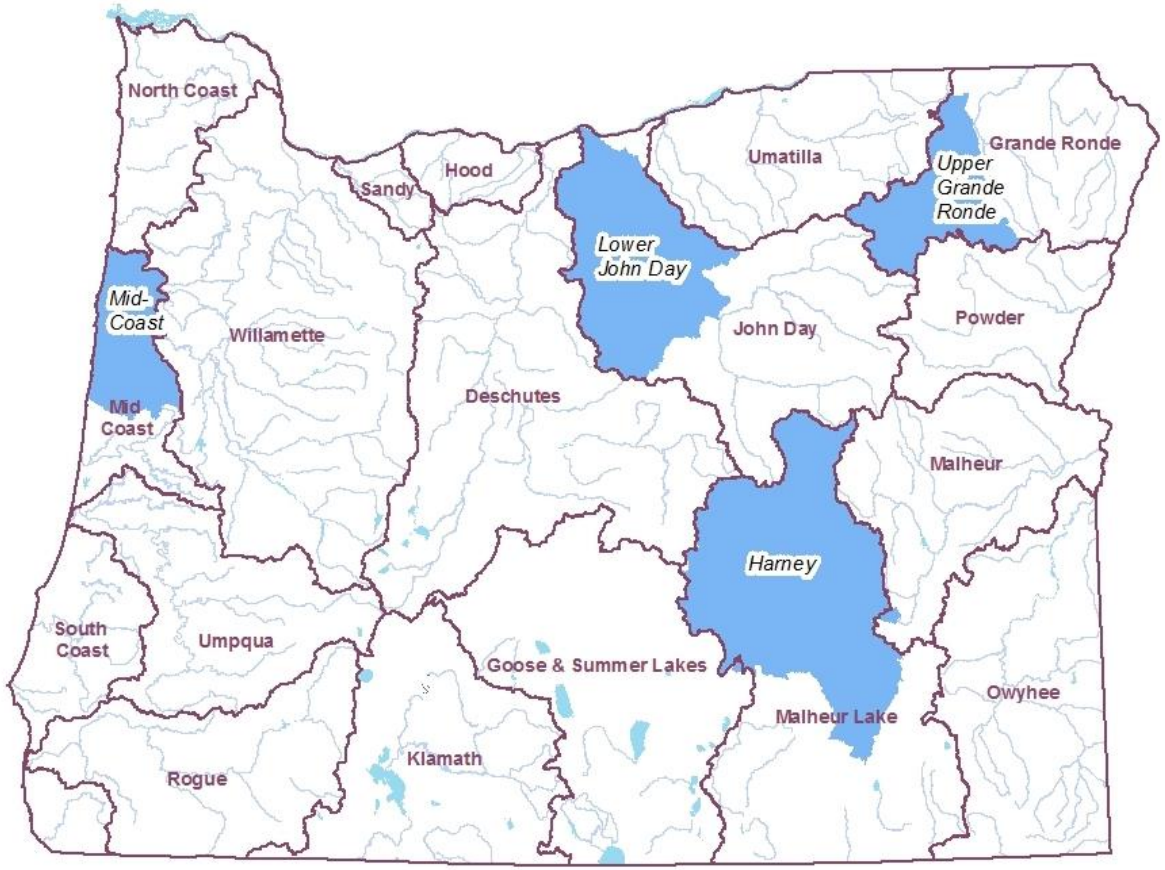
Oregon's Pilot Place-Based Integrated Water Planning Program: An Overview

Rebecca McLain with insights from Sadie Boyers

April 5, 2022

Prepared for the Regional Water Planning Work Group



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Pilot Place-Based Planning Areas and Planning Groups

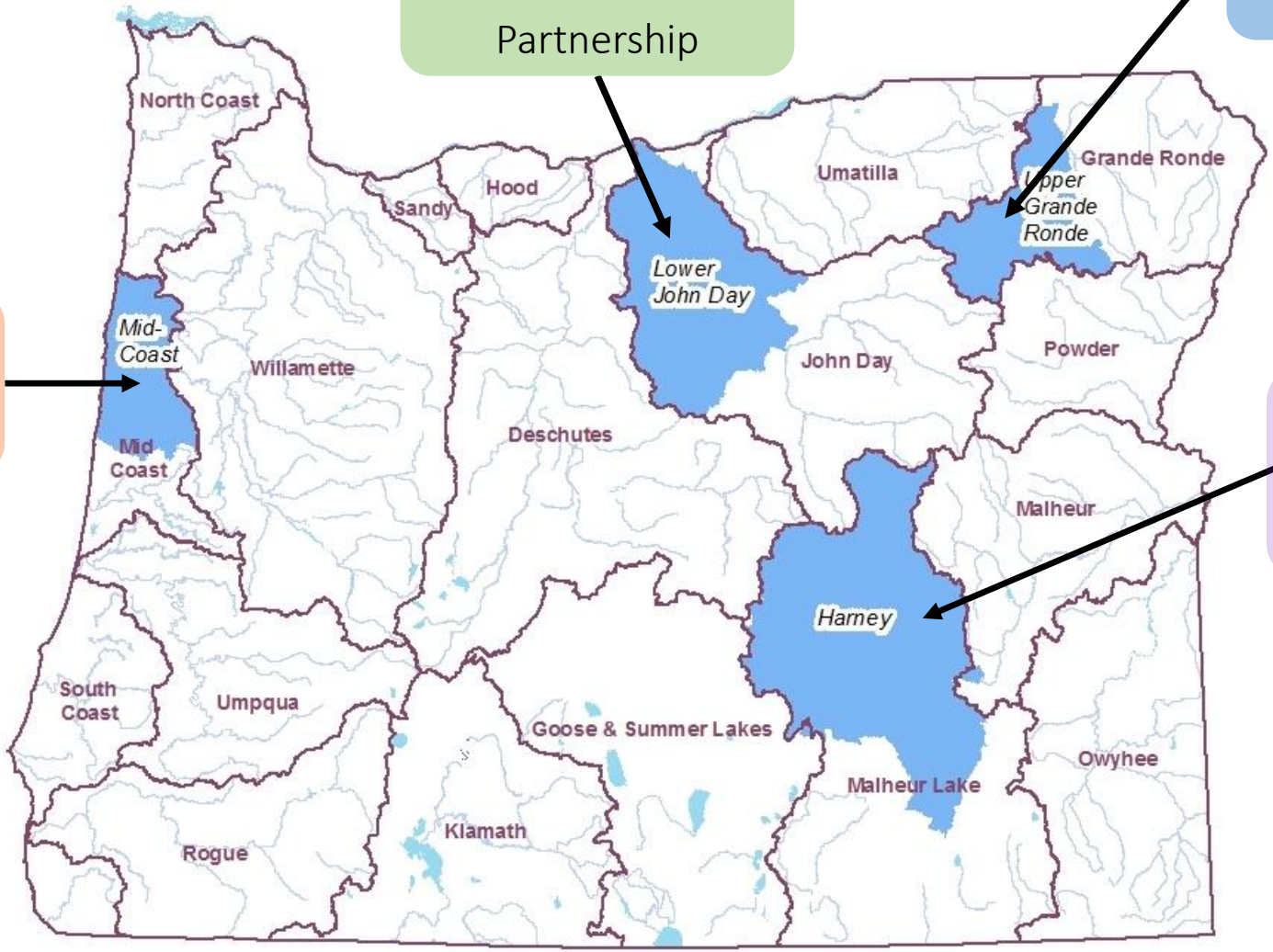

Lower John Day area. Photo from OWRD.

Lower John Day Place-Based Partnership

Upper Grande Ronde River Watershed Partnership

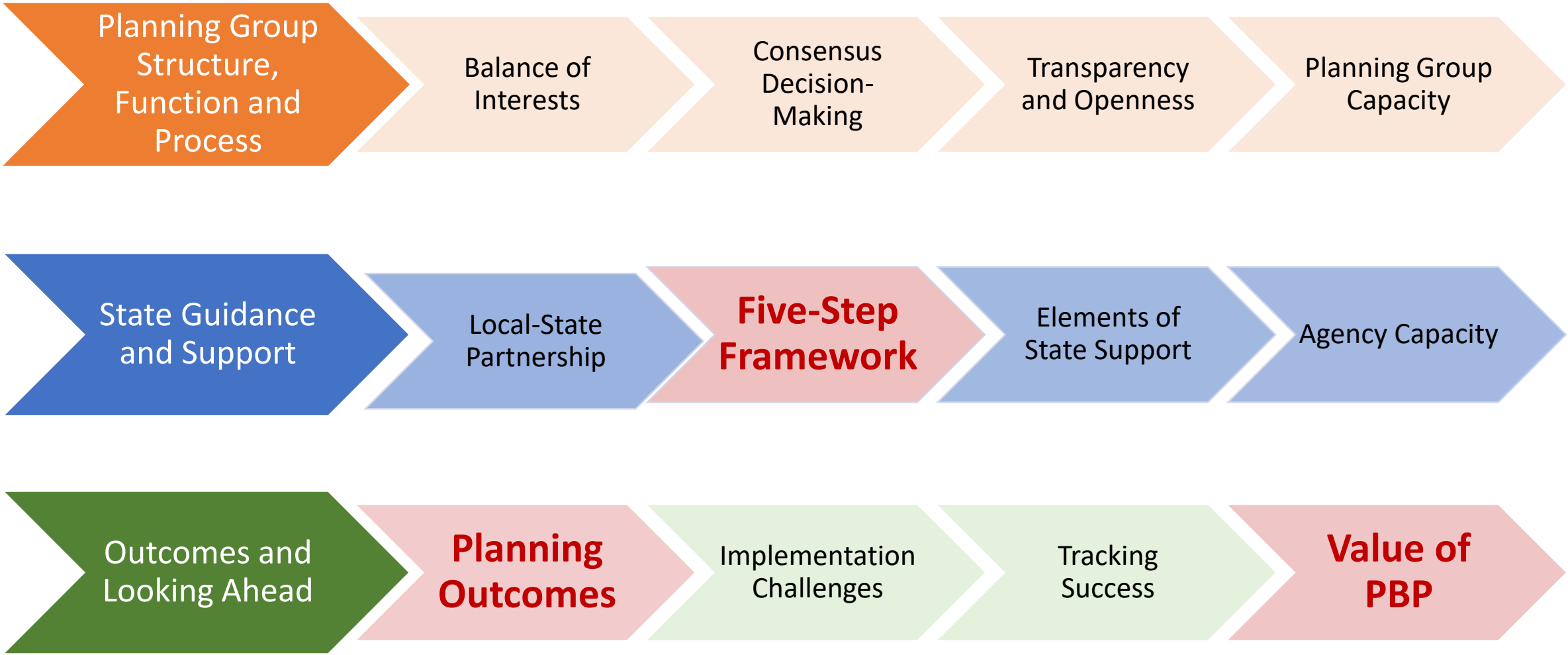
Mid-Coast Water Planning Partnership

Harney County Community-Based Water Planning Collaborative

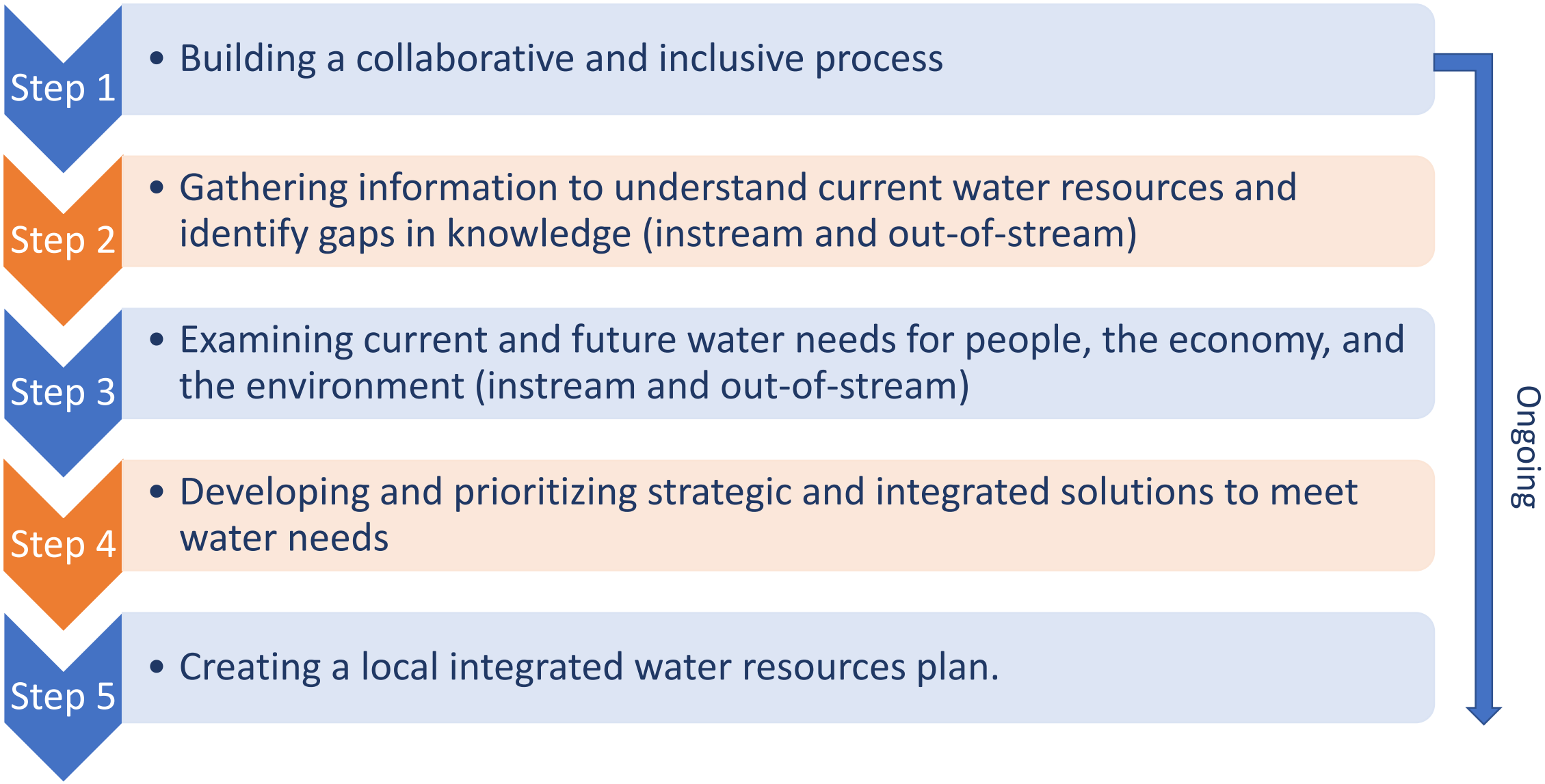



Mid-Coast area. Photo from OWRD.

Evaluation Topics



The Five-Step Framework: The Core of the Pilot Place-Based Planning Program



Challenges Associated With The Five-Step Framework

Vague guidelines and guidelines for some steps not available early on

High levels of distrust of state agencies in some areas

Balancing multiple water interests is hard

Consensus decision making is challenging and can be time-consuming

Key data unavailable, hard to find, or challenging to analyze and interpret

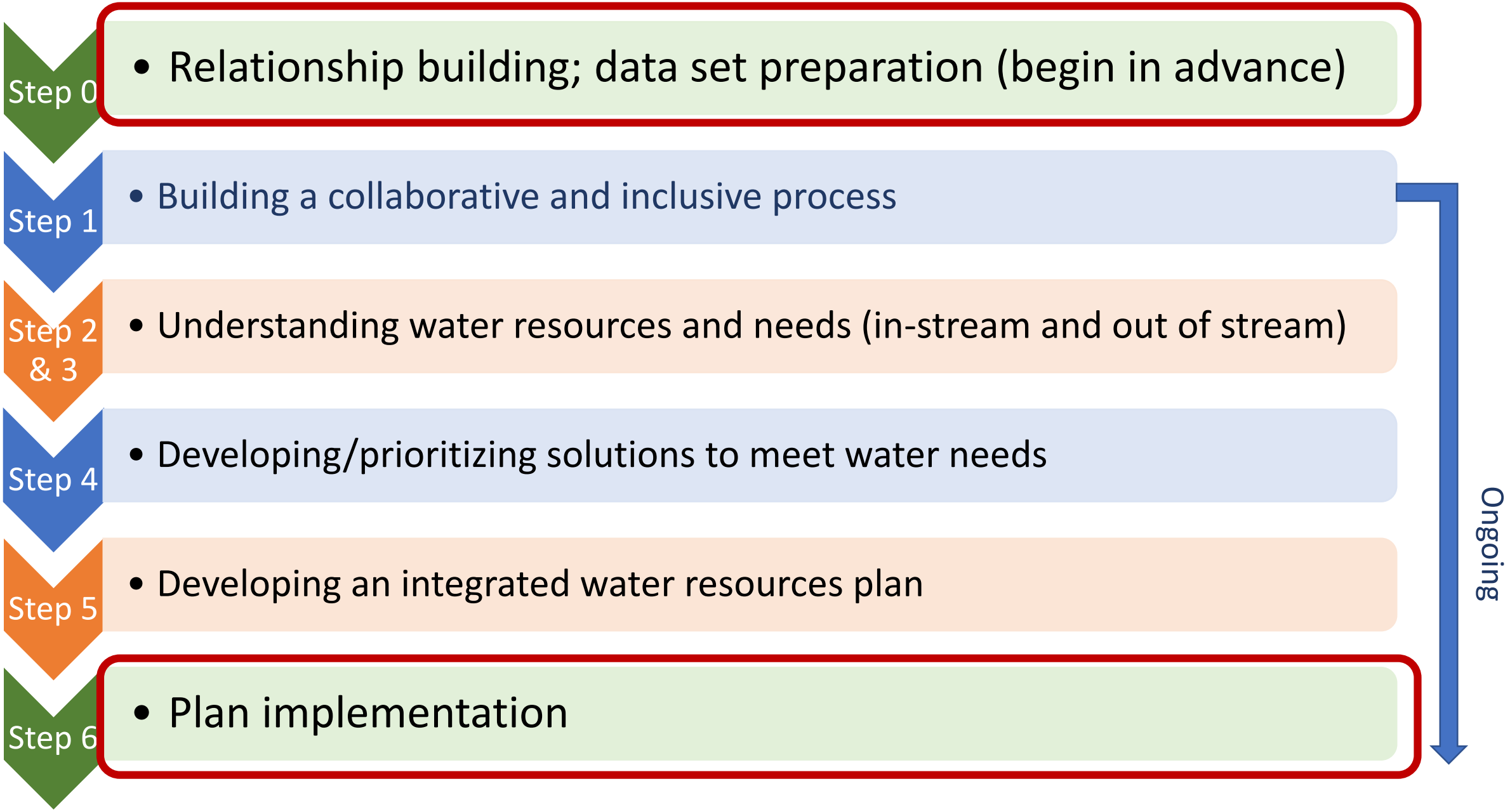
Skepticism within some groups about data provided by state agencies

