

Place-Based Water Planning

07/01/2026

Applicant Profile

Organization Legal Name*

Gilliam Soil and Water Conservation District

Organization Contacts

First Name*

Herb

Last Name*

Winters

Role or Title*

District Manager

Email Address*

herb@gilliamswcd.gov

Phone Number*

5417018580

First Name*

Norie

Last Name*

Wright

Role or Title*

Office Manager

Email Address*

norie@gilliamswcd.gov

Phone Number*

5417920941

First Name*

Dana

Last Name*

Kurtz

Place-Based Water Planning

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Role or Title*

Consultant

Email Address*

dkurtz@andersonperry.com

Phone Number*

5099531804

Entity Type

Soil and Water Conservation District



Organization Physical Address

Address Line 1*

234 S. Main Street

Address Line 2

City*

Condon

State/Province/Region

Oregon



Postal/Zip Code*

97823

Is the mailing address different from the physical address?*

Yes

No

Organization Mailing Address

Address Line 1

P.O. Box 106

Address Line 2

City

State/Province/Region

Condon

Oregon



Postal/Zip Code

97823

Application Instructions

Complete all required sections of the application. Required questions are marked with a red asterisk.

- You must complete the "Grant Type and Applicant Information" section **first**. Based on the grant type you select, the application will automatically adjust to only include questions for the selected grant type. The rest of the sections may be completed in any order.
- At the bottom of each section, you will see an option to move on to the following section "**Next**" or to "**Save Draft & Exit Section**." Pressing either button will save your work on that screen. "Save Draft & Exit Section" will take you back to the screen with all the application sections. You may return to various sections throughout the application at any time. ***Please make sure you save your work as you fill the application.***
- We recommend you draft longer answers in a Word document and then copy and paste into the application.
- Red bars next to the section on the intake main menu will indicate if a section is incomplete or has issues that need to be corrected before the application can be submitted.
- Multiple people may collaborate on a single application. Please see this [support article](#) for more information.

Please review your application prior to submitting (*note: please ignore automatically assigned section numbers*). Once you submit the application you cannot make any updates unless requested during the eligibility and completeness phase.

You can download a PDF copy of your submitted application. We recommend you retain a copy for your records. Click the download button at the top of the page then select "Download".

Review the [Place-Based Water Planning Handbook](#) before filling out your application, and please reference [Oregon's 2025 Integrated Water Resources Strategy](#).

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Please reference the OWRD [Grant Budget Procedures and Allowable Costs](#) document when determining the funding request and budget.

Submit the completed application and all attachments via the online portal.

Applicants are discouraged from submitting information considered proprietary unless it is deemed essential for proper evaluation of the application. Please note that eligible and complete applications will be posted on the [Planning Grants webpage](#).

If you have any questions, contact staff at 503-871-5868 or pbwp@water.oregon.gov.

Pre-Application Conferences

A pre-application conference is a service offered by OWRD to potential funding applicants. We strongly encourage all prospective applicants to request a pre-application conference before submitting an application.

The purpose of a pre-application conference is to answer your questions about the funding process, identify any additional information that may be needed, discuss potential eligibility issues, and provide guidance on both the procedural and substantive requirements of the application, including how applications are scored.

Before you request a pre-application, you must complete all required questions (marked with *) for your selected grant type. You do NOT need to complete the following sections prior to the pre-application conference: "Letters of Support Request," "Attachments," or "Certification."

To schedule a pre-application conference:

- Email pbwp@water.oregon.gov or call 503-871-5868.
- You **must complete the applications sections** and email your request **at least two weeks prior** to the pre-application conference date. This allows adequate time for review.
- **Do not submit the application** in the grants portal but leave your application as draft. Staff will be able to review your draft answers.
- Please include **any questions or concerns** you would like to discuss. This helps us prepare to provide the most useful guidance during the meeting.

See [Place-Based Water Planning Pre-Application Conferences](#) for more information.

Did you read the application instructions carefully?*

Yes

No

Grant Type and Applicant Information

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What type of Place-Based Water Planning Grant are you applying for?*

Please select one.

Planning Readiness Evaluation and
Preparation (PREP) Grant

Plan Development Grant

Post-Plan Coordination (PPC)
Grant

Principal Contact

Contacts

First Name*

Herb

Last Name*

Winters

Role or Title

District Manager

Email Address*

herb@gilliamswcd.gov

Phone Number*

5413872672

Principal Contact Address

Address Line 1*

234 S. Main Street

Address Line 2

City*

Condon

State/Province/Region*

Oregon

Postal/Zip Code*

97823

Applicant Entity Type*

Soil and Water Conservation District

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Do you have a Co-Applicant?*

Yes

No

Fiscal Officer

Contacts

First Name*

Norie

Last Name*

Wright

Role or Title

Office Manager

Email Address*

norie@gilliamswcd.gov

Phone Number*

5417920941

Organization*

Gilliam Soil and Water Conservation District

Fiscal Officer Address

Address Line 1*

234 S. Main Street

Address Line 2

City*

Condon

State/Province/Region*

Oregon

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Funding Request (Post-Plan Coordination Grants)

State-Recognized Place-based Water Plan*

Select your Place-Based Water Plan from the drop-down menu. Eligibility for this grant is limited to plans that (a) are state-recognized OR (b) have achieved consensus on a final draft plan and have been submitted for state agency review (Post-Plan Coordination grant awards are conditional on receiving state-recognition). If a plan submitted for state agency review has not received state recognition within 9 months of notification of the grant award decision, the award will expire and the funds will be used in the next Place-Based Water Planning solicitation cycle.

The Lower John Day Basin Integrated Water Resource Plan



Grant Funding Request*

The grant funding request amount represents the total amount of grant funding you are applying for. The maximum funding request for a Post-Plan Coordination grant is \$150,000.

\$

150,000

USD

Match Funding*

Match funding is required. Match funds may be composed of in-kind or cash match funds and must be at least 25% of the grant funding request (e.g., if the funding request is \$150,000; match amount must be at least \$37,500).

\$

37,500

USD

Please reference the OWRD [Grant Budget Procedures and Allowable Costs](#) document for more details on how to calculate match.

Match Funding %

Must be at least 25% of the Grant Funding Request. This value will be automatically calculated based on your entries for Grant Funding Request and Match Funding.

25

Total Funding

This value will be automatically calculated based on your entries for Grant Funding Request and Match Funding.

187500

Implementation (Post-Plan Coordination Grants)

Place-Based Water Planning(Gilliam Soil and Water Conservation District) 8

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Identify the convener(s) of this phase of planning. *

Gilliam Soil & Water Conservation District and Mid John Day Watershed Council

Is it the same convener as during plan development? *

Yes

No

Is the Convener the applicant?*

Yes

No

Describe the Collaborative's governance structure for plan implementation and attach the Collaborative's most recent shared governance agreement in the attachments section. *

The Lower John Day Work Group (LJDWG or Work Group) is one of the original 2016 Oregon Water Resources Department Place-Based Planning Pilot Groups. The effort began when Gilliam Soil and Water Conservation District, with support from the John Day Basin Partnership and its Lower John Day Work Group, submitted a proposal and was selected by OWRD to complete a place-based integrated water resources planning process for the Lower John Day River Subbasin. The Work Group operates within the broader John Day Basin Partnership, which provides an umbrella for basin-wide restoration, water planning, and implementation coordination.

