





# Updating Oregon's Integrated Water Resources Strategy



February 25, 2016
Water Resources Commission Meeting

Alyssa Mucken
IWRS Program Coordinator

#### **Outline**



- 2017 IWRS Development Plan (Attachment 1)
- Revised Progress Report (Attachment 2)
- Conclusion/Next Steps



- Working draft showing planned 2016-17 activities
- Content:
  - Background and statutory foundation
  - Oregon's 2012 Integrated Water Resources Strategy
  - Setting Expectations for the 2017 Update
  - Public Involvement & Stakeholder Engagement
  - Project Team & Advisory Groups
  - Adoption
  - Project Schedule
  - The Legal Framework (ORS 536.220)



## **BACKGROUND AND STATUTORY FOUNDATION**

- HB3369
- ORS 536.220
- Responsible entities, public involvement
- Adoption requirements



### **2012 INTEGRATED WATER RESOURCES STRATEGY**

- Includes the Commission's vision, goals, and objectives
- Provides a link to the IWRS Framework
- Highlights the 2012 workplan priorities for implementation

- development projects & policies (1) 4b. Take advantage of existing infrastructure to develop hydroelectric power
- 4c. Promote strategies that increase/integrate energy & water savings (1)

#### Climate Change

- 5a. Support continued basin-scale climate change research efforts (III)
- 5b. Assist with climate change adaptation and resiliency strategies (III)

#### Economic Development & Population Growth (See Actions 2.A. and 2.A.)

- 6b. Update state agency coordination plans 6c. Encourage low-impact development practices (II)

- 7a. Develop and upgrade water & wastewater infrastructure
- 7b. Encourage regional (sub-basin) approaches to water and wastewater systems

#### Education and Outreach

- 8a. Support Oregon's K-12 environmental literacy plan
- 8b. Provide education and training for Oregon's next generation of water experts (1)
- 8c. Promote community education and training opportunities (1)
- 8d. Identify ongoing water-related research needs (II)

RECOMMENDED

◆ ACTIONS ◆

- - water resources planning Coordinate implementation of existing natural resource plans
- gc. Partner with federal agencies, tribes, and
- neighboring states in long-term water resources

#### Water Management & Development

- 10a. Improve water-use efficiency and water conservation (1)
- 10b. Improve access to built storage [1]
- soc. Encourage additional water reuse projects [1]
- 10d. Reach environmental outcomes with
- non-regulatory alternatives (II) 10e. Authorize and fund a water supply development program

- capacity for natural storage

  12b. Develop additional instream protection

  12c. Prevent and eradicate invasive species
- 11d. Protect and restore instream habitat and habitat access for fish & wildlife

#### Public Health

- 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

- 132. Fund development & implementation of Oregon's IWRS
- 13b. Fund water resources management at the state level
- 13c. Fund communities needing feasibility studies for water conservation, storage, and reuse projects



#### **SETTING EXPECTATIONS FOR THE 2017 UPDATE**

- Phased approach to implementation
- Significant progress has been made
- Development Plan provides a basic framework for the 2017 Update:
  - Revisions
  - Reporting Progress
  - Address Drought & other Emerging Issues (EO 15-09)
  - Develop an Implementation Workplan (2017-2022)







# PUBLIC INVOLVEMENT & STAKEHOLDER ENGAGEMENT (cont.)

- Project Team
- Agency Advisory Group
- Federal Liaison Group
- Policy Advisory Group



### Selecting a new Policy Advisory Group:

- Staff sought suggestions from stakeholder organizations
- Represent a wide array of interests
- Four meetings in 2016
- First meeting on Wednesday, March 30 in Salem
  - Meeting 2: Wednesday, June 8
  - Meeting 3: Wednesday, September 14
  - Meeting 4: Wednesday, November 30



