

Oregon's Integrated Water Resources Strategy

Water Resources Commission Meeting August 18, 2016

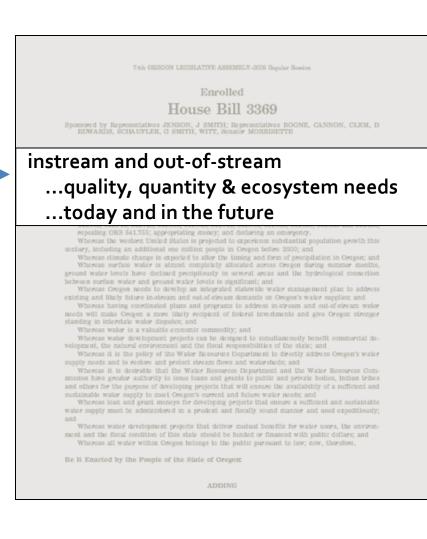


- What is Oregon's Integrated Water Resources Strategy?
- What has been accomplished thus far?
- Where is the state headed with the 2017 Strategy?



Oregon's House Bill 3369 (2009)

- Directed WRD to lead efforts to "understand and meet" Oregon's water needs"
- Partnered with water quality, fish & wildlife, agriculture, other agencies, tribes, stakeholders, & public
- Account for coming pressures





The Process Taken

Phase 1 (2009): Setting the Stage

Workplan, issue papers, key principles, public involvement, public mailing list, 3 advisory groups

Phase 2 (2010): Identifying Water Needs

11 open houses, 1 survey, stakeholder workshops & briefings

Phase 3 (2011): Developing Recommended Actions Progress report, bulletins, public comment, 2011 discussion draft

Phase 4 (2012): Producing Oregon's First IWRS More public comment, boards/commissions, final draft June 2012

Phase 5 (2012 – current): Implementation and Evaluation Adoption August 2012, foundation for budget and policy packages in 2013 &

2015 Legislatures, support & momentum



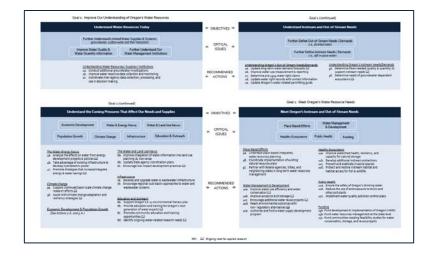
Goals & Objectives

GOALS:

- Improve our understanding of Oregon's water resources
- Meet Oregon's water resources needs

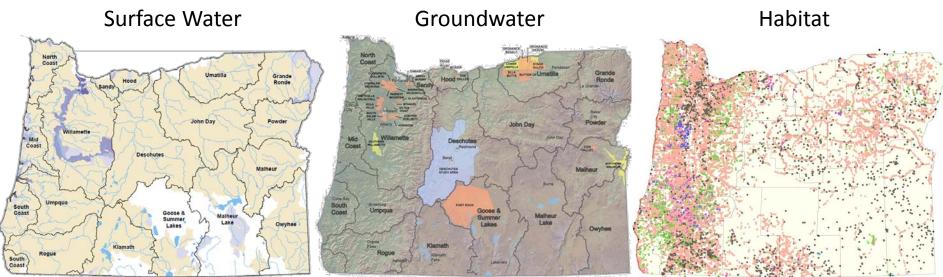
OBJECTIVES:

- Understand water resources today
- Understand instream and out-of-stream needs
- Understand the coming pressures that affect our needs & supplies
- Meet Oregon's instream and out-of-stream needs

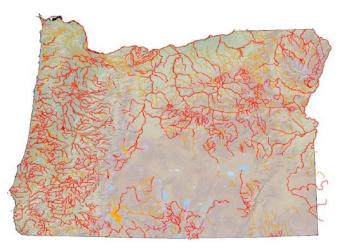




Critical Issues – a sample...