The Work Group's governance structure has been updated and adaptively managed throughout the planning and implementation process to meet the needs of the continued work. The original Declaration of Cooperation was developed on February 7, 2017, to guide the pilot planning process (see attached). That agreement established the Lower John Day effort as a locally led, voluntary, non-regulatory, inclusive, transparent, and consensus-oriented process focused on balancing instream and out-of-stream water needs. The Declaration also identified the Lower John Day Working Group as the steering committee for the planning process and established Gilliam SWCD as fiscal agent.

From 2016 through 2022, the Work Group and participating water interests completed OWRD's place-based planning process, including building the collaborative, gathering water resource information, examining current and future needs, developing and prioritizing integrated solutions, and preparing a local integrated water resources plan. This long-term effort resulted in The Lower John Day Basin Integrated Water Resource Plan, which was unanimously recognized by the Oregon Water Resources Commission in June 2022.

Following recognition of the plan, the Work Group continued its collaborative work through implementation coordination. The Work Group updated its governance framework through a Declaration of Cooperation for implementation coordination, most recently associated with the 2022 implementation funding period (see attached). This updated agreement recognized that continued collaboration was needed to support implementation of the recognized plan. The implementation agreement carried forward the same core principles of local leadership, voluntary participation, balanced representation, consensus-oriented decision-making, open meetings, outside facilitation, public transparency, and coordination with OWRD. It also clarified the role of the Work Group in meeting regularly, sharing information, identifying and developing potential implementation activities, tracking implementation work

led by other parties, and considering requests for Work Group endorsement of activities related to the recognized plan.

The Work Group currently meets quarterly to continue this implementation coordination work. These meetings provide a regular forum for partners to review progress, discuss current and emerging needs, coordinate next steps, and maintain communication among instream and out-of-stream water interests. In addition to quarterly meetings, the Work Group uses field tours, project reviews, and partner updates to evaluate completed and ongoing work. These activities allow participants to see projects on the ground, discuss what has worked well, identify lessons learned, and apply those lessons to future implementation priorities. This regular meeting and review structure helps the Work Group maintain momentum, transparency, and accountability while continuing to advance the recognized plan.

The Work Group is convened by Gilliam Soil and Water Conservation District, represented by Herb Winters, District Manager; Mid John Day Watershed Council, represented by Debbie Bunch, Executive Director; and Wheeler Soil and Water Conservation District, represented by Cassie Newton, District Manager. The conveners are supported by the Work Group, which provides technical and administrative leadership and coordinates with all parties that have signed the Declaration of Cooperation or otherwise remain engaged in implementation. Work Group meetings are open, and interested parties are invited to participate through emailed meeting invitations, meeting materials, and ongoing partner communication.

The Work Group uses the Declaration of Cooperation and Oregon's Place-Based Water Planning principles to support consensus-oriented decisions, balanced participation, neutral facilitation, open meetings, public transparency, and respectful resolution of disagreements. When conflicts or differences arise, the Work Group addresses them through facilitated discussion, documentation of concerns, follow-up with affected interests, and a shared commitment to voluntary, non-regulatory, locally led solutions that address both instream and out-of-stream needs.

The Work Group and the John Day Basin Partnership continue to work closely together, and the Partnership is also updating its governance structure. These governance structures have been adaptively managed throughout the process to support the group's continued work, including the original pilot planning effort, state recognition of the plan, ARPA-supported implementation coordination, and the current need for post-plan coordination funding. This history demonstrates that the Work Group has remained active, committed, and responsive to the needs of each stage of the work. The group has continued from plan development into implementation coordination, progress tracking, partner engagement, and preparation of priority strategies for future funding. See attached powerpoint describing how the Work Group and John Day Basin Partnership collaborate to increase implementation success for both groups.

The need for this grant comes directly from the continued work required to implement the recognized plan. The Work Group has completed the planning process and has already begun implementation coordination, but continued progress requires dedicated capacity. The recognized plan includes numerous strategies addressing riparian conditions, stream temperature, instream flow, storage needs, native plant communities, irrigation efficiency, stream gauge data, municipal water and wastewater infrastructure, groundwater information, and fish passage. These priorities require ongoing facilitation, meeting support, partner communication, documentation, Strategic Action Plan tracking, biennial progress reporting, and coordination across agencies, local governments, conservation organizations, agricultural interests, municipalities, watershed councils, and soil and water conservation districts.

The proposed Post-Plan Coordination grant supports the Work Group's continued implementation coordination. It will provide the capacity needed to maintain the governance structure, support balanced participation, document progress, coordinate partners, conduct outreach, update implementation tracking, support adaptive management, and meet biennial progress reporting expectations. These activities will help the Work Group continue to meet state recognition expectations, maintain transparency, and move priority strategies from planning toward future implementation funding.

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How will the Planning Collaborative continue to represent a balance of instream and out-of-stream water interests and a commitment to collaboration and place-based water planning principles? *

The Work Group was convened to address significant water challenges in the Lower John Day Basin. Historical descriptions indicate that the John Day River was once a relatively stable and healthy river with natural riverine processes and habitats. However, like much of the western United States, watershed conditions in the John Day Basin have changed significantly over the past 150 years. A myriad of water and land use practices, including mining, livestock grazing, riverine habitat degradation, and invasive species, have contributed to these changes. Additionally, the region is experiencing rising temperatures, increasing incidents and extent of drought, and increased fire frequency. These disturbances have impaired water quality in hundreds of stream miles, degraded riparian corridors and disconnected floodplains, reduced biodiversity and fish populations, and changed the structure and function of upland habitats.

These and other influences across the Lower Basin led to a planning process to help improve conditions to meet instream and out-of-stream water needs and demands. Coordination with multiple stakeholders and agencies and adequate funding are critical to meet the challenges facing the Lower Basin. See attached Lower John Day Basin Integrated Water Resource Plan for further details.

The Work Group will continue to represent a balance of instream and out-of-stream water interests by maintaining open participation, neutral facilitation, and regular communication with conservation organizations, agricultural representatives, municipalities, local governments, agencies, watershed councils, soil and water conservation districts, landowners, and community partners.

The Work Group recognizes that resource-limited municipalities, irrigators, conservation organizations and landowners may not be able to attend every meeting. To reduce barriers, the Work Group shares meeting notes, follows up by phone and email, holds virtual and in-person meeting options, and relies on trusted local partners to gather input. This supports the Place-Based Water Planning principles of a locally led, inclusive, balanced, voluntary, transparent, and science-based process.

The Work Group has demonstrated balance by advancing instream and ecosystem priorities such as riparian restoration, biological assessment work, floodplain reconnection, stream temperature and flow strategies, and fish passage coordination, while also advancing out-of-stream priorities such as municipal needs assessment work, irrigation efficiency assessment work, water conservation, and agricultural partner coordination.