Difficulties prioritizing solutions

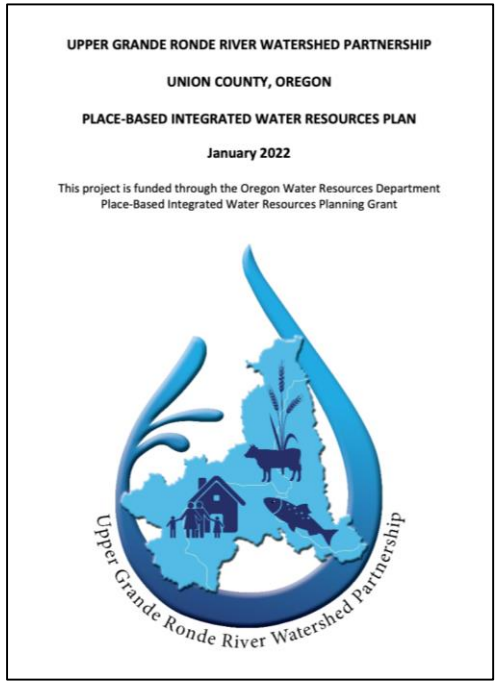
Lack of clarity about state expectations

Need for implementation guidance

Proposed Revisions to the Step Framework



Outcomes of Place-Based Planning

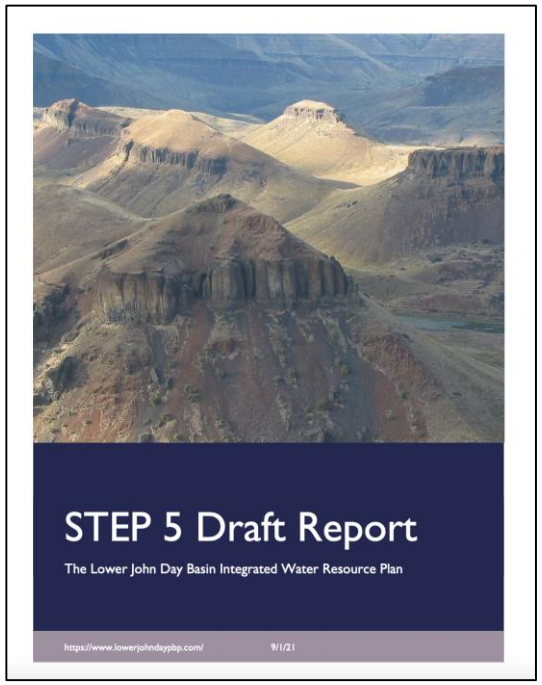


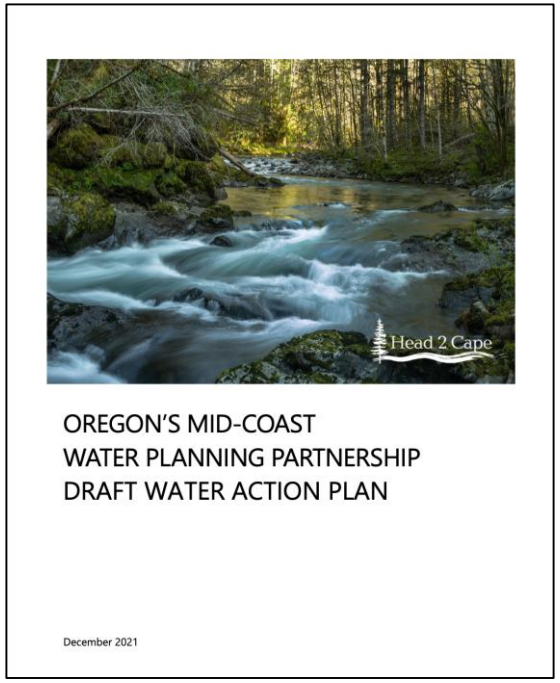
Developed pathways forward to achieve water resources goals

Leveraged funding for implementation of action plans

Brought together diverse water interests that previously had not worked together

Gained local support and buy-in for implementation



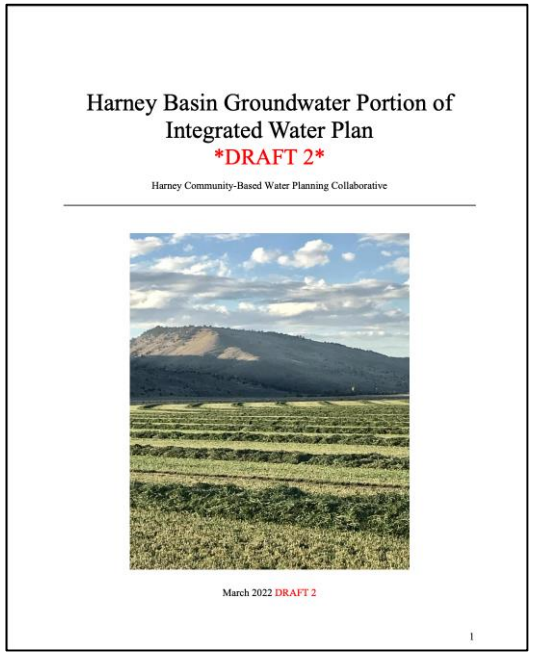


Identified data gaps that need to be filled

Collected data to fill some key data gaps

Created a broad network of individuals and groups knowledgeable and active in water planning

Improved agency understandings of local needs and local understanding of agency constraints



Was Oregon's Pilot Place-Based Planning A Good Approach to Water Planning?

Enthusiasts

"**Place-based planning is a great start.** This is the first step to making a collaborative, cooperative community approach to a pretty serious issue. Everyone has different opinions and viewpoints. Not everyone will agree. The first part is getting to the table. **It's a great first step in the right direction.**"

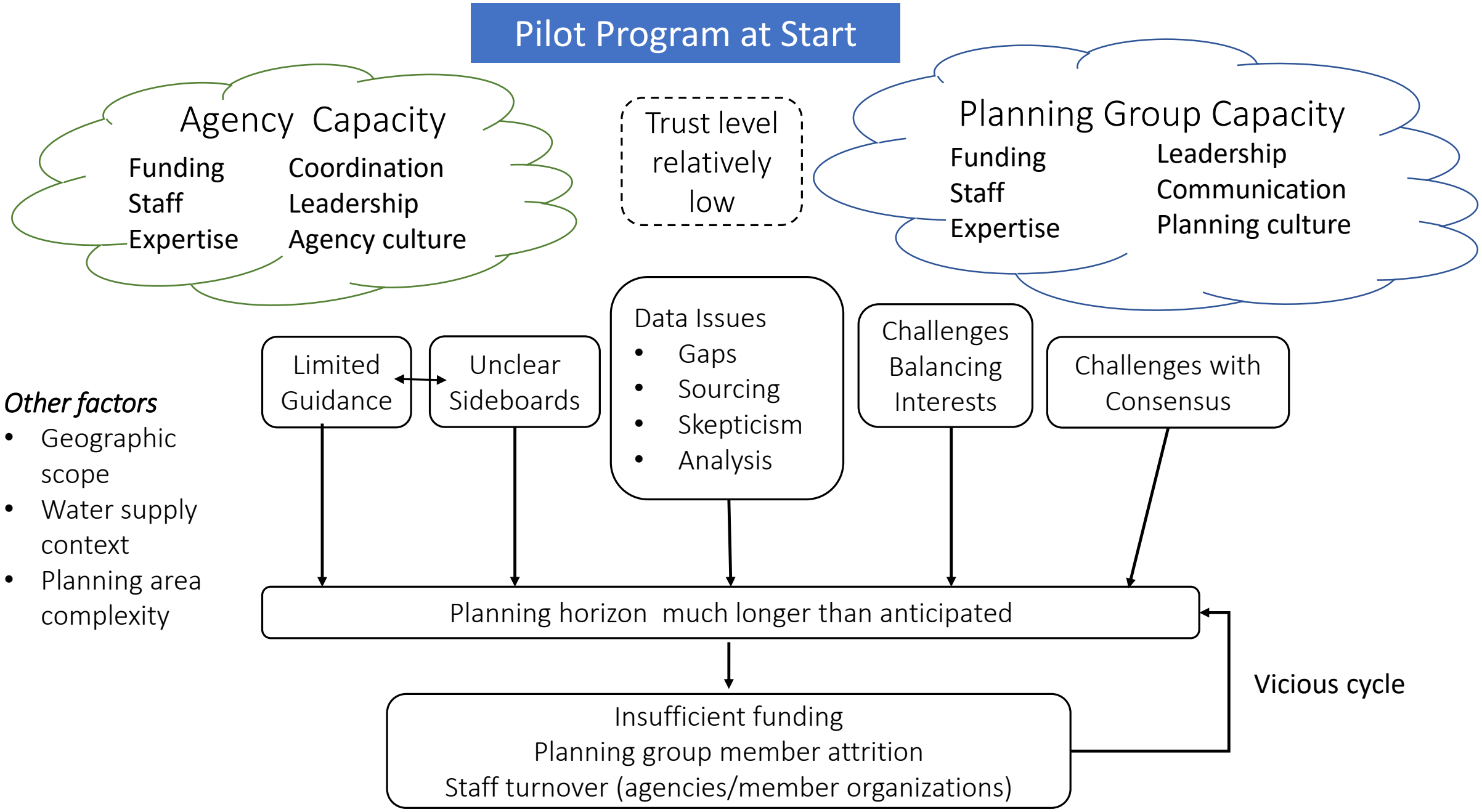
Qualified Success

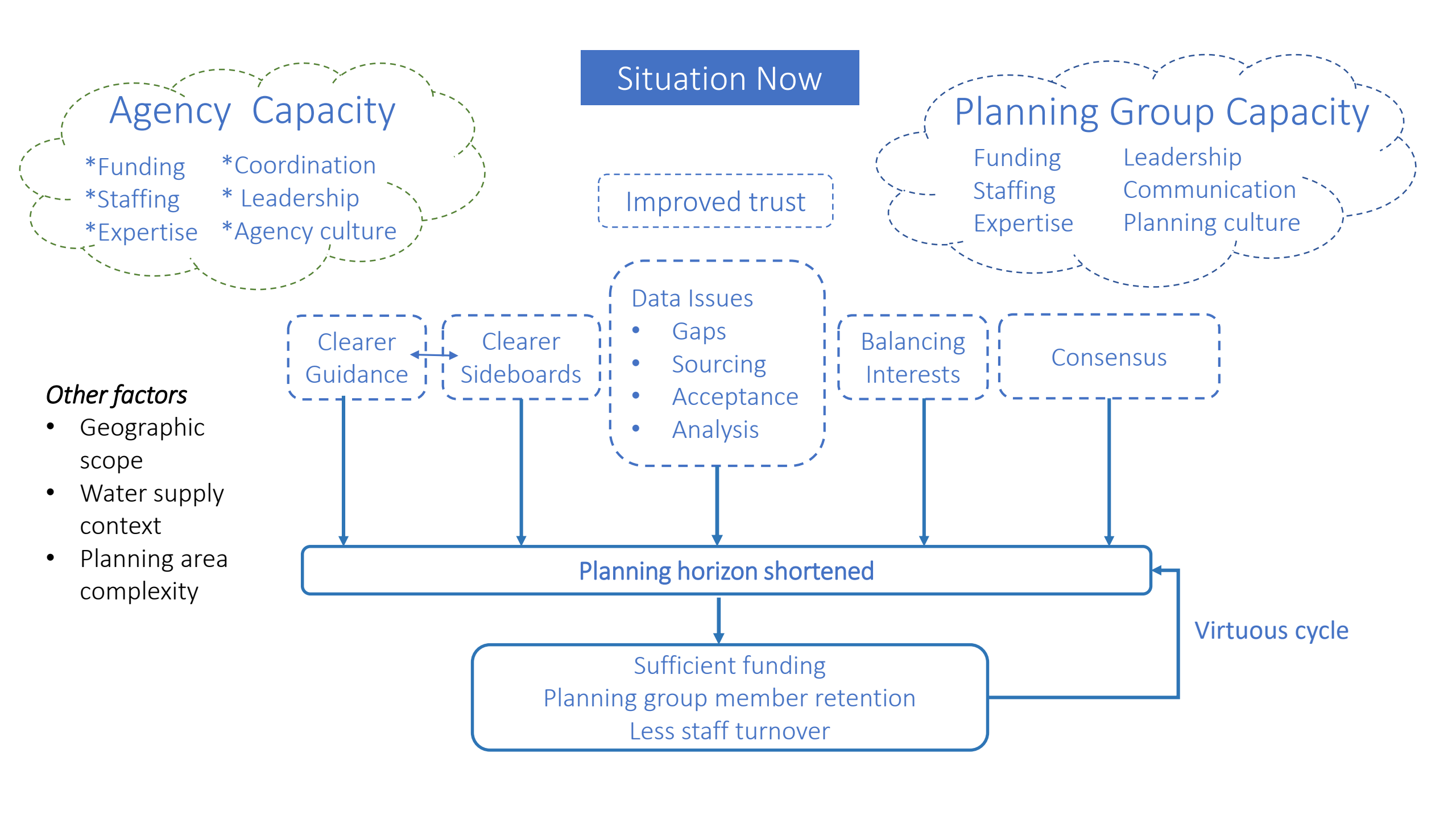
"DEQ concluded that **place-based planning is an effective approach or "tool"** to implement the Integrated Water Resources Strategy. However, the State and planning partnerships must **recognize early on the potential complexity and scale-dependency** of the approach."

Skeptics

"Place-based planning **can help address some of the shortages** in instream and out-of-stream use. But this work **won't have much impact on them due to regulatory processes needing reform**."

Spectrum of Perspectives on the Value of Place-Based Planning


Pilot Program at Start
Agency Capacity
Funding
Staff
Expertise
Coordination
Leadership
Agency culture
Trust level relatively low
Planning Group Capacity
Funding
Staff
Expertise
Leadership
Communication
Planning culture
Other factors
Geographic scope
Water supply context
Planning area complexity
Limited Guidance
Unclear Sideboards
Data Issues
Gaps
Sourcing
Skepticism
Analysis
Challenges Balancing Interests
Challenges with Consensus
Planning horizon much longer than anticipated
Insufficient funding
Planning group member attrition
Staff turnover (agencies/member organizations)
Vicious cycle


Situation Now
Agency Capacity
*Funding
*Staffing
*Expertise
*Coordination
* Leadership
*Agency culture
Planning Group Capacity
Funding
Staffing
Expertise
Leadership
Communication
Planning culture
Improved trust
Clearer Guidance
Clearer Sideboards
Data Issues
Gaps
Sourcing
Acceptance
Analysis
Balancing Interests
Consensus
Other factors
Geographic scope
Water supply context
Planning area complexity
Planning horizon shortened
Sufficient funding
Planning group member retention
Less staff turnover
Virtuous cycle

Final Take-Away

Mid-Coast Planning Meeting. Photo from OWRD.

Integrated water planning is important, but it is complex and hard to do.

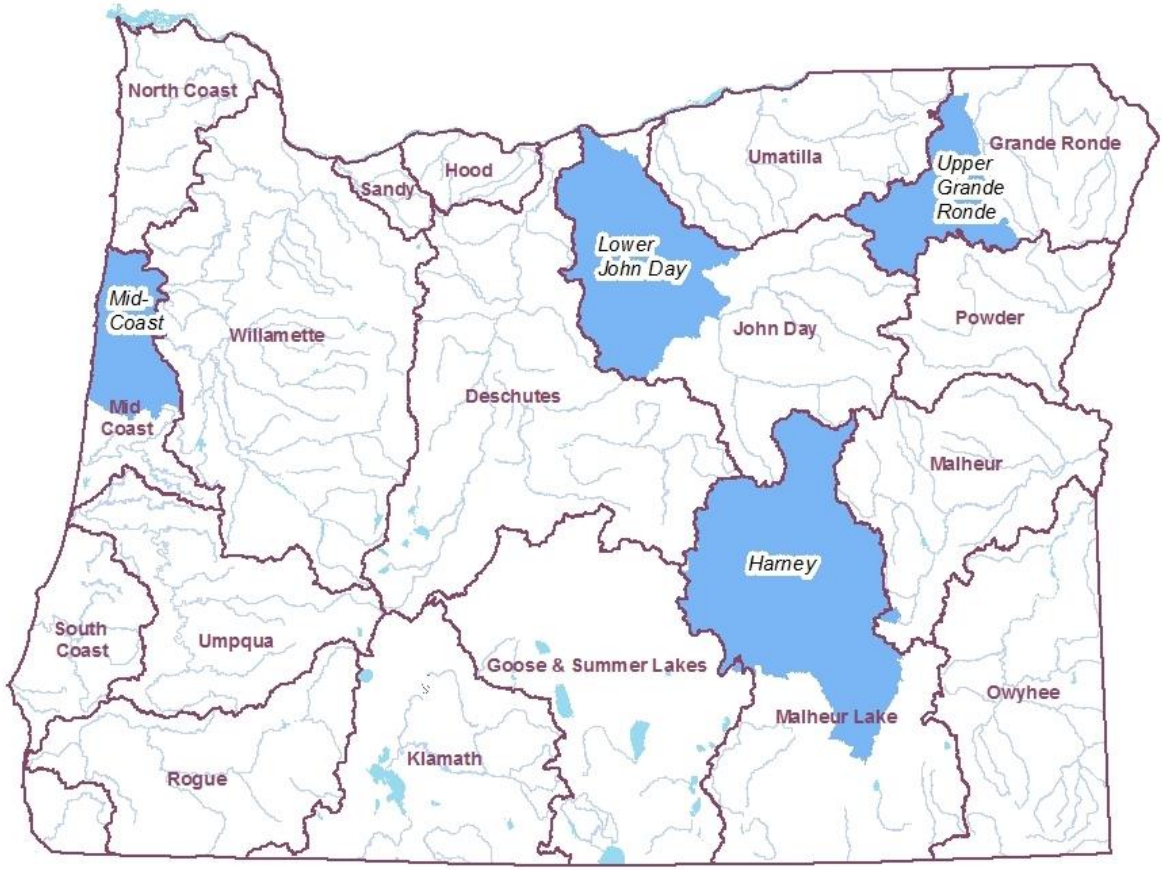
- Place-based planning is one alternative to the top-down model.
- Planning groups and agencies have learned a lot about what works well and what doesn't work well.
- Many of the weaknesses are either already being addressed or can be addressed in future.