#### **2016 Policy Advisory Group Members:**

Will Collin

**Environmental Justice Advocate (retired hydrologist)** 

Valerie Kelley

**Peggy Lynch** 

**League of Women Voters of Oregon** 

Suzanne DeLorenzo

Clackamas River Water District

Gayle Killam

**River Network** 

**Curtis Martin** 

**Oregon Cattlemen's Association** 

**Arlene Dietz** 

**Rice Farms** 

Craig Lacy

(retired fly-fishing outfitter)

Craig Pope

**Polk County Commissioner** 

Ron Foggin

**City Manager** 

Winnie Lam

**Google Server Farm** 

**Brent Stevenson** 

**Santiam Water Control District** 

Rebecca Geisen

**Portland Water Bureau** 

Hiram Li

(retired biologist)

Stan van de Wetering

**Confederated Tribes of Siletz Indians** 

TJ Hansell

**Hansell Farms** 

Tracey Liskey

**Liskey Farms** 

**Mary Wahl** 

**Wahl Ranch** 



### **POLICY ADVISORY GROUP SCHEDULE**

Meeting 1: March 30, 2016

**Meeting 2: June 8, 2016** 

Meeting 3: September 14, 2016

Meeting 4: November 30, 2016

Bring forth final draft recommended actions for review and input. Following meeting, make revisions, release IWRS draft for public comment (target release: October 31).

Meeting 4: November 30, 2010

Bring forth final draft recommended actions for review and input. Following meeting, make revisions, release IWRS draft for public comment (target release: October 31).



# **ADOPTION**

- Notify other boards/commissions
- Water Resources Commission
- Rule-making
- Scheduled for adoption during Summer 2017



# **PROJECT SCHEDULE**

	2016								2017															
	J	F	M	Α	M	J	J	Α	S	0	N	D	J	F	M	Α	M	J	J	Α	S	0	N	D
Launch IWRS Update 2017																								
Convene IWRS Project Team																								
Drought Survey																								
Open Houses (4-5)																								
Stakeholder Briefings																								
PAG Meetings			1		2		3		4															
Commission Updates																								
Legislative Session																								
Draft Progress Report																								
Revised Progress Report																								
Draft Drought Chapter & Actions																								
Draft IWRS Released																								
Public Comment Period																								
Final revisions and formatting																								
Notify other boards/commissions																								
Adoption																								
Rule-Making																								

#### **Draft Progress Report (2012-2015)**







#### Oregon's

Integrated Water Resources Strategy

Progress Report

**ABOUT THE KEY** 

Completed

In Progress

Not yet started

#### Objective 1: Understand Water Resources Today

- 1A. Conduct additional groundwater investigations
  - 1B. 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

on of water info into land use planning (vice versa) cy coordination plans

npact development practices

ade water & wastewater infrastructure

al (sub-basin) approaches to water/ wastewater systems

ntation of Oregon's K-12 environmental literacy plan

n & training for Oregon's next generation of water experts

nity education and training opportunities

water-related research needs

#### stream and Out-of-Stream Needs

based integrated, water resources planning

mentation of existing natural resource plans

ral agencies, tribes, and neighboring states in long-term water resources management

se efficiency and water conservation

access to built storage

This new format cordenses the March 2015 progress report into a short summary tool. As we gather more implementation updates from our sister agencies, stakeholders, and other public and private organizations, the Water Resources Department will continue to evaluate and revise future iterations of this progress report.

#### ABOUT THE KEY

Completed IP In Progress

ABOUT THIS DOCUMENT

This at-a-glance implementation docu

2015, the IWRS Project Team shared it

progress made under Oregon's

with the Water Resources

IWRS 2012-2017 implem

means the Department a

action, as described in little to know work has

Not yet started

- 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

## **Objectives 1 & 2: Understanding...**



#### Objective 1: Understand Water Resources Today

1A. Conduct additional groundwater investigations

1B. 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: Coming Pressures...**



#### 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

### **Objective 4: Meeting Needs**



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

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

13C. Fund communities needing feasibility studies for water conservation, storage, and reuse projects