During the proposed grant period, Task 1 will maintain the collaborative forum and outreach structure; Task 2 will continue support for Phase I critical issues that are heavily tied to riparian, instream, aquatic, and upland restoration; Task 3 will focus on irrigation efficiency, gauge data, municipal infrastructure, groundwater data, and fish passage; and Task 4 will update implementation tracking and adaptive management priorities. Together, these tasks support balanced implementation rather than a single-interest approach.

List Planning Collaborative members who have committed to ongoing involvement or support during implementation and describe their involvement/support (e.g., meeting/workgroup participation, project implementation, etc.). Include any organizational or interest affiliations. *

Attach any relevant letters of support in the attachments section.

The following organizations actively participate in Work Group meetings, implementation coordination, technical review, outreach, or project implementation. They represent a mix of instream, out-of-stream, municipal, agricultural, conservation, agency, and community interests.

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Gilliam Soil and Water Conservation District - This organization co-convenes the Work Group and represents instream and out of stream interests as well as implements projects.

Mid John Day Watershed Council - This organization co-convenes the Work Group and represents in stream and out of stream interests as well as implements projects.

Wheeler Soil and Water Conservation District - This organization co-convenes the Work Group and represents in stream and out of stream interests as well as implements projects.

Sherman Soil and Water Conservation District - This organization is an active participant in the Work Group and represents in stream and out of stream interests as well as implements projects.

Water Watch of Oregon This organization is an active participant in the Work Group and represents in stream interests.

Sustainable Northwest - This organization supports the Work Group through facilitation

Oregon Water Resources Department - This organization participates in the Work Group and represents government interests.

Oregon Department of Fish and Wildlife - This organization participates in the Work Group and represents government and instream interests.

Department of Environmental Quality - This organization participates in the Work Group and represents government and instream interests.

Gilliam County Cattleman - This organization participates in the Work Group and represents agricultural interests.

Wasco SWCD - This organization participate in the Work Group and represents instream and out of stream interests as well as implements projects.

NRCS- This organization participates in the Work Group and represents agricultural interests.

Which plan strategies will be the focus over the next two years? *

The Lower John Day Basin Integrated Water Resource Plan identified 19 critical issues and 46 strategies organized into seven resource areas: Riparian, Instream and Aquatic Restoration; Upland Management and Restoration, including irrigation; Off-Channel Storage; Municipal and Domestic Water; Data Collection, Monitoring, and Feasibility; Outreach and Education; and Funding and Policy Options.

Phase I of the Original Work Plan implementation was scheduled to occur from 2022 through 2025 and focus on the top five critical issues: poor riparian habitat; elevated summer stream temperatures and low instream oxygen; insufficient instream flow; storage needs; and degraded native plant communities. Work on these priorities remains important and will continue through Task 2 of this grant.

Over the next two years, the Work Group will also increase coordination emphasis on Phase II of the Original Work Plan critical issues (originally planned to occur from 2025-2027): insufficient efficient irrigation infrastructure; inadequate gauge data; outdated and insufficient municipal water and wastewater infrastructure; lack of data on groundwater aquifers and groundwater/surface water interactions; and fish passage barriers. These priorities will be addressed through Task 3.

Task 1 (facilitation and project management) and Task 4 (plan updates) will be informed by tasks 2 and 3.

See attached Appendix C spreadsheet from the original plan for full list of strategies, phasing information, and prioritization.

See attached Implementation Strategies spreadsheet for details on focus areas over the next two years as summarized below:

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The Lower John Day Plan Implementation Strategies spreadsheet shows that the Work Group is actively tracking implementation of the 19 critical issues identified in The Lower John Day Basin Integrated Water Resource Plan. The strategies are organized by implementation phase and include short-term, medium-term, and long-term actions.

The spreadsheet shows progress on key priorities such as riparian restoration, stream temperature, instream flow, natural storage, native plant communities, irrigation efficiency, municipal water needs, groundwater data, gauge data, fish passage, wildfire resilience, forest health, soil health, and domestic water concerns. It also identifies responsible partners, project status, funding needs, and potential funding sources.

This document demonstrates that the Work Group has moved beyond planning and is actively coordinating implementation. It also shows why continued Post-Plan Coordination funding is needed. The grant will help maintain partner coordination, quarterly meetings, project tracking, field tours, progress reporting, and preparation of priority strategies for future funding and implementation.

In the attachments section, please attach a complete list of implementation plan strategies/actions/solutions from the state-recognized plan. Include available information for each strategy, such as the critical issue it addresses, implementation leader(s), expected timeline for implementation, important milestones, or potential funding sources.

You may upload your own list or use [this spreadsheet](#).

Please describe progress made towards plan implementation. *

This may include grants you have applied for, ongoing projects, or completed projects. For each project listed, provide a brief project summary and identify the corresponding strategy/action/solution, the project leader, funding sources (secured/applying/unsuccessful), whether it addresses groundwater, surface water, water quality, water quantity, ecosystem needs, instream, and/or out-of-stream issues, and project metrics (if applicable). If using a table, you may upload your own list or the spreadsheet provided in the attachments section.

The Work Group has made substantial progress since state recognition of the plan by continuing implementation coordination and advancing several priority actions that support both instream and out-of-stream water interests. Implementation coordination has been led by Gilliam SWCD, Mid John Day Watershed Council, and Work Group partners, with support from American Rescue Plan Act, Oregon Watershed Enhancement Board, and partner match. This work has allowed the Work Group to continue meeting, track action items, review Strategic Action Plan progress, and coordinate implementation of strategies associated with Critical Issues 1 through 5 (See appendix C). The Work Group has also advanced a Batched Biological Assessment for low-tech process-based restoration, which supports strategies related to poor riparian habitat, elevated stream temperatures, instream flow, and floodplain reconnection. This work is still in progress and is expected to improve permitting efficiency for future restoration activities such as beaver dam analogs, beaver restoration, and floodplain reconnection. In addition, the Rock Creek / Butte Creek Watershed Management Plan has supported LiDAR reconnaissance and management planning to identify priority restoration areas and prepare future projects related to riparian restoration, floodplain reconnection, native vegetation, water quality, and stream temperature. The Work Group has also supported an Irrigation

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Efficiency Assessment, that was completed in June 2026, which addresses Critical Issue 6 by improving understanding of efficient irrigation infrastructure needs, conservation opportunities, and ways to reduce out-of-stream demand while potentially benefiting instream conditions. Municipal water needs have also been addressed through a Municipal Needs Assessment that was completed in April 2026, which assessed existing conditions and future needs for eight municipalities and supports next steps such as Mitchell source water planning and Fossil/Moro distribution system improvements.

Plan implementation has been enabled through grants from OWRD and our OWEB Focused Investment Partnership Grant. These two complimentary teams - The Work Group and John Day Basin Partnership have worked together to turn \$12M into \$25.3M of restoration basin-wide. Butte-Thirtymile is a focal geography of the Work Group and John Day Basin Partnership. Phase I (of the original work plan) results are basin-wide. The Work Group is applying for this grant, and the Partnership is applying for FIP 2.0 mid-July and are hopeful it carries many of our critical issues into the next phase.