Key take-away:

State agencies and communities need a longer time horizon to prepare for this type of program. The time to prepare for the next phase of place-based planning is now.

Thank you!

Acknowledgements: We thank the place-based planning program staff at OWRD for making the participatory evaluation program possible. We also extend our thanks and appreciation to the planning group members and state agency staff who gave so generously of their time, and for sharing their insights on what worked well and what didn't work well, and their advice for future planning efforts.



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MID-COAST WATER PLANNING PARTNERSHIP

ADAM DENLINGER
GENERAL MANAGER, SEAL ROCK WATER DISTRICT
CONVENER, MID-COAST WATER PLANNING PARTNERSHIP

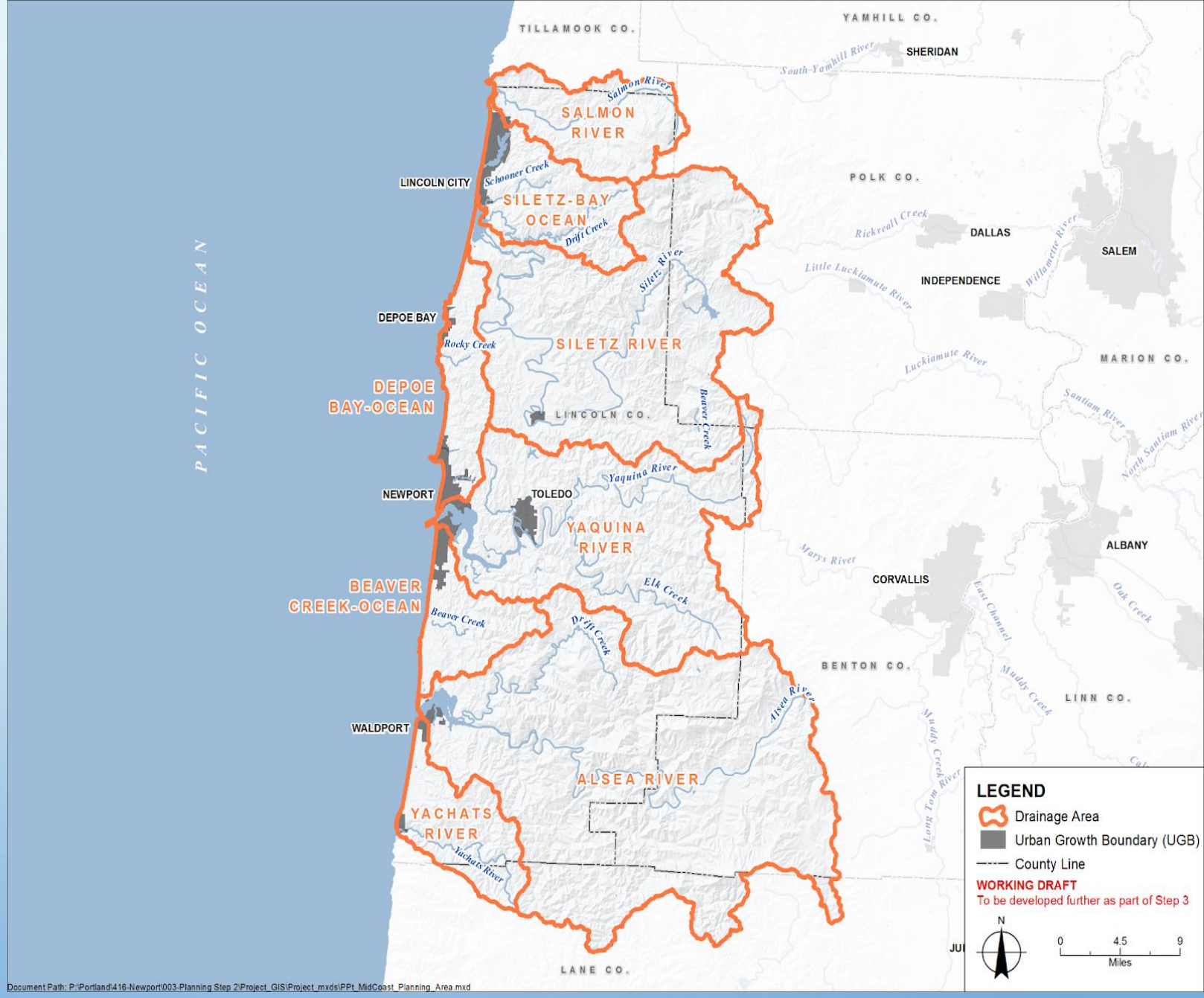
ALEXANDRIA SCOTT
PLANNING COORDINATOR, MID-COAST WATER PLANNING PARTNERSHIP

OUR BASIN

- The Lincoln County administrative boundary comprised the original geographic scope of this initiative in 2016 when the Partnership was first formed. Since then, the geographic scope was refined to include the following two USGS cataloging units: 17100204 – Siletz-Yaquina subbasin (Salmon River, Siletz Bay-Ocean Tributaries, Siletz River, Depoe Bay-Ocean Tributaries, and Yaquina River) and 17100205 – Alsea subbasin (Beaver Creek-Ocean Tributaries, Alsea River, and Yachats River).

- The Coast Range averages 1,500 feet in elevation. Steep slopes and high rainfall increase the potential for soil erosion. The region has been uplifted by tectonic plates converging. The geology does not support large quantities of groundwater. Aquifers have low water yields and poor water storage capacity.

- The region has one of the wettest and mildest climates in Oregon. High precipitation (>97 inches) occurs in the NE portions of the Siletz and Alsea watersheds. Most precipitation is rain that falls between November and March. Dry conditions, including drought, occur during the summer. Weather is influenced by ocean currents and atmospheric conditions.



WHO IS INVOLVED IN THE PARTNERSHIP?

- **CURRENT CONVENER:** SEAL ROCK WATER DISTRICT (SRWD)
- **250 STAKEHOLDERS** ON OUR MASTER LIST
- **84 PARTNERS** HAVE SIGNED OUR CHARTER, **37** ACTIVELY PARTICIPATING
- **17 LOCAL PARTNERSHIP MEETINGS** WITH AN AVERAGE ATTENDANCE OF 40+ PEOPLE
- **4 FIELD TOURS** AVERAGING 35-40 ATTENDEES
- **FUNDING PARTNERS**: SRWD**,** OWRD, MEYER MEMORIAL TRUST, OREGON COMMUNITY FOUNDATION, COLLINS FOUNDATION, CITIES (NEWPORT, LINCOLN CITY, YACHATS), CONFEDERATED TRIBES OF SILETZ INDIANS, LINCOLN COUNTY FARM BUREAU, GIBSON FARMS, FORD FAMILY FOUNDATION, LINCOLN COUNTY AND **THOUSANDS OF CONTRIBUTED HOURS BY PUBLIC & PRIVATE PARTNERS & PARTICIPANTS**

Place-Based Integrated Water Resources Planning
Final Plan Recognition

Upper Grande Ronde River
Watershed Partnership
Union County, Oregon

Presentation to
Oregon Water Resources Commission
March 17, 2022

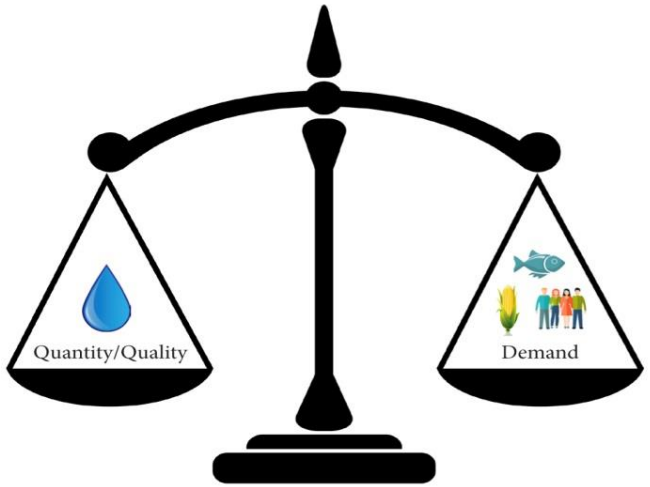
Thank you!

Grande Ronde PBP on Vimeo

- Thank you to all for this tremendous effort.
- Great working with individuals and agencies.
- We have a road map and are moving forward.
- We must wisely manage this precious, limited resource if we wish to meet the demands placed on it.
- Union County Farm Bureau introduction (Jed Hassinger)
- Confederated Tribes of the Umatilla Indian Reservation (CTUIR) introduction (Anton Chiono)

Overview

- Upper Grande Ronde River Watershed (UGRRW) Partnership
- UGRRW Geography
- Critical Issues
- Instream and Out-of-Stream Demands
- Strategies
- Lessons Learned and Next Steps

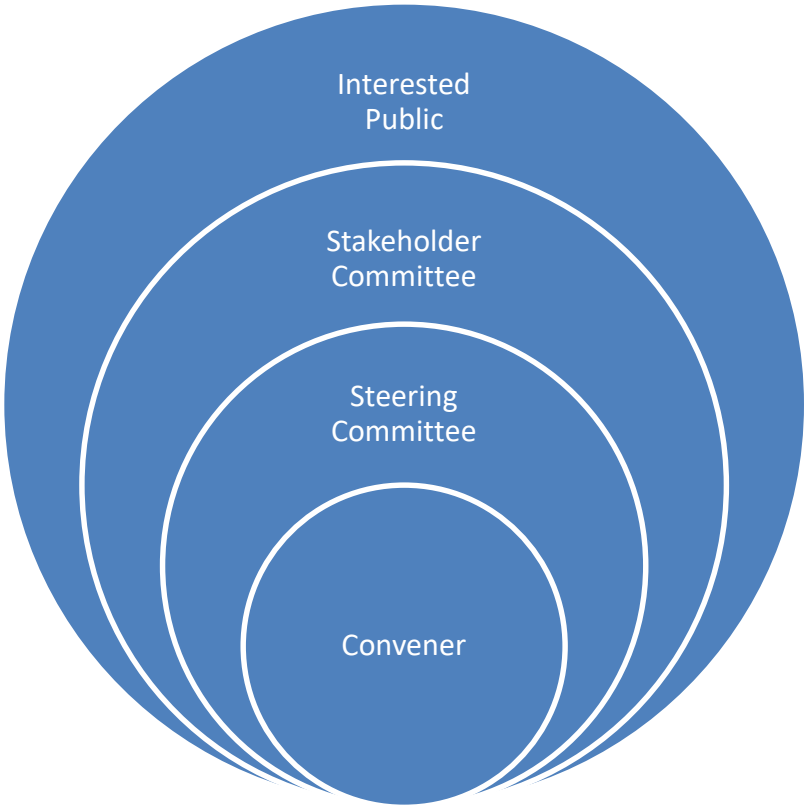


Our Partnership

Category from Planning Guidelines	Memorandum of Understanding (MOU) Signatories	Instream	Out-of-Stream	Government/ Other	Voted for Plan Adoption
Local governments and elected officials	Union County			X	X
Tribal governments	CTUIR	X		X	
Municipal water and wastewater utilities	City of La Grande, City of Imbler		X		X
Major industries or employers	Agriculture and government (major employers in Union County)				
Agriculture (see also private landowners below)	Union County Farm Bureau		X		X
Forestry	U.S. Forest Service (USFS)				Non-voting
Conservation/environmental groups	Grande Ronde Model Watershed (GRMW)	X			X
Power companies	Oregon Trail Electric Cooperative				
Private landowners (many of whom are also self-supplied water users and small business owners)	Eight individual landowners		X		X
Special districts	Union County Soil and Water Conservation District (SWCD)	X	X	X	X
State agencies	Oregon Department of Fish and Wildlife (ODFW)	X		X	X
	Oregon Water Resources Department (OWRD)	X	X	X	X
	Oregon Department of Agriculture		X	X	X
Federal agencies	USFS, Natural Resources Conservation Service (NRCS)			X	Non-voting

Our Structure

Must live or work in the watershed to be a voting member



Convener - Union County

Steering Committee - Administrative Team (ODFW, OWRD, Union County Farm Bureau, City of La Grande)

Stakeholder Committee - Local parties involved in planning who sign the MOU (voting)

Interested Public - Parties who are involved in the effort (non-voting)

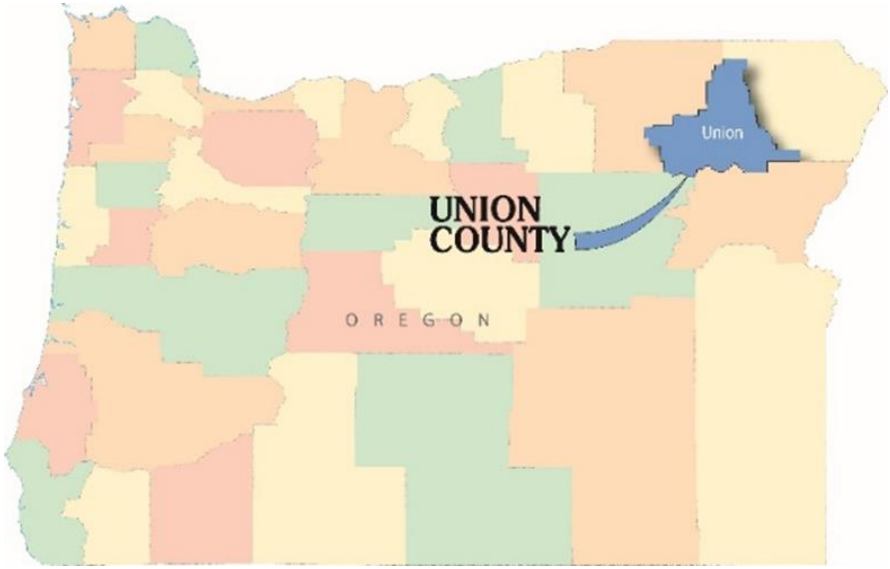
Ad Hoc Subcommittees - Voluntary technical groups/work groups composed of the above four groups

All decisions through consensus vote

Meetings and Outreach

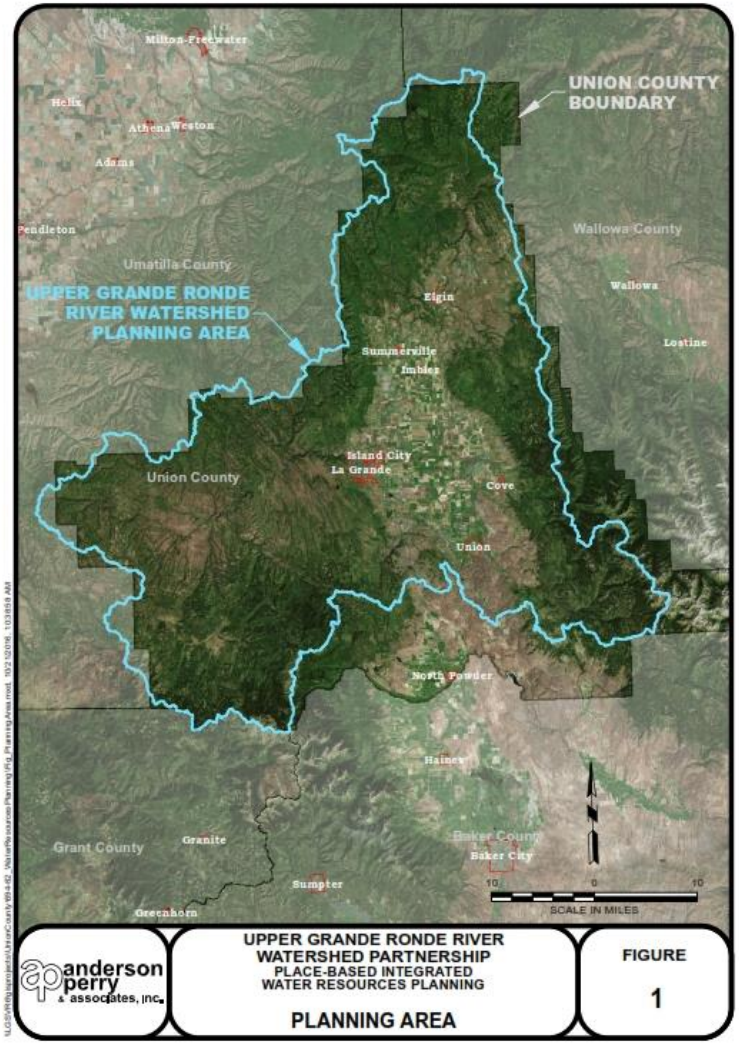
- Meeting for more than five years - advertised via newspaper, County website, email listserv, occasionally radio, newspaper articles, phone calls, and presentations
- Approximately one stakeholder meeting per month and working group meetings
- More than 100 meetings to date; more than 3,000 volunteer hours contributed
- Ford Family Foundation Learning Partnership (four meetings)
- Sustainable Northwest Summits (two meetings)

Planning Area

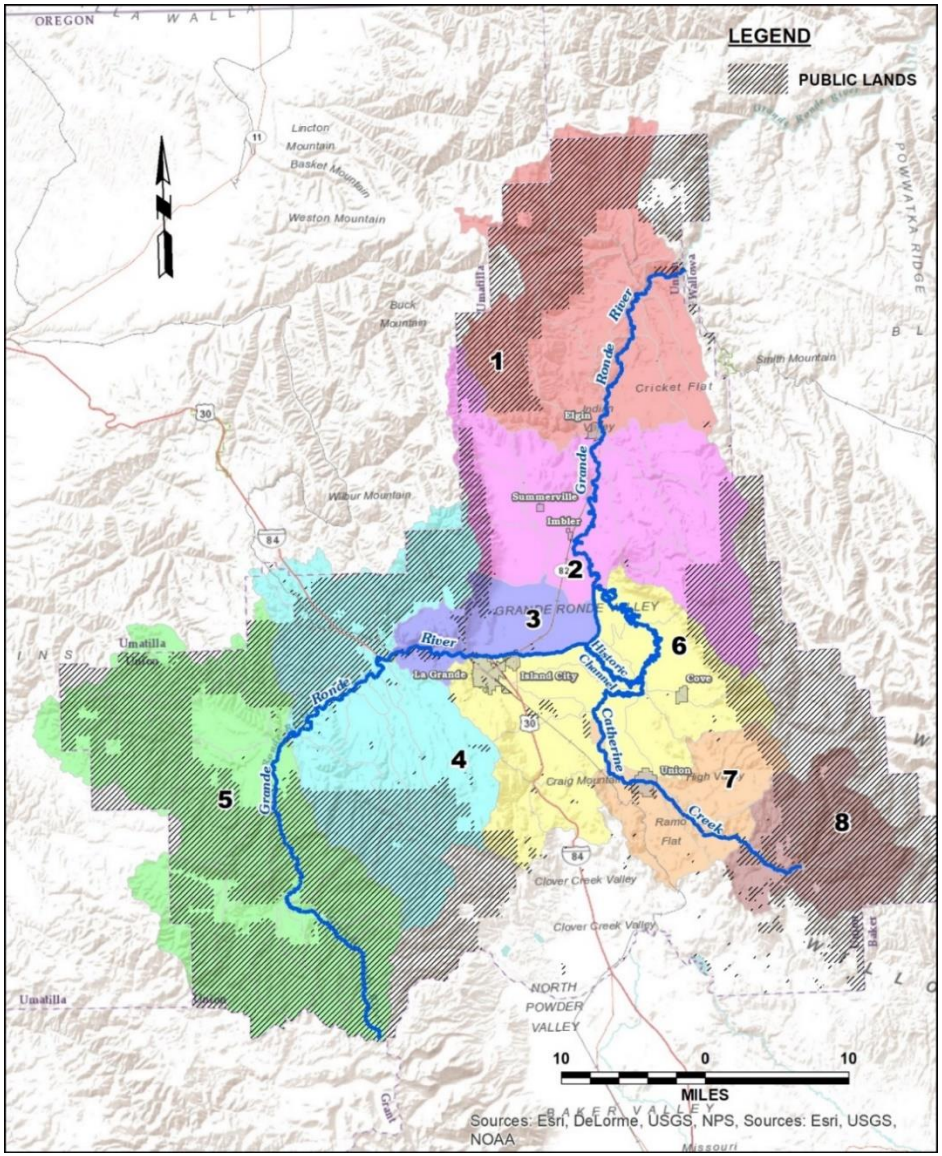


The geographic boundaries of Union County very closely align with the boundaries of the UGRRW.

