



# Oregon

Tina Kotek, Governor

## Water Resources Department

North Mall Office Building  
725 Summer St NE, Suite A  
Salem, OR 97301  
Phone (503) 986-0900  
Fax (503) 986-0904  
[www.Oregon.gov/OWRD](http://www.Oregon.gov/OWRD)

### MEMORANDUM

**TO:** Water Resources Commission

**FROM:** Crystal Grinnell, IWRS Specialist

**SUBJECT:** Agenda Item K, February 24, 2023  
Water Resources Commission

### **IWRS Progress Report and Outreach & Engagement Planning**

#### **I. Introduction**

This informational report provides an overview of the findings from the 2017-2022 Oregon's Integrated Water Resources Strategy (IWRS) Progress Report, presented to the Legislature in December 2022, and an update on the outreach and engagement planning for the IWRS update process in 2023.

#### **II. Background**

As indicated in ORS 536.220, the IWRS is to be updated every five years. The 2022 update was delayed due to limited staff capacity, the significant number of new projects arising from the 2021 session, and to allow some of the 2021 session project work products to be considered in the update. To serve as a foundation for the update, agencies have put together a summary of IWRS accomplishments since 2017 in the form of a progress report.

#### **III. Progress Report**

The 2017-2022 IWRS Progress Report (Progress Report) summarizes the accomplishments of 14 state agencies towards implementing the 2017 IWRS. The Department utilized the Water Core Team agency contacts to gather information about IWRS actions at their respective agencies. Information received included programs, ongoing work, accomplishments, and agency budget requests. Agency websites supplemented this information.

The Progress Report highlights several projects or project types where multiple agencies have collaborated to advance water issues. These categories included:

- Data Collection;
- Oregon Water Data Portal;
- Drought Planning and Support;
- Conservation and Ecological Restoration;
- Place-Based Planning; and
- Pesticide Stewardship Partnership.

Tables 1 and 2 within the Progress Report cross reference each of the 51 IWRS recommended actions with the state agency that contributed to that action in the last five years. The table is helpful in quickly identifying which actions have, or have not, received attention and resources. It is important to note that not all actions can, or should be, acted upon by all agencies, as they may be very specific to one or two agencies' role in water management.

The Progress Report provides narrative describing each of the 14 agencies ongoing activities in relation to water and identifies the IWRS recommended actions that most closely align with their work. Three key accomplishments are highlighted for each agency, many of which are the direct result of funding from the 2021 legislative session.

The Progress Report also identifies the Policy Option Packages included in agency requested budgets for the 2023-25 Biennium that align with IWRS recommended actions. While these items are only requests and not approved budget items, this information helps identify which IWRS topic areas could receive additional resources.

Information provided within the Progress Report shows how state agencies contribute to and collaborate towards implementing the IWRS. The next IWRS may provide an opportunity to communicate the information about the recommended actions in additional ways. For example, it would be helpful to quickly identify (using a table or other graphic) which recommended actions will require policy or legislation, compared with those that only require staffing or funding resources.

The Progress Report only addressed state agency actions regarding the IWRS; however, several recommended actions can be implemented by a wider variety of entities such as public-private partnerships. A specific challenge for the next IWRS will be to convey the opportunity for participation by these entities in a clear and actionable way.

#### **IV. Outreach and Engagement Planning for the IWRS Update**

The Department has partnered with Oregon's Kitchen Table (OKT) to assist with developing and facilitating the implementation of an Outreach and Engagement Plan for the IWRS update. OKT uses culturally specific and targeted outreach to focus on hearing from Oregonians who have been left out of traditional engagement processes, including youth.

OKT will be conducting approximately 30 interviews with community connectors to build relationships, identify community organizers, and determine how best to co-create statewide engagement efforts. OKT and the Department will then convene a process development group to provide input on the engagement process and discuss decision points for public input. Both of these steps will inform the development of an outreach and engagement plan.

Public engagement is anticipated to include 5-7 regional community conversations, a statewide online survey in approximately 8 languages, and culturally specific engagement activities. Regional community conversations are anticipated to occur in May and June of 2023. Locations for the 5-7 regional community conversations have not yet been determined. In 2016, regional "open houses" were held in Beaverton, Bend, Medford, Newport, Ontario, Pendleton, and Salem.

In addition to providing design and facilitation of public meetings, OKT will provide a written report summarizing input received from engagement activities. A final report is anticipated in July 2023 and will inform the draft IWRS update.

Communication has been initiated with the Tribes, in the form of a letter requesting their preferred method of engaging with this process. The Department will incorporate tribal engagement into the Outreach and Engagement Plan based on their response.

Department staff will also continue to meet with agency teams to receive input on the development of the draft IWRS update. These include an internal Department team, the Water Core Team, and the IWRS Project Team which includes 1-2 people from each of the following agencies: the Department of Land Conservation and Development, the Oregon Department of Agriculture, the Oregon Department of Environmental Quality, and the Oregon Department of Fish and Wildlife. Additionally, a Federal Liaison Team is planned but has not yet been convened.

## **V. Conclusion**

The Department will continue collaborating with OKT to advance public engagement and outreach for the IWRS update. At the next Commission meeting in June, Department staff would like to engage the Commission in an IWRS work session to provide input for an initial draft IWRS.

### **Attachments:**

1. 2017-2022 Oregon's Integrated Water Resource Strategies Progress Report

Crystal Grinnell  
(971) 375-5330

# 2017-2022 Oregon's Integrated Water Resources Strategy

## Progress Report

Oregon's Integrated Water Resources Strategy (IWRS) provides a statewide inter-agency framework for better understanding and meeting Oregon's instream and out-of-stream water needs. Oregon's Water Resources Commission adopted the first IWRS in 2012 and the second in 2017. The 2017 IWRS provides recommendations in 13 different issue areas. Each issue area includes multiple recommendations, resulting in more than 50 recommended actions.

Requirements for multi-agency involvement, document adoption, and update frequency are outlined in ORS 536.220. Although the Oregon Water Resources Department (OWRD) is the lead agency for developing and

updating the IWRS, they work in close cooperation with other agencies, stakeholders, and the public.