Together, these accomplishments demonstrate progress across instream, ecosystem, agricultural, municipal, domestic, water quantity, and water quality interests. The proposed grant builds on this progress by funding coordination, facilitation, documentation, partner engagement, and biennial progress reporting. These activities will help the Work Group maintain state recognition, demonstrate balanced implementation progress, and prepare priority strategies for future funding without using this grant for direct construction or capital implementation.

See attached implementation project tracking spreadsheet for details on progress as described below:

The Lower John Day Implementation Project Tracking spreadsheet shows active progress on projects connected to The Lower John Day Basin Integrated Water Resource Plan. The tracker includes implementation coordination, assessment work, restoration planning, riparian and upland projects, irrigation efficiency, municipal water needs, fish passage, virtual fencing, wildfire recovery, beaver recovery, and post-fire planning.

The spreadsheet demonstrates that the Work Group and partners are moving plan strategies into action through completed, ongoing, funded, and proposed projects. It also shows a strong mix of instream and out-of-stream benefits, including riparian restoration, floodplain reconnection, stream temperature improvement, fish habitat, irrigation efficiency, municipal infrastructure planning, grazing management, upland resilience, wildfire recovery, and water quality protection.

The tracker identifies project leaders, partners, funding sources, project status, and measurable outcomes. This supports the need for Post-Plan Coordination funding because there are many active projects and partners to coordinate, track, review, and report on. Continued funding will help the Work Group maintain quarterly meetings, review project successes and lessons learned, document implementation progress, support partner coordination, and prepare future projects for funding and implementation.

Community Engagement

In your answer below, please consider the [Place-Based Water Planning Handbook](#): Appendix C. Appendix C includes best practices related to community engagement in Place-Based Water Planning and considerations for developing engagement strategies.

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For this application, an Environmental Justice Community includes communities of color, communities experiencing lower incomes, communities experiencing health inequities, Tribal communities, rural communities, remote communities, coastal communities, communities with limited infrastructure and other communities traditionally underrepresented in public processes and adversely harmed by environmental and health hazards, including seniors, youth and persons with disabilities (ORS 182.535).

Describe your approach to public participation and engagement of environmental justice communities. In your answer, describe any specific strategies you will use to reduce barriers to participation, create transparency, engage underrepresented voices, and build trust. *

The Lower John Day Work Group uses a long-term, relationship-based approach to community engagement. The planning area includes rural and remote communities, communities with limited infrastructure, Tribal interests, lower-income residents, seniors, youth, persons with disabilities, and other people who may be underrepresented in formal public processes or adversely affected by environmental and health hazards. Producers, landowners, and small municipalities are also key water interests and are engaged as essential partners in plan implementation. Consistent with ORS 182.535, the Work Group will consider environmental justice communities to include communities of color, lower-income communities, communities experiencing health inequities, Tribal communities, rural and remote communities, communities with limited infrastructure, seniors, youth, persons with disabilities, and other traditionally underrepresented communities that may be adversely affected by environmental or health hazards. Tribal government engagement will be handled separately and respectfully from general environmental justice outreach. The Work Group will invite and coordinate with Tribal governments consistent with each Tribe's sovereignty, capacity, interests, and preferred method of engagement. The recognized Plan identifies the Confederated Tribes of the Warm Springs Reservation of Oregon as a planning participant and describes interests of the Confederated Tribes of the Umatilla Indian Reservation in the planning area.

Specific approaches to reduce barriers include virtual and in-person meeting options, varied meeting locations, field tours, emailed meeting notes, phone calls, one-on-one outreach, direct contact through trusted local partners, and clear documentation of meeting outcomes and next steps. The Work Group is often most effective when it uses practical local methods such as phone calls, field visits, and direct conversations with people who prefer one-on-one communication over formal public meetings.

Task 1 includes facilitation, outreach, field tour/workshop support, and partner contracted services to support participation by Mid John Day Watershed Council, Wheeler SWCD, and potentially WaterWatch or other partners. This structure is intended to reduce barriers, increase transparency, support underrepresented voices, and build trust through sustained engagement rather than one-time outreach events.

The Work Group is open to using translation services or otherwise supporting partners with language barriers as many deliverables are document based. While this need has not been identified by partners yet, the Work Group would be happy to provide these services if requested by an individual/group or identified by a participant.

Strategic Alignment (Post-Plan Coordination Grants)

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Critical Issues and Actions of the Integrated Water Resources Strategy (IWRS) can be found in the [2025 IWRS](#) or the [2025 IWRS Framework](#).

How will plan implementation help meet Oregon's water resource needs (Goal 2, IWRS)? Specifically what IWRS Critical Issue(s) or Action(s) of the state's Integrated Water Resources Strategy will plan implementation address?*

You may provide an answer here and/or include related IWRS critical issues/actions in the attachment with your plan's strategies.

Implementation of The Lower John Day Basin Integrated Water Resource Plan directly supports Goal 2 of Oregon's Integrated Water Resources Strategy: meeting Oregon's water resource needs. The implementation effort addresses municipal, agricultural, instream, ecological, water quality, water quantity, and data needs through coordinated local action.

This application is especially aligned with IWRS Actions 9.A, 9.B, and 9.C: continuing place-based integrated water resources planning; coordinating implementation of existing natural resource plans; and partnering with federal agencies, Tribes, and neighboring states in long-term water resources management.

Municipal water needs are addressed through continued follow-up from the Municipal Needs Assessment, including coordination related to source water protection, distribution system improvements, and water loss reduction. Instream and ecosystem needs are addressed through continued coordination around low-tech process-based restoration, riparian and floodplain restoration, biological assessment work, streamflow and temperature data, and fish passage. Agricultural water needs are addressed through coordination with willing landowners and irrigators, use of Irrigation Efficiency Assessment findings, and future funding-readiness work for conservation-oriented infrastructure improvements.

This implementation approach aligns with IWRS Goal 2 and Actions 9.A, 9.B, and 9.C. It also supports cycle-specific strategic priorities related to coordinated implementation, drought resilience, data-informed water management, community engagement, and balanced instream and out-of-stream water needs, as applicable in the 2026 solicitation.

Work Plan and Timeline

Identify the tasks you plan to undertake. If your application is awarded grant funding, these tasks will be incorporated into your grant agreement.

Note: Grant administration is not a separate task. All cost match and grant budget funds must apply to the tasks identified below. See OWRD's [Budget Procedures and Allowable Costs document](#) for more information.

Task 1. Title*

Please provide a title for the task.

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Facilitation Capacity and Outreach

Task 1. Schedule*

State the approximate dates during which the task will be completed.

01/01/2027

to

12/31/2028

Task 1. Description*

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

This task supports continued coordination, neutral facilitation, outreach, and partner engagement for implementation of The Lower John Day Basin Integrated Water Resource Plan. It maintains the Work Group as an active, balanced, and collaborative forum for post-plan implementation.