Water Quality



Public Health



Invasive Species



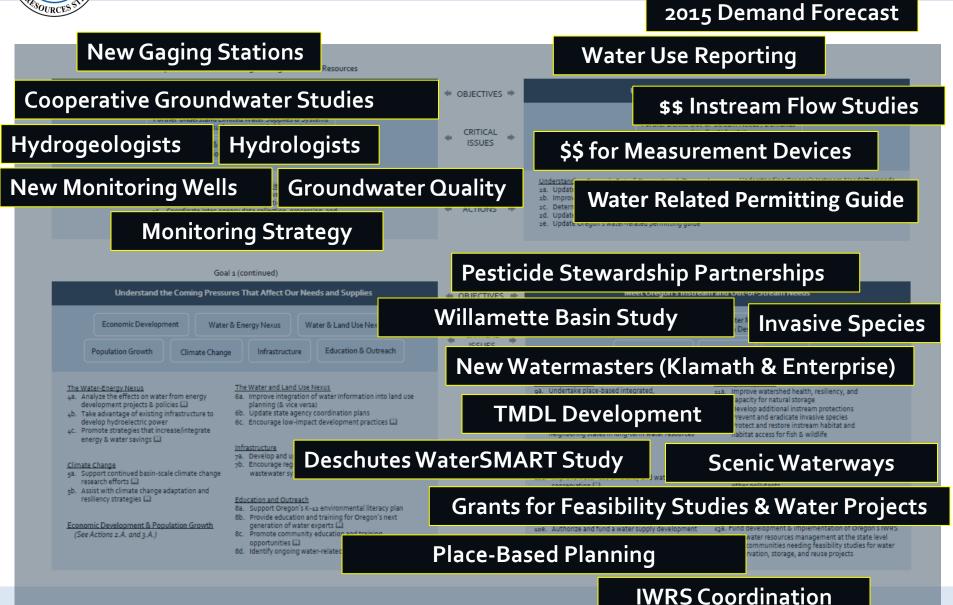


- More than 40 recommended actions
- Actions are meant to be implemented by public and private sectors
- Not all actions require funding
- Developed a workplan to guide implementation priorities for 2012-2017

Progress to Date – Agency Efforts 2012-2016

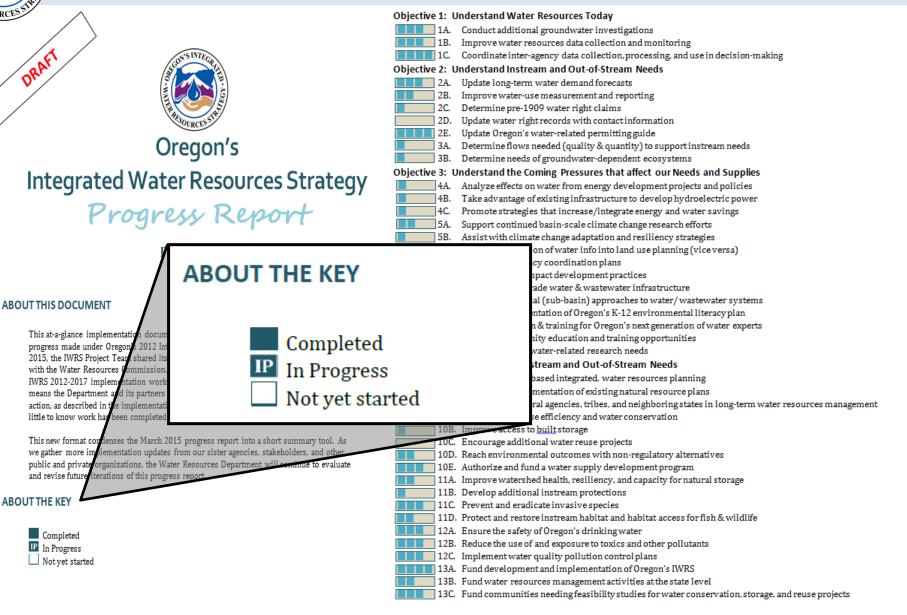


2012-2017 Workplan Focus Areas





Draft Progress Report (2012 – 2015)





Objectives 1 & 2: Understanding...

Objective 1: Understand Water Resources Today

- 1A. 1B.
- A. Conduct additional groundwater investigations
 - B. Improve water resources data collection and monitoring
 - 1C. Coordinate inter-agency data collection, processing, and use in decision-making

Objective 2: Understand Instream and Out-of-Stream Needs

- 2A. Update long-term water demand forecasts
- 2B. Improve water-use measurement and reporting
- 2C. Determine pre-1909 water right claims
- 2D. Update water right records with contact information
- 2E. Update Oregon's water-related permitting guide
- 3A. Determine flows needed (quality & quantity) to support instream needs
- 3B. Determine needs of groundwater-dependent ecosystems



