

# Oregon's Water Resources Development Program



Tuesday, February 28, 2017

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Oregon Water Resources Department



# OWRD Vision and Mission

**Vision:** Assure sufficient and sustainable water supplies are available to meet current and future needs.

**Mission:** Serve the public by practicing and promoting responsible water management through two key goals:

- To directly address Oregon's water supply needs, and
- To restore and protect streamflows and watersheds in order to ensure the long-term sustainability of Oregon's ecosystems, economy, and quality of life.

# The 1909 Water Code

- 1) Beneficial use without waste  
water for personal or public good
- 2) Priority  
first in time, first in right
- 3) Appurtenancy  
attached to the land
- 4) Must be used  
at least once every five years



*codifying the doctrine of prior appropriation*

# Advancements in Oregon Water Law

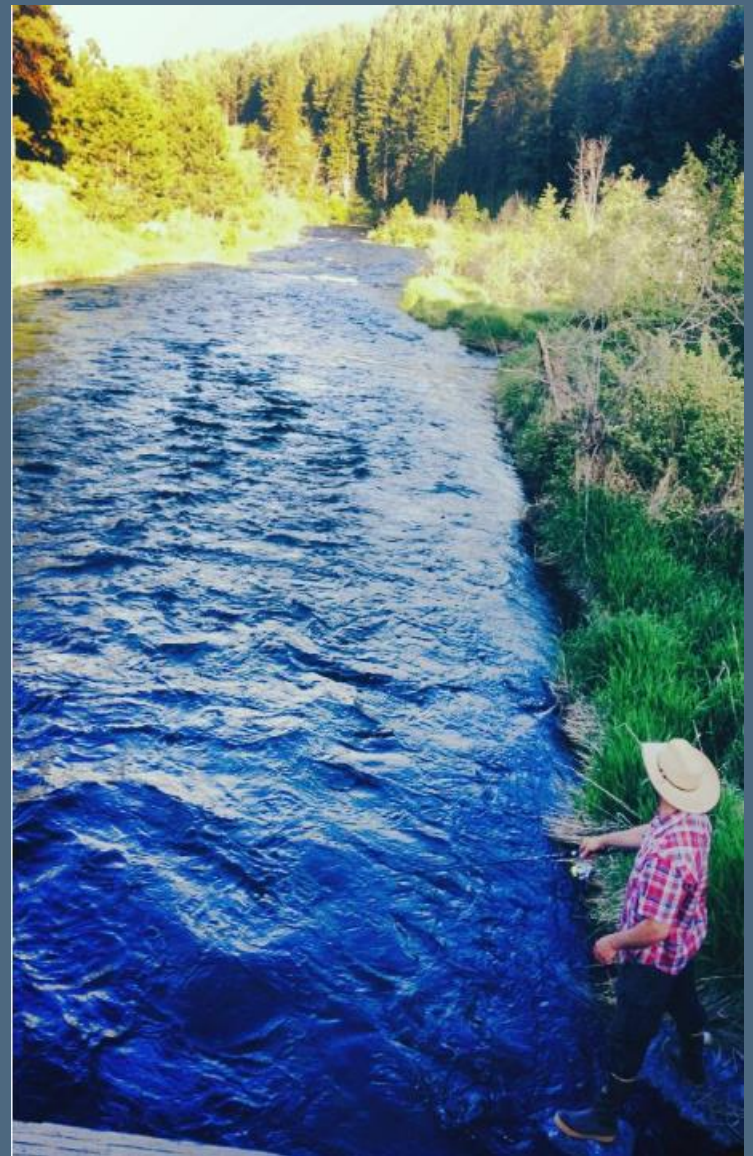
**1909: Oregon Water Code**

**1955: Oregon Ground Water Act**

**1987: Oregon Instream Water Rights Act**

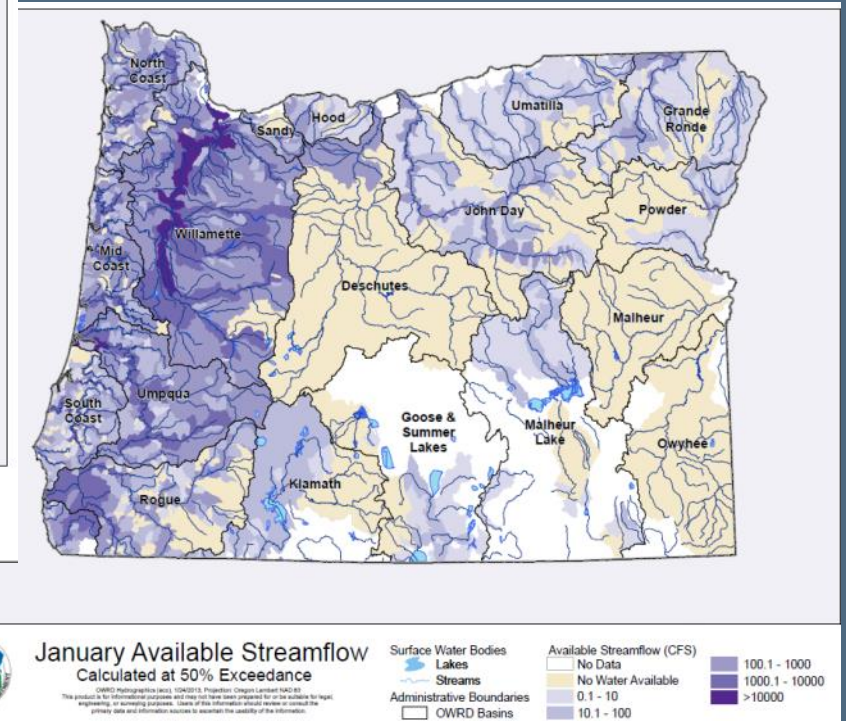
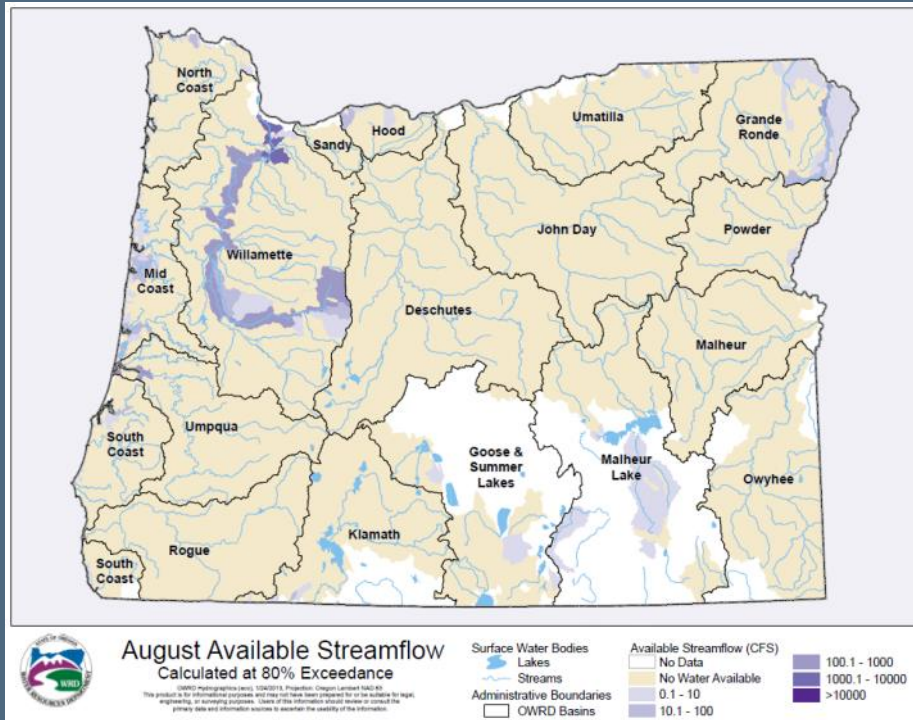
**1989: Water Allocation Policy**