Activities include regular Work Group meetings, agenda development, meeting facilitation, meeting notes, action-item tracking, partner communication, subcommittee coordination, outreach updates, field tours or workshops, and partner contracted services. This task also supports transparency and community engagement through meeting notes, phone calls, direct outreach, and use of trusted local partners. This will be documented in a partnership structure or coordination memo if needed.

This task supports both Phase I (from the original work plan) carry-forward priorities and Phase II (from the original work plan) priorities; therefore, it will occur throughout the entire grant period. For an entire listing of Phase I and Phase II activities, please see Appendix C Work Plan (from the original step 5 report) that is attached and updated with progress for this application.

Task 1. Personnel*

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Gilliam SWCD will lead staff coordination and fiscal oversight. The group-selected facilitator will provide coordination, facilitation support, and documentation. Mid John Day Watershed Council, Wheeler SWCD, and potentially WaterWatch or other approved partners will provide partner contracted services.

Task 1. Anticipated Deliverables*

Include any deliverables that you anticipate resulting from this task.

- Meeting agendas and notes
- Action-item tracking
- Outreach materials or updates

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- Field tour or workshop materials
 - Partner participation documentation
- Partnership structure or coordination memo if needed

Task 2. Title*

Please provide a title for the task.

Continued Support for Implementation of Strategies Addressing Critical Issues 1-5

Task 2. Schedule*

State the approximate dates during which the task will be completed.

01/01/2027

to

12/31/2028

Task 2. Description*

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

This task provides continued coordination for Phase I priorities: poor riparian habitat, elevated summer stream temperatures and low instream oxygen, insufficient instream flow, storage needs, and degraded native plant communities.

Activities may include continued coordination for the Batched Biological Assessment for low-tech process-based restoration readiness; noxious weed and riparian/upland strategy coordination; and revegetation/native plant community coordination. The task supports completion of already-started work and prepares future restoration actions for implementation by other funding sources.

Specific project work includes:

Complete needed revisions to the low tech process based restoration Batched Biological Assessment; continue supporting low tech process based restoration implementation to restore native fish habitat and stream flow (Critical Issue 1 and 3)

Control Noxious Weeds (support providing new info to ODA Weedmapper and removal <https://geo.maps.arcgis.com/apps/webappviewer/index.html?id=54e9b0eaacb34bc4a146a33faa9f8966>) (Critical Issue 5)

Develop revegetation plan through DEQ 319 grant process to address degraded native plant communities (Critical Issue 5)

This task supports Phase I (from the original work plan) carry-forward priorities and while each discrete task will be accomplished in phases, this overall support will occur throughout the entire grant period. Additional Phase I priorities will be developed into action items as workload and partner capacity allows.

Place-Based Water Planning

07/01/2026

Task 2. Personnel*

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Gilliam SWCD will provide staff coordination and oversight. The group-selected facilitator will provide coordination support and documentation. Partner organizations will provide review and coordination through Work Group participation and match.

Task 2. Anticipated Deliverables*

Include any deliverables that you anticipate resulting from this task.

- Biological Assessment coordination materials
- Low Tech Process Based Restoration coordination notes
- Noxious weed strategy coordination summary
- Revegetation planning coordination summary
- Phase I (of original work plan) funding-readiness notes

Task 3. Title

Please provide a title for the task.

Support for Implementation of Strategies Addressing Critical Issues 6-10

Task 3. Schedule

State the approximate dates during which the task will be completed.

01/01/2027

to

12/31/2028

Task 3. Description

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

This task supports implementation coordination for Phase II priorities: insufficient efficient irrigation infrastructure, inadequate gauge data, outdated and insufficient municipal water and wastewater infrastructure, lack of data on

Place-Based Water Planning

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groundwater aquifers and groundwater/surface water interactions, and fish passage barriers. These priorities were placed in Phase II originally because they were more difficult to implement and would benefit from the lessons learned through Phase I implementation.

Activities may include irrigation efficiency coordination; gauge prioritization and funding-pathway planning; municipal infrastructure coordination; groundwater next-step memo development; and fish passage barrier coordination. The task will use information from the Irrigation Efficiency Assessment and Municipal Needs Assessment to support partner coordination and implementation readiness.

Specific project work includes:

Gauge prioritization list and funding-pathway memo - the plan and funding request will include prioritization for additional temperature and stream gauges (Critical Issue 7 Inadequate Gauge Data)

Municipal coordination summary - Mitchell Municipal Infrastructure support -(Critical Issue 8: Outdated and insufficient municipal water and wastewater infrastructure) -deliverable will include in-kind support to help with juniper removal and spring protection.

Groundwater next-step memo - (Critical Issue 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water)

Fish passage barrier list and assistance plan - (Critical Issue 10: Fish passage barriers)

This task will not fund irrigation construction, gauge installation, municipal construction, groundwater well installation, fish passage construction, engineering design, or preparation of ineligible funding applications. Any future funding applications would be prepared with this and other eligible resources if needed.

This task supports Phase II (from the original work plan) priorities and while each discrete task will be accomplished in phases, this overall support will occur throughout the entire grant period. Additional Phase II priorities will be developed into action items as workload and partner capacity allows.

Task 3. Personnel

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Gilliam SWCD will provide staff coordination and oversight. The group-selected facilitator will provide coordination support, documentation, and funding-readiness support. Partner organizations, agencies, municipalities, landowners, and technical experts will provide input and review.

Task 3. Anticipated Deliverables

Include any deliverables that you anticipate resulting from this task.

- Gauge prioritization list and funding-pathway memo
- Municipal coordination summary

Place-Based Water Planning

07/01/2026

- Groundwater next-step memo
- Fish passage barrier list and assistance plan
- Critical Issues 6-10 partner coordination summaries

Task 4. Title

Please provide a title for the task.

Implementation Updates and Adaptive Management

Task 4. Schedule

State the approximate dates during which the task will be completed.

01/01/2028

to

12/31/2028

Task 4. Description

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

This task supports implementation tracking and adaptive management materials after progress has been made on Tasks 1 through 3. The task is focused on documenting progress, updating tracking information, and organizing next steps for continued implementation.

Activities are limited to documenting implementation progress, updating the Strategic Action Plan tracking information, re-sequencing priorities, identifying remaining coordination needs, summarizing lessons learned, preparing biennial progress reporting materials, and supporting continued state recognition. This task will not develop new planning strategies beyond the recognized plan; it will update implementation tracking and priorities based on progress and adaptive management.

The task also supports the Work Group's biennial progress reporting obligation to OWRD and helps demonstrate that implementation remains balanced and aligned with the recognized plan.

This task is anticipated to occur after the bulk of Task 2 and Task 3 are complete, so will take place in the second half of the grant period.

Task 4. Personnel

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Place-Based Water Planning

07/01/2026

Gilliam SWCD will provide staff coordination and final review. The group-selected facilitator will provide documentation and tracking update support. Partner organizations will provide review and input through the Work Group.

Task 4. Anticipated Deliverables

Include any deliverables that you anticipate resulting from this task.