ORS 526.220 states that the IWRS is to be updated every five years. This Progress Report is intended to summarize progress made to date in achieving the recommended actions outlined in the 2017 IWRS and to help inform the next IWRS update currently underway.

Oregon's **2017**  
Integrated Water Resources Strategy



Clean water restoration plans developed for **5,000** miles of impaired streams and **187,000** acres of impaired water bodies

**\$19.4** million provided by ODA to farmers and ranchers for 2021 natural disaster assistance



**65** Projects awarded funding by ODFW in 2022, supporting removal of **96** fish passage barriers

Over **2,000** cannabis sites investigated for water use compliance (HB 5561)

# Highlighted Accomplishments & Agency Collaboration

## Groundwater & Surface Water Data Collection

Contributing Agencies (see page 3 for agency acronyms)

**ODA, ODEQ, ODFW, OWRD, USGS**

Current, accurate data regarding groundwater and surface water conditions are critical to understanding available water resources.

Specific projects performed under this category include:

- ODA’s Water Quality Pesticide Management Team monitoring
- ODEQ’s Environmental Data Management System (EDMS)
- ODFW’s Real-time instream flow restoration monitoring
- OWRD’s Groundwater Monitoring Program
  - OWRD & USGS Harney Basin Groundwater Study

### ***IWRS recommended actions***

*1.A, 1.B, 1.C*

## Oregon Water Data Portal

Contributing Agencies (see page 3 for agency acronyms)

**DLCD, ODA, ODAS, ODEQ, ODF, ODFW, ODSL, OHA, OSU-INR, OWEB, OWRD**

The Oregon Water Data Portal is a project led by ODEQ. The portal serves as a central location for agencies and the public to access water quality and quantity data.

The project is the result of agency and public demand for easily accessible data to support water planning efforts and decision-making at various scales.

Development of the portal is in the early phases. Future work will include the complex tasks of standardizing and compiling data from many sources. Once the portal is complete, it will support adaptation and resiliency strategies, community education, and water conservation efforts.

### ***IWRS recommended actions***

*1.B, 1.C, 2.B, 5.B, 6.A, 6.B, 8.A, 8.B, 9.A, 10.A*

## Drought Planning & Support

Contributing Agencies (see page 3 for agency acronyms)

**DLCD, DOGAMI, ODA, ODFW, ODHS, ODOE, OEM, OHA, OWEB, OWRD**

Drought planning and support is a statewide priority due to several consecutive years of drought declarations. Both the Drought Readiness Council and the Water Supply Availability Committee are chaired by OWRD and provide a forum for inter-agency coordination.

Examples of agency efforts include:

- DOGAMI & DLCD Multi-hazard and Natural Hazard Risk Reports
- ODA provided \$19.4 million in assistance for impacts from natural disasters
- ODFW funding for drought fish passage projects, drought education and outreach campaign
- ODHS/OEM Emergency Water Supplies in the Klamath Basin
  - OWRD Water Well Abandonment, Repair, and Replacement Funds (WARRF)
    - OWEB Drought Relief Grants

### ***IWRS recommended actions***

*1.B, 1.C, 2.B, 4.C, 5.A, 5.B, 5.5C, 6.B, 13.B, 13.C, 13.D, 13.E*

## Conservation & Ecological Restoration

Contributing Agencies (see page 3 for agency acronyms)

**ODA, ODEQ, ODF, ODFW, OPRD, OWEB, OWRD**

Conservation and restoration activities protect and improve water quality and fish and wildlife habitat.

- ODA – Supports 45 Soil & Water Conservation Districts throughout Oregon
- ODEQ – Designated Waldo & Crater Lake Outstanding Resource Waters
- ODF – Pursuing a State Forests Habitat Conservation Plan
  - ODFW – Implemented projects to improve fish passage and secured instream water rights
- OWEB – Administers 17 grant programs to protect and restore watersheds
- OPRD & OWRD – Designated a portion of the Nehalem River a Scenic Waterway

### ***IWRS recommended actions***

*9.B, 11.A, 11.B, 11.D, 13.C, 13.E*



## Place-Based Planning

Contributing Agencies (see right for agency acronyms)

### **ODA, ODEQ, ODFW, OWRD**

Lead by OWRD, a pilot place-based planning process began in 2016. Four planning areas were awarded funding to complete regionally-specific plans that address water quality, quantity, and ecosystem needs:

- Upper Grande Ronde Sub-basin
  - Lower John Day Sub-basin
    - Mid-Coast Region
    - Harney Basin

Three final plans were published in 2022, and these groups are now working on implementation. The Harney Basin has completed the groundwater portion of the plan and is now working on the surface water planning. Authority to fund place-based planning sunsets in 2023, OWRD is introducing legislation to make the program permanent.

### ***IWRS recommended actions***

***1.C, 3.A, 3.B, 5.B, 6.A, 7.B, 8.D, 9.A, 9.B, 9.C, 10.C, 11.B***

## Pesticide Stewardship Partnership

Contributing Agencies (see right for agency acronyms)

### **ODA, ODEQ, ODFW, ODF, OWEB, OSU, PSU**

The Pesticide Stewardship Partnership (PSP) Program is a voluntary program that relies on local partnerships to monitor pesticide levels in waterways and enact solutions to protect water quality while managing pests and maintaining crop yield.

The PSP Program provides technical assistance, outreach, and education.

There are nine PSP Program areas across the state. Watershed councils and soil and water conservation districts are additional partners.

The PSP Program documents water quality sampling results in their biennial summary reports.

### ***IWRS recommended actions***

***1.B, 8.C, 8.D, 12.A, 12.B***

## IWRS Accomplishments Summary

**Tables 1 and 2** (below) identify the agencies that have contributed to advancing IWRS recommended actions since 2017. Table 1 lists the 28 recommended actions (1.A through 8.D) under **IWRS Goal 1, Improving Our Understanding of Oregon’s Water Resources**. Table 2 lists the 23 recommended actions (9.A through 13.E) under **Goal 2, Meeting Oregon’s Water Resource Needs**.

