

Oregon's Water Resources Development Program



Tuesday, February 28, 2017

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Oregon Water Resources Department



OWRD Vision and Mission

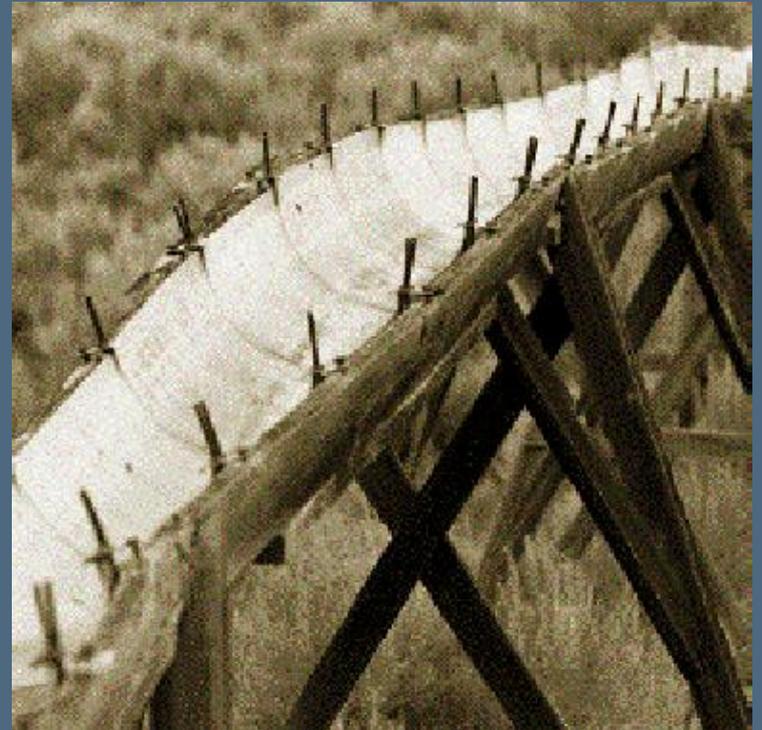
Vision: Assure sufficient and sustainable water supplies are available to meet current and future needs.