**2015: Water Resources Development Program**



# Available Surface Water

## Water availability for live flow allocation in August



## Water availability for storage in January

# Status of Groundwater

## Legend

### First vs Last High Water Level (Nov-Apr)

- ≥100 ft decline
- 50 - 100 ft decline
- 10 - 50 ft decline
- <10 ft rise or decline
- 10 - 50 ft rise
- 50 - 100 ft rise
- >100 ft rise

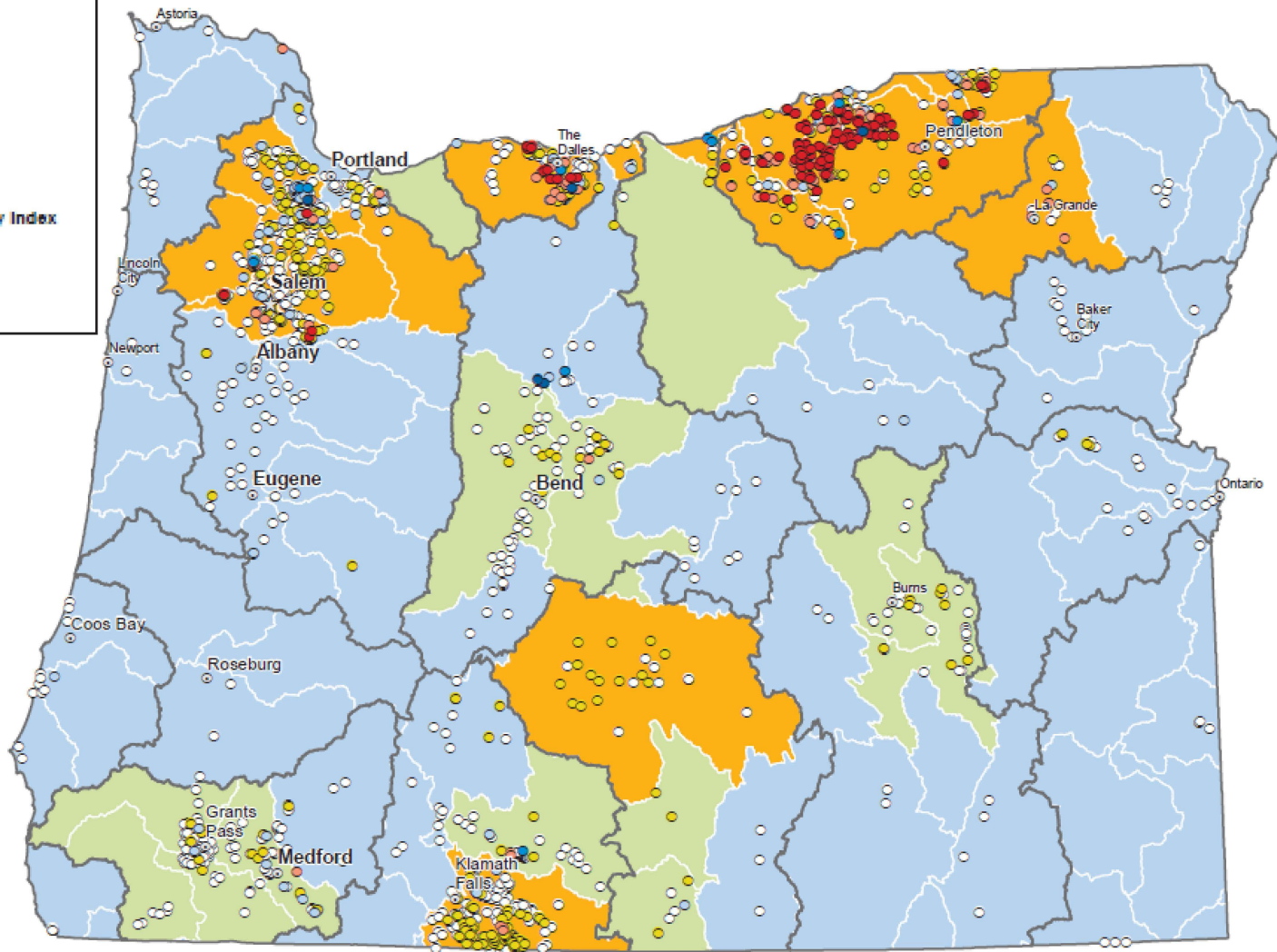
### OWRD Administrative Basins



### Groundwater Vulnerability Index

- High
- Medium
- Low

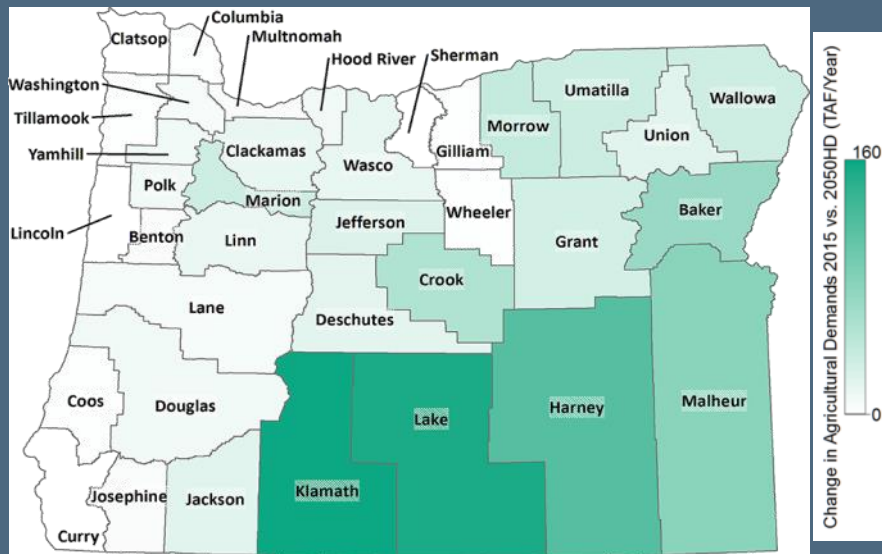
## Groundwater-Level Changes in Oregon (Variable periods of record, 1907 wells)