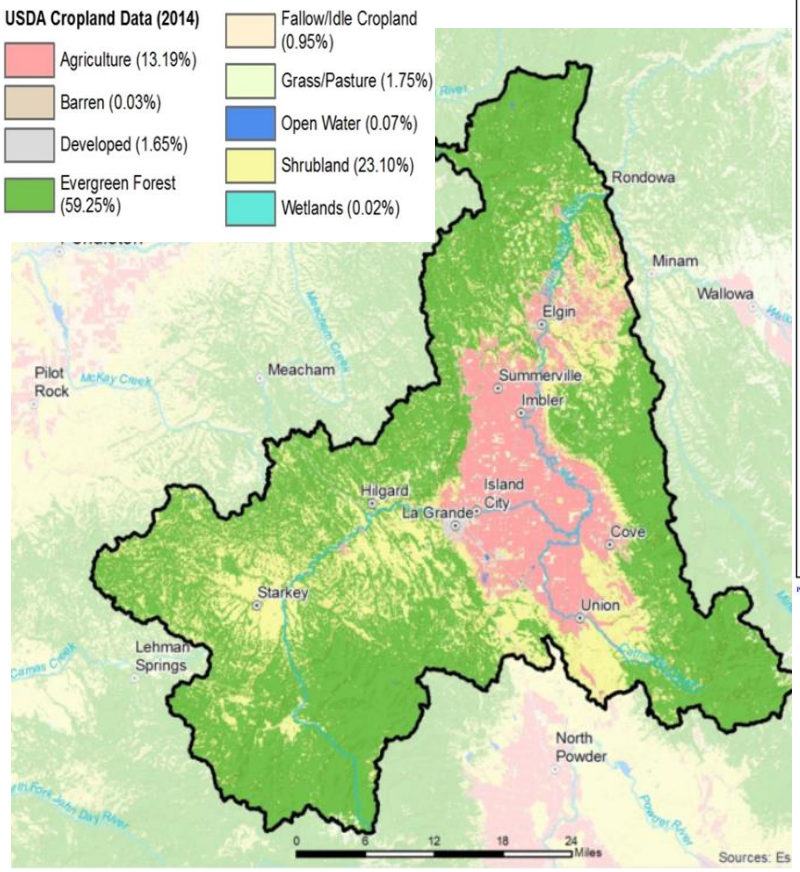
The UGRRW is a vital ecosystem that supports ranchers, farmers, urban residents, tribes, and fish and wildlife species.

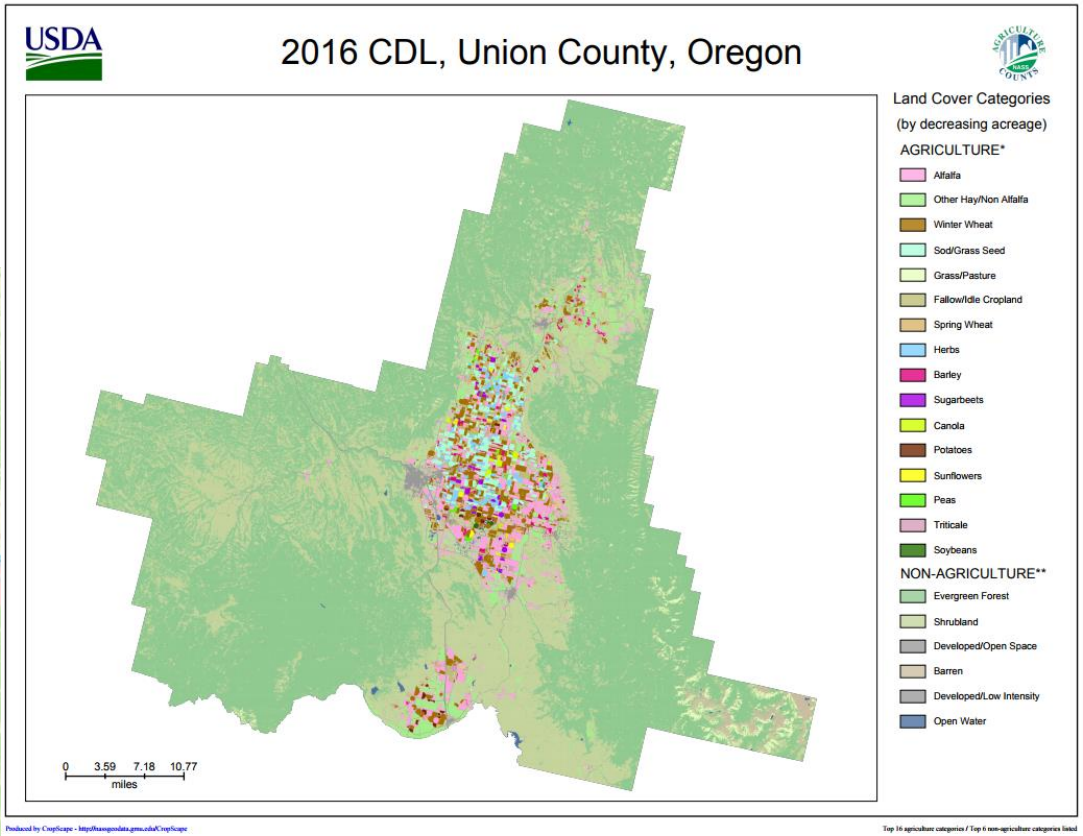


Ownership

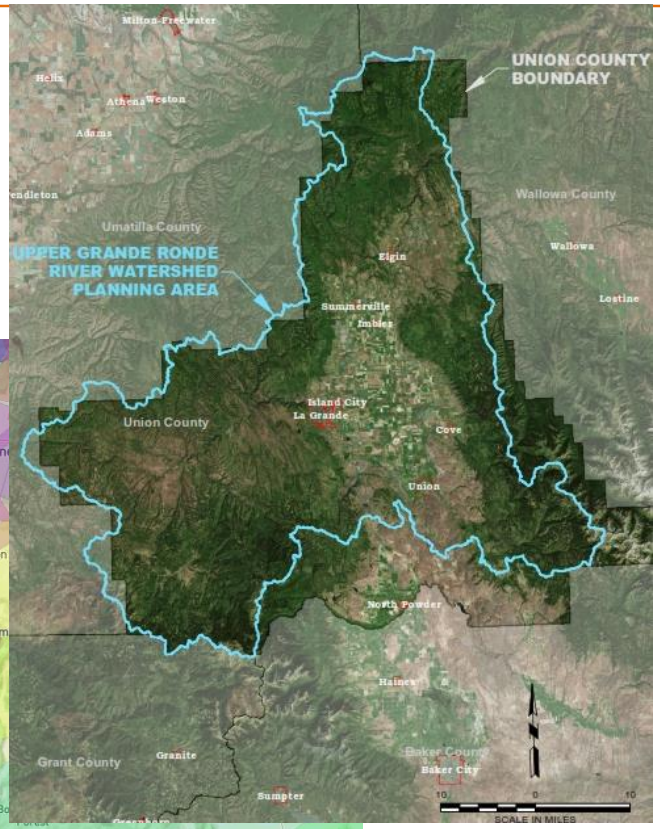

LEGEND
PUBLIC LANDS
OREGON
WALLA
Lincton Mountain
Basket Mountain
Weston Mountain
Buck Mountain
Wilbur Mountain
Umatilla
Union
Grande Ronde River
Cricket Flat
Elgin
Summerville
Imbler
GRANDE RONDE VALLEY
La Grande
Island City
Cove
Catherine Creek
Union
Craig Mountain
Ramo Flat
Clover Creek Valley
NORTH POWDER VALLEY
BAKER VALLEY
Missouri
1
2
3
4
5
6
7
8
10 0 10
MILES
Sources: Esri, DeLorme, USGS, NPS, Sources: Esri, USGS, NOAA

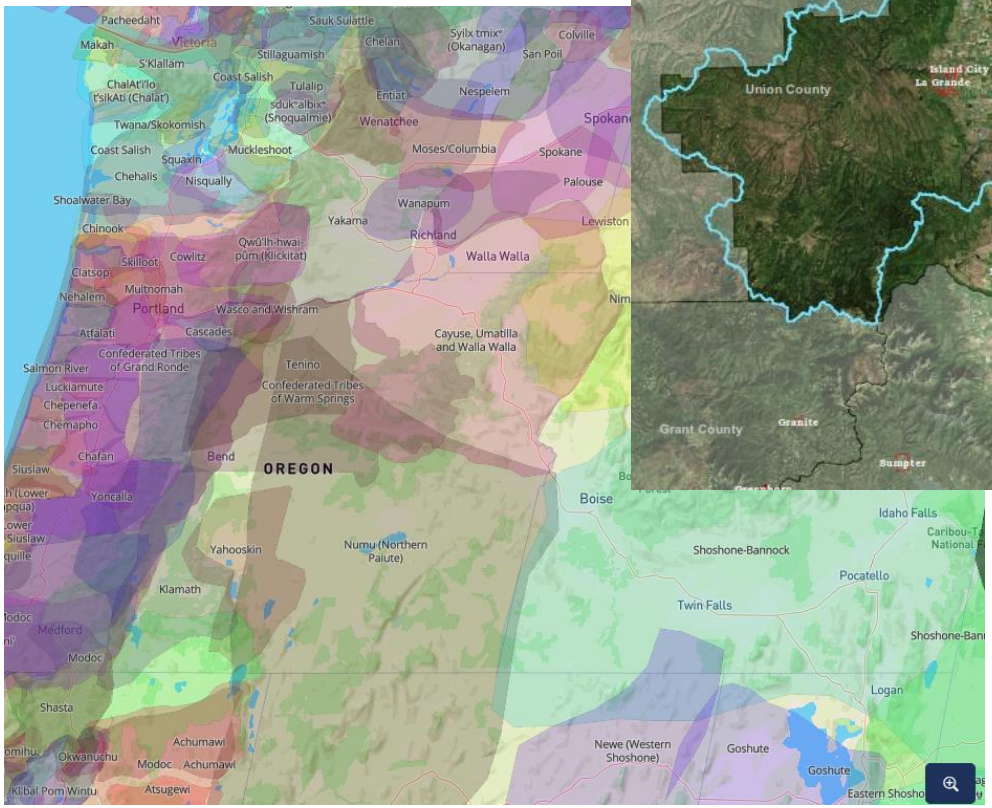
Crops


USDA Cropland Data (2014)
Agriculture (13.19%)
Barren (0.03%)
Developed (1.65%)
Evergreen Forest (59.25%)
Fallow/Idle Cropland (0.95%)
Grass/Pasture (1.75%)
Open Water (0.07%)
Shrubland (23.10%)
Wetlands (0.02%)
Rondowa
Minam
Wallowa
Elgin
Meacham
Pilot Rock
McKay Creek
Summerville
Imbler
Hilgard
La Grande
Island City
Cove
Starkey
Union
Lehman Springs
North Powder
0 6 12 18 24 Miles
Sources: Es


USDA
2016 CDL, Union County, Oregon
Land Cover Categories
(by decreasing acreage)
AGRICULTURE*
Alfalfa
Other Hay/Non Alfalfa
Winter Wheat
Sod/Grass Seed
Grass/Pasture
Fallow/Idle Cropland
Spring Wheat
Herbs
Barley
Sugarbeets
Canola
Potatoes
Sunflowers
Peas
Triticale
Soybeans
NON-AGRICULTURE**
Evergreen Forest
Shrubland
Developed/Open Space
Barren
Developed/Low Intensity
Open Water
0 3.59 7.18 10.77
miles
Produced by CropScape - http://nassgeodata.gmu.edu/CropScape
Top 16 agriculture categories / Top 6 non-agriculture categories listed