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

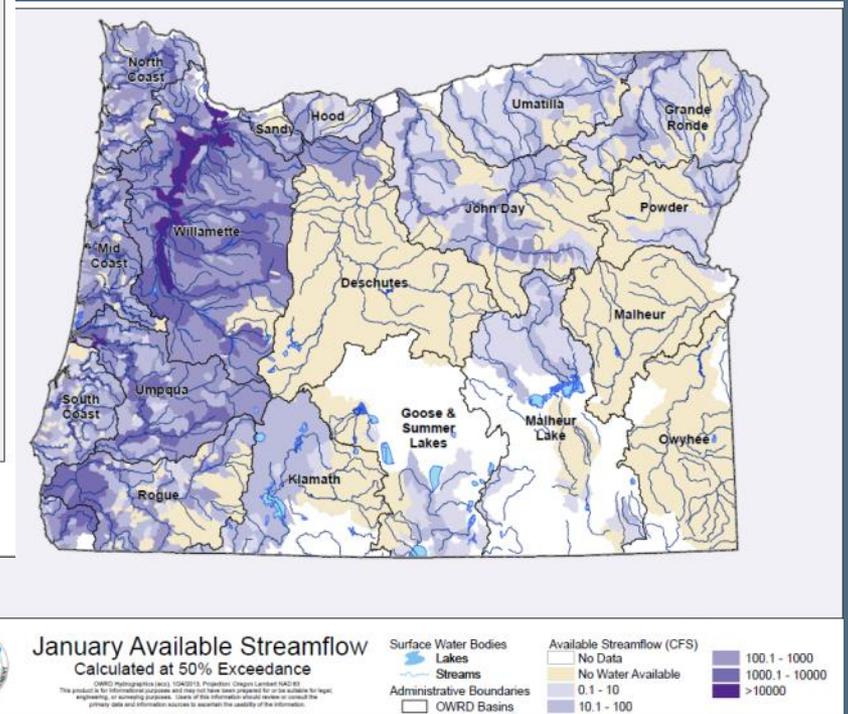
1989: Water Allocation Policy

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

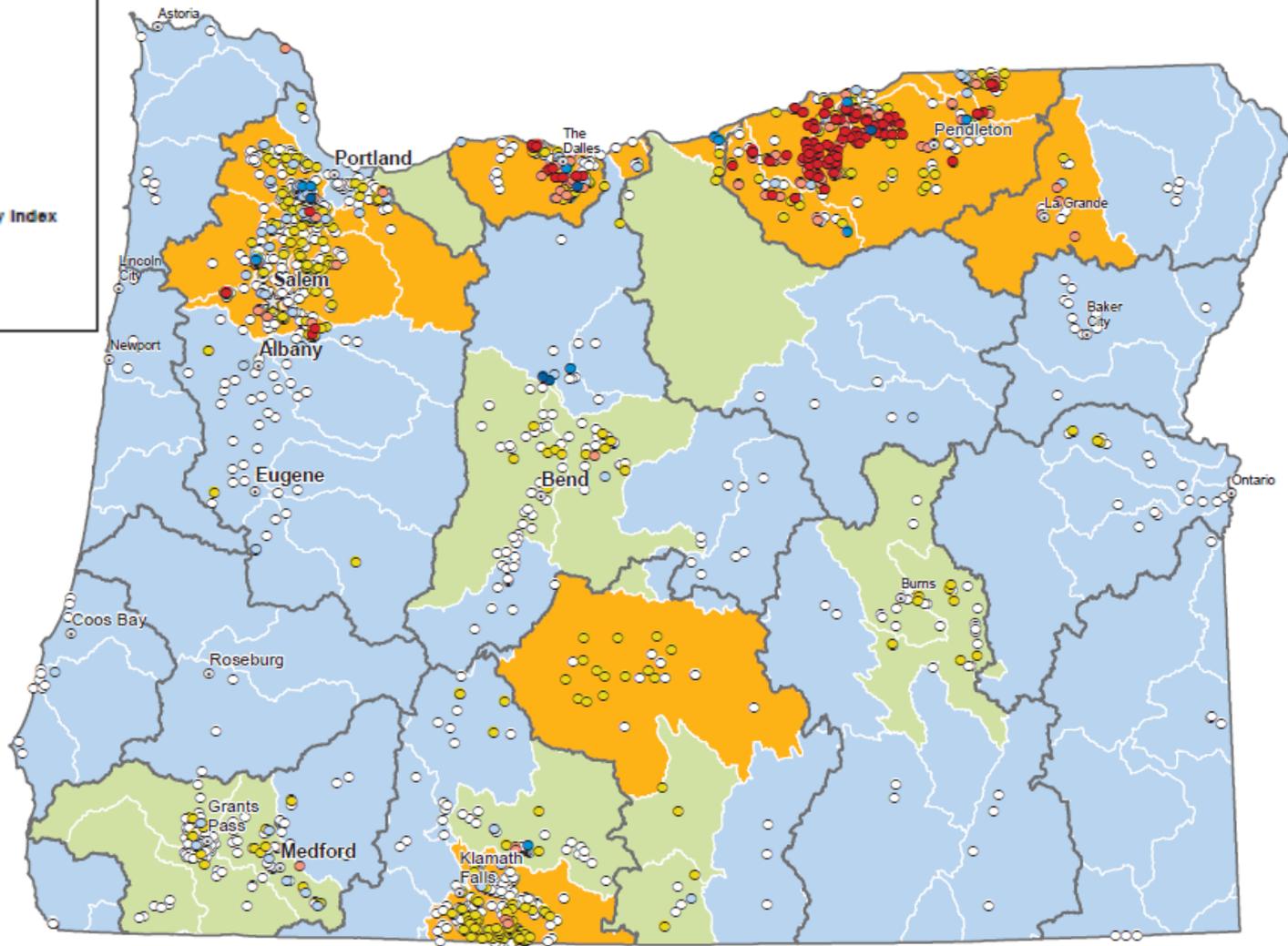
OWRD Administrative Basins



Groundwater Vulnerability Index

- High (Orange)
- Medium (Light Green)
- Low (Light Blue)

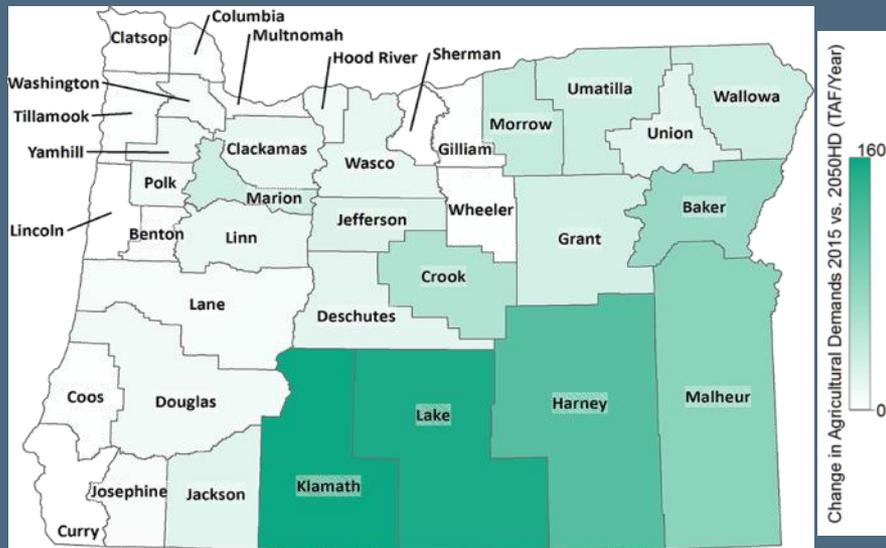
Groundwater-Level Changes in Oregon (Variable periods of record, 1907 wells)