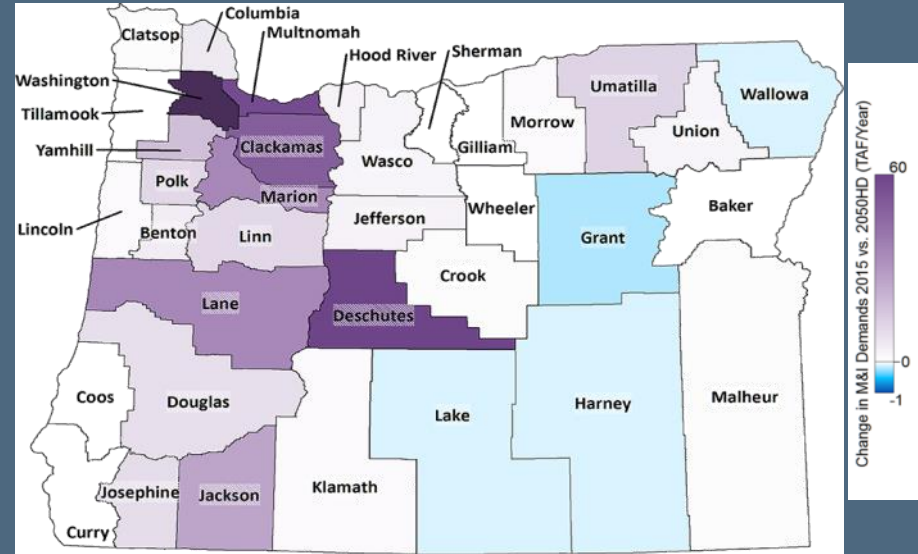
# Another Critical Issue: Possible Increase in Demands

- In 2008, Oregon completed its first water demand study
- In 2015, updated the water demand forecast
- Key Finding: Another 1.3 million acre-feet needed by 2050

## Changes in Agricultural Demands



## Changes in Municipal & Industrial Demands



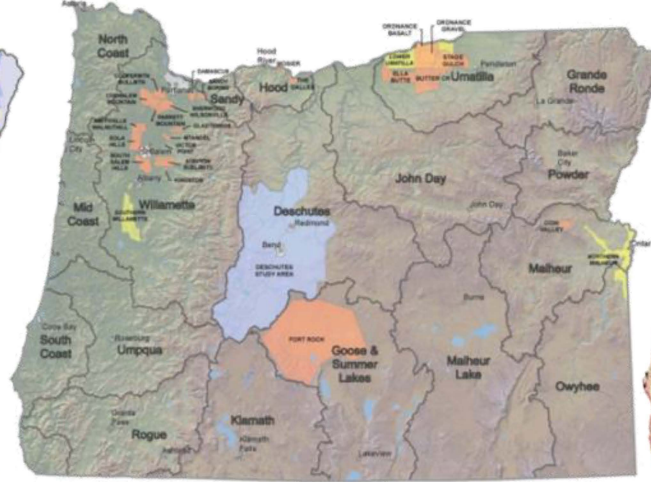


# Critical Issues facing Oregon (a sample)

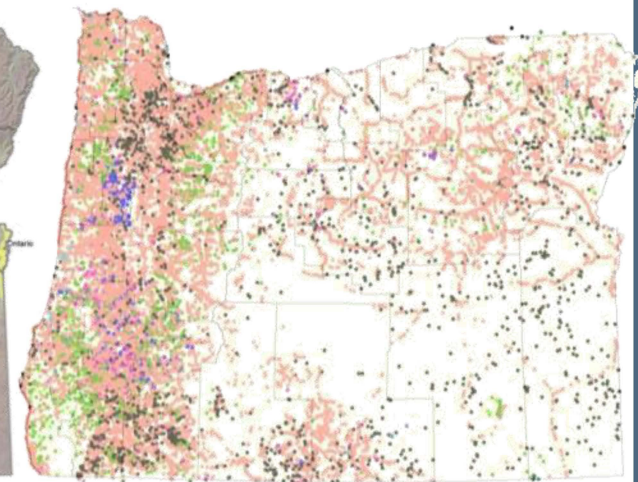
Surface Water



Groundwater



Habitat



Water Quality



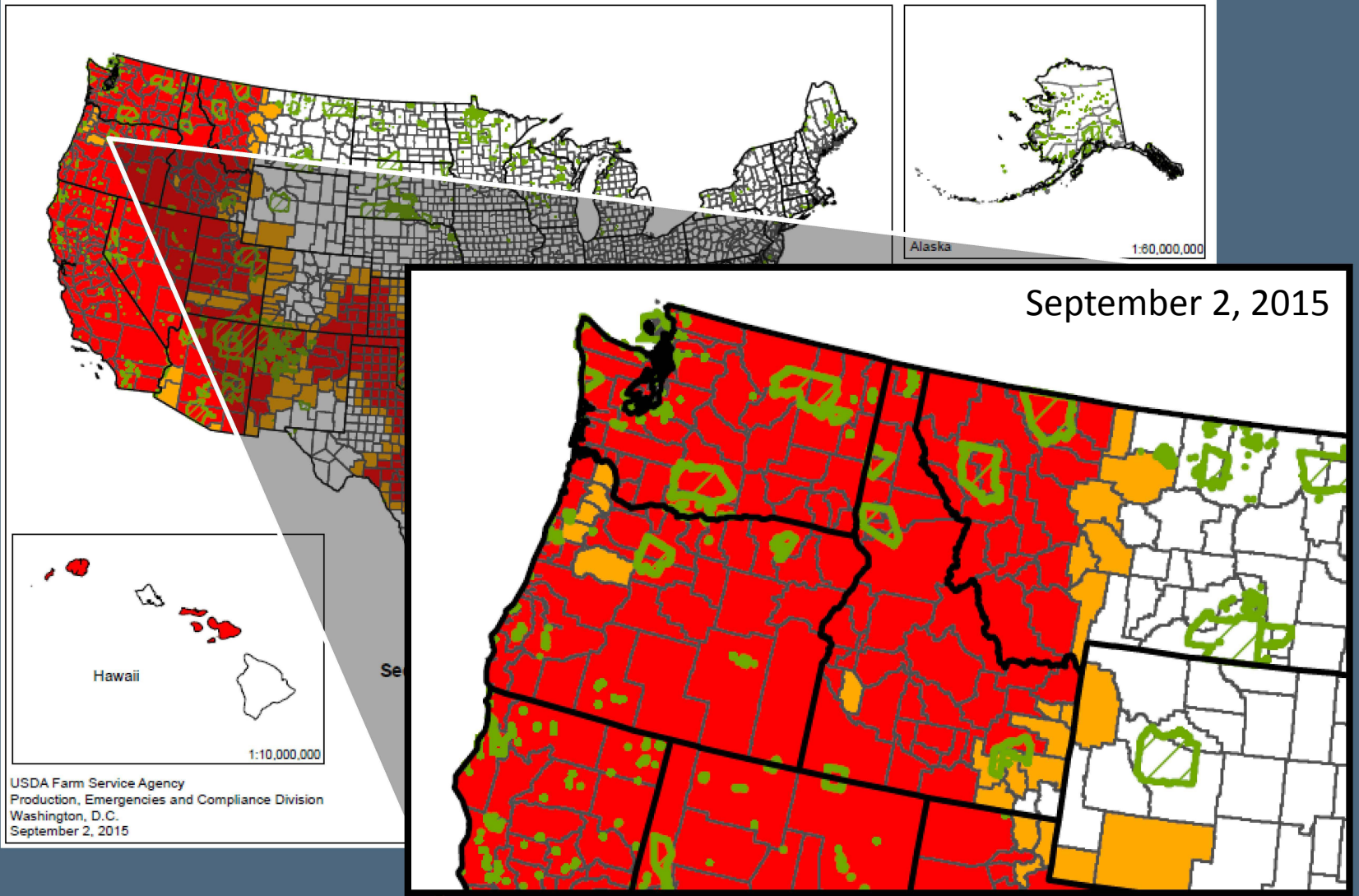
Public Health



Invasive Species



# 2015 Secretarial Drought Designations - All Drought







USDA Farm Service Agency  
Production, Emergencies and Compliance Division  
Washington, D.C.  
September 2, 2015