Acronyms for each agency have been used. A list of the full agency names is provided, below:

BizOR – Business Oregon  
DOGAMI – Oregon Department of Geology & Mineral Industries  
DLCD – Oregon Department of Land Conservation & Development  
ODA – Oregon Department of Agriculture  
ODEQ – Oregon Department of Environmental Quality  
ODF – Oregon Department of Forestry  
ODFW – Oregon Department of Fish & Wildlife  
ODOE – Oregon Department of Energy  
ODSL – Oregon Department of State Lands  
OHA – Oregon Health Authority  
OPRD – Oregon Parks and Recreation Department  
OSMB – Oregon State Marine Board  
OWEB – Oregon Watershed Enhancement Board  
OWRD – Oregon Water Resources Department

Agencies mentioned in “Highlighted Accomplishments” but not included in Tables 1 and 2:

ODAS – Oregon Department of Administrative Services  
ODHS – Oregon Department of Human Services  
OEM – Office of Emergency Management  
OSU-INR – Oregon State University Institute of Natural Resources  
USGS – United States Geological Survey

**Table 1. Oregon Agencies Contributing to IWRS Implementation, 2017-2022 - Goal 1**

GOAL 1: Improve Our Understanding of Oregon's Water Resources		BIZOR	DGMI	DLCD	ODA	ODEQ	ODF	ODFW	ODOE	ODSL	OHA	OPRD	OSMB	OWEB	OWRD
Understanding Water Resources	1.A Conduct additional groundwater investigations		X		X	X									X
	1.B Improve water resource data collection & monitoring				X	X		X			X			X	X
	1.C Coordinate inter-agency data collection, processing, and use in decision-making		X	X	X	X	X	X		X	X			X	X
Understanding Oregon's Out-of-Stream Needs/ Demands	2.A Regularly update long-term water demand forecasts			X	X										X
	2.B Improve water-use measurement & reporting														X
	2.C Determine unadjudicated water right claims														X
	2.D Authorize the update of water right records with contact information														
	2.E Regularly update Oregon's water-related permitting guide														
Understanding Instream Needs/ Demands	3.A Determine flows needed (quality & quantity) to support instream needs				X	X		X				X			X
	3.B Determine needs of groundwater dependent ecosystems		X			X		X							X
Water & Energy	4.A Analyze the effects on water from energy development projects & policies					X		X	X						X
	4.B Take advantage of existing infrastructure to develop non-traditional hydroelectric power														X
	4.C Promote strategies that increase/integrate energy & water savings								X					X	X
		BIZOR	DGMI	DLCD	ODA	ODEQ	ODF	ODFW	ODOE	ODSL	OHA	OPRD	OSMB	OWEB	OWRD
Climate Change	5.A Support continued basin-scale climate change research efforts			X		X		X							X
	5.B Assist with climate change adaptation & resiliency strategies	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Extreme Events	5.5A Plan and prepare for drought resiliency			X	X	X	X	X	X		X			X	X
	5.5B Plan and prepare for flood events		X	X							X				X
	5.5C Plan and prepare for a Cascadia subduction earthquake event		X	X							X				X
Water & Land Use	6.A Improve integration of water information into land use planning (and vice versa)		X	X	X	X		X		X					X
	6.B Improve state agency coordination	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	6.C Encourage low-impact development practices and green infrastructure	X				X					X			X	
Water-Related Infrastructure	7.A Develop and upgrade water and wastewater infrastructure	X	X	X		X									X
	7.B Encourage regional (sub-basin) approaches to water and wastewater systems	X				X									X
	7.C Ensure public safety/dam safety	X						X							X
Education & Outreach	8.A Support Oregon's K-12 environmental literacy plan												X		X
	8.B Provide education and training for Oregon's next generation of water experts														X
	8.C Promote community education and training opportunities				X	X	X	X		X	X		X		X
	8.D Identify ongoing water-related research needs				X	X		X	X		X				X

**Table 2. Oregon Agencies Contributing to IWRS Implementation, 2017-2022 - Goal 2**

GOAL 2: Meet Oregon's Water Resource Needs		BIZOR	DGMI	DLCD	ODA	ODEQ	ODF	ODFW	ODOE	ODSL	OHA	OPRD	OSMB	OWEB	OWRD
Place-Based Efforts	9.A Continue to undertake place-based integrated, water resources planning		X	X	X	X		X						X	X
	9.B Coordinate implementation of existing natural resource plans			X	X	X	X	X				X		X	X
	9.C Partner with federal agencies, tribes, and neighboring states in long-term water resources management			X	X	X	X	X							X
Water Management & Development	10.A Improve water-use efficiency and water conservation				X			X	X					X	X
	10.B Improve access to built storage	X						X							X
	10.C Encourage additional water reuse projects					X		X							
	10.D Reach environmental outcomes with non-regulatory alternatives	X			X	X	X	X						X	X
	10.E Continue the water resources development program							X							X
	10.F Provide an adequate presence in the field				X	X		X			X				X
	10.G Strengthen water quantity & water quality permitting programs				X	X	X	X		X					X
		BIZOR	DGMI	DLCD	ODA	ODEQ	ODF	ODFW	ODOE	ODSL	OHA	OPRD	OSMB	OWEB	OWRD
Healthy Ecosystems	11.A Improve watershed health, resiliency, and capacity for natural storage				X	X	X	X		X		X		X	X
	11.B Develop additional instream protections				X	X	X	X				X		X	X
	11.C Prevent and eradicate invasive species				X	X	X	X				X	X	X	
	11.D Protect and restore instream habitat and habitat access for fish and wildlife	X			X	X	X	X		X		X		X	X
	11.E Develop additional groundwater protections					X									X
Public Health	12.A Ensure the safety of Oregon's drinking water	X				X	X				X			X	X
	12.B Reduce the use of and exposure to toxics and other pollutants	X			X	X	X	X		X	X		X	X	
	12.C Implement water quality pollution control plans				X	X	X							X	
Funding	13.A Fund development and implementation of Oregon's IWRS	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	13.B Fund water resources management activities at state agencies		X	X	X	X	X	X		X	X	X	X	X	X
	13.C Invest in local or regional water planning efforts	X	X	X	X	X		X						X	X
	13.D Invest in feasibility studies for water resources projects	X			X	X		X		X	X				X
	13.E Invest in implementation of water resources projects	X			X	X	X	X	X	X			X	X	X



## Oregon Agency Summaries

Oregon agencies have variety of connections with water and with the IWRS. Some agencies work exclusively with natural resource issues that include water, while others have a peripheral role in water management.