Objective 3: Understand the Coming Pressures that affect our Needs and Supplies

- 4A. Analyze effects on water from energy development projects and policies
- 4B. Take advantage of existing infrastructure to develop hydroelectric power
- 4C. Promote strategies that increase/integrate energy and water savings
- 5A. Support continued basin-scale climate change research efforts
- 5B. Assist with climate change adaptation and resiliency strategies
- 6A. Improve integration of water info into land use planning (vice versa)
- 6B. Update state agency coordination plans
- 6C. Encourage low impact development practices
- 7A. Develop and upgrade water & wastewater infrastructure
- 7B. Encourage regional (sub-basin) approaches to water/ wastewater systems
- 8A. Support implementation of Oregon's K-12 environmental literacy plan
- 8B. Provide education & training for Oregon's next generation of water experts
- 8C. Promote community education and training opportunities
- 8D. Identify ongoing water-related research needs



Meet Oregon's Instream and Out-of-Stream Needs

Objective 4: Meet Oregon's Instream and Out-of-Stream Needs

- 9A. Undertake place-based integrated, water resources planning
- 9B. Coordinate implementation of existing natural resource plans
- 9C. Partner with federal agencies, tribes, and neighboring states in long-term water resources management
- 10A. Improve water-use efficiency and water conservation
- 10B. Improve access to built storage
- 10C. Encourage additional water reuse projects
- 10D. Reach environmental outcomes with non-regulatory alternatives
- 10E. Authorize and fund a water supply development program
- 11A. Improve watershed health, resiliency, and capacity for natural storage
- 11B. Develop additional instream protections
- 11C. Prevent and eradicate invasive species
- 11D. Protect and restore instream habitat and habitat access for fish & wildlife
- 12A. Ensure the safety of Oregon's drinking water
- 12B. Reduce the use of and exposure to toxics and other pollutants
- 12C. Implement water quality pollution control plans
- 13A. Fund development and implementation of Oregon's IWRS
- 13B. Fund water resources management activities at the state level
- 13C. Fund communities needing feasibility studies for water conservation, storage, and reuse projects



Understanding Groundwater & Surface Water

Monitoring Groundwater and Surface Water Supplies

- 20 new stream gages have been installed, all near real-time
- 14 new monitoring wells installed, all equipped with continuous recorders
- Initiating new groundwater studies

Monitoring Groundwater Quality

 Funding and staff provided to expand monitoring to areas outside of existing groundwater management areas



 Mid-Rogue, North Coast, and the Walla-Walla Basin sampled in 2015-16



Designation of new Scenic Waterways

- 14-mile reach of the Chetco River, located in Curry County
- 14.2-mile reach of the Molalla River, located in Clackamas County
- Governor Brown approved these new reaches in January 2016









- Recently initiated integrated water resources planning on a smaller scale – Mid-Coast, Lower John Day, Upper Grande Ronde, and Malheur Lake basins
- Goal is to develop place-based plans that roll up and inform the statewide Strategy
 Collaborative Water Planning
- Collaborative efforts are also occurring in the Upper Deschutes and Willamette River Basin





Providing Funds for Studies & Projects

Funding for Feasibility Studies & Project Development

- The state has recently launched a new Water Resources Development Program
- Includes grants and loans for a variety of water projects that result in economic, environmental, and social benefits
- In May 2016, the Water Resources Commission awarded \$1.2 million to complete 17 feasibility studies
- Another \$8.9 million awarded to the construction or implementation of 9 water projects

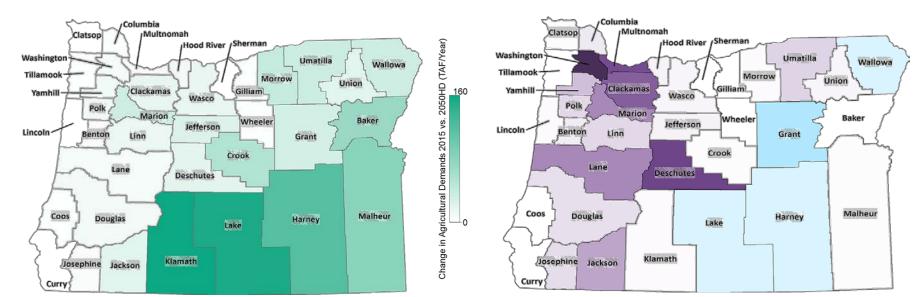




- In 2008, Oregon completed its first water demand study
- Updated the water demand forecast in 2015
- Another 1.3 million acre-feet needed by 2050

