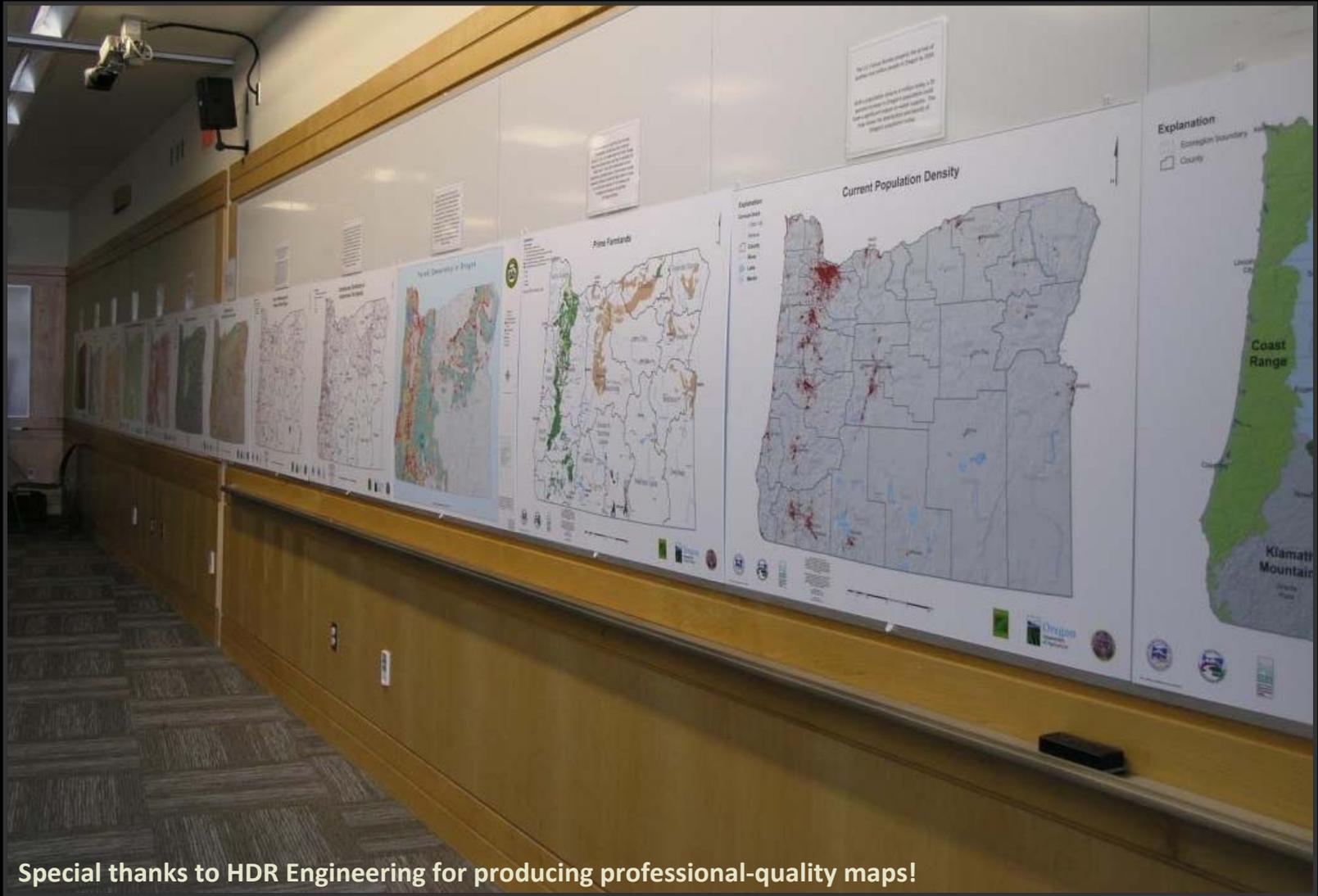


Keir Miller,
Lane County Planning Division









Special thanks to HDR Engineering for producing professional-quality maps!