The summaries, below, provide a description of an agency's work relating to water, identifies state agencies with whom they collaborate, lists the IWRS recommended actions most applicable to their ongoing work, and gives three examples of IWRS accomplishments (selected by OWRD).

This information provides valuable insights into how Oregon agencies work together to manage water resources; however, it is important to recognize that implementation of IWRS recommended actions often will require local, state, federal, and tribal participation, as well as efforts by non-governmental organizations (NGO's) and the public.

### Business Oregon (BizOR)

BizOR is the state's economic development agency, with a mission to "invest in Oregon businesses, communities, and people to promote a globally competitive, diverse, and inclusive economy." BizOR administers a variety of loan and grant programs that support site assessment, remediation, and water infrastructure planning, design, and implementation. The types of water infrastructure projects that receive funding include drinking water supply, stormwater conveyance, wastewater treatment, water storage, fish passage, and levees.

BizOR frequently collaborates with state agencies, including DLCD, DOGAMI, ODEQ, ODFW, OHA, OWRD, and OWEB.

Grant and loan programs administered by BizOR address ***IWRS recommended actions 7.A, 7.C, 11.D, 12.A, 12.B, and 13.E.***

#### **BizOR 2017-2022 IWRS Accomplishments:**

- Funded 61 water-related water projects through the American Rescue Plan Act (ARPA) in 2022, totaling nearly \$280 million.
- Developed the new **Tide Gate Program** in 2022, providing loans to replace tide gates and improve fish passage.

- Awarded nearly \$140 million dollars (2017-2022) for planning, design, and construction of drinking water infrastructure through the **Safe Drinking Water Fund**.

### Department of Geology and Mineral Industries (DOGAMI)

DOGAMI's mission is to "provide earth science information and regulation to make Oregon safe and prosperous." DOGAMI works to increase understanding of Oregon's geologic resources and hazards through science and stewardship. There are two main programs at the Agency: Mineral Regulation and Reclamation (MLRR) and Geological Survey and Services (GS&S). The MLRR Program oversees the state's mineral production and works to minimize impacts of natural resource extraction and to maximize the opportunities for land reclamation. This includes extensive interagency coordination to enforce mining permits that protect water quality, among other environmental concerns. The GS&S program has much more extensive interaction with the IWRS, including earth science data collection, information sharing, natural hazard mapping, and identification of risk reduction strategies. Staff in the GS&S program lead the Oregon Lidar Consortium which organizes the collection of lidar data in coordination with dozens of local, state, and federal partners.

DOGAMI frequently collaborates with other state agencies, including DLCD, ODEQ, ODOT, OEM, OHA, and OWRD.

DOGAMI'S ongoing work supports ***IWRS recommended actions 1.A, 1.B, 1.C, 3.B, 5.5A, 5.5B, 5.5C, and 13.C.***

#### **DOGAMI 2017-2022 IWRS Accomplishments:**

- Released the **Oregon Seismic Hazard Database 1.0** (2021) providing the first comprehensive collection of seismic hazard data for Oregon.
- Published the 'DOGAMI Bulletin 108, Geology of the North Half of the Lower Crooked River Basin, Crook, Deschutes, Jefferson, and Wheeler Counties' which characterizes **geologic conditions controlling the distribution of water resources**.
- Published the **Oregon Coastal Hospital Resilience Project: Resilience Planning Maps and Guidance**.

## Department of Land, Conservation, and Development (DLCD)

DLCD's mission is to "help communities and citizens plan for, protect and improve the built and natural systems that provide a high quality of life. In partnership with citizens and local governments, we foster sustainable and vibrant communities and protect our natural resources legacy." DLCD's work is guided by Oregon's Statewide Land Use Planning Goals, requiring each city and county to adopt and maintain a comprehensive plan addressing these goals. DLCD has been leading the state's Climate Change Adaptation Framework and Climate Change Vulnerability Assessment. Additionally, DLCD administers a variety of grants for comprehensive plan updates, public facilities plan updates, natural hazard mitigation planning, and climate change adaptation and mitigation. DLCD provides annual funding to Portland State University (PSU) to update county-level population forecasts.

DLCD frequently collaborates with other state agencies, including ODA, DOGAMI, ODFW, ODF, OWEB, and OWRD.

DLCD's ongoing work supports ***IWRS recommended actions 1.C, 2.A, 5.A, 5.B, 5.5A, 5.5B, 5.5C, 6.A, 9.B, 11.A, 11.D, and 13.C.***

### DLCD 2017-2022 IWRS Accomplishments:

- Lead the development of the **2021 Climate Change Adaptation Framework**, in collaboration with 24 state agencies.
- Initiated the **Climate Change Vulnerability Assessment** (target completion 2023).
- Assisted cities with **Public Facilities Plan updates**, which include the development of cost estimates and funding plans for sewer and water systems.

## Oregon Department of Agriculture (ODA)

ODA's mission is to "ensure healthy natural resources, environment, and economy for Oregonians now and in the future through inspection and certification, regulation, and promotion of agriculture and food." ODA oversees many programs that support water quality and habitat protection. The Insect Pest Prevention & Management Program supports invasive

species eradication. The Agricultural Water Quality Program supports water quality monitoring, identifies Strategic Implementation Areas (SIA's) needing additional water quality management, and provides grants to Soil & Water Conservation Districts and watershed councils for voluntary water quality projects. The Confined Animal Feeding Operations (CAFO) and Pesticide Stewardship Partnership Programs also focus on collaboration and strategies to protect water quality.

ODA frequently collaborates with other state agencies, including ODEQ, ODFW, ODF, OHA, and OWRD.

ODA's ongoing work supports ***IWRS recommended actions 1.B, 1.C, 6.A, 6.B, 8.C, 8.D, 9.B, 12.A, 12.B, 11.A, 11.C, 11.D, 13.A, 13.C, and 13.E.***

### ODA 2017-2022 IWRS Accomplishments:

- Supported **invasive species eradication** for Japanese beetle, apple moth, light brown apple moth, and emerald ash borer. These invasive species can damage or kill trees, posing a risk to watershed health.
- Conducted research related to fertilizers and **nitrate levels that are impacting groundwater quality.**
- ODA and ODEQ developed a Memorandum of Understanding to describe activities each agency will complete to **ensure CAFO's protect the environment** for all Oregonians.