# Oregon's Drought Council\* Drought Declaration Status

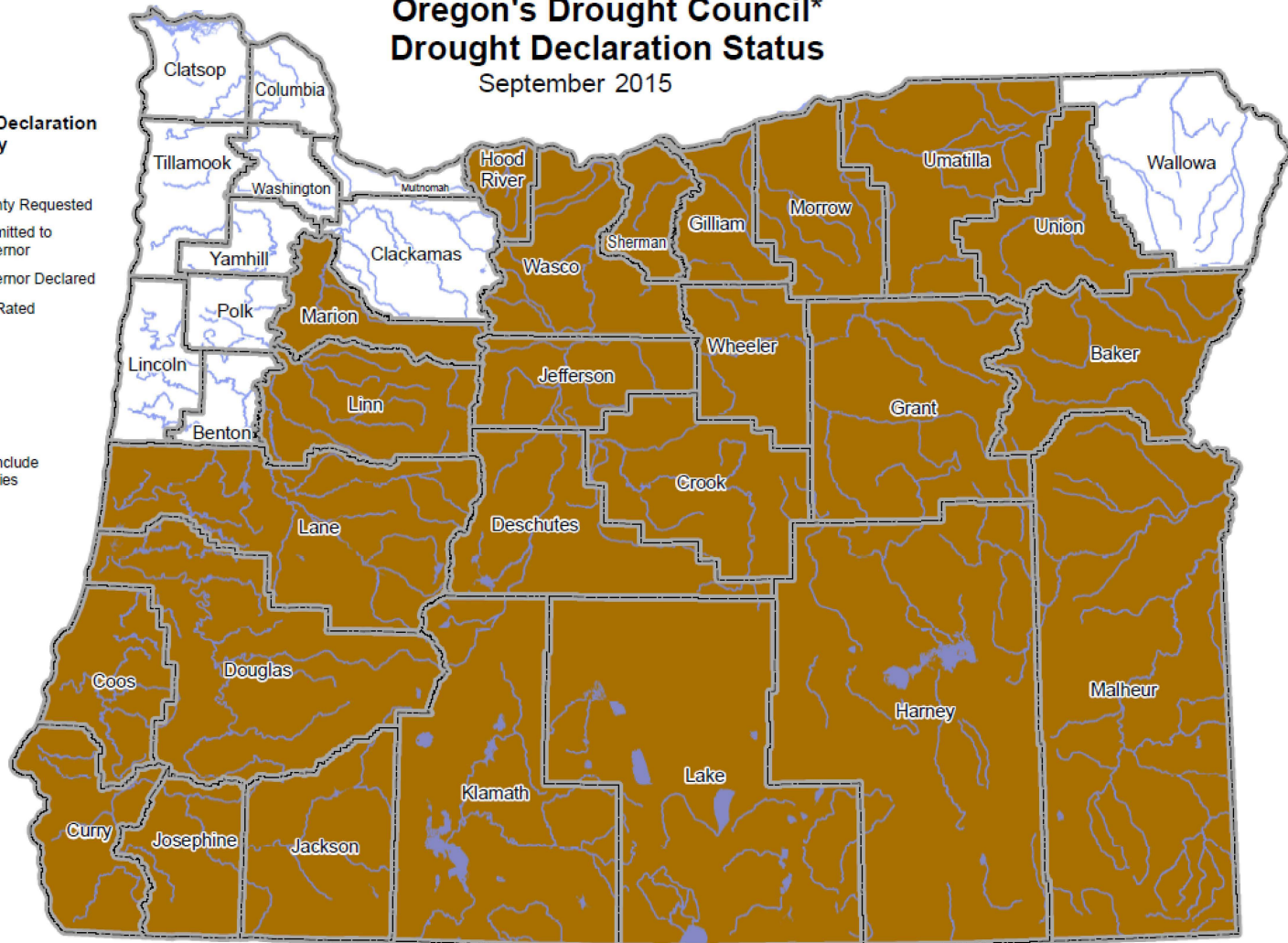
September 2015

## Drought Declaration by County

### Status

-  County Requested
-  Submitted to Governor
-  Governor Declared
-  Not Rated

\*Members Include  
State Agencies



Oregon Water Resources Department  
725 Summer St. NE Suite A  
Salem, OR 97301  
<http://www.wrd.state.or.us/>

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

# Integrated Water Resources Strategy

- **GOALS:**

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

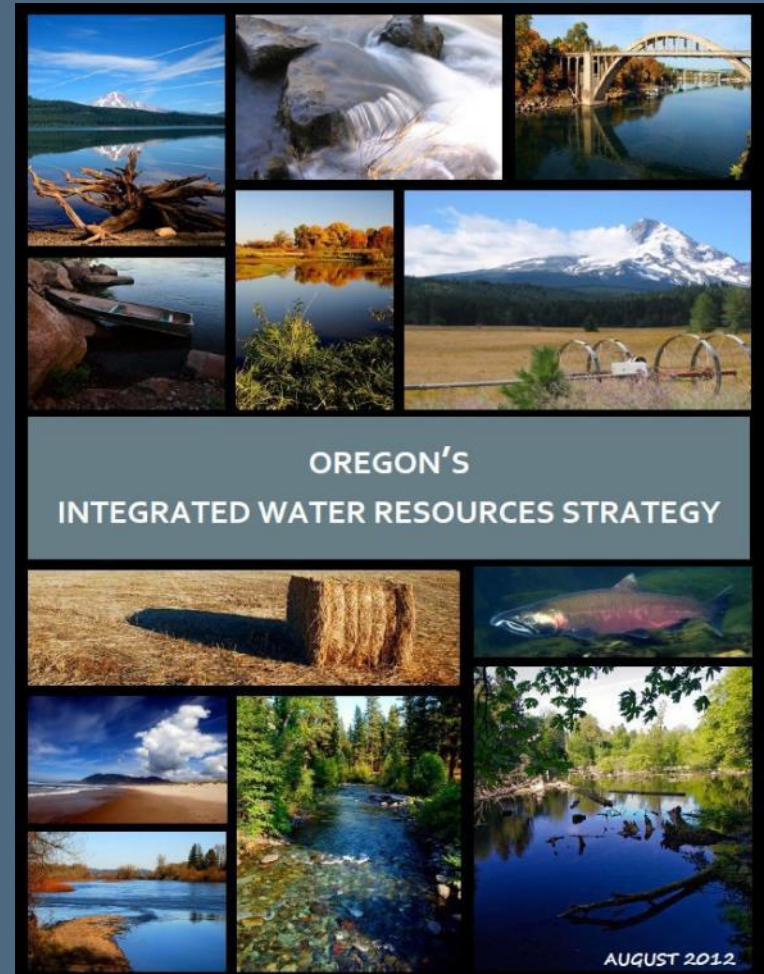
- **OBJECTIVES:**

- 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

# Integrated Water Resources Strategy

2012 Oregon Integrated Water Resources Strategy recommended actions:

- 9A – Undertake Place-Based Planning
- 13C – Fund Feasibility Studies
- 10E – Authorize & Fund a Water Supply Development Program