- Updated Strategic Action Plan tracking materials
- Implementation progress summary
- Priority re-sequencing and next-step summary
- Biennial reporting support materials
- Final grant closeout summary

Do you have another Task to include?*

Yes

No

If funded, when do you anticipate completing the proposed tasks?*

Grant activities should be completed within 2 years of the grant agreement's effective date.

12/31/2028

Budget Instructions

Direct Costs are expenses that can be specifically assigned to the project tasks identified in the grant agreement. These costs fall into seven categories:

1. Staff Salary/Benefits
2. Contractual/Consulting
3. Supplies
4. Materials
5. Travel
6. Equipment (*must be approved*)

7. Other, including but not limited to: permit costs, meeting room rental, project-specific printing costs, non-travel related business meals, and stipends. For more details, refer to the [Grant Budget Procedures and Allowable Costs document](#).

Indirect costs are general overhead expenses that support the overall operation of the organization but cannot be easily attributed to a specific project or activity. Examples of indirect costs include rent and utilities (including telephone and internet services); accounting, administrative support, and human resources; and office supplies.

OWRD will reimburse indirect costs at a rate of **up to 15%**, applied to **eligible direct costs**. Indirect cost reimbursement is not allowed on capital expenditures, stipends, or the portion of any subcontract exceeding \$25,000.

Matching Funds, or cost match, are financial or in-kind contributions provided by the grantee or project partners to support the project. Match may be **pending** or **secured** at the application stage. Before grant funds are reimbursed, grantees must provide proof that the match is secured. Match can take two forms: cash match and in-kind match.

Instructions: Please complete the tables in the next section, "Budget and Match Funding", with information about the grant funds requested and match funds (examples below). Refer to the [Grant Budget Procedures and Allowable Costs document](#) for a description of budget categories, cash vs. in-kind match, and further guidance.

Notes:

- There are two tables for each budget category (e.g., staff salary/benefits, contractual/consulting, etc.).
 - Direct costs table
 - Indirect costs table. Please do not include indirect costs on capital expenditures, stipends or the portion of any subcontract exceeding \$25,000.
- In the "Type of Match" column, indicate whether the match is cash or in-kind.
- In the "Match Description" column, include the match source name and whether match is pending or secured.

Staff Salary Benefits - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Gilliam SWCD	\$15,565.40	District Manager Staff time 223 hours @ \$69.80	\$6,250	In-Kind	District Manager Staff time 89.54 hours @ \$69.80- Gilliam Secured	\$21,815.40
2	2	Gilliam SWCD	\$15,581.60	Office Manager Staff time 278 hours @ \$56.05	\$6,250	In-Kind	Office Manager Staff time 111.51 hours @ \$56.05- Gilliam Secured	\$21,831.60
Category Total			\$ 31,147		\$ 12,500			\$ 43,647

Staff Salary Benefits - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Gilliam SWCD S/B Indirect	\$4,671.75	15% of Salaries, Benefits and Wages	\$0			\$4,672
Category Total			\$ 4,672		\$ -			\$ 4,672

Contractual/Consulting - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Consultant	\$75,000.00	Facilitation and project management tasks.				\$75,000.00
2	2	Mid John Day Watershed Council	\$10,010.00	Mid JD WC 154 hours @ \$55.00 participate in meetings and tasks	\$12,500.00	in kind	Mid JD WC 227.27 hours @ \$55.00- Secured MJDWC	\$22,510.00
3	3	Wheeler SWCD	\$9,988.44	WSWCD 154.18 hours @ \$64.86 participate in meetings and tasks	\$12,500.00	in kind	WSWCD hours 192.72 @ \$64.86- Secured WSWCD	\$22,488.44

Contractual/Consulting - Direct (cont'd)

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
4	4	Partners	\$9,957.81	Partners participate in meetings and tasks- approximately 200hrs at \$50 which is data pulled from OWRD Independent Sector Rate (\$37) plus fringe benefits.				\$9,957.81
Category Total			\$ 104,956		\$ 25,000			\$ 129,956

Contractual Consulting - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Consultant	\$3,750	15% indirect on first 25,000				\$3,750.00
2	2	Mid John Day Watershed Council	\$1,501.50	15% indirect on first 25,000				\$1,501.50
3	3	Wheeler SWCD	\$1,498.27	15% indirect on first 25,000				\$1,498.27
4	4	Partners	\$750.23	15% indirect on first 25,000				\$750.23
Category Total			\$ 7,500		\$ -			\$ 7,500

Supplies - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Supplies	\$1,500.00	Meeting and outreach supplies such as sign-in materials, maps, flip charts, printed materials, and similar coordination needs.				\$1,500.00
	Category Total		\$ 1,500		\$ -			\$ 1,500

Supplies - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	1	Supplies	\$225.00	15% of first \$25,000				\$225.00
	Category Total		\$ 225.00		\$ -			\$ 225.00

Materials - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Materials - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Travel - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Travel - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Equipment - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Equipment - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Other - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

Other - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								\$0.00
	Category Total		\$ -		\$ -			\$ -

	Totals		\$ 150,000		\$ 37,500			\$ 187,500
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Does your budget request include stipends? (If yes, list them under the 'Other' Direct Costs budget category above. Note that indirect cost reimbursement is not allowed on stipends.)*

A stipend is a fixed monetary payment provided to individuals as compensation for participation in specific activities related to a grant-funded project. Unlike wages or salaries, stipends are not tied to hourly work but are intended to offset costs associated with time, effort, or participation in eligible project activities. In the context of OWRD grants, stipends help support equitable participation by reducing financial barriers by compensating individuals for their contributions to planning and engagement efforts.

Yes

No

Letter of Support Request - Debbi Bunch

You have received a request to provide a Letter of Support for an applicant submitting a grant application for the Oregon Water Resources Department's Place-Based Water Planning Fund.

Your letter should highlight your relationship to the application and explain why you support their application.

First Name*

Last Name*

Debbi

Bunch

Role or Title

Email Address*

Executive Director

debbi@midjohndaywatershed.org

Phone Number

541-420-4479

Organization*

Mid John Day Watershed Council



Mid John Day Watershed Council

PO Box 265

Spray, Oregon 97874

541-420-4479

<https://www.midjohndaywatershed.org/>

June 29, 2026

Oregon Water Resources Department-
Place Based Water Planning Grant Program

Re: Letter of Support and In-Kind Match Commitment for the Lower John Day Post-Plan Coordination Grant Application

To Whom It May Concern:

On behalf of Mid John Day Watershed Council, I am pleased to provide this letter of support for Gilliam Soil and Water Conservation District's application for Oregon Water Resources Department Place-Based Water Planning Post-Plan Coordination funding for the Lower John Day Work Group.

Mid John Day Watershed Council supports continued implementation coordination for the Lower John Day Basin Integrated Water Resource Plan. This funding will help the Work Group continue facilitation, partner coordination, outreach, implementation tracking, Strategic Action Plan updates, biennial progress reporting, and preparation of priority strategies for future implementation funding. These activities are important to maintaining a balanced, locally led process that supports both instream and out-of-stream water needs in the Lower John Day Basin.