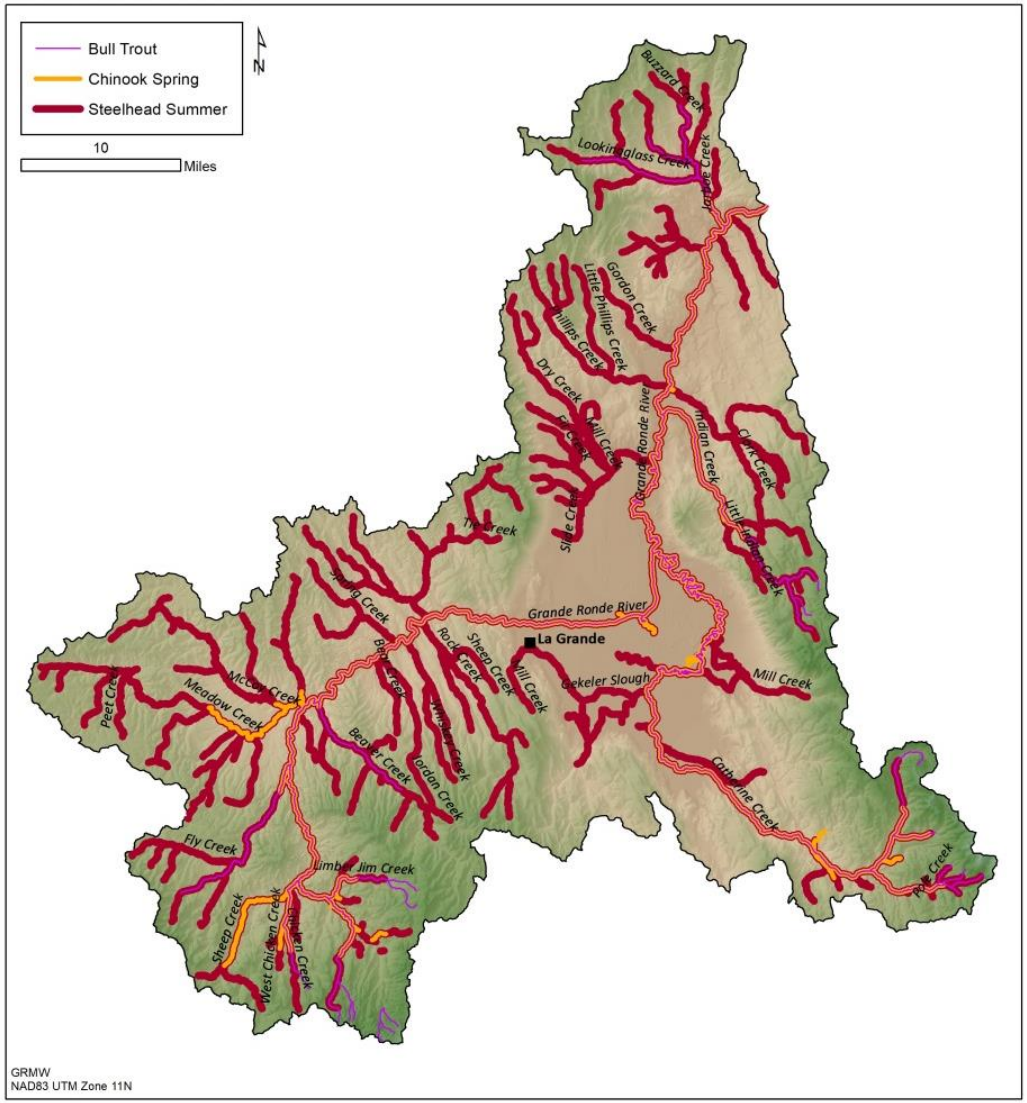
Cities - People



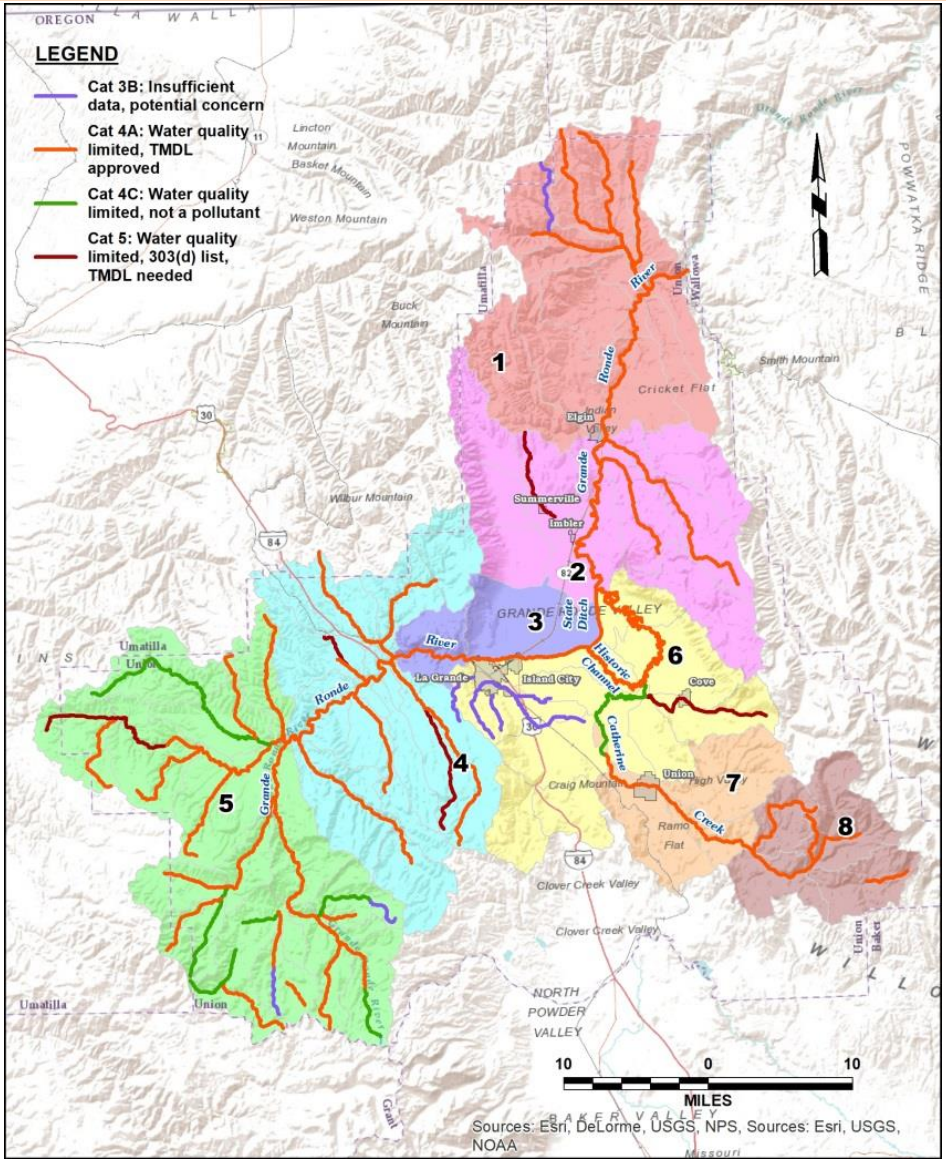


- Homeland of the Cayuse, Umatilla, and Walla Walla tribes
- La Grande - 13,229
- Island City - 1,016
- Elgin - 1,756
- Union - 2,142
- Cove - 625
- Summerville - 136
- Imbler - 310

Streams and Endangered Species Act Distribution

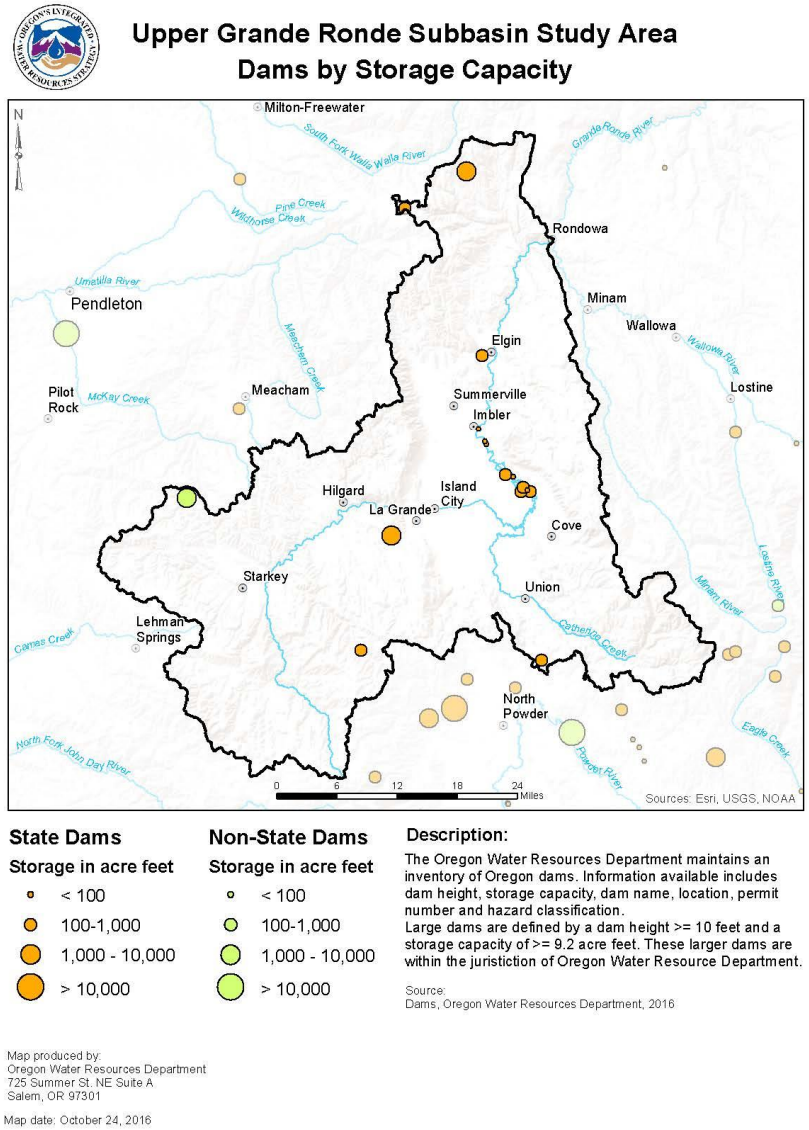


Water Quality



Water Storage

- Snowmelt dominated
- Low fall flows
- Only 7,231 acre-feet (AF) of surface reservoir storage

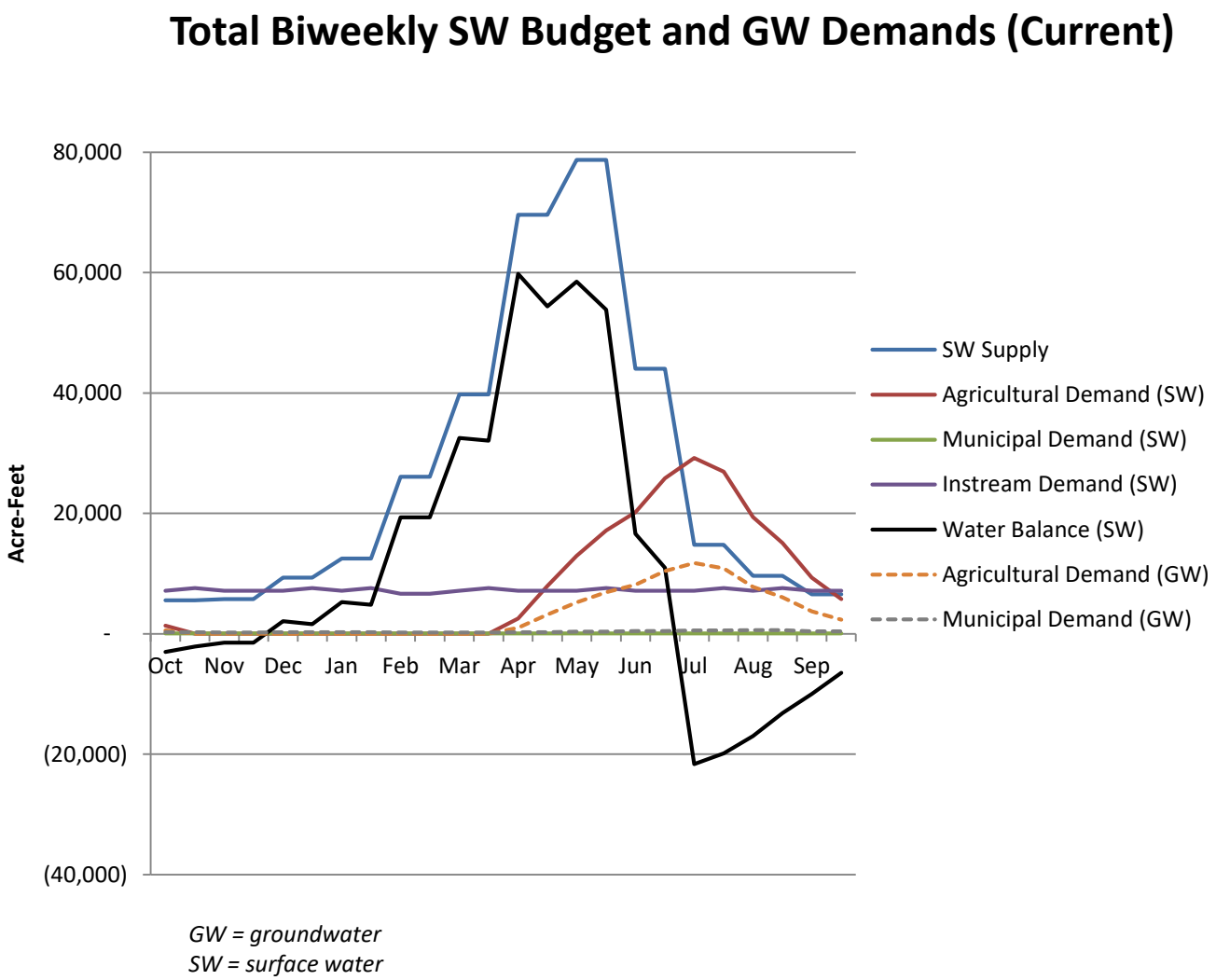


Demands

Municipal demand - Actual use calculation is that cities, unincorporated users, and self-supplied industrial users use approximately 2,060 AF per year of surface water and 8,190 AF per year of groundwater.

Agricultural demand - Total annual agricultural water use per year was estimated to be 193,730 AF (surface water) and 77,970 AF (groundwater) via evapotranspiration.

Instream demand - Existing instream water rights are 173,750 AF per year, but instream water rights do not cover all waterways in the UGRRW. Goal to improve this calculation.



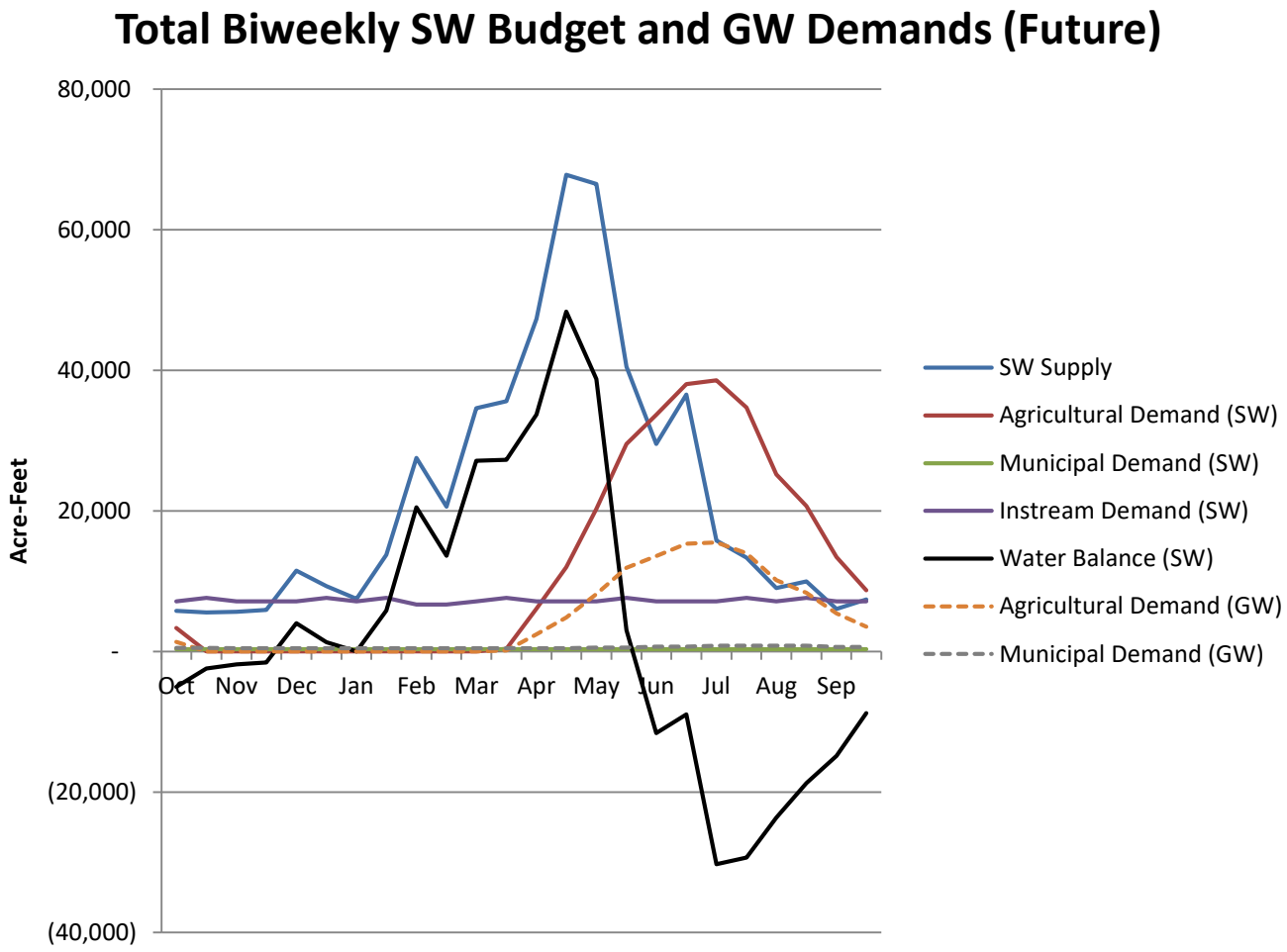
GW = groundwater
SW = surface water

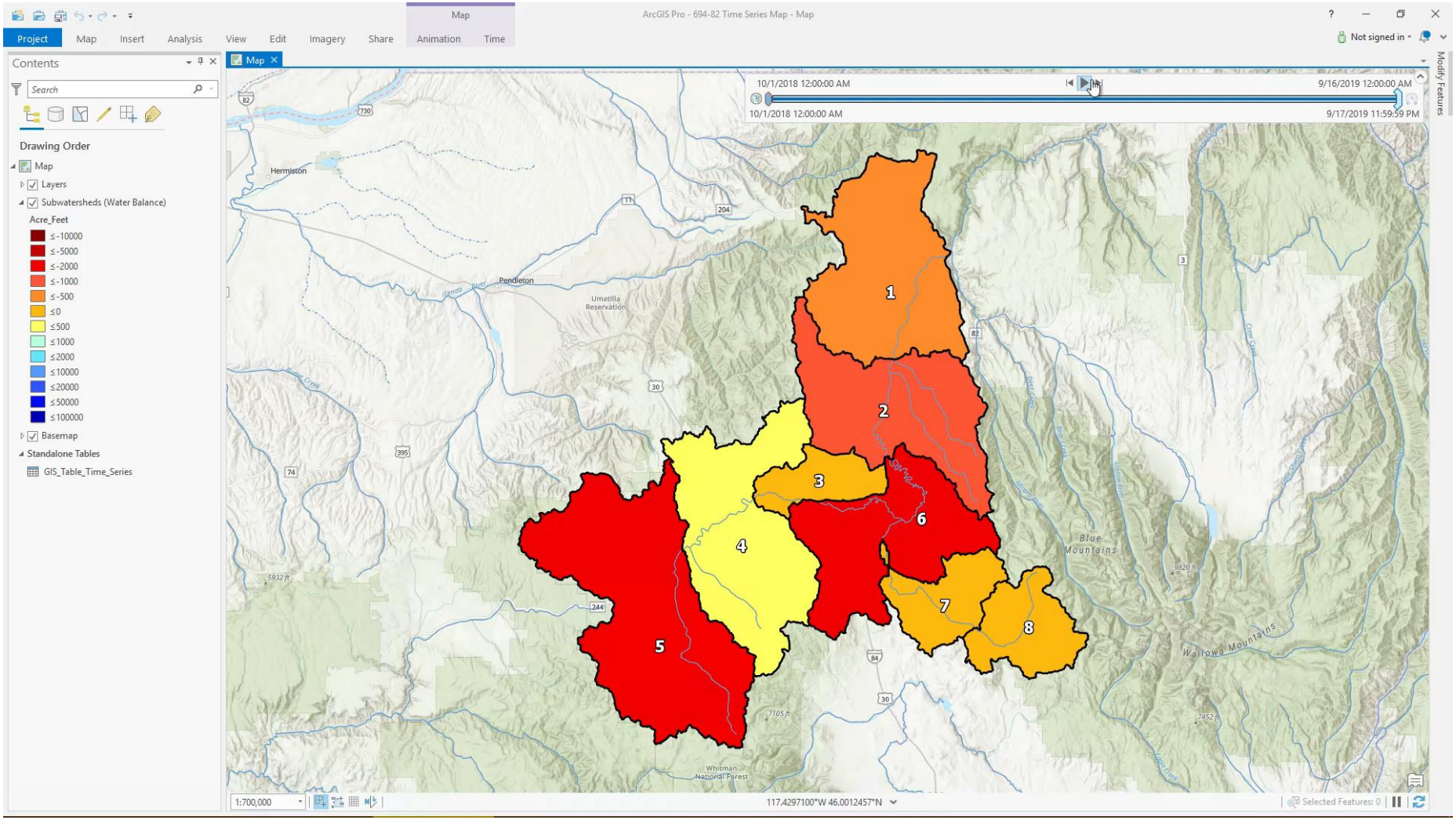
Future Demands

Municipal demand - Future use estimated at 6 percent increase over next 50 years.