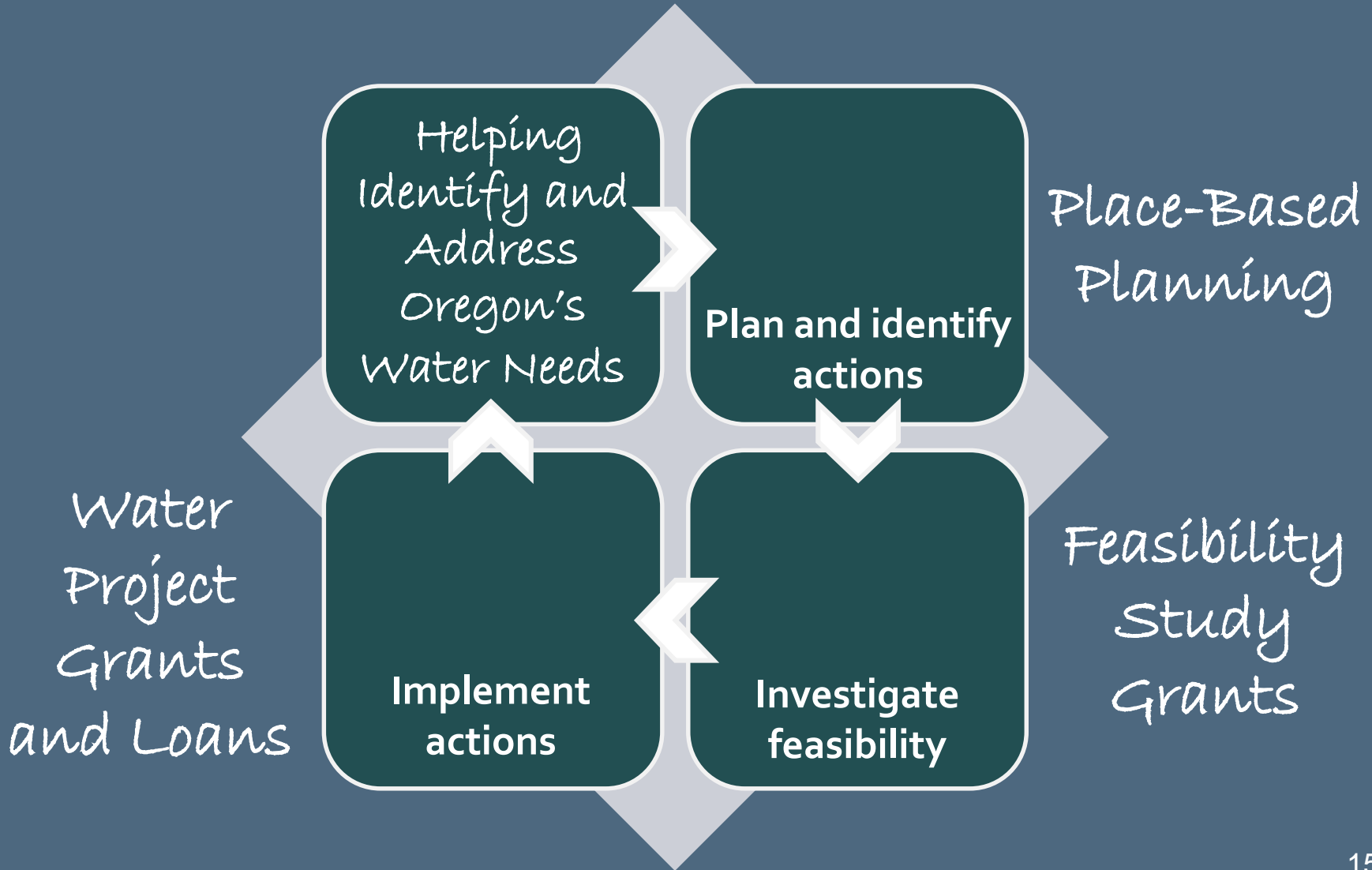


# WRDP Mission

The Water Resources Development Program seeks to help individuals and communities address instream and out-of-stream needs now and into the future, including water quantity, water quality and ecosystem needs.