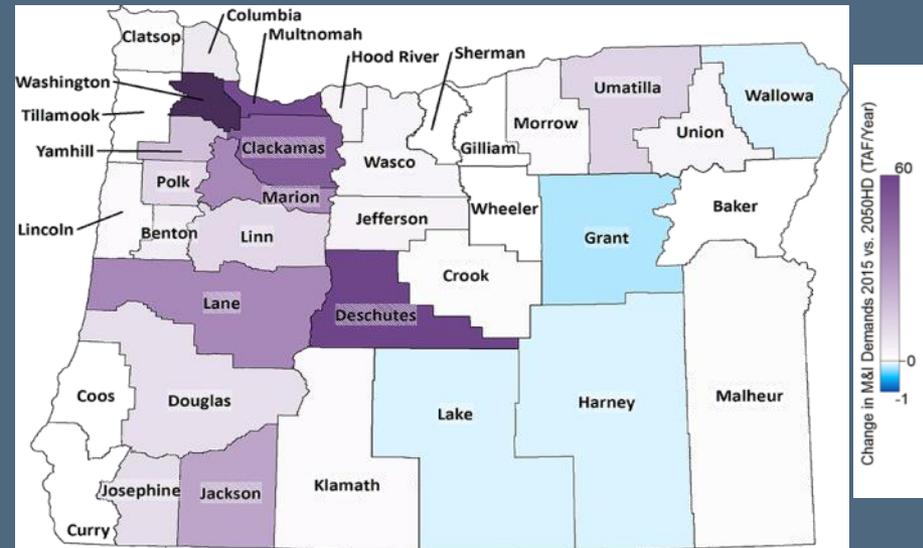
Another Critical Issue: Possible Increase in Demands

- 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

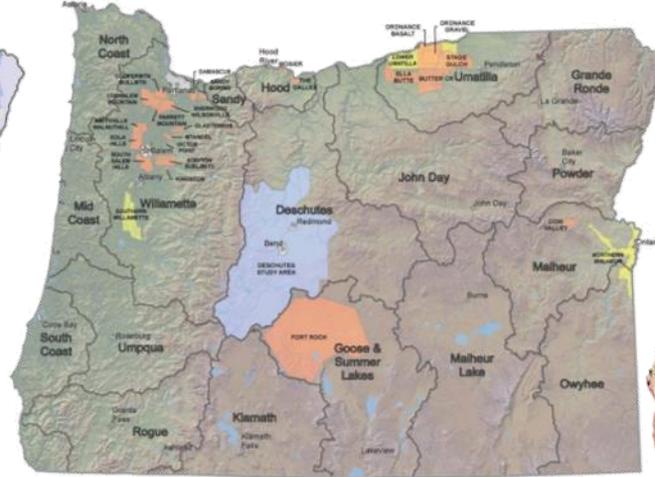


Critical Issues facing Oregon (a sample)