As part of this application, Mid John Day Watershed Council intends to provide in-kind match through staff participation in Work Group meetings, coordination calls, review of materials, technical input, outreach support, field tour or workshop participation, and other implementation coordination activities. This contribution includes staff time of 227.27 hours at \$55.00 per hour, for a total in-kind match value of \$12,500.00. This in-kind contribution will support the goals of the grant by helping the Work Group maintain active partner participation, document progress, coordinate across water interests, and advance implementation of the recognized plan. Mid John Day Watershed Council understands that documentation of in-kind contributions may be required and will work with Gilliam SWCD to provide reasonable records of eligible time and participation, as needed.

We appreciate OWRD's continued support for place-based water planning and encourage funding of this application.

Sincerely,

Debbi Bunch
Executive Director
Mid John Day Watershed Council
541-420-4479
debbi@midjohndaywatershed.org

Contribution	Estimated Hours	Rate	Match Value
Staff participation	227.27 hours	\$55.00 per hour	\$12,500.00
Total In-Kind Match	227.27 hours		\$12,500.00

Mid John Day Watershed Council does not and shall not discriminate on the basis of race, color, religion (creed), gender, gender expression, age, national origin (ancestry), disability, marital status, sexual orientation, or military status, in any of its activities or operations.

Letter of Support Request - Cassi Newton

You have received a request to provide a Letter of Support for an applicant submitting a grant application for the Oregon Water Resources Department's Place-Based Water Planning Fund.

Your letter should highlight your relationship to the application and explain why you support their application.

First Name*

Cassi

Last Name*

Newton

Role or Title

District Manager

Email Address*

administration@wheelerswcd.org

Phone Number

5414682990

Organization*

Wheeler SWCD

Letter of Support*



Wheeler_SWCD_InKind_Match_Letter_of_Support_Professional signed.pdf

LETTER OF SUPPORT AND IN-KIND MATCH COMMITMENT

Lower John Day Post-Plan Coordination Grant Application

Wheeler Soil and Water Conservation District

June 29, 2026

Oregon Water Resources Department
Place-Based Water Planning Grant Program

RE: Letter of Support and In-Kind Match Commitment for the Lower John Day Post-Plan Coordination Grant Application

To Whom It May Concern:

On behalf of Wheeler Soil and Water Conservation District, I am pleased to provide this letter of support for Gilliam Soil and Water Conservation District's application for Oregon Water Resources Department Place-Based Water Planning Post-Plan Coordination funding for the Lower John Day Work Group.

Wheeler Soil and Water Conservation District supports continued implementation coordination for the Lower John Day Basin Integrated Water Resource Plan. This funding will help the Work Group continue facilitation, partner coordination, outreach, implementation tracking, Strategic Action Plan updates, biennial progress reporting, and preparation of priority strategies for future implementation funding. These activities are important to maintaining a balanced, locally led process that supports both instream and out-of-stream water needs in the Lower John Day Basin.

As part of this application, Wheeler Soil and Water Conservation District intends to provide in-kind match through staff participation in Work Group meetings, coordination calls, review of materials, technical input, outreach support, field tour or workshop participation, and other implementation coordination activities. This contribution includes District Manager staff time valued at 192.72 hours at \$64.86 per hour, for a total in-kind match value of \$12,500.00.

This in-kind contribution will support the goals of the grant by helping the Work Group maintain active partner participation, document progress, coordinate across water interests, and advance implementation of the recognized plan. Wheeler Soil and Water Conservation District understands that documentation of in-kind contributions may be required and will work with Gilliam SWCD to provide reasonable records of eligible time and participation, as needed.

We appreciate OWRD's continued support for place-based water planning and encourage funding of this application.

Sincerely,

Cassi
Newton

Digitally signed by
Cassi Newton
Date: 2026.06.29
09:51:16 -07'00'

Cassi Newton
District Manager
Wheeler Soil and Water Conservation District
541.468.2990 option 1
administration@wheelerswcd.org

In-Kind Match Summary

Contribution	Estimated Hours	Rate	Match Value
District Manager staff time	192.72 hours	\$64.86 per hour	\$12,500.00
Total In-Kind Match	192.72 hours		\$12,500.00

Place-Based Water Planning

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Letter of Support Request - Brent Smith

You have received a request to provide a Letter of Support for an applicant submitting a grant application for the Oregon Water Resources Department's Place-Based Water Planning Fund.

Your letter should highlight your relationship to the application and explain why you support their application.

First Name*

Brent

Last Name*

Smith

Role or Title

AgWQ Regional

Email Address*

Brentton.smith@oda.oregon.gov

Phone Number

9714582761

Organization*

Oregon department of agriculture

Letter of Support*

 20260622_ICSLJDWG - ODA Support Letter.pdf



**OREGON
DEPARTMENT OF
AGRICULTURE**

Protect. Promote. Prosper.

635 Capitol St NE, Salem, OR 97301-2532
503.986.4700 | Oregon.gov/ODA

June 22, 2026

Oregon Watershed Enhancement Board
775 Summer Street NE, Suite 360
Salem, OR 97301

Dear Oregon Water Resources Department,

As the Water Quality and SWCD Program Manager for the Oregon Department of Agriculture (ODA), I am writing to express strong support for the Gilliam Soil and Water Conservation District's Post-Plan Coordination (PPC) grant application for implementation of the Lower John Day Basin Integrated Water Resource Plan.

The Lower John Day Work Group continues to demonstrate strong, locally led collaboration. This PPC grant will support essential coordination, partner engagement, implementation tracking, facilitation, and adaptive management activities that align closely with ODA's priorities for agricultural water quality, watershed condition, and water temperature management.

ODA remains committed to participating in quarterly coordination and technical discussions focused on agricultural water quality, temperature mitigation, and watershed conditions. This coordination effort also complements ongoing restoration, irrigation efficiency planning, municipal assessments, and riparian recovery efforts throughout the Lower Basin. Maintaining momentum following state recognition of the plan is essential, and this grant represents a timely investment in continued collaborative water management.

Thank you for considering this proposal. ODA values our strong partnerships in the Lower John Day and looks forward to continued cooperation supporting both instream and out-of-stream water needs.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Fenn".

Kevin Fenn
Water Quality Program Manager
Natural Resources Division
(503) 510-8214

Place-Based Water Planning

07/01/2026

Letter of Support Request - Norie Wright

You have received a request to provide a Letter of Support for an applicant submitting a grant application for the Oregon Water Resources Department's Place-Based Water Planning Fund.

Your letter should highlight your relationship to the application and explain why you support their application.

First Name*

Norie

Last Name*

Wright

Role or Title

Office Manager

Email Address*

norie@gilliamswcd.gov

Phone Number

5417920941

Organization*

Gilliam SWCD

Letter of Support*

 Gilliam_SWCD_InKind_Match_Letter_of_Support_signed.pdf

LETTER OF SUPPORT AND IN-KIND MATCH COMMITMENT

Lower John Day Post-Plan Coordination Grant Application

Gilliam Soil and Water Conservation District

6/29/2026

Oregon Water Resources Department
Place-Based Water Planning Grant Program

RE: Letter of Support and In-Kind Match Commitment for the Lower John Day Post-Plan Coordination Grant Application

To Whom It May Concern:

On behalf of Gilliam Soil and Water Conservation District, I am pleased to provide this letter of support for Gilliam Soil and Water Conservation District's application for Oregon Water Resources Department Place-Based Water Planning Post-Plan Coordination funding for the Lower John Day Work Group.