## Oregon Department of Environmental Quality (ODEQ)

ODEQ's mission is to "be a leader in restoring, maintaining, and enhancing the quality of Oregon's air, land, and water." ODEQ has four Divisions: Air Quality, Land Quality, Water Quality, and Laboratory Administration. The latter three Divisions perform work related to the IWRS. The Land Quality Division oversees programs that address pollutant management and cleanup. The Water Quality Division implements state and federal laws to protect and restore Oregon's rivers, lakes, streams, oceans, estuaries, and groundwater. This work plays a critical role in ensuring that Oregon's water resources are safe and available for both in and out-of-stream uses, a fundamental goal of the IWRS to meet Oregon's water resource needs. Programs within the Water Quality Division support water quality

monitoring and compliance, funding for planning/design/construction of water pollution control activities (Clean Water State Revolving Fund) and encourage water reuse. The Laboratory and Environmental Assessment Division oversees water quality monitoring programs.

ODEQ frequently collaborates with other state agencies, including DOGAMI, ODA, ODF, ODFW, OHA, and OWRD.

ODEQ's ongoing work supports ***IWRS recommended actions 1.A, 1.B, 1.C, 3.A, 6.C, 7.A, 8.D, 9.B, 10.C, 10.D, 10.G, 11.C, 12.A, 12.B, 12.C, 13.A, and 13.E.***

#### **ODEQ 2017-2022 IWRS Accomplishments:**

- Lead the **Oregon Water Data Portal Project** to co-locate water data from several agencies.
- Conducted rulemaking to incorporate new eligible Clean Water State Revolving Fund (CWSRF) borrowers for the purpose of **lending to address failing onsite septic systems.**
- Designated **Waldo and Crater Lake as Outstanding Resource Waters**, providing additional protections.

#### **Oregon Department of Forestry (ODF)**

ODF's mission is to "serve the people of Oregon by protecting, managing, and promoting stewardship of Oregon's forests to enhance environmental, economic, and community sustainability." The Forest Practices Act (FPA) guides ODF's management of private and federally owned forests. The recent Private Forest Accord modifies the implementation of the FPA, providing additional protections to habitat and water quality. ODF also manages over 700,000 acres of state-owned forests and the state's Common School Fund Forest Lands. Management approaches to both private and public forests provide an opportunity to protect water quality, conserve and restore habitat for native species, and eradicate invasive species.

ODF frequently collaborates with other state agencies, including ODA, ODEQ, ODFW, OWEB and OWRD.

ODF's ongoing work supports ***IWRS recommended actions 1.C, 6.B, 8.C, 8.D, 9.B, 10.G, 11.A, 11.B, 11.C, 11.D, 12.B, and 13.E.***

#### **ODF 2017-2022 IWRS Accomplishments:**

- Implemented the **Private Forest Accord** (Senate Bill 1501, 2022), including administrative rules that focus on riparian protections.
- Collaborated with ODA to **slow the spread of emerald ash borer**, which can kill native Oregon ash trees, an important species in riparian and wetland areas.
- Educated private forestland owners and identified opportunities for voluntary actions that improve or **enhance in-stream conditions and habitat for fish and aquatic wildlife.**

#### **Oregon Department of Fish and Wildlife (ODFW)**

ODFW's mission is to "protect and enhance Oregon's fish and wildlife and their habitats for use and enjoyment by present and future generations." ODFW has three Divisions, Fish, Habitat, and Wildlife, all of which provide some level of support for the IWRS. Fish Division programs include fish passage/screening engineering, public education, conservation, and recovery. The Habitat Division programs collect and share data, identify conditions needed to support aquatic and terrestrial species, and support restoration activities. The Wildlife Division includes a conservation program that implements the Oregon Conservation Strategy and a habitat program that oversee 16 ODFW Wildlife Areas. ODFW also co-manages an Aquatic Invasive Species Prevention Program with OSMB.

ODFW frequently collaborates with other state agencies, including DLCD, ODA, ODEQ, ODF, ODOT, ODSL, OSMB, OWEB, and OWRD.

ODFW's ongoing work supports ***IWRS recommended actions 1.B, 1.C, 3.A, 4.A, 5.A, 5.B, 5.5A, 5.5B, 6.A, 6.B, 8.C, 9.A, 9.B, 9.C, 11.A, 11.C, and 11.D.***

#### **ODFW 2017-2022 IWRS Accomplishments:**

- **Installed wetland enhancements** at Summer Lake, Klamath, Irrigon, and Fern Ridge wildlife areas to store and manipulate water for wildlife benefits.

- Hired/Funded new **Water Planning Coordinator** position to support Place Based Planning and other local efforts (Deschutes, Walla Walla, Upper Grande Ronde, Harney).
- Developed and implemented **drought education and outreach campaign** to communicate 1) the impacts of drought and wildfire on fish, wildlife, and habitats, 2) the unintended impacts of recreation on fish, wildlife, and habitats during drought; and 3) alternative recreation opportunities during the drought.

### Oregon Department of Energy (ODOE)

ODOE’s mission is to “help Oregonians make informed decisions and maintain a resilient and affordable energy system.” The agency accomplishes this through a combination of data collection/analysis, education, technical assistance, regulation, oversight, and administration of energy programs. ODOE offers a variety of incentive programs to encourage energy and water conservation.

ODOE collaborates with state agencies including ODEQ, ODFW, and OWRD

ODOE’s ongoing work supports ***IWRS recommended actions 4.A, 4.C, 5.B, 10.A, 10.C and 11.B.***

#### ODOE 2017-2022 IWRS Accomplishments:

- Awarded funding through the **Renewable Energy Development Grant** program to irrigation districts to generate power from canal piping projects.
- Published the **2022 Biennial Energy Report**, which includes energy data collection/analysis, informing local, state, and federal energy policy, planning and investments. The report addresses the interconnection of water and energy with respect to hydropower supply and demand, the potential for collecting renewable natural gas from wastewater treatment plants, and residential opportunities to conserve both water and energy.
- Released **new efficiency standards for landscaping spray sprinkler bodies**, applicable to products manufactured on or after 1/1/2023 and **new efficiency standards for faucets and showerheads**, applicable to products manufactured on or after 1/1/2022.