Agricultural demand - Future use estimated with Representative Concentration Pathways 8.5 climate model and estimated conservation measures.

Instream demand - Changes in future demand need to be calculated.




ArcGIS Pro - 694-82 Time Series Map - Map
Project
Map
Insert
Analysis
View
Edit
Imagery
Share
Animation
Time
Not signed in
Contents
Search
Drawing Order
Map
Layers
Subwatersheds (Water Balance)
Acre_Feet
≤-10000
≤-5000
≤-2000
≤-1000
≤-500
≤0
≤500
≤1000
≤2000
≤10000
≤20000
≤50000
≤100000
Basemap
Standalone Tables
GIS_Table_Time_Series
10/1/2018 12:00:00 AM
9/16/2019 12:00:00 AM
10/1/2018 12:00:00 AM
9/17/2019 11:59:59 PM
Hermiston
Pendleton
Umatilla Reservation
Blue Mountains
Wallowa Mountains
Whitman National Forest
1
2
3
4
5
6
7
8
1:700,000
117.4297100°W 46.0012457°N
Selected Features: 0
Modify Features

Critical Issues

Groundwater Uncertainty

Surface Water Quality

Surface Water Deficit

Natural Hazards/Climate Change

Data Gaps

Strategies

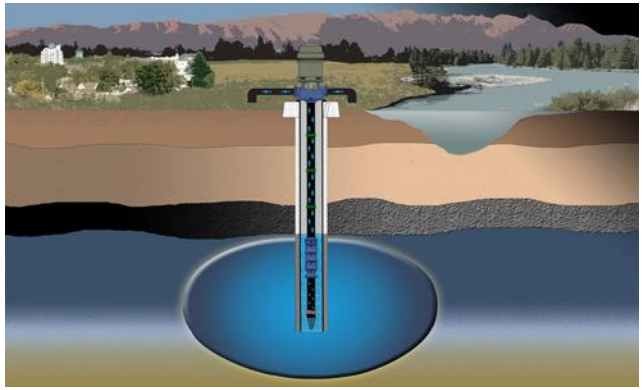
Four critical issues

Nine major strategies to address group-identified critical issues

Strategies - Built Storage

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS Corresponding Strategy}	Description/Purpose	Selected Milestones
1	Built Storage - Aboveground Storage and Underground Storage (Union County) [Agriculture, Instream] {10.B Improve access to built storage}	Address specific instream and out-of-stream water supply deficits in each subwatershed through advancing possible built storage projects.	• Conduct aboveground storage and instream flow study (applied for state funds). • Develop next steps for Catherine Creek underground storage (to benefit instream flows).

IWRS = Integrated Water Resources Strategies



Strategies - Land Management Agricultural Land

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
2	Land Management - Agricultural Land (NRCS) [Agriculture, Instream] {10.A Improve water-use efficiency and water conservation}	Conduct research and provide subsequent educational outreach to support water management actions that maintain water quality and increase water use efficiency.	• Convene a pilot group of landowners for on-farm conservation activities. • Create a shared resources list. • Strategize funding for irrigation water management projects.

Strategies - Data Collection, Monitoring, and Research

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
3	Data Collection, Monitoring, and Research (GRMW) [Agriculture, Instream] {1.A Improve water resource data collection and monitoring}	Coordinate data collection to fill data gaps, support working groups, and inform water management in the UGRRW.	• Prioritize data gaps. • Study groundwater. • Study water quality. • Update assessment of instream flow needs.

Strategies - Non-structural Water Storage and Habitat Management

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
4	Non-structural Water Storage and Habitat Management (Union SWCD) [Instream] {11.A Improve watershed health, resiliency, and capacity for natural storage}	Raise awareness of work being done and how this work addresses goals of the UGRRW Partnership; prioritize and pursue nonstructural storage projects in strategic locations.	• Plan field tour. • Prioritize areas and projects (using the Ecological Atlas geomorphic potential information).

Strategies - Land Management - Public Land

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
5	Land Management - Public Land (USFS) [Instream] {9.C Partner with federal agencies, tribes, and neighbor states in long-term water resources management}	Information sharing and communication between public land management agencies and stakeholders to identify potential areas of mutual support.	• Update UGRRW Partnership on USFS projects. • Plan field tours.

Strategies - Infrastructure - Land Modification

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
6	Infrastructure - Land Modification (Union County) [Municipal, Agriculture, Instream] {6.A Improve integration of water information into land use planning}	Reduce the frequency and severity of damage due to flooding now and in the future.	• Review U.S. Bureau of Reclamation hydraulics study. • Study sedimentation. • Hold ditch-opening meeting. • Draft hazards mitigation plan.

Strategies - Administrative Actions

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
7	Administrative Actions (CTUIR) [Instream] {10.D Reach environmental outcomes with non-regulatory alternatives}	Increase awareness of how administrative actions can improve water quality and quantity.	• Create outreach material for landowners and legislators. • Survey interest in administrative actions.

Strategies - Land Management - Municipal Land

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
8	Land Management - Municipal Land (City of La Grande) [Municipal] {7.A Develop and upgrade water and wastewater infrastructure}	Improve city-to-city coordination to respond to natural hazards, increase water conservation, and support water infrastructure efficiency improvements.	• Develop shared resources agreement. • Update/develop hazard mitigation plans.

Strategies - Outreach and Education

No.	Strategy (Implementation Lead) [Primary Beneficiaries] {IWRS corresponding strategy}	Description/Purpose	Selected Milestones
9	Outreach and Education (Union County) [Municipal] {8.C Promote community education and training opportunities}	Inform the public about water quality issues and UGRRW Partnership activities.	• Distribute water quality and lawn care outreach materials. • Complete digital storytelling project. • Update outreach plan.

Next Steps

- Quarterly implementation meetings - to update group on individual member/strategy group process
- Update plan every five years as needed
- Strategy Groups will meet more frequently. Top items we are working on currently:
  - Reinitiating strategy group meetings
  - Developing Oregon Watershed Enhancement Board (OWEB) Strategic Action Plan
  - OWEB/OWRD-funded Aboveground Storage Feasibility Study and Instream Flow Study
  - Catherine Creek underground storage study for instream flow restoration - reinitiating work
  - Union County - Integrated with the cities' Federal Emergency Management Agency Natural Hazards Update Plan
  - Data gap work - Focus on instream flow calculation improvement

Lessons Learned (1/3)

- Side meetings between those who disagreed were efficient in resolving differences.
- Value of a diverse steering committee.
- Strength of diverse interests working together on a common vision (it is possible to have a positive experience when those with competing interests work together).
- Value of completing work through technical working groups.
- Using local talent to come to conclusions for local basin.

Lessons Learned (2/3)

- Local individuals with competing interests have stronger relationships that help work through difficult issues.
- Each interest group had to compromise and learn about other water issues to come to consensus.
- Consistent leadership: convener, facilitators, and stakeholder/agency representatives.
- Hybrid meetings are helpful for attendance.
- Need more accessibility to agency-level data and staff resources.
- Having planning guidance available to future planning groups at the outset will be tremendously helpful.

Lessons Learned (3/3)

- To maintain engagement with local stakeholders and be responsive to local needs, planning must be place-based and locally led. Place-based planning is most effective when all entities (local, regional, state, tribal, and federal) all work together as partners.
- Need for more input/state-level interest in each step, rather than at the end. Agencies were all represented at the local level throughout the process; some conflicting input was received from state and local staff.
- Transparency on review team and first review should include the local planning group to answer questions. Clarity on final agency review expectations and communication from the review team throughout the process will greatly streamline the review of future plans.

Needs (1/2)

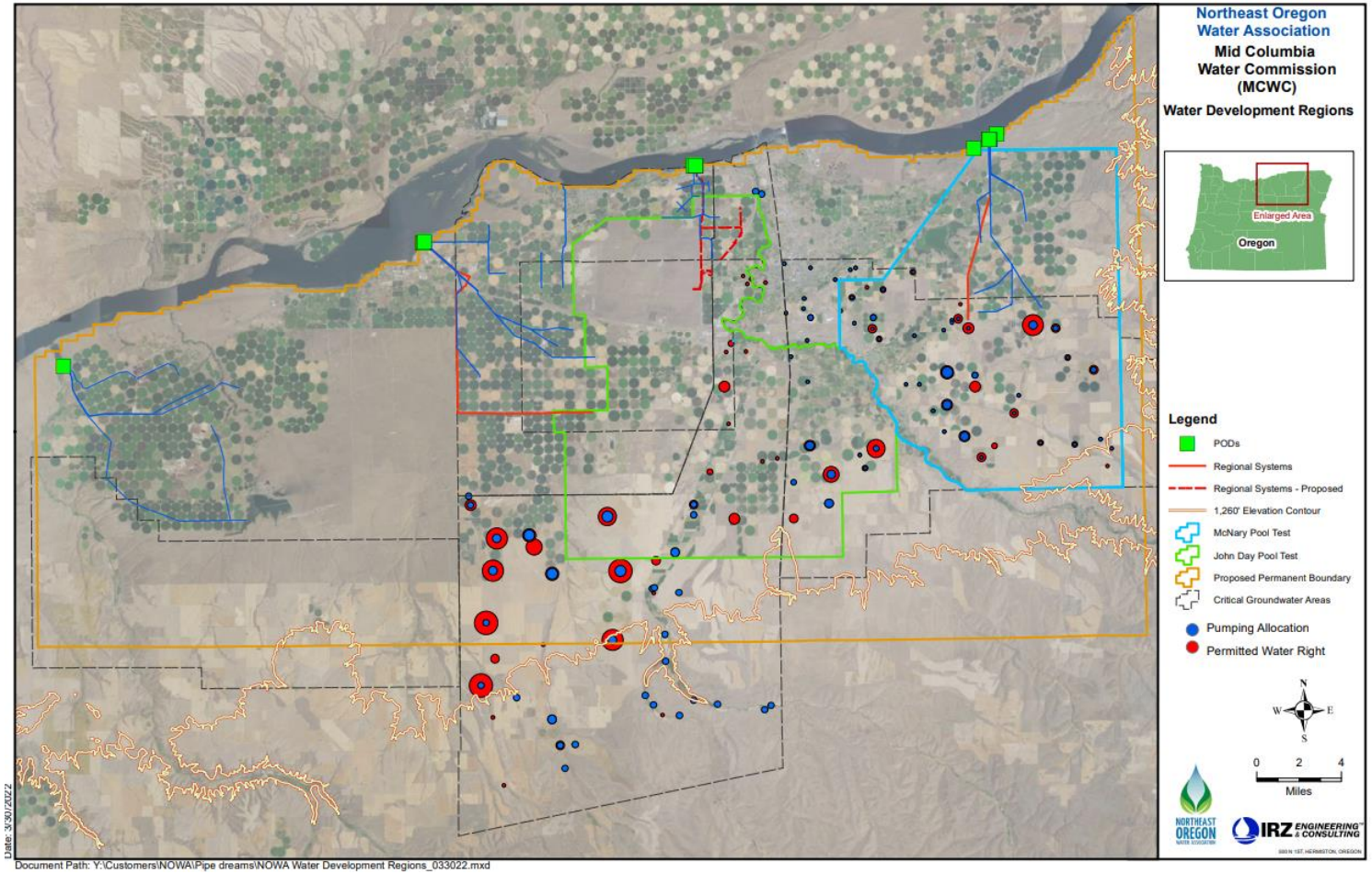
- State investment in more and better data on groundwater and surface water quality and quantity.
- Local coordination/ involvement with every state agency; emphasis on state investment in agency capacity, availability, and support for local process.
- Help to engage federal partners (especially for larger studies, permitting, and funding assistance).

Needs (2/2)

- Prioritize state funding for projects in basins that have undergone a collaborative, place-based planning process and adopted that plan.
- Build on the success of our effort and expand state funding for place-based planning beyond just the four pilot basins.
- Find ways to integrate place-based planning efforts into OWRD's budget process, 100-year Water Vision, and the state's utilization of federal infrastructure funding.

Thank You and Questions!

Region, background, sideboards, progress

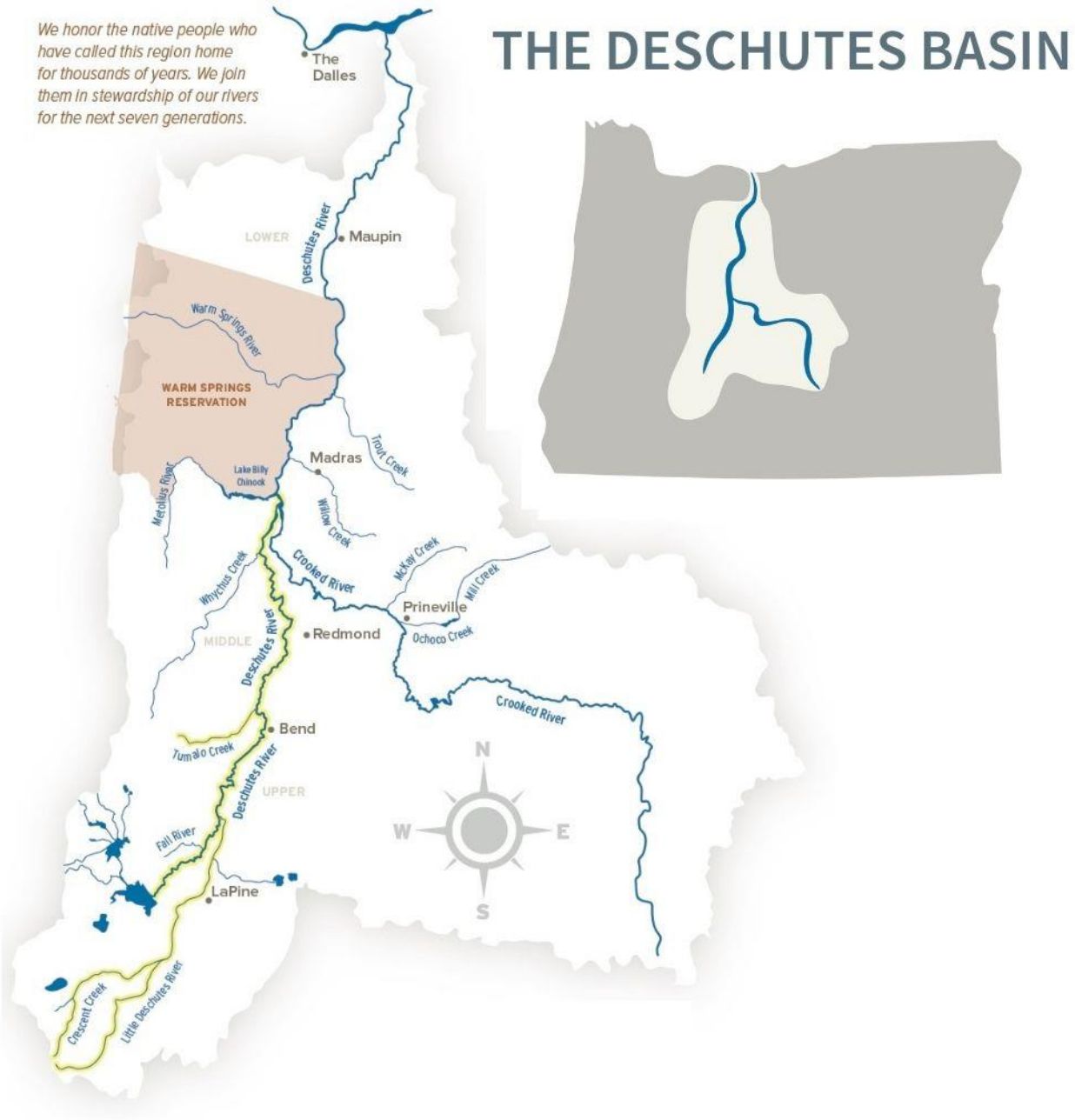


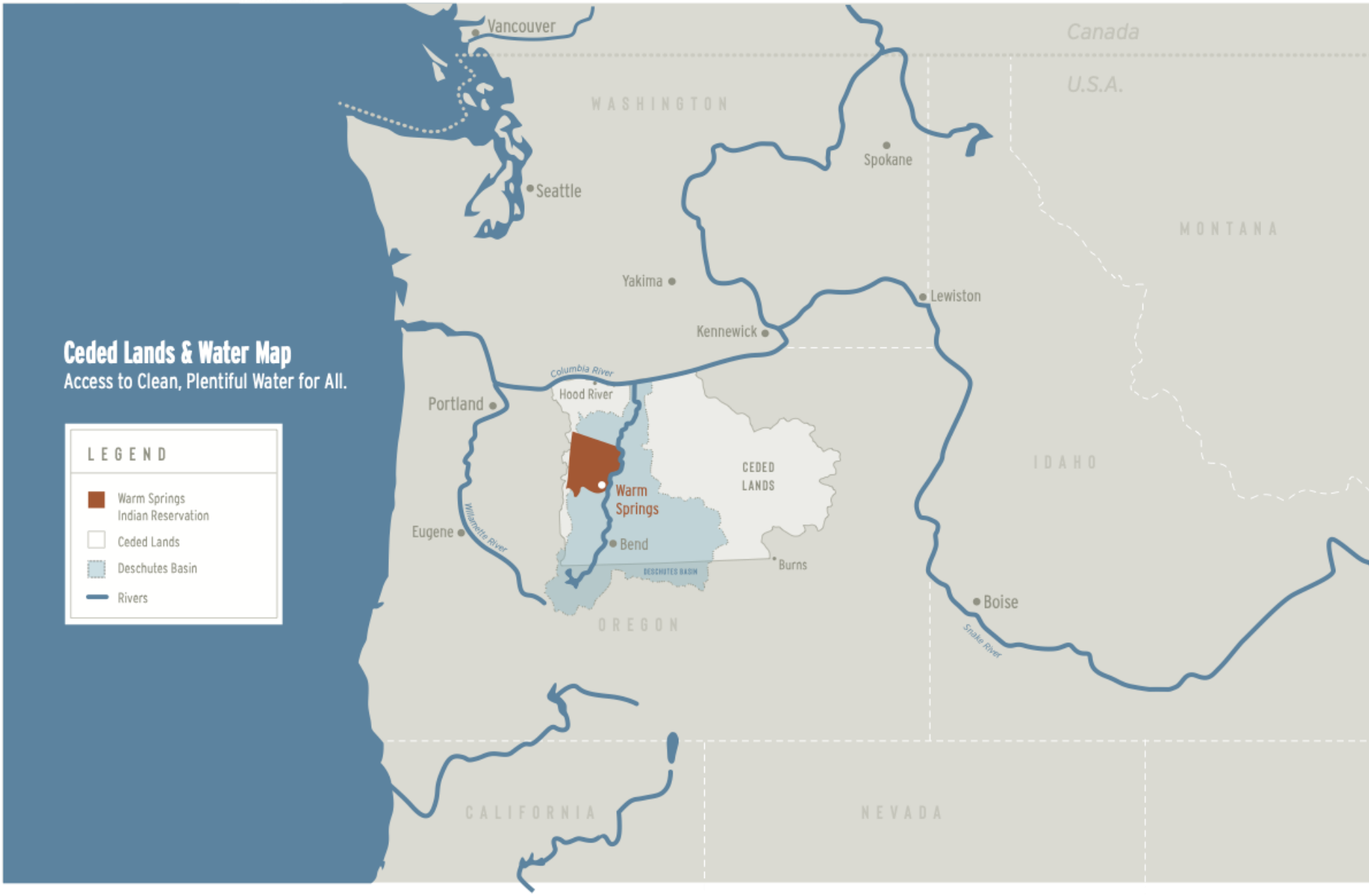
Collaborative Water Planning & Management in the Deschutes