Gilliam Soil and Water Conservation District supports continued implementation coordination for the Lower John Day Basin Integrated Water Resource Plan. This funding will help the Work Group continue facilitation, partner coordination, outreach, implementation tracking, Strategic Action Plan updates, biennial progress reporting, and preparation of priority strategies for future implementation funding. These activities are important to maintaining a balanced, locally led process that supports both instream and out-of-stream water needs in the Lower John Day Basin.

As part of this application, Gilliam Soil and Water Conservation District intends to provide in-kind match through staff participation in Work Group meetings, coordination calls, review of materials, technical input, outreach support, field tour or workshop participation, and other implementation coordination activities. This contribution includes District Manager staff time valued at \$89.54 hours at \$69.80 per hour for \$6,250.00 and Office Manager staff time valued at 111.51 hours at \$56.05 per hour for \$6,250.00, for a total in-kind match value of \$12,500.00.

This in-kind contribution will support the goals of the grant by helping the Work Group maintain active partner participation, document progress, coordinate across water interests, and advance implementation of the recognized plan. Gilliam Soil and Water Conservation District understands that documentation of in-kind contributions may be required and will work with Gilliam SWCD to provide reasonable records of eligible time and participation, as needed.

We appreciate OWRD's continued support for place-based water planning and encourage funding of this application.

Sincerely,

 6/29/26

—
Herb Winters
District Manager
Gilliam Soil and Water Conservation District
541-384-2672 Ext. 110
Herb@gilliamswcd.gov

In-Kind Match Summary

Contribution	Estimated Hours	Rate	Match Value
District Manager staff time	89.54 hours	\$69.80 per hour	\$6,250.00
Office Manager staff time	111.51 hours	\$56.05 per hour	\$6,250.00
Total In-Kind Match	201.05 hours		\$12,500.00

Place-Based Water Planning

07/01/2026

Letter of Support Request - Brian Posewitz

You have received a request to provide a Letter of Support for an applicant submitting a grant application for the Oregon Water Resources Department's Place-Based Water Planning Fund.

Your letter should highlight your relationship to the application and explain why you support their application.

First Name*

Brian

Last Name*

Posewitz

Role or Title

Staff Attorney

Email Address*

brian@waterwatch.org

Phone Number

5034328249

Organization*

WaterWatch of Oregon

Letter of Support*

 260630 LT to OWRD supporting JDPBP grant.pdf



WaterWatch of Oregon

Protecting Natural Flows in Oregon Rivers

June 30, 2026

Oregon Water Resources Department
725 Summer St NE A
Salem, OR 97301

Re: Lower John Day Post-Plan Coordination Grant

Dear Water Resources Department:

WaterWatch of Oregon is a non-profit river conservation organization, founded in 1985, dedicated to protection and restoration of Oregon's rivers and aquifers to sustain fish, wildlife, recreation and other public uses of Oregon's waters. WaterWatch has members across Oregon who care deeply about Oregon's rivers, their inhabitants and the effects of water laws and policies on these resources.

WaterWatch has participated in the place-based planning process for the Lower John Day Basin since 2016. The process produced an integrated water resources plan that was recognized by the Water Resources Commission in 2022. Since then, core members of the collaborative, including WaterWatch, have continued meeting to collaboratively implement the place-based plan.

WaterWatch supports the Lower John Day Post-Plan Coordination Grant application. The requested grant would facilitate continued implementation of the Lower John Day Basin place-based plan, resulting in improved management of the basin's water resources in a way that effectively balances in-stream and out-of-stream water needs.

Thank you for considering our comments.

Sincerely,

Brian Posewitz

Brian Posewitz
Staff Attorney

Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants)

Required Attachments

State-Recognized Plan*

 Step 5 Report.pdf



The Lower John Day Basin Integrated Water Resource Plan

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John Day scenery (istockphoto.com photo credit)

Executive Summary

The Lower John Day Placed-Based Partnership (Work Group) consists of 17 parties¹ working together over the last six years (2016-2022) to help plan for future instream and out-of-stream water needs in the Lower John Day Sub-Basin (Lower Basin). This Lower John Day Basin Integrated Water Resource Plan (Step 5 Report or Plan) as well as the previous three reports, which were used to assemble this final Plan, can be found on our website: <https://www.lowerjohndaypbp.com/>. The planning process examined existing conditions and expected future water needs in the Lower Basin, identified critical water resource issues in the Lower Basin, and developed integrated strategies to address those critical issues. Consistent with Place-Based planning guidance, the planning process was conducted within the framework of existing laws (statutes and rules) and did not consider changes to those laws.

One of the 17 Work Group representatives is the Confederated Tribes of the Warm Springs Reservation of Oregon (CTWSRO). The reservation is located within the north-central part of Oregon and consists of 640,000 acres, many of which are in the planning area. These ceded lands and the CTWSRO's ongoing restoration efforts to improve fish habitat in the Lower Basin is an important part of maintaining cultural foods and fish populations to ensure harvest opportunities for tribal members. Also in the planning area are the Confederated Tribes of the Umatilla Indian Reservation (CTUIR). Acknowledged aboriginal title lands cross the John Day River near the North Fork of the John Day River and John Day River at Kimberly, Oregon, and travel northward to Willow Creek and its confluence with the Columbia River before following the Columbia River upstream.

The planning area was defined to include only the Lower Basin below the confluence of the North Fork John Day River. The Work Group recognizes that flows in the lower mainstem John Day River depend heavily on flows from the Upper Basin, as the Lower Basin produces only approximately 5.6 percent of the total annual surface water yield, despite covering 40 percent of the overall John Day Basin (Step 2 Report, p. 68).

Historical descriptions indicate that the John Day River was once a relatively stable and healthy river with natural riverine processes and habitats. However, like much of the western United States, watershed conditions in the John Day Basin have changed significantly over the past 150 years. A myriad of water and land use practices, including mining, livestock grazing, riverine habitat degradation, and invasive species, have contributed to these changes. Additionally, the region is experiencing rising temperatures, increasing incidents and extent of drought, and increased fire frequency. These disturbances have impaired water quality in hundreds of stream miles, degraded riparian corridors and disconnected floodplains, reduced biodiversity and fish populations, and changed the structure and function of upland habitats (Step 2 Report, p. 23).

These and other influences across the Lower Basin led to a planning process to help improve conditions to meet instream and out-of-stream water needs and demands. Coordination with multiple stakeholders and agencies and adequate funding are critical to meet the challenges facing the Lower Basin.

¹ The parties include government entities and agencies, Native American tribes, industry representatives, and non-governmental organizations. Some participants were initially active but became inactive over time, while others joined later in the process.

The following Plan provides recommended strategies for addressing critical water resources issues identified by the Work Group, now and into the future, in cooperation and