# Water Resources Development Program



# PLACE-BASED PLANNING



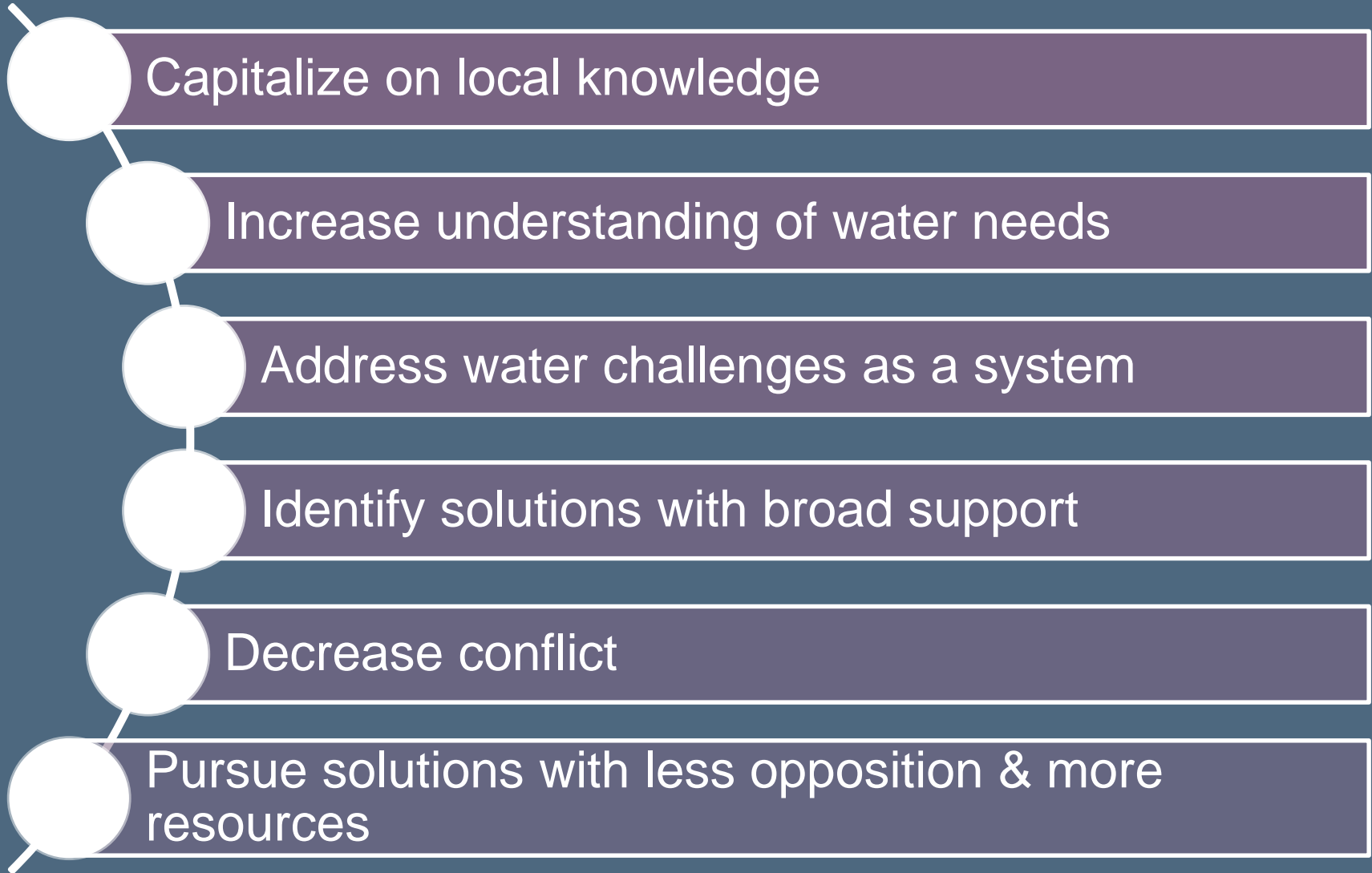


# Place-Based Planning

Voluntary, non-regulatory, locally initiated and led effort in which a balanced representation of water interests within a hydro-geographic area (e.g., basin or watershed) work in partnership with the state to understand their water resources and develop integrated solutions to address water challenges.

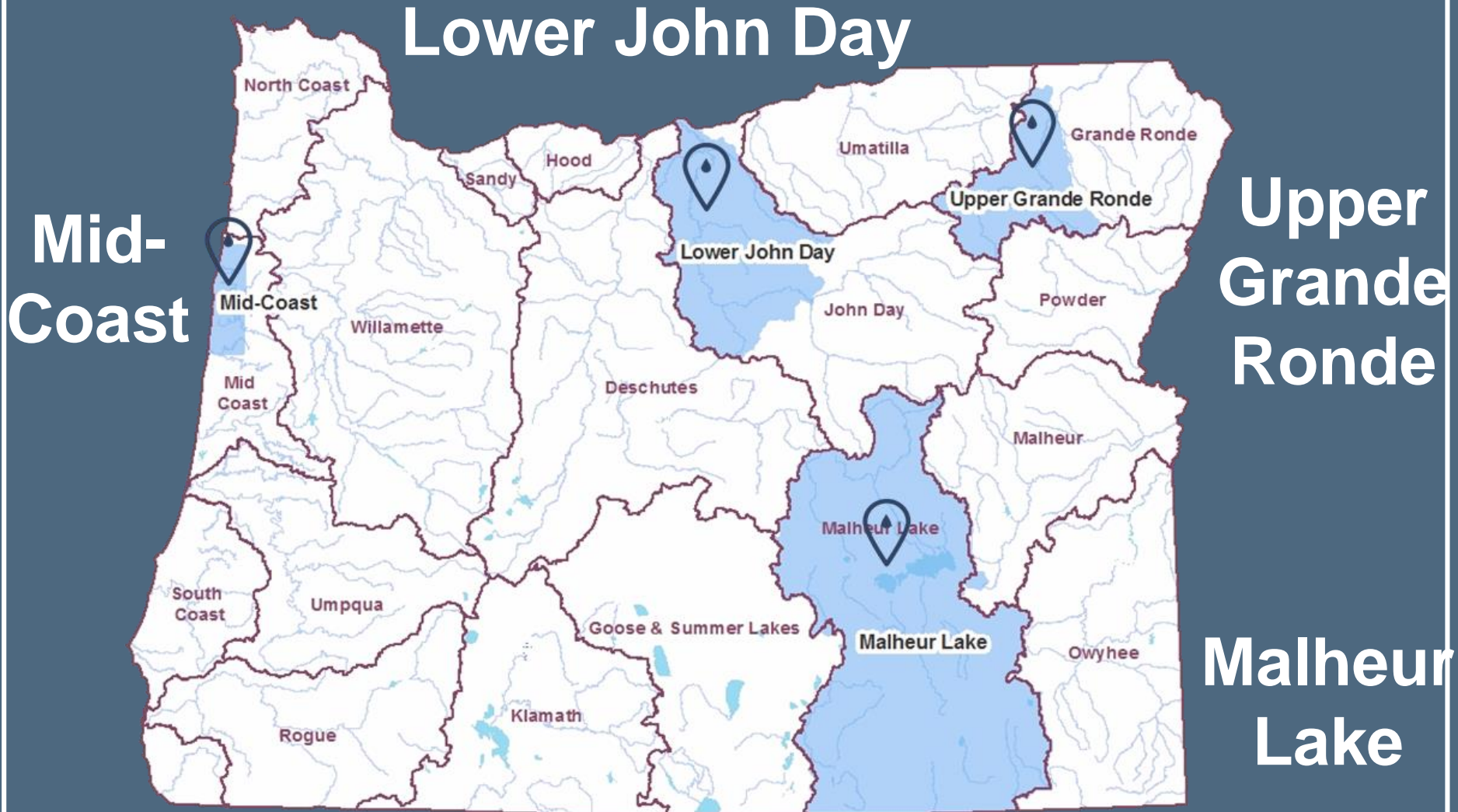


# Value of Place-Based Planning





# Pilot Areas





# Guidelines Planning Steps

**1**

Build a collaborative & integrated process

**2**

Characterize current water resources & identify challenges

**3**

Quantify current & future instream & out-of-stream needs

**4**

Develop solutions for meeting near-term & long-term needs

**5**

Plan approval & implementation

# FEASIBILITY STUDY GRANTS





# Feasibility Study Grants

**Purpose:** Provide dollar-for-dollar match funding for project planning studies performed to evaluate the feasibility of a water conservation, reuse, or storage project