### Department of State Lands (ODSL)

The Department’s mission is “to ensure Oregon’s school land legacy and protect wetlands and waterways of the State through superior stewardship and service.” ODSL oversees permitting associated with removal or fill in wetlands and or waterways, as defined in Oregon’s Removal-Fill Law (ORS 196.795-990). The Department maintains programs and training to support natural resource identification, included the Oregon Rapid Wetland Assessment Protocol (ORWAP), Stream Function Assessment Method (SFAM), and Aquatic Resource Mitigation Framework. ODSL also coordinates with state, federal, and community partners to address abandoned or derelict vessels in waterways.

ODSL frequently collaborates with other state agencies, including ODEQ, OSMB, and OPRD.

ODSL’s ongoing work supports ***IWRS recommended actions 1.C, 6.A, 8.C, 10.G, 11.A, 11.D, and 12.B.***

#### ODSL 2017-2022 IWRS Accomplishments:

- **Organized and executed 58 camp cleanup projects** (2020-present), removing over 100 tons of debris from state owned channel beds and banks.
- **Removed 29 vessels** from waterways (2018 & 2019).
- In 2020, released updates to the **Oregon Rapid Wetland Assessment Protocol** (release 3.2) and the **Stream Function Assessment Method** (release 1.1).

### Oregon Health Authority (OHA)

OHA’s mission is “ensuring all people and communities can achieve optimum physical, mental, and social well-being through partnerships, prevention, and access to quality, affordable health care.” While OHA encompasses many divisions and programs that promote public health, it is the Environmental Public Health (EPH) section of the Public Health Division that includes the most relevant activities in relation to the IWRS. OHA-EPH identifies, assesses, and reports on threats to human health from exposure to environmental and occupational hazards, and also advises the people and

communities of Oregon on how to best understand potential risks where they live, work and play. OHA-EPH's involvement with water is through the Healthy Waters program that includes Fish Consumption Advisories, Harmful Algae Bloom Surveillance (HABS), Beach Monitoring, and Domestic Well Safety. OHA-EPH also includes Drinking Water Services (DWS), which administers and enforces drinking water quality standards for public water systems in the state of Oregon. DWS provides water system operator training, technical assistance for water systems, and emergency planning and response.

OHA frequently collaborates with other state agencies, including BizOR, ODA, ODEQ, OEM, and OWRD.

OHA's ongoing work supports ***IWRS recommended actions 1.B, 5.5A, 5.5B, 5.5C, 7.A, 8.C, 12.A, and 13.E.***

#### **OHA 2017-2022 IWRS Accomplishments:**

- Participated in state **emergency response and recovery** for 2020 wildfires, assessing impacted public water systems.
- Conducted perfluoroalkyl and polyfluoroalkyl substance (PFAS) monitoring **study of 146 small public water systems at possible risk** of contamination.
- Updated agreement with ODEQ to include more **strategies to increase groundwater and source water protection.**

#### **Oregon Parks and Recreation Department (OPRD)**

OPRD's mission is "to provide and protect outstanding natural, scenic, cultural, historic and recreational sites for the enjoyment and education of present and future generations." OPRD manages and maintains state parks, campgrounds, and beaches. They administer several grant programs, all aimed at increasing access to recreation. OPRD manages the State Natural Areas Program to protect and recognize high quality native ecosystems and rare plant and animal species. OPRD also manages the Scenic Bikeways, Scenic Trails, and Scenic Waterways Programs. The Scenic Waterways program supports recommended action 11.B in the IWRS, i.e., "develop additional instream protections." A Scenic Waterway designation places restrictions on the types of activities that can occur within or near the banks

of the waterway. Oregon's Scenic Waterway system includes 22 rivers and one mountain lake.

OPRD's collaborates with several other state agencies on the Scenic Waterways program, including ODA, ODEQ, ODF, ODFW, ODSL, and OWRD.

OPRD's ongoing work supports ***IWRS recommended actions 3.A, 6.B, 9.B, 11.B and 11.D.***

#### **OPRD 2017-2022 IWRS Accomplishments:**

- In collaboration with OWRD, designated the **Nehalem River** (from Henry Rierson Spruce Run Campground to the confluence with Cook Creek) as a **Scenic Waterway**, providing additional protections.
- Completed the Sitka Sedge Natural Area hydrology study (2019) to assess the removal of dikes to allow **fish passage and improve habitat.**
- Completed the **Willamette Basin Strategic Action Plan** (2017), which addresses protection and restoration of natural resources, partnerships, funding, monitoring and public communication.

#### **Oregon State Marine Board (OSMB)**

OSMB's mission is to serve "Oregon's recreational boating public through education, enforcement, access, and environmental stewardships for a safe and enjoyable experience." OSMB accomplishes this mission through their Administration & Education, Law Enforcement, Boating Facilities, and Aquatic Invasive Species Prevention Programs. The Administration and Education Program provides boater registration, education, clean marina certification, and coordinates abandoned/derelict vessel removals, reducing hazards in waterways to both humans and wildlife. The Boating Facilities Program provides grants and technical assistance to renovate, construct, and maintain approximately 1,200 public boating access facilities in Oregon. The Aquatic Invasive Species Prevention Program is co-managed with ODFW. OSMB develops outreach and education materials and contracts with ODFW for border inspection stations, inspectors, and decontamination efforts.



OSMB collaborates with other state agencies, including ODEQ, ODFW, ODSL, and OPRD.

OSMB's ongoing work supports *IWRS recommended actions 6.B, 8.A, 8.C, 11.C and 12.B.*

#### **OSMB 2017-2022 IWRS Accomplishments:**

- Increased standards in 2021 for boating facilities to receive certification through the **Clean Marina Program** to protect and improve water quality.
- Coordinated with ODFW on the **Aquatic Invasive Species Program** to educate, inspect, and enforce regulations regarding boat and ballast management to minimize the transfer of invasive species into waterways.
- Coordinated statewide **water safety education programs** including K-12 programs.