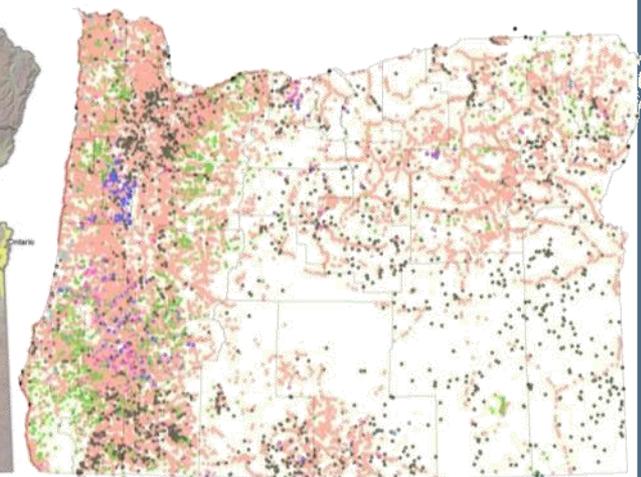
Surface Water



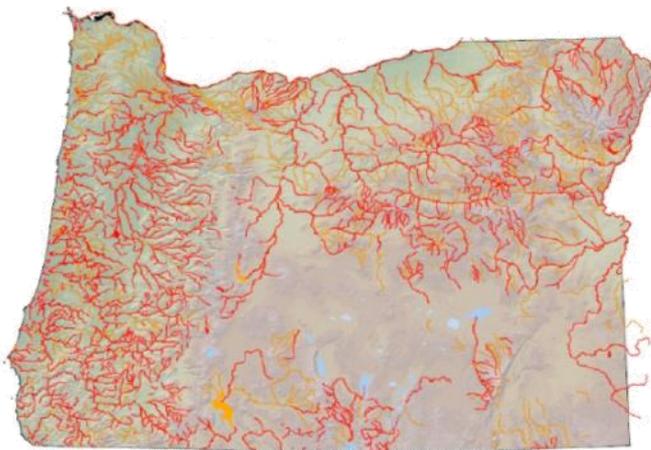
Groundwater



Habitat



Water Quality



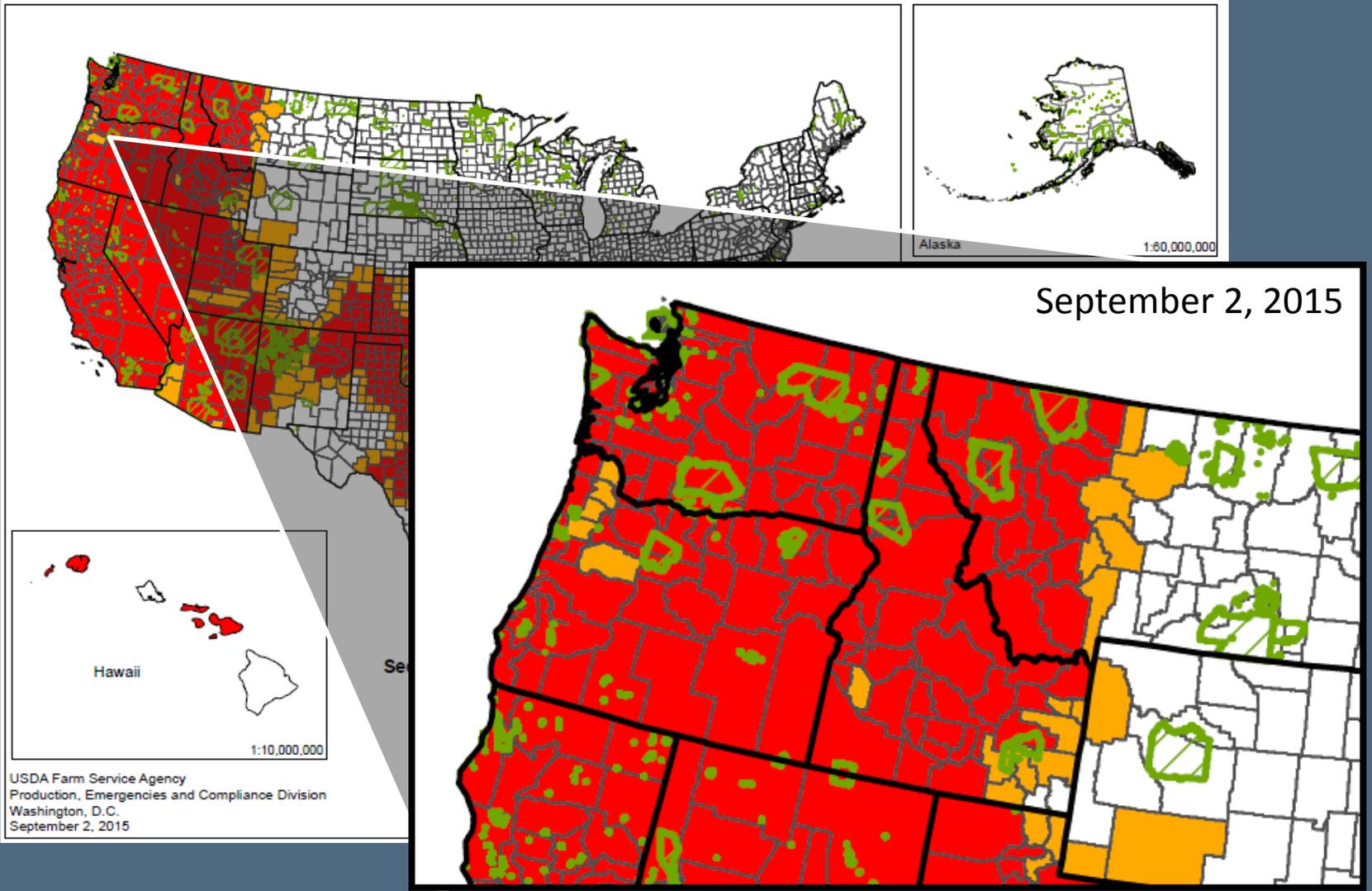
Public Health



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

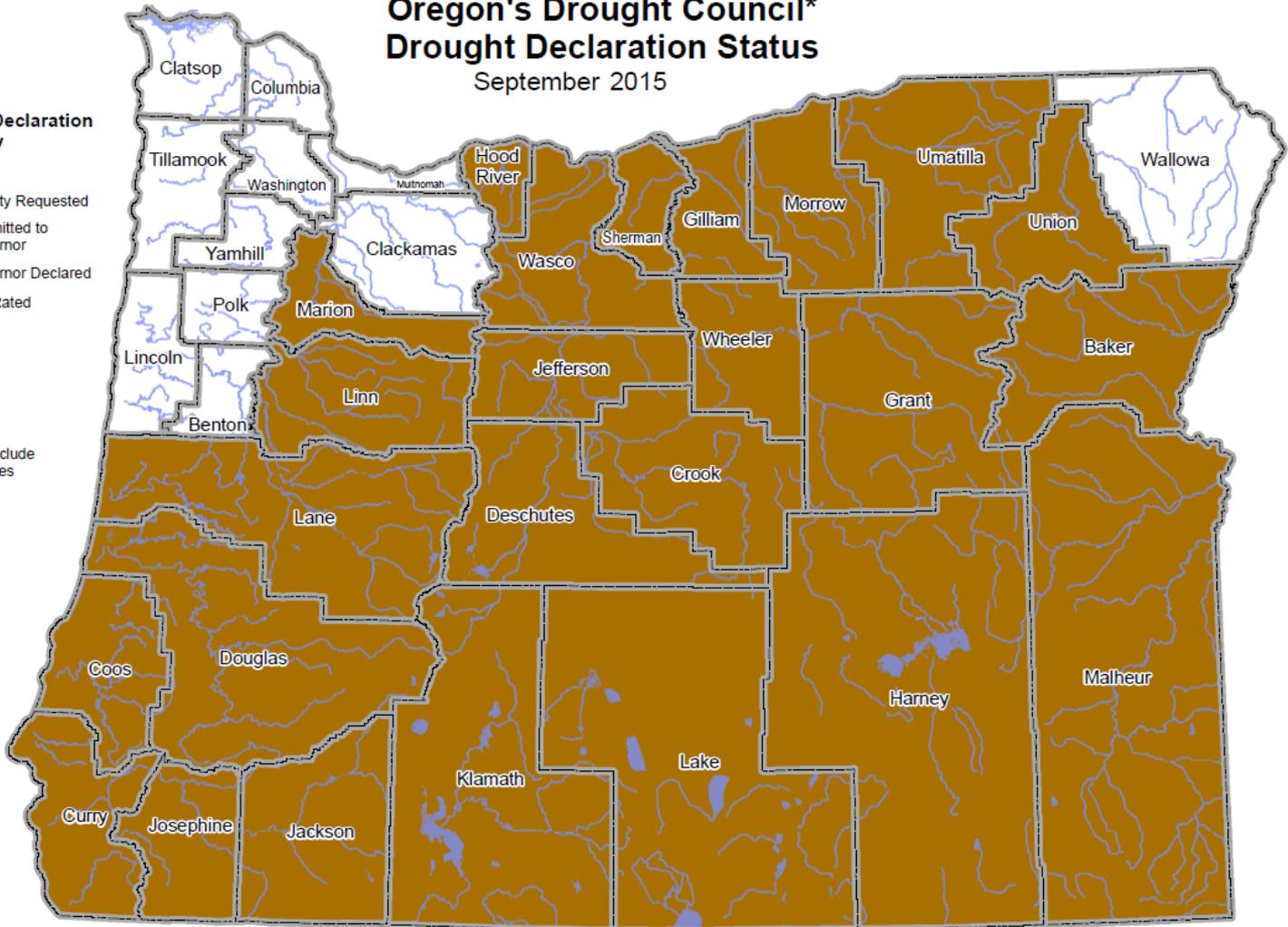
September 2015

Drought Declaration by County

Status

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

*Members Include
State Agencies



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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

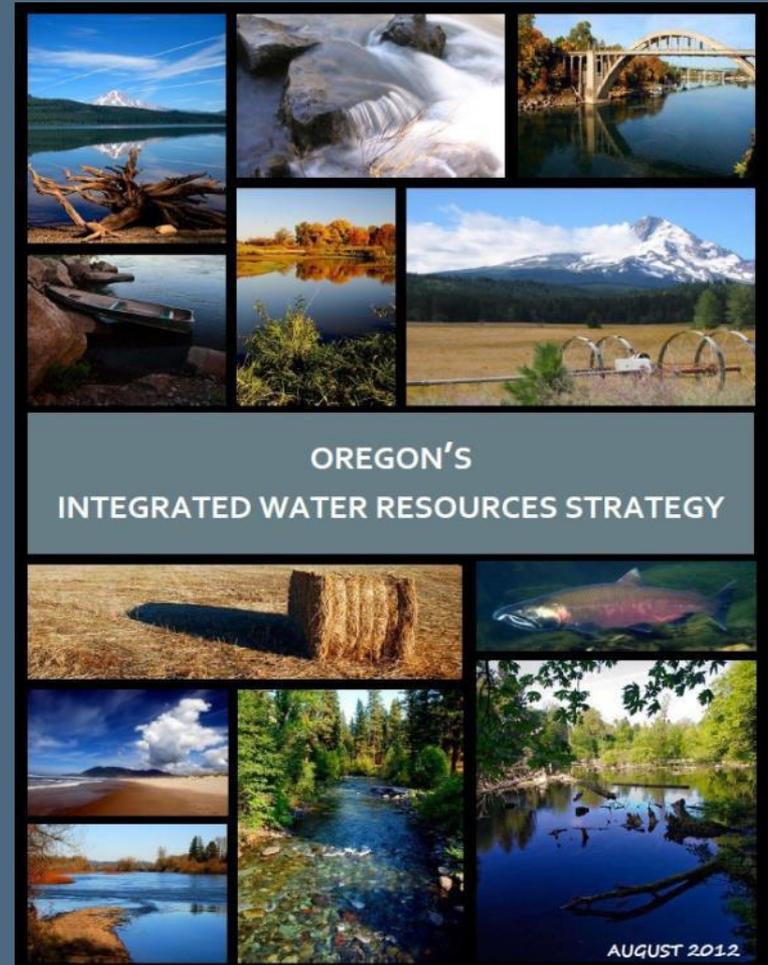
- **OBJECTIVES:**

- 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



Helping
Identify and
Address
Oregon's
Water Needs


Plan and identify
actions

Place-Based
Planning

Water
Project
Grants
and Loans


Implement
actions


Investigate
feasibility

Feasibility
Study
Grants

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.



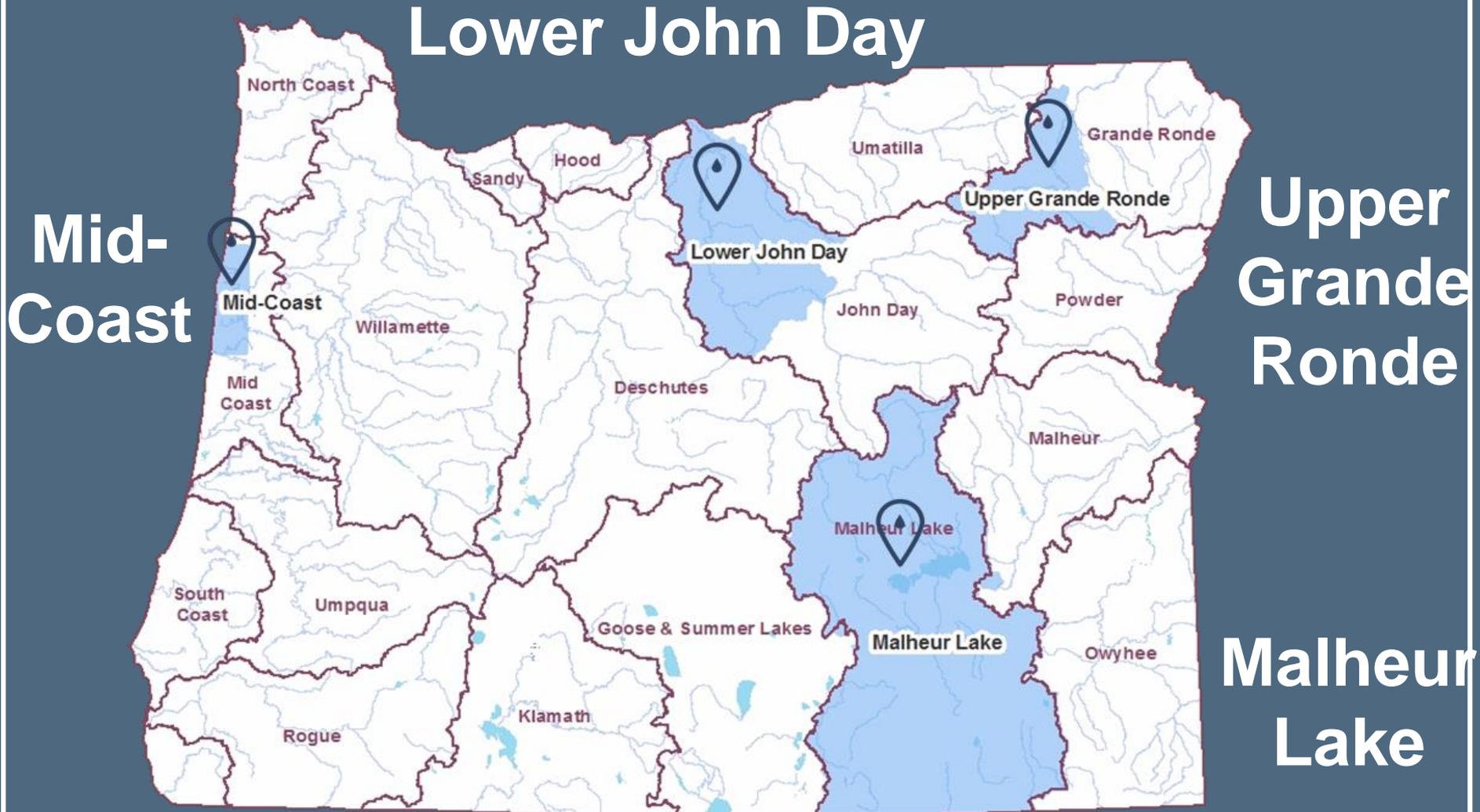


Value of Place-Based Planning

- Capitalize on local knowledge
- Increase understanding of water needs
- Address water challenges as a system
- Identify solutions with broad support
- Decrease conflict
- Pursue solutions with less opposition & more resources



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

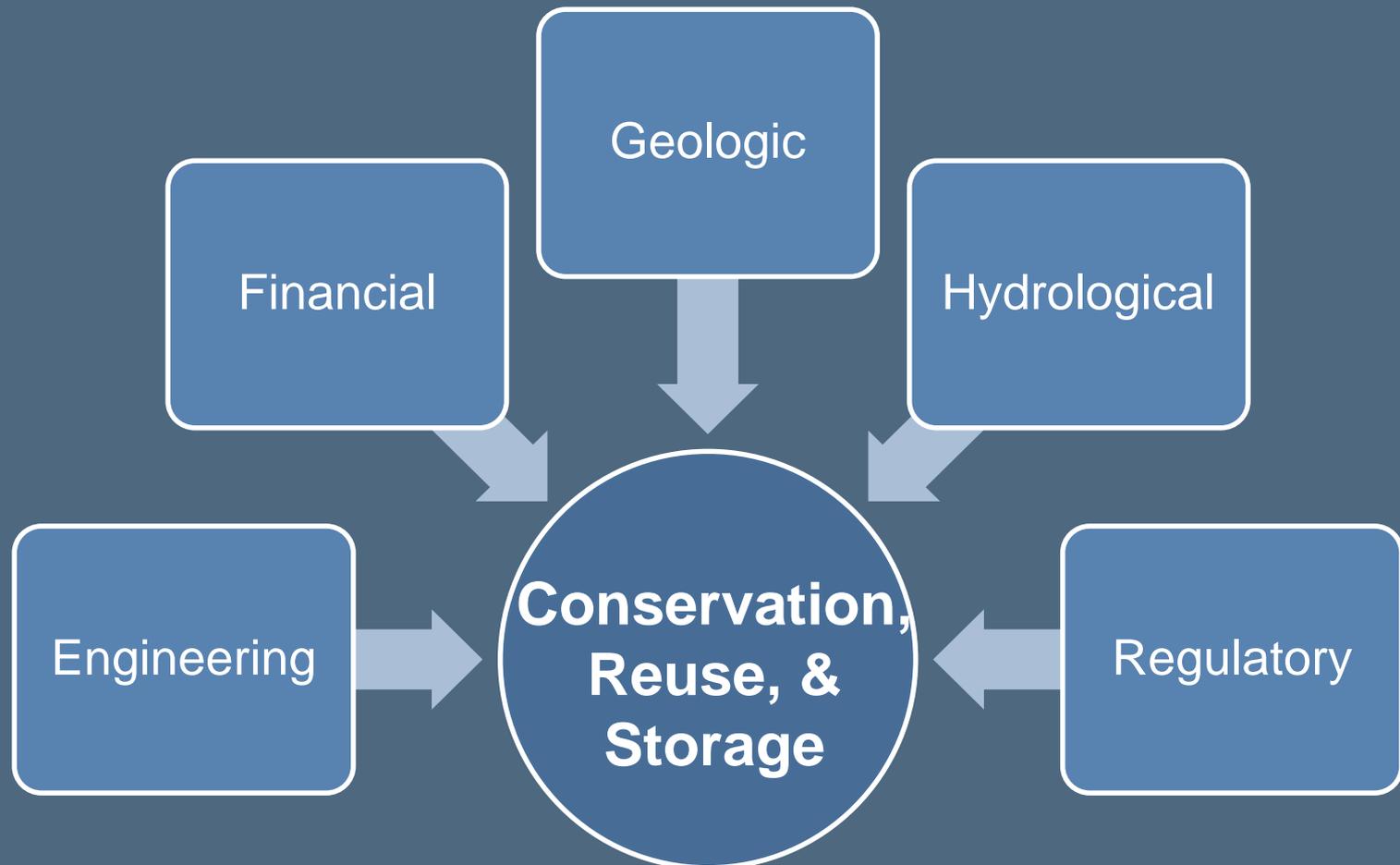


Storage



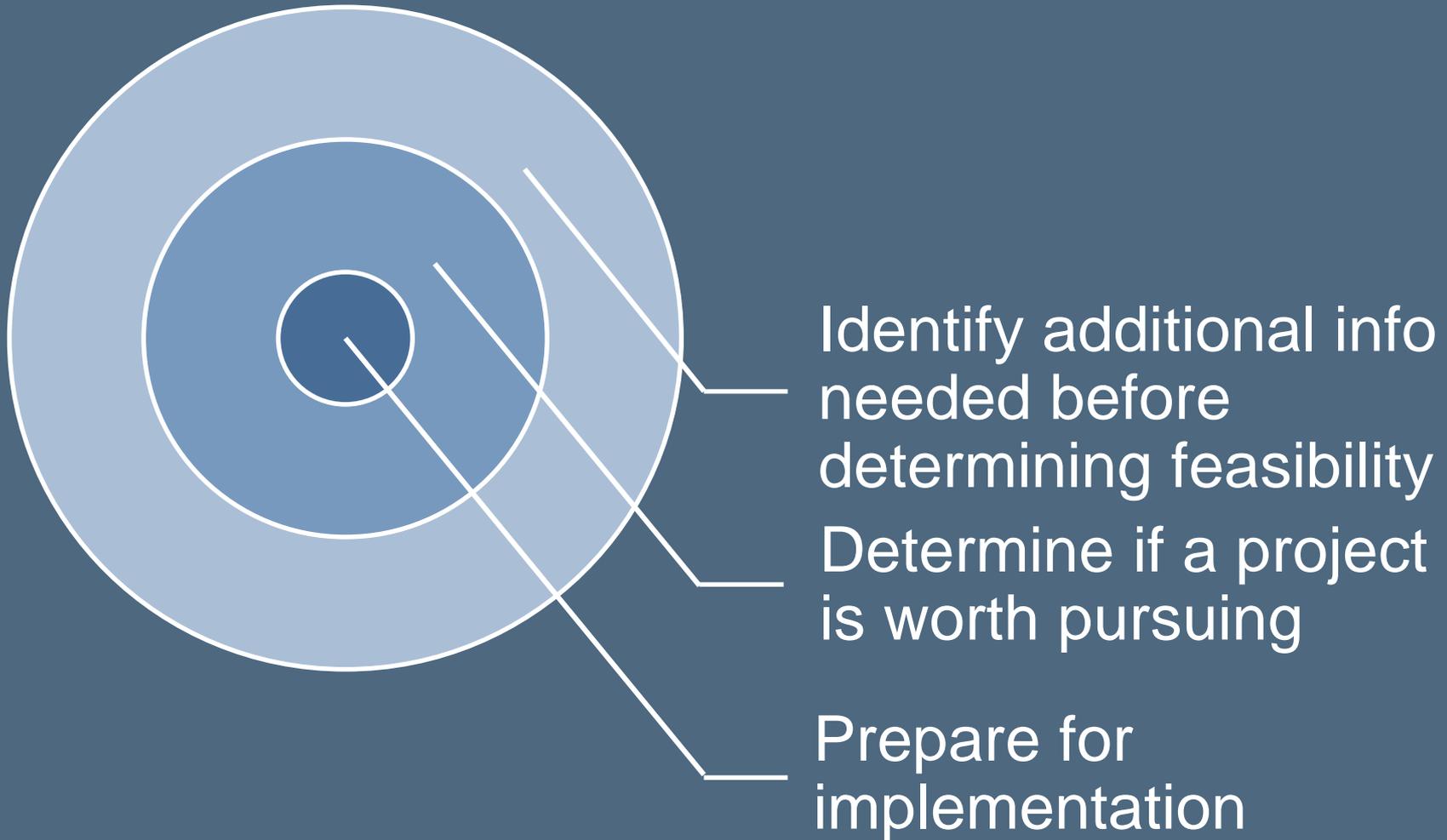
Feasibility Study Grants

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

1st Cycle: 6
grants awarded
(\$497,185)

2nd Cycle: 17
grants awarded
(\$1,269,215)

3rd 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

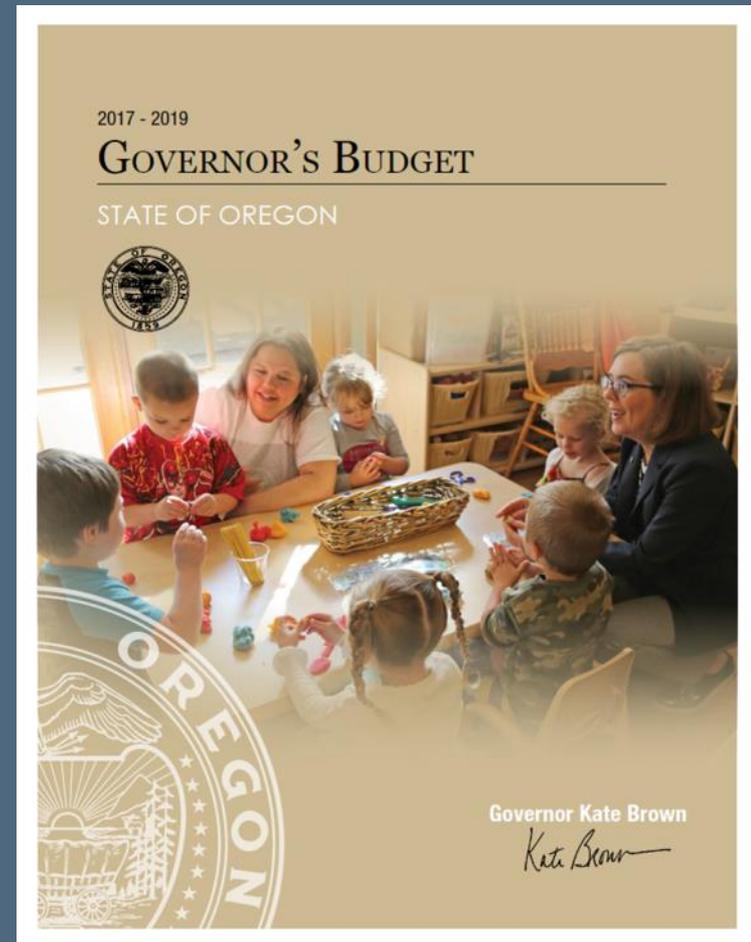
Address
water needs

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

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

Water Resources Department

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- Surface Water
- Transfers
- Water Law
- Water Management
- Water Rights
- Well Construction and Compliance

Drought Watch



1 of 3

Resources For:

- Wells and Well Const
- Exempt Use Water W
- Realtors®
- Certified Water Right
- Water Conservation
- Drought Watch
- Conservation and Su
- Deschutes Basin Miti
- Environmental Justice
- Gold Mining: FAQ
- Assignments and Ow

Lookup Informa

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

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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