**Deadline:** Fall each year (e.g., October 14, 2016)

**Funding Decision:** Spring each year (May 2017)



**Conservation**



**Reuse**

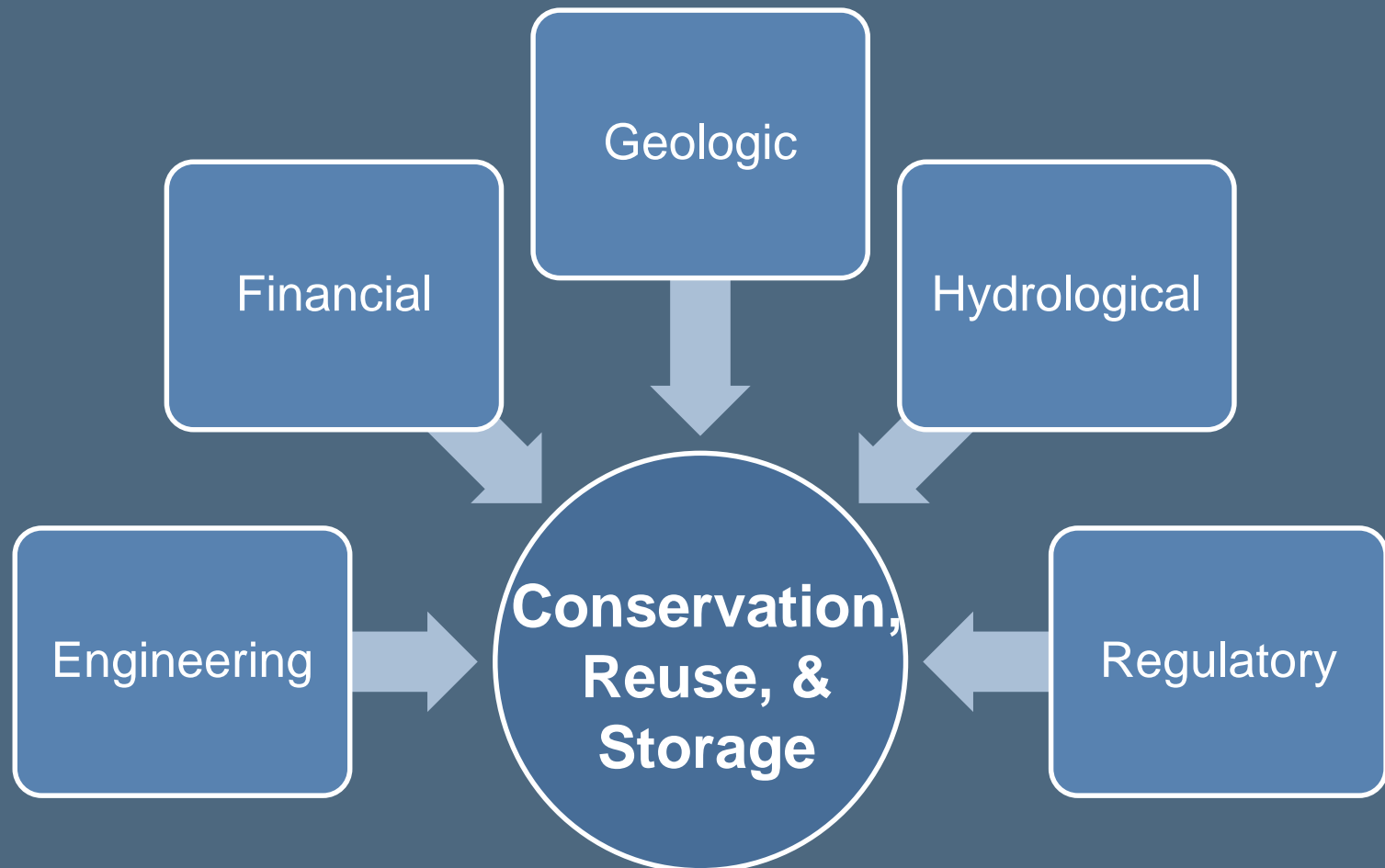


**Storage**



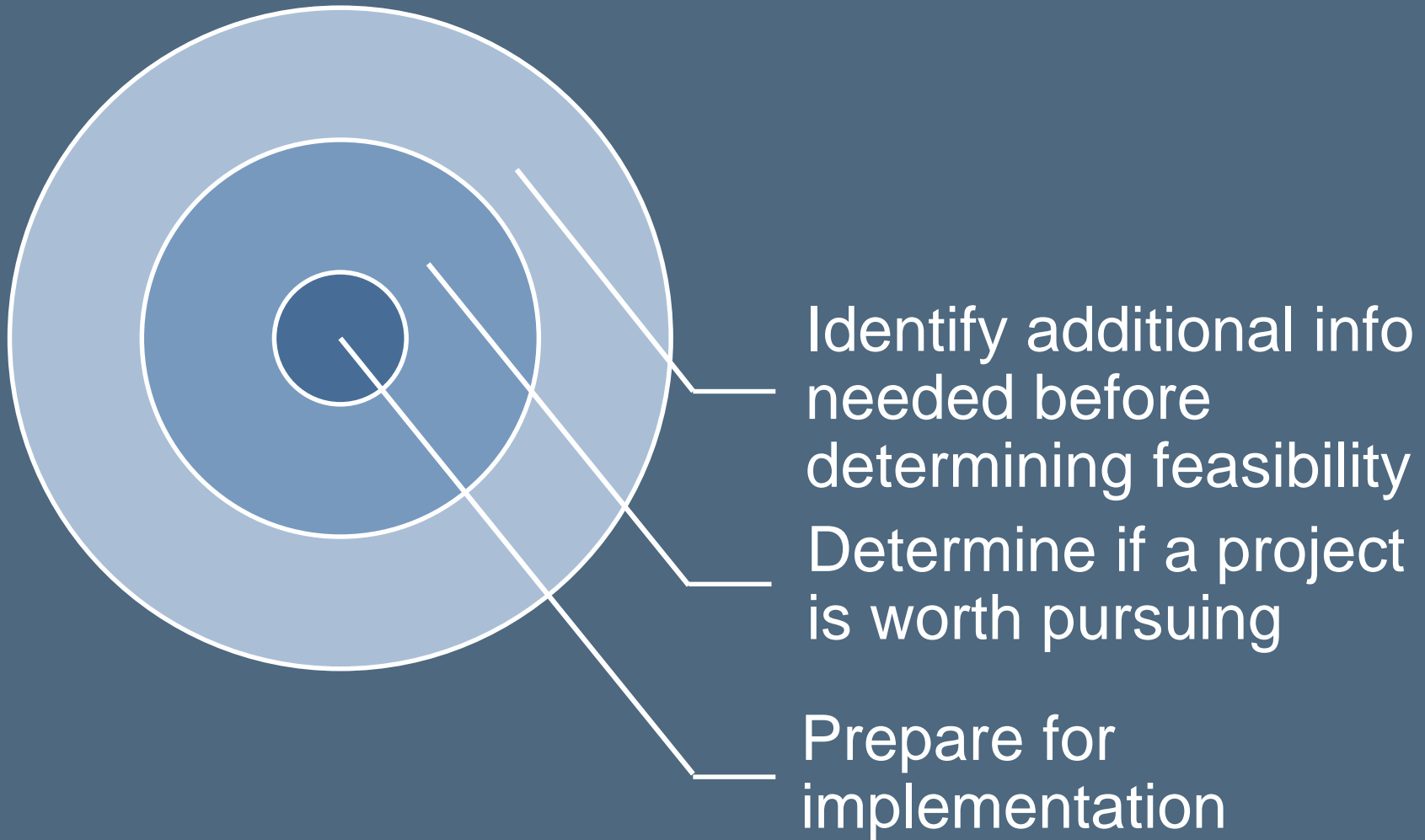
# Feasibility Study Grants

A feasibility study seeks to answer the question: **Should we (or how should we) proceed with a proposed project idea?**