Map Gallery
generously
donated by

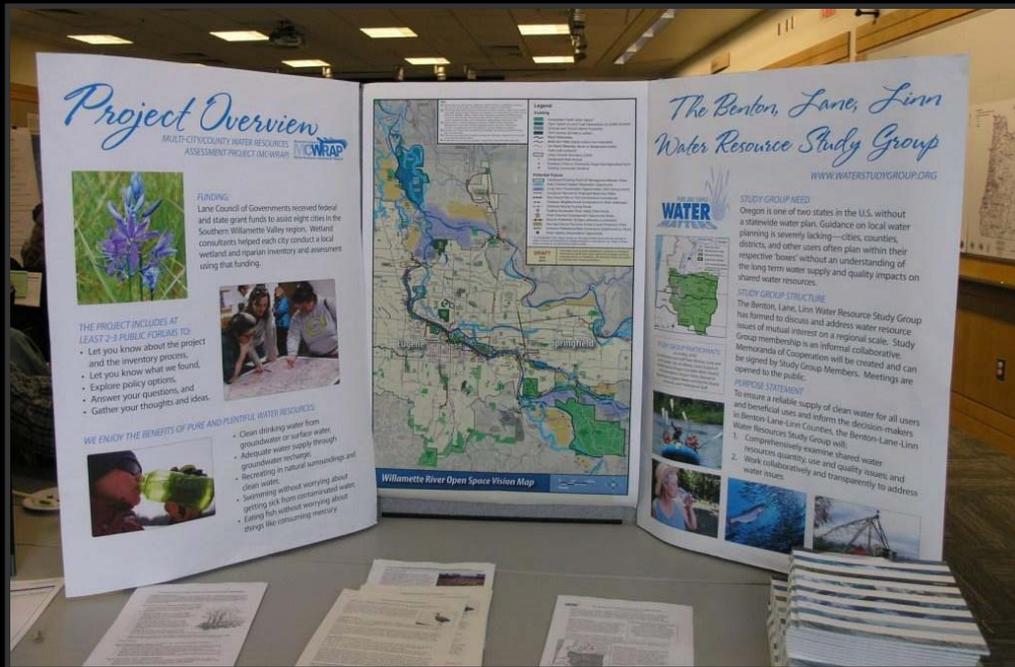


ONE COMPANY
Many Solutions™



Projects and information featured during the Eugene event included:

- The McKenzie River Watershed
- Collaborative efforts to protect water quality in Clear Lake
- Flood hazards and Class 1 Stream Areas
- Local drinking water source areas
- Wetland and riparian inventory project in the southern Willamette Valley
- Regional water resource collaborative efforts in Benton, Lane and Linn Counties
- Southern Willamette Valley Groundwater Management Area
- Groundwater usage and contamination





Lane County Commissioner Rob Handy



DEQ's Christine Svetkovich capturing public comments made during the event.





The Oregon Water Resources Department, along with the Oregon Department of Environmental Quality, Oregon Department of Fish and Wildlife, and the Oregon Department of Agriculture would like to thank the following individuals and organizations for their generous support and contributions to the Spring 2010 Open House events:

Anderson Perry and Associates
Association of Oregon Counties
Benton-Lane-Linn Water Resources Study Group
Black Rock Consulting, Inc.
Bryant, Lovlien & Jarvis, PC
Central Oregon Cities Organization
Central Oregon Irrigation District
CH2M HILL
City of Bandon
City of Bend
City of Corvallis
City of Gresham
City of Pendleton
City of Salem
City of Umatilla
Clatsop Soil and Water Conservation District
Clean Water Services
Confederated Tribes of the Umatilla Indian Reservation
Coos Bay-North Bend Water Board
Coos Soil and Water Conservation District
Davis Wright Tremaine, LLP
Deschutes Basin Board of Control
Deschutes River Conservancy
Deschutes Water Alliance
Eugene Water and Electric Board
GSI Water Solutions, Inc.
Harney County
HDR Engineering

Integrated Water Solutions, LLC
IRZ Consulting
Joint Water Commission
Katalyst, Inc.
Lane Council of Governments
Lane County
League of Oregon Cities
League of Women Voters of Oregon
League of Women Voters of Rogue Valley
Liskey Farms
Malheur County Soil & Water Conservation District
Medford Water Commission
Monrovia Nursery
Network of Oregon Watershed Councils
Newton Consultants, Inc
Oregon Association of Clean Water Agencies
Oregon Association of Nurseries
Oregon Association of Water Utilities
Oregon Cascades West Council of Governments
Oregon Cattlemen's Association
Oregon Environmental Council
Oregon Farm Bureau
Oregon Institute of Technology
Oregon Renewable Energy Center
Oregon Solutions
Oregon State University – Extension Service
Oregon State University – Sea Grant
Oregon Water Resources Congress

Oregon Water Utilities Council
Owyhee Irrigation District
Portland Water Bureau
Powder Basin Watershed & Stream Health Committee
Regional Water Providers Consortium
Resource Assistance for Rural Environments Program
Siuslaw Estuary Partnership
Southern Oregon University
Special Districts Association of Oregon
Swalley Irrigation District
The Freshwater Trust
The High Desert Partnership
The Jim Doane Family
Tillamook Estuaries Partnership
Tualatin Valley Water District
Umatilla Basin Water Coalition
Umatilla Basin Water Commission
Umatilla Basin Watershed Council
Umatilla County
Umatilla Electric Cooperative
US Fish and Wildlife Service
USDI Bureau of Reclamation
Walla Walla Basin Watershed Council
WaterWatch of Oregon
WISE Project