Changes in Agricultural Demands

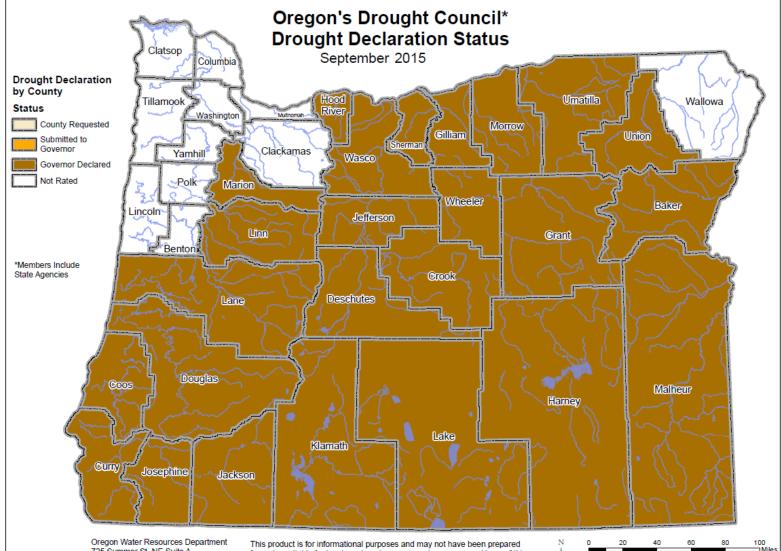
Changes in Municipal & Industrial Demands



What lies ahead for Oregon's Next Strategy?



Building Drought Resiliency

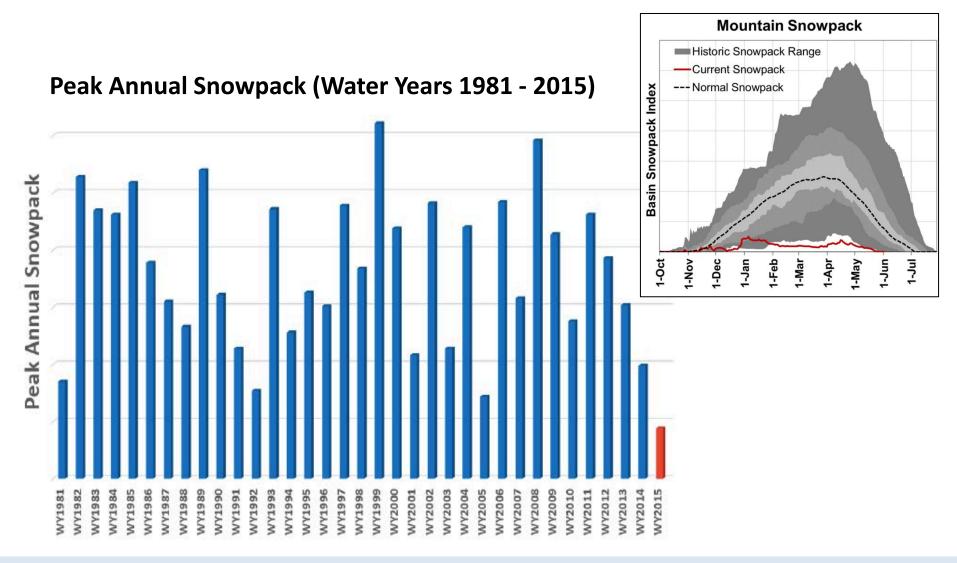


725 Summer St. NE Suite A Salem, OR 97301 http://www.wrd.state.or.us/ This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability ofthe information.

Updated: 9/18/2015 12:02 PM Projection: Oregon Lambert, NAD 83



Record Low Snowpack





Drought's Impact on Oregon Communities

- Early snowmelt and runoff
- Reduced reservoir storage
- Earlier regulation of water rights, new for some areas
- Fisheries management (water temperatures, mortalities)
- Agriculture (reduced yields, cut in deliveries)
- Recreation/tourism
- Wildlife
- Very intense wildfire season
- Tree die offs





- 2017 IWRS update will be surgical, a comprehensive revision will occur in 2022
- Must address drought and a changing climate
- Project partners will report on progress made since 2012
- A new workplan will be developed for 2017-2022
- The Water Resources Commission will notify other boards/commissions prior to adoption
- 2017 IWRS must be adopted by the Water Resources Commission



OREGON'S INTEGRATED WATER RESOURCES STRATEGY





For More Information

Water Resources Department's website:

http://www.oregon.gov/OWRD/pages/law/integrated_water_supply_strategy.aspx

IWRS Public Mailing List:

http://listsmart.osl.state.or.us/mailman/listinfo/iwrs

IWRS Email: waterstrategy@wrd.state.or.us