# Value of Feasibility Study Grants







# Funding Available

- 2015-2017 Funding: \$2.8 million in grants (~\$1.8 million obligated to 23 studies)
- Current Cycle:
  - Closed Oct 14 2016 (~\$1 million available)
  - Received 9 applications requesting ~\$505,000

1<sup>st</sup> Cycle: 6  
grants awarded  
(\$497,185)

2<sup>nd</sup> Cycle: 17  
grants awarded  
(\$1,269,215)

3<sup>rd</sup> Cycle:  
\$1,033,600  
available

# WATER PROJECT GRANTS AND LOANS





# Water Project Grants & Loans

**Purpose:** Support the development of water resource projects that help meet instream and/or out-of-stream needs and result in economic, environmental, and social/cultural benefits

**Deadline:** Spring each year (e.g., April 2017)

**Funding Decision:** Fall each year (November 2017)



# Eligible Projects

**Eligible projects include, but are not limited to:**

- Conservation
- Reuse
- Above-ground and below-ground storage
- Streamflow protection or restoration
- Water infrastructure
- Other with the three categories of public benefits



# Value of Water Projects

Produce  
public  
benefits

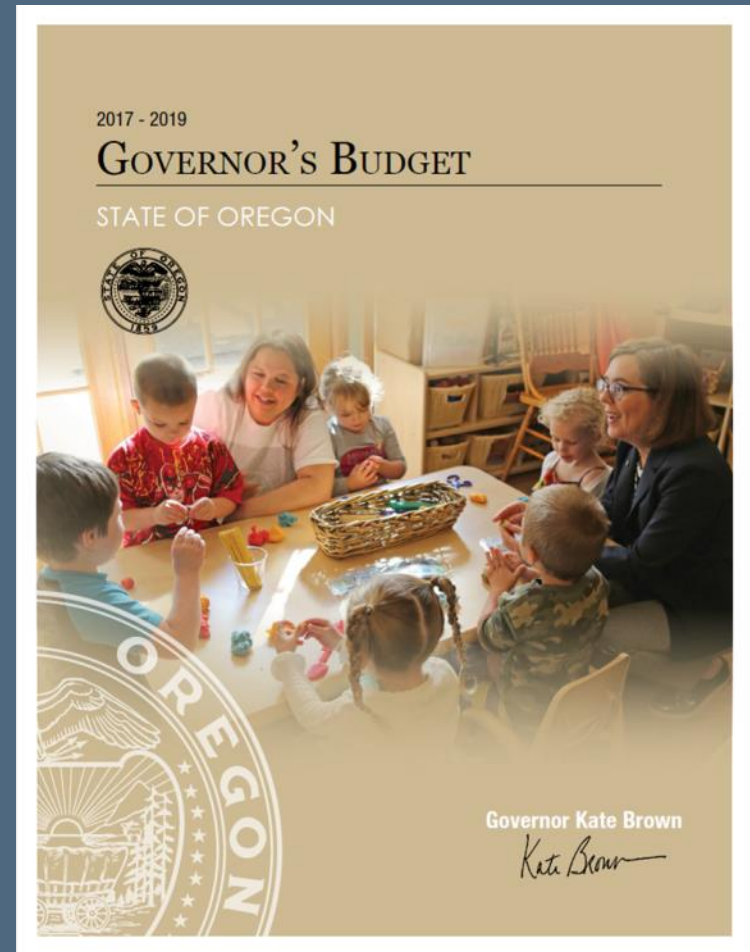
Address  
water needs

Complement  
regulatory  
function



# Funding Available

- \$14 million authorized by Legislature for 2015-2017
  - ~\$9 million awarded in 2016
  - ~\$5 million remaining
- Governor's Budget requests \$30 million for 2017-2019



# Funded Projects

| <b>Rank and Project Name</b>                                       | <b>Project Type</b>    | <b>Recommend Full Funding</b> |
|--|------------------------|-------------------------------|
| <b>1</b> Lostine River Conservation Project                        | Conservation           | \$1,488,718                   |
| <b>2</b> Tumalo Feed Canal Conservation Phase 5                    | Conservation           | \$1,299,968                   |
| <b>3</b> Highline Canal Pipeline                                   | Conservation           | \$566,299                     |
| <b>4</b> Willow Creek Piping Irrigation Laterals                   | Conservation           | \$500,355                     |
| <b>5</b> Mosier Deep Water Supply Well                             | New Groundwater Supply | \$917,238                     |
| <b>6</b> Beaver Creek Dam Fish Passage and Flow Restoration        | Municipal Water Supply | \$600,000                     |
| <b>7</b> Sun Creek Restoration And Irrigation Efficiency           | Flow Restoration       | \$249,867                     |
| <b>8</b> Klamath East Side Water Recycling Project                 | Drainage Water Reuse   | \$268,673                     |
| <b>9</b> Kingsley Reservoir Expansion and Lowline Pipeline Project | Storage/ Conservation  | \$3,000,000                   |
|  | <b>Total</b>           | <b>\$8,891,118</b>            |

## Water Resources Department

- About Us
- Contact Us
- Adjudications
- Commission
- Dam Safety
- Drought
- File Pickup
- Forms
- Funding Opportunities**
- Groundwater
- Jobs at WRD
- Links
- Maps
- Publications
- Surface Water
- Transfers
- Water Law
- Water Management
- Water Rights
- Well Construction and Compliance

### Drought Watch



1 of 3

### Resources For:

- Wells and Well Construction
- Exempt Use Water Withdrawals
- Realtors®
- Certified Water Right Holders
- Water Conservation
- Drought Watch
- Conservation and Sustainable Use
- Deschutes Basin Mitigation
- Environmental Justice
- Gold Mining: FAQ
- Assignments and Ownership

### Lookup Information

- Lookup Water Rights
- Find a Well Log
- Well ID Application Form

## Program Components

### Place-Based Planning



Place-based planning is a voluntary, locally initiated and led effort in which a balanced representation of water interests within a basin or watershed work in partnership with the state to: characterize current water resources and issues (water quantity, water quality, ecosystem health); understand current and future instream and out-of-stream water needs and demands; identify and prioritize strategic solutions to address water needs; and, develop a place-based integrated water resources plan that informs the state-wide strategy.

[Click here](#) for more information.

### Feasibility Study Grants



Once potential projects are identified, communities often find it difficult to secure funding to assess their viability. This program component addresses that need by providing grant funding to cover 50% of the cost of conducting feasibility studies for potential water conservation, storage and reuse projects. A feasibility study is an assessment of the practicality of a proposed project or plan and can be used to determine if and how a project should proceed to the implementation phase.

[Click here](#) for more information.

### Water Project Grants and Loans



This account provides grants and loans to evaluate, plan and implement instream and out-of-stream water development projects that have economic, environmental and social/cultural benefits. Eligible projects include, but are not limited to projects that: increase water use efficiency; develop new or expanded storage; allocate federally stored water; promote water reuse or conservation; and protect or restore stream flows.

[Click here](#) for more information



Thank You

# Questions?

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