5B. Assist with Climate Change Adaptation and Resiliency Strategies  Provide support to communities to incorporate climate change into their planning decisions  Look for more efficient ways to conserve, store, and reuse water in anticipation of climate change  Invest and make improvements in surface water and groundwater monitoring  Invest in real-time forecasting of water deliveries, basin yield, streamflow, flood and drought frequency projections  Analyze how instream and out-of-stream water rights will fare with hydrologic changes  Analyze how water rights will fare with changing crop needs  Use the U.S. Environmental Protection Agency's Climate Ready Water Utilities Program	8B. Provide Education & Training for Oregon's Next Generation of Water Experts  Conduct a survey of water organizations in Oregon  Determine whether educational programs in Oregon are equipped to meet the coming demand for water professionals  Offer internships, fellowships, and job shadow programs to expose students to careers in water  Continue funding support for water-related trade programs at Oregon community colleges  8C. Promote Community Education and Training Opportunities  Continue to promote education and outreach through actions required in local Water Management &
Increase ecosystem resiliency to climate change Ensure continued water and wastewater services in a changing climate	Conservation Plans  Promote technical training for public and private partners  Promote access to water-related recreational opportunities through the use of the Water Trails Program
6A. Improve Integration of Water Info into Land Use Planning (vice versa)  Develop and share information regarding the location, quantity, and quality of water resources  Protect water sources in the course of land use decisions	8D. Identify Ongoing Water-Related Research Needs Continue to identify ongoing research needs at the local and state level Partner with public and private researchers
6B. Update State Agency Coordination Plans Update State Agency Coordination Programs in coordination with DLCD	9A. Undertake Place-Based Integrated, Water Resources Planning  Develop a template for place-based integrated water resources strategies
6C. Encourage Low Impact Development Practices  Compile and provide online information on low impact development policies  Update local development codes, improving local capacity to review and permit green infrastructure designs	Provide technical assistance and other incentives to communities undertaking place-based IWRS  Compile relevant and readily-available water-related information to support place-based IWRS  9B. Coordinate Implementation of Existing Natural Resource Plans
7A. Develop and Upgrade Water & Wastewater Infrastructure  Improve dam safety; retrofit for seismic issues	Coordinate and reconcile existing ecological planning and restoration efforts  Dedicate resources for state and local implementation
Develop emergency action plans for high hazard dams  Properly abandon infrastructure at the end of its useful life  Use an "asset management" approach to identify and plan for rehabilitation, upgrade or replacement	9C. Partner with Federal Agencies, Tribes, and Neighboring States in Long-Term Water Resources Management  Protect Oregon's interests in shared surface water and groundwater basins
of infrastructure  Ensure that basic maintenance needs continue to be eligible for grant and loan funding  Advocate for continued infrastructure funding  Encourage communities to consider natural infrastructure in lieu of, or as a complement to, built infrastructure.	Partner to improve access to additional stored water  10A. Improve Water-Use Efficiency and Water Conservation  Establish and maintain an online water-use efficiency and conservation clearinghouse  Prioritize agricultural water-use efficiency
7B. Encourage Regional (Sub-Basin) Approaches to Water/ Wastewater Systems Provides incentives, such as funding and technical assistance	Expand outreach and participation in the State's water-use efficiency and conservation programs  Conduct a state-wide water conservation potential assessment
8A. Support Implementation of Oregon's K-12 Environmental Literacy Plan  Support funding for implementation  Natural resource agencies, community organizations, and others should engage in education for environmental literacy activities	10B. Improve Access to Built Storage  Develop additional below-ground storage sites  Re-allocate water in federal reservoir systems that have not undertaken formal allocation processes  Develop additional above-ground, off-channel storage sites where needed  Evaluate the status of storage infrastructure  Authorize and fund the State to invest in and purchase water from stored water facilities

### **Conclusion & Next Steps**



- Update project website with new information
- Regular updates to the Commission
- Continue checking in with the Commission sub-committee, as needed