State Regional Working Group, April 5, 2022

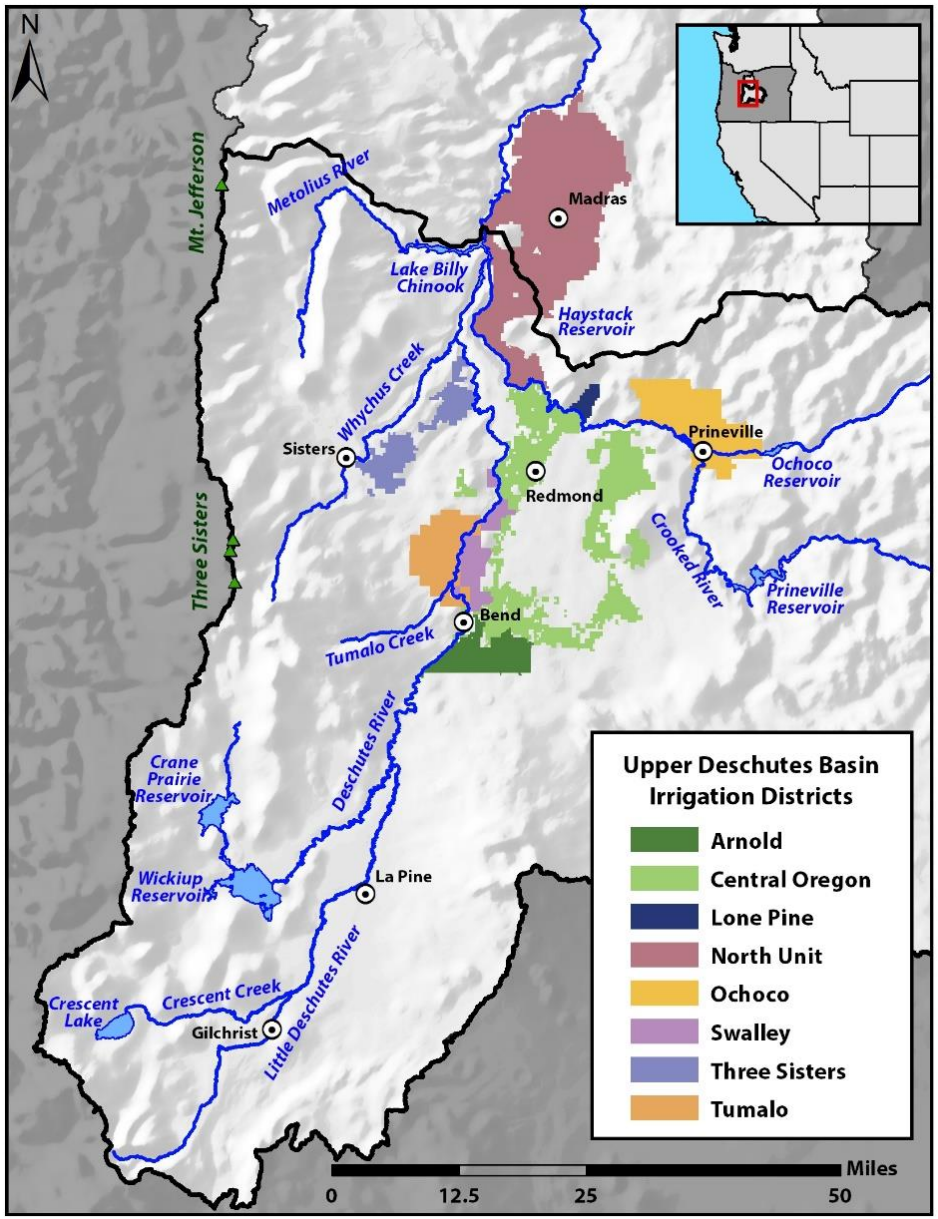
THE DESCHUTES BASIN

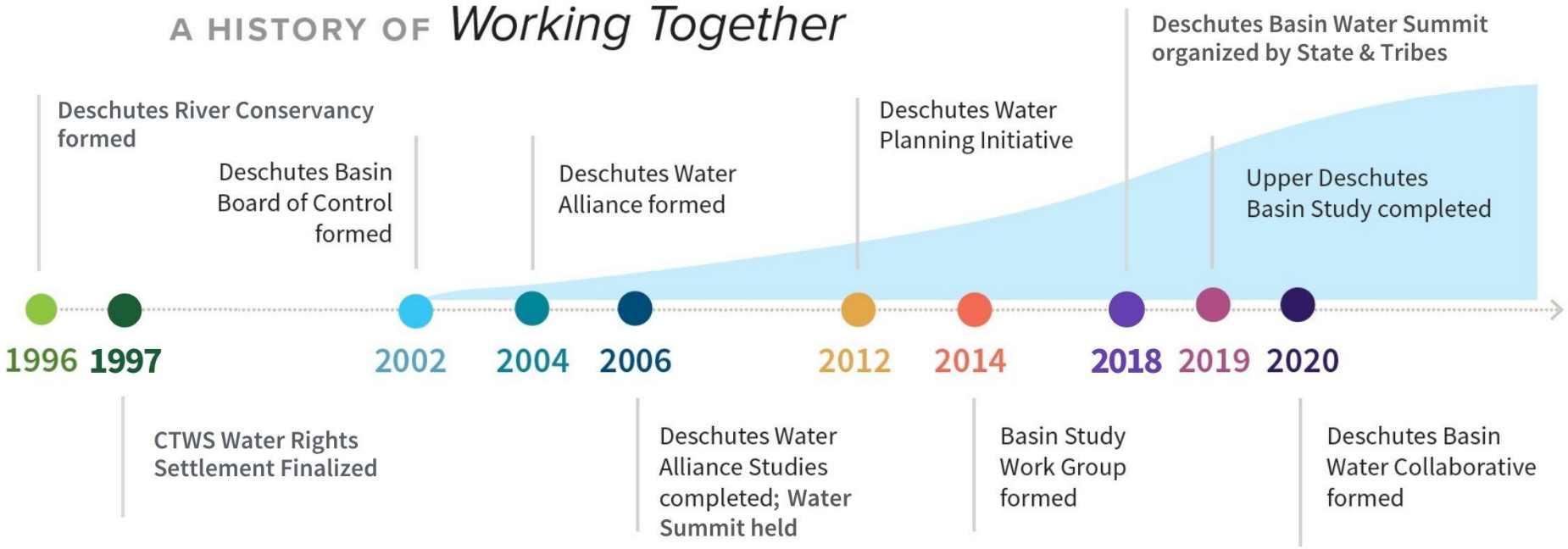
We honor the native people who have called this region home for thousands of years. We join them in stewardship of our rivers for the next seven generations.




Ceded Lands & Water Map
Access to Clean, Plentiful Water for All.
LEGEND
Warm Springs Indian Reservation
Ceded Lands
Deschutes Basin
Rivers
Vancouver
Canada
U.S.A.
WASHINGTON
Spokane
Seattle
MONTANA
Yakima
Lewiston
Kennewick
Columbia River
Hood River
Portland
CEDED LANDS
IDAHO
Warm Springs
Willamette River
Eugene
Bend
Burns
DESCHUTES BASIN
Boise
OREGON
Snake River
CALIFORNIA
NEVADA

Upper Deschutes Basin




A HISTORY OF Working Together
Deschutes River Conservancy formed
Deschutes Basin Board of Control formed
Deschutes Water Alliance formed
Deschutes Water Planning Initiative
Deschutes Basin Water Summit organized by State & Tribes
Upper Deschutes Basin Study completed
1996
1997
2002
2004
2006
2012
2014
2018
2019
2020
CTWS Water Rights Settlement Finalized
Deschutes Water Alliance Studies completed; Water Summit held
Basin Study Work Group formed
Deschutes Basin Water Collaborative formed

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

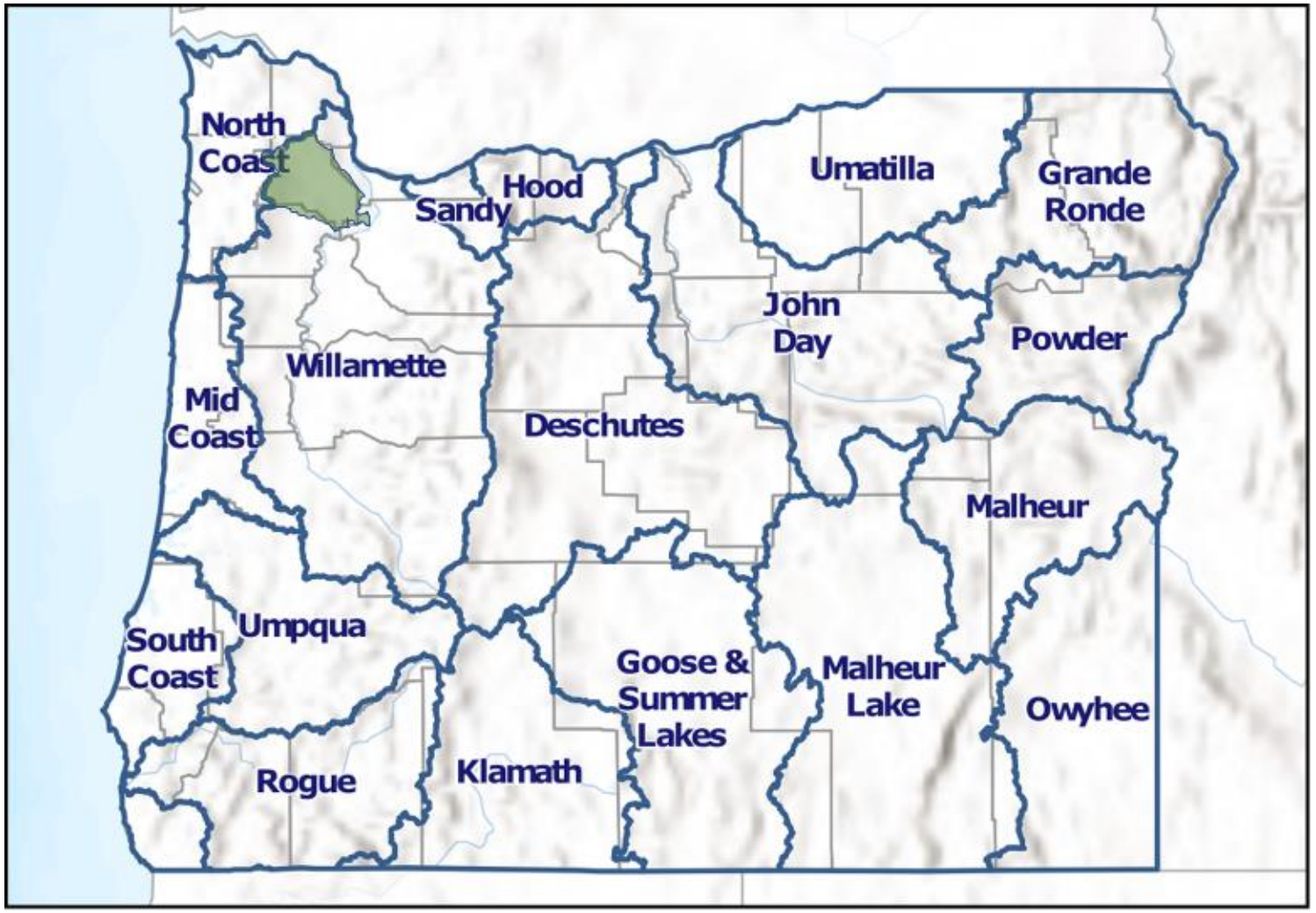
Tualatin River Basin Regional Water Supply Partnerships and Flow Management Technical Committee

Niki Iverson
Hillsboro Water Director
Joint Water Commission General Manager
Barney Reservoir Joint Ownership Commission General Manager

April 5, 2022

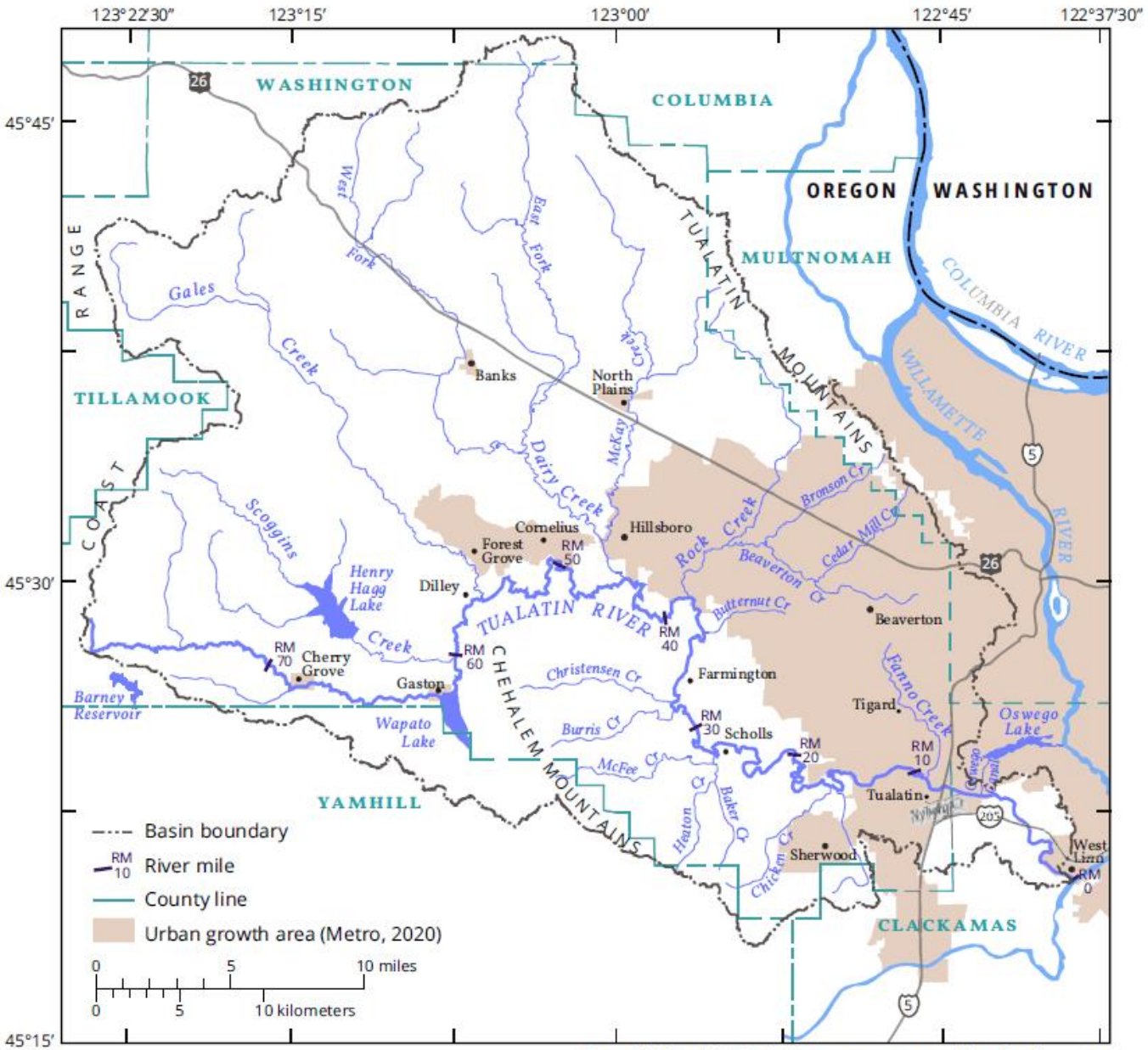
Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District



Joint Water Commission

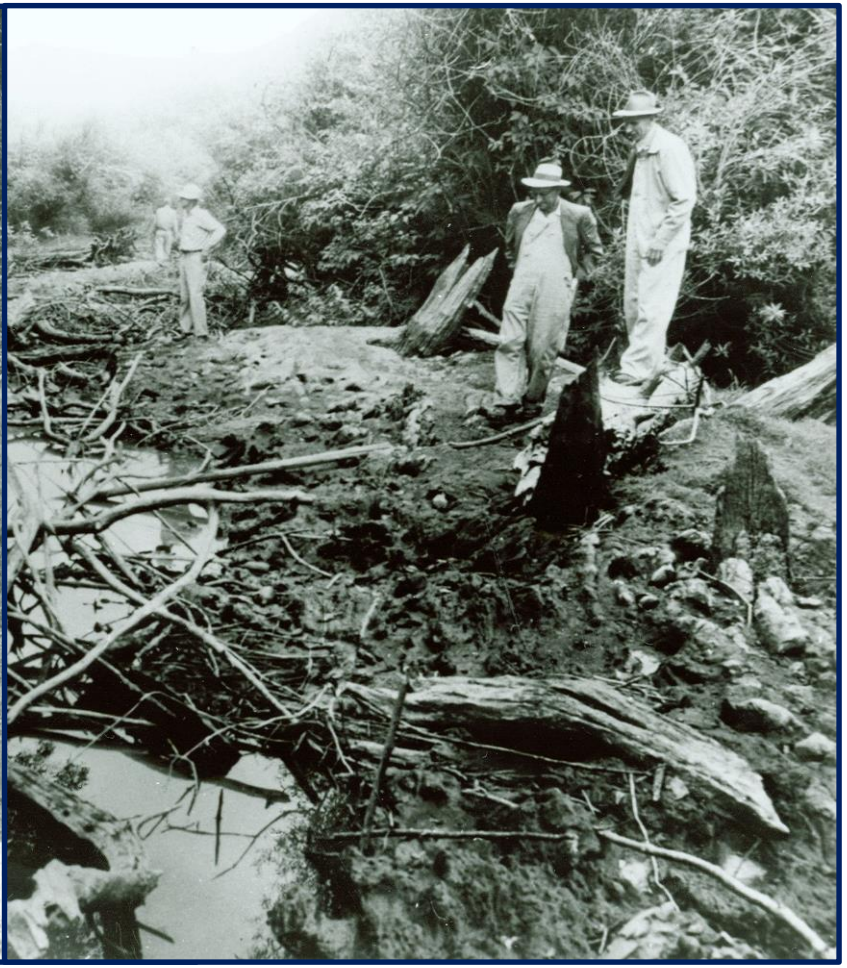
Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District



Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Lower Tualatin River – Historic Woes (1960's)



Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Barney Reservoir

- 20,000 acre-feet capacity
- Barney Reservoir Joint Ownership Commission
  - Cities of Hillsboro, Beaverton, Forest Grove, Tualatin Valley Water District, Clean Water Services

Scoggins Dam and Hagg Lake

- 53,640 acre-feet capacity
- Bureau of Reclamation
  - Irrigation, Municipal, Industrial, Recreation, and Water Quality Uses
  - Operated by Tualatin Valley Irrigation District

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Regional Water Supply Partnerships


Fern Hill 20 MG Reservoirs


Joint Water Commission Water Treatment Plant


USBR Springhill Pumping Plant

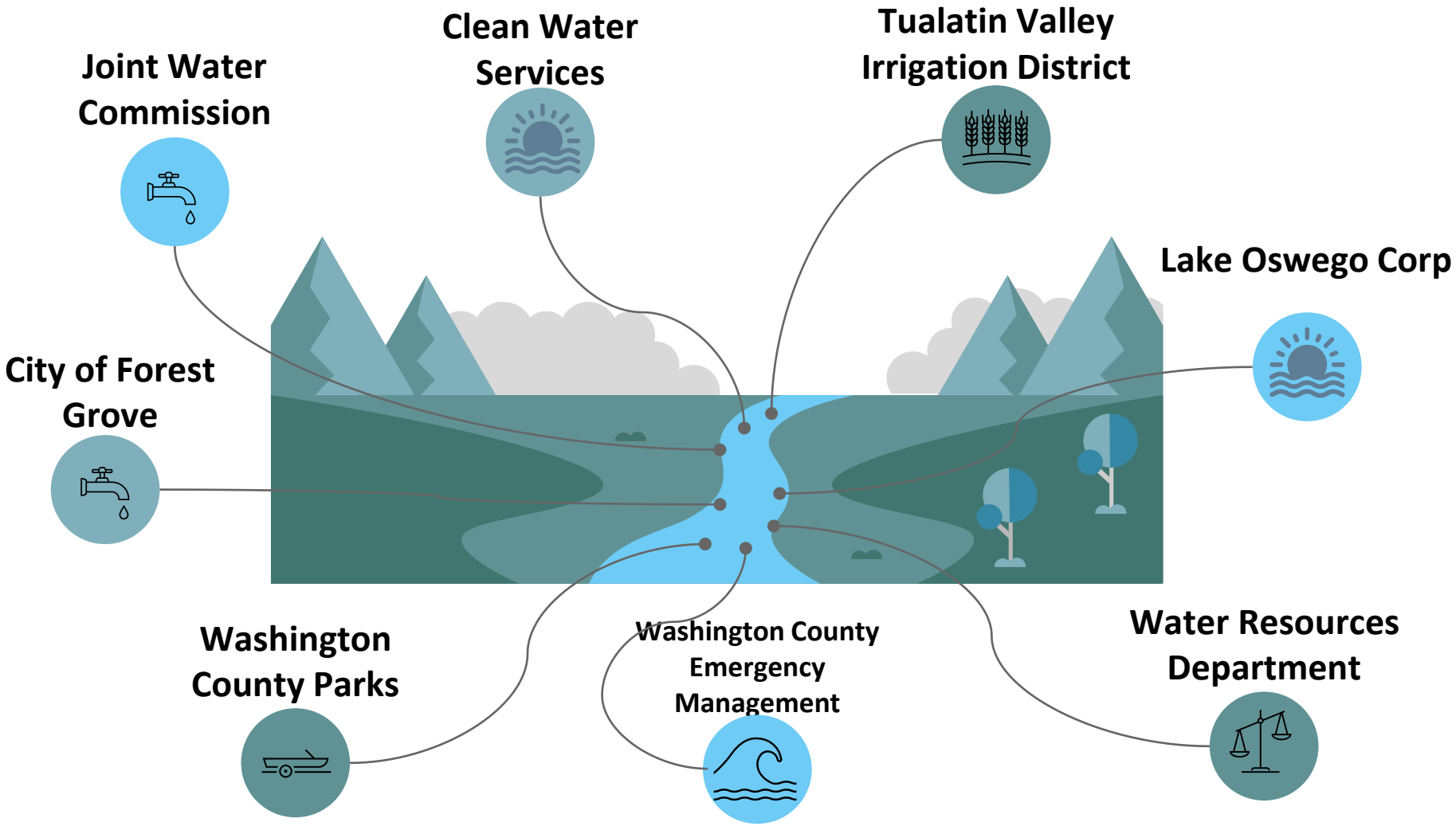

Northside Transmission Line


Southside Transmission Line

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Tualatin River Flow Management Committee

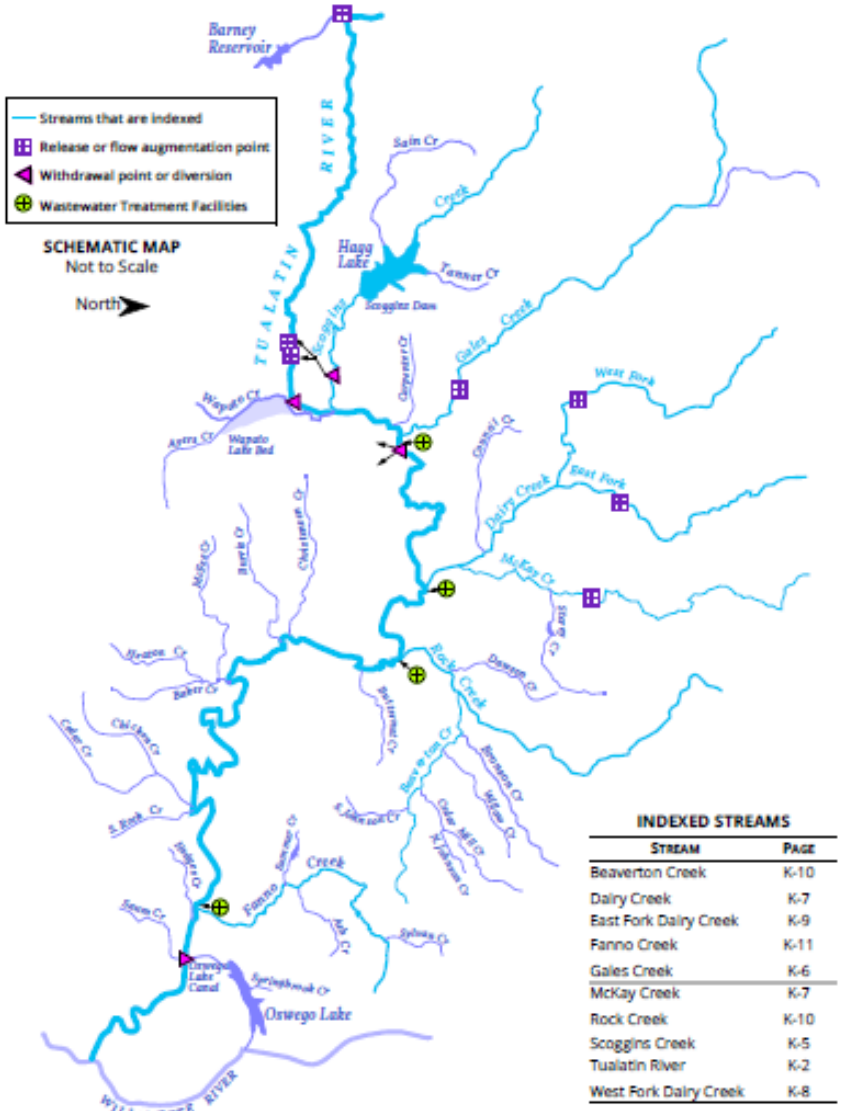


Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Tualatin River Flow Management Committee

- Founded in 1987
- Monthly meetings during the release season (April – November)
  - Reservoir & River Data
  - Water Quality and Quantity Issues
  - Partner Projects

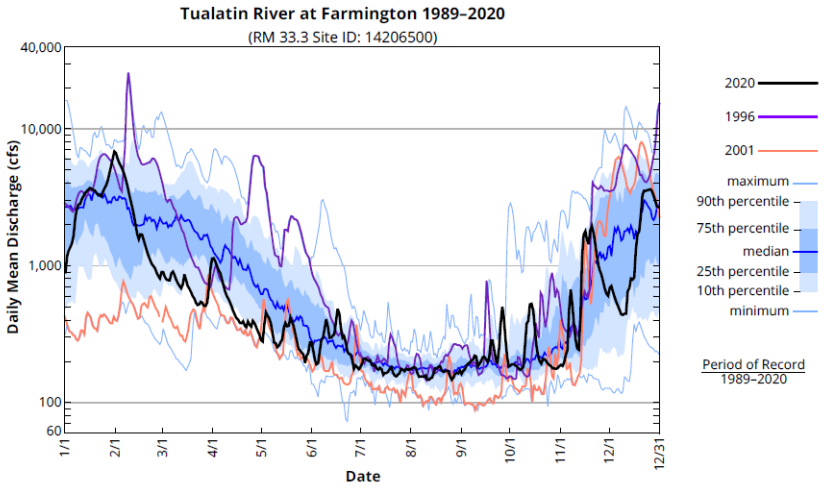


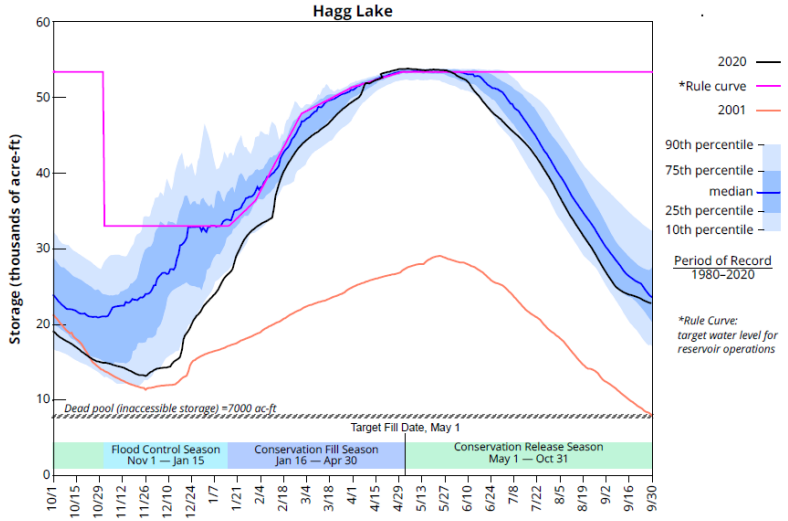
Flow Management Goals

- Different Agencies, Different Goals
- Managing and monitoring flow in the Tualatin to…
  - Augment streamflow through reservoir releases
  - Control or prevent harmful algal blooms (HABs)
  - Improve water quality
  - Ensure access to water rights throughout the basin
  - Maintain adequate flow for aquatic habitats
  - Plan for climate change impacts and population growth

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District



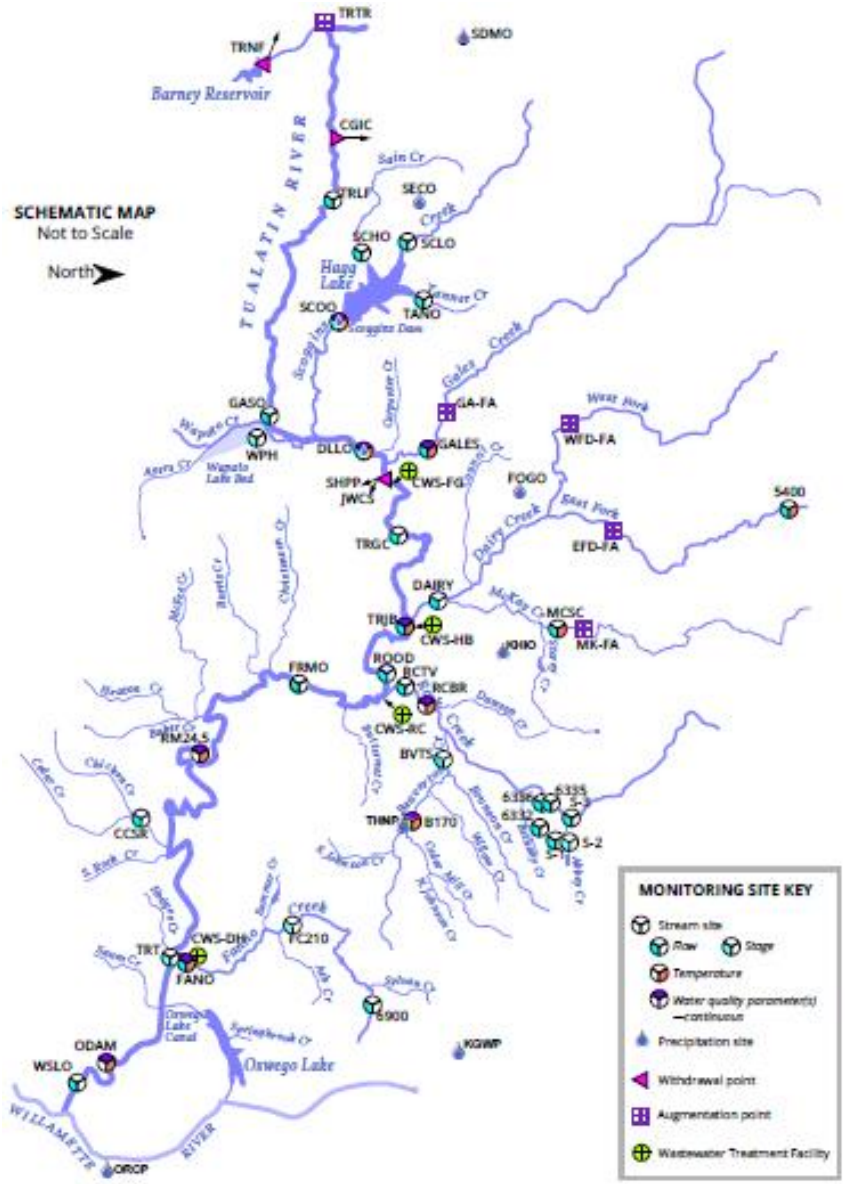


Data through Interagency Cooperation

- Monitoring sites throughout the basin; most in real-time
- Monitored, funded, and maintained by many organizations: Bureau of Reclamation, USGS, OWRD, CWS, JWC, LOC, and TVID
- Reservoir releases and reservoir status updates are shared among stakeholders via daily emails

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District



How are station data used?

- Decision making, water rights compliance, storage agreements, TMDLs, and water quality monitoring
- 17 stations help OWRD Watermaster manage and regulate water rights in District 18
- Analyses of long-term changes in water quality and availability

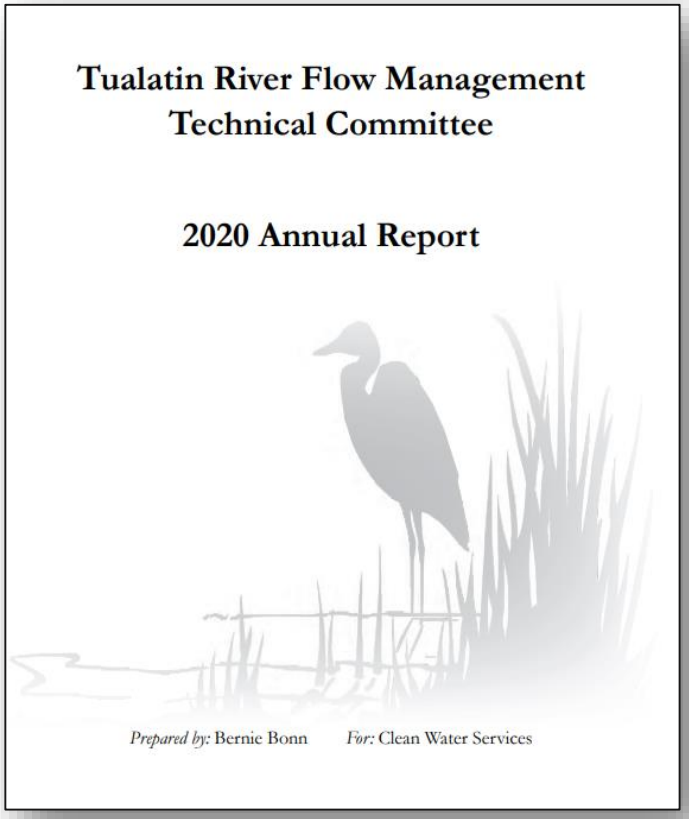
Publicly Accessible Annual Flow Report

- Flow Management Technical Committee annual report includes

  - ✓River releases and diversions by agency
  - ✓Agency operations and projects
  - ✓Comparisons to previous years
  - ✓Weather and stream gage raw data
  - ✓Agency Water Rights
  - ✓Major weather events

Available online at:

co.washington.or.us/Watermaster/SurfaceWater



Joint Water Commission

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Lessons Learned

- Economies of Scale
- Constant Care and Feeding
- Other perspectives
- We are stronger and better together
- Alternatives Analysis

Lower Tualatin River - Today

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

New Supply and New Partnerships - Willamette

Joint Water Commission

Cities of Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District

Questions?