#### **Oregon Watershed Enhancement Board (OWEB)**

OWEB's mission is to "help protect and restore healthy watersheds and natural habitats that support thriving communities and strong economies." The agency provides grants to a variety of public and private entities to accomplish habitat conservation, restoration, and monitoring. OWEB currently offers 17 different grant programs. OWEB's work supports the Oregon Plan for Salmon and Watersheds, including the task of coordinating watershed monitoring data from a variety of private landowners, federal, and state agencies. OWEB maintains the Oregon Watershed Restoration Inventory (OWRI) database which quantifies conservation and restoration results to inform future efforts.

OWEB frequently collaborates with other state agencies, including ODA, ODEQ, ODF, ODFW, and OWRD.

OWEB's ongoing work supports *IWRS recommended actions 1.B, 5.5A, 9.A, 9.B, 10.A, 10.E, 11.A, 11.B, 11.C, 11.D, and 13.E.*

#### **OWEB 2017-2022 IWRS Accomplishments:**

- Established and implemented the **2020 and 2021 Post-Fire Recovery Grants** to support upland and riparian replanting, floodplain restoration and natural resource recovery.
- Established the **Oregon Agricultural Heritage Program** (2018), which includes a requirement for "enhanced fish or wildlife habitat, water quality, and other natural resources on Oregon's working land."
- Created the **Stakeholder Engagement Grant Program** to support the communication and engagement needed in the early stages of project development.

#### **Oregon Water Resources Department (OWRD)**

OWRD's mission is "to serve the public by practicing and promoting responsible water management through two key goals; one, to directly address Oregon's water supply needs, and two, to restore and protect streamflows and watersheds in order to ensure the long-term sustainability of Oregon's ecosystems, economy, and quality of life." OWRD collects, analyzes, and provides water quantity data to other agencies and to water users. OWRD processes water rights transactions, distributes water under the water rights system of prior appropriation, and addresses unauthorized uses of water. OWRD also protects public safety through the well construction and dam safety programs. OWRD provides planning, technical assistance, and funding to address instream and out-of-stream water supply needs. OWRD is responsible for developing and updating the IWRS, in collaboration with other state agencies, tribes, stakeholders, and the public.

OWRD frequently collaborates with other state agencies, including DOGAMI, DLCD, ODA, ODEQ, ODF, ODFW, OHA, OPRD, and OWEB.

OWRD's ongoing work supports *IWRS recommended actions 1.A, 1.B, 1.C, 2.A, 2.B, 5.A, 5.B, 5.5A, 5.5B, 7.A, 7.C, 8.C, 8.D, 9.A, 9.B, 9.C, 10.A, 10.B, 10.E, 10.F, 10.G, 11.B, 11.E, 13.A, 13.B, 13.C, 13.D, and 13.E.*



**OWRD 2017-2022 IWRS Accomplishments:**

- **Modernized the dam safety program**, raised awareness of dam safety risks, and received increased funding to evaluate high-hazard dams to better protect water supplies, people, and property.
- Modernized **well construction statutes** to better protect groundwater supplies, and established the **Water Well Abandonment, Repair, and Replacement Fund (WARRF)** to provide financial assistance to homeowners to repair, replace, or abandon wells.
- Advanced **understanding of groundwater conditions** including the completion of the **Harney Basin Groundwater Study**, initiated the Walla Walla Basin Groundwater Study, and began efforts to develop groundwater budgets for major hydrologic basins.

## Future Support for the IWRS

Continued funding for agency programs and activities is critical to ensuring the ongoing implementation of the IWRS. Oregon agencies have submitted Policy Option Packages (POP's) for the 2023-25 budget to support continuing work regarding the IWRS. **Table 3** summarizes the POP's that were included in the Agency Requested Budgets submitted earlier this year. Governor-Elect Kotek will finalize the Governor's Recommended Budget in early 2023 which may contain some of these requested resources.

**Table 3. Agency Policy Option Packages (POP's) submitted in their Agency Requested Budgets for the 2023-25 Biennium**

IWRS Topic Areas	Agency	POP#	Title	Primary* IWRS	
				Action	Add'l IWRS Actions
Water Resource Data, Monitoring, Investigations 1.A-1.C	DOGAMI	102	Oregon Mapping Program: Water Resources and Mineral Resource Potential	1.A	1.B, 1.C
	ODEQ	120	Improve Water Quality Assessments	1.B	6.A, 10.G, 12.B, 12.C
		160	Water Data Framework	1.C	6.A, 6.B
		170	Sustain DEQ Environmental Laboratory Infrastructure & Equipment	1.B	1.C, 10.G, 12.C
	ODFW	105	Private Forest Accord Data Collection	1.B	1.C, 3.A, 3.B, 6.A
		109	Klamath Salmon Restoration Monitoring	1.B	1.C, 3.A
		110	Statewide Stream Temperature Monitoring	1.B	3.A, 6.A, 6.B
	OWRD	111	Water Use, Supply, and Availability Data	1.B	5.B, 9.C, 13.B
		118	Understanding the Lake Abert Watershed	1.B	5.B
		120	Improving Data Accuracy and Availability	1.C	6.B
Out-of-Stream Demands, 2.A-2.E					
Instream Demands 3.A-3.B	ODFW	124	Salmonid Forecasting and Habitat Models	3.A	1.B, 1.C, 5.A, 6.A, 11.D
		125	Rogue-South Coast Steelhead Monitoring	3.A	1.B, 1.C, 6.A, 11.D
	OWRD	119	Studying Springs in Deschutes Basin	3.A	3.B, 5.B
Water & Energy 4.A-4.C					
Climate Change 5.A-5.B	DLCD	212	Climate Adaptation Coordinator	5.B	5.A
	ODFW	114	Climate Change Policy Implementation	5.B	5.A
	OWRD	109	Adapting to Climate Change & Drought	5.B	5.A, 5.5A, 8.C, 10.A, 10.B, 11.D, 13.C
	OWEB	110	Program Continuity	5.B	11.A-11.E
Extreme Events 5.5A-5.5C	DLCD	209	Floodplain & Recovery Planner	5.5B	6.A
	OWEB	150	Emergency Response Programs, continues funding for staff	5.5A	5.B
		250	Emergency Response Programs, including post-fire restoration and drought relief and resiliency	5.5A	5.B, 10.A
Water & Land Use 6.A-6.C					
Water-Related Infrastructure 7.A-7.C	ODFW	134	Jubilee Lake Dam Repair	7.A	7.C, 13.E
	OWRD	117	Assess and Inventory Levees	7.A	7.C
Education & Outreach 8.A-8.D					

IWRS Topic Areas	Agency	POP#	Title	Primary* IWRS	
				Action	Add'l IWRS Actions
<b>Place-Based Efforts 9.A-9.C</b>	<b>ODEQ</b>	125	Support Local and Integrated Water Planning	9.A	7.B, 9.B, 9.C, 13.C
	<b>ODFW</b>	107	Integrated Water Resource Solutions (1 of 3 positions)	9.A	9.B, 10.G, 11.D
		110	Centering Equity in Agency Programs & Policy	9.A	8.B, 8.C
	<b>OWRD</b>	112	Supporting Tribal Water Solutions & Relations	9.C	9.A, 13.C
		115	Supporting Resolution of Complex Issues	9.C	5.B, 9.A
<b>Water Management 10.A-10.G</b>		121	Improve Wastewater Permitting Efficacy	10.G	12.B
	<b>ODEQ</b>	122	Improve Stormwater Permitting Efficacy	10.G	6.C, 12.C
		123	Ensure Protective Onsite Septic Systems	10.G	12.A, 12.B
	<b>ODA</b>	370	Pesticide Enforcement Capacity	10.G	10.F, 12.B
	<b>ODFW</b>	107	Integrated Water Resource Solutions (1 of 3 positions)	10.G	9.A, 9.B, 11.D
	<b>OWRD</b>	114	Watermaster Staff: Improving Water Management	10.F	5.5B, 5.5C, 7.A, 7.C
		116	Increase Engagement Through Communications	10.F	5.5A, 10.G
<b>Healthy Ecosystems 11.A-11.E</b>	<b>DLCD</b>	206	Habitat Projects Coordinator	11.D	11.A
	<b>ODEQ</b>	124	Supporting Watershed Restoration Efforts	11.D	10.D, 11.A
	<b>ODF</b>	106	Private Forest Accord Development, funding to support Small Forestland Owner Investment in Stream Habitat Program (SFISH)	11.D	11.A
		101	Fish Passage Position	11.D	10.F, 10.G
		103	OR Conservation Strategy Implementation	11.D	11.A
	<b>ODFW</b>	107	Integrated Water Resource Solutions (1 of 3 positions)	11.D	9.A, 9.B, 10.G
		118	Non-Native Fish Management	11.C	10.D, 11.C
		130	Fish Passage Restoration - Culverts	11.D	
	<b>ODA</b>	310	Japanese Beetle Eradication	11.C	11.A
		330	Noxious Weed Grants	11.C	11.A
		385	Aquatic Noxious Weeds Specialist	11.C	11.A
	<b>OWEB</b>	145	Water Acquisitions Continuation, convert limited duration position to permanent to support Water Acquisitions Program	11.B	3.A
		245	Water Acquisitions Continuation	11.B	3.A
	160	Extend funding for position to support tide gate work	11.D	13.E	
<b>Public Health 12.A-12.C</b>		126	Protect Drinking Water Sources	12.A	12.B
	<b>ODEQ</b>	127	Groundwater Quality Act Evaluation	12.A	3.B
		128	Domestic Well Testing Data Collection	12.A	8.D
	<b>ODA</b>	320	Agricultural Water Quality Capacity	12.C	1.B, 11.A, 11.D, 11.E
		340	Pesticide Safety Capacity	12.B	1.B
	<b>OHA</b>		Domestic Well Safety Program Restoration and Lower Umatilla Basin Domestic Well Intervention	12.A	8.D, 12.B
<b>Funding 13.A-13.E</b>	<b>BizOR</b>	102	Special Public Works Fund (SPWF) Recapitalization	13.E	12.B
		107	Special Public Works Fund (SPWF) Recapitalization	13.E	12.B
	<b>ODEQ</b>	129	DEQ Capacity to effectively Administer Grants & Contracts	13.E	13.B
	<b>ODFW</b>	112	Oregon Conservation and Recreation Fund	13.E	11.A, 11.D
		101	Facilitate Interagency Work & Implement IWRS	13.A	6.B, 9.B, 9.C
		102	Addressing Agency-Wide Foundational Support Gaps	13.B	10.D, 10.F, 10.G
	<b>OWRD</b>	103	ODFW Review and Scenic Waterway Revenue Gap	13.B	10.G
		106	Water Planning Funding, Support, and Data	13.C	5.B, 9.A, 9.B
		107	Feasibility Studies, Water Projects, & Wells	13.E	5.B, 10.E, 13.D
	108	Water Rights and Protest Backlog Reduction	13.B	10.G	

## Summary

The 2017-2022 IWRS Progress Report provides a concise summary of how Oregon’s agencies work together to manage our state’s water resources. This information provides a valuable foundation for continued coordination and identifies areas where more work needs to be done.

Agencies have been successful in expanding their capacity to implement the significant water investments from the 2021 Legislative session. Agencies are providing support for drought and fire-impacted Oregonians and awarding funds for updating water infrastructure, while communities have come together to discuss their water challenges.

Although many agencies have significant responsibilities regarding water management or infrastructure, available funding and dedicated staffing has not always supported these responsibilities. Additionally, there are inconsistent resources available to support IWRS collaboration across agencies. Oregon’s progress towards a secure water future would benefit from a sustained source of funding and dedicated staffing to support IWRS implementation. 2023-25 Agency funding requests to support water-related work are well distributed across the IWRS recommend actions. Data, Monitoring, Investigations, Climate Change, Water Management, Healthy Ecosystems, Public Health and Funding all received significant attention from state agencies for their 2023-25 Agency Requested Budget. The continued support of 2021 Legislative session water investments will be critical to making progress towards our water security challenges.

Over the next year, OWRD will be leading the effort to update the IWRS. Agencies, tribes, stakeholders, and the public will all have an opportunity to contribute to the next IWRS.



*Weather station in Harney County, Credit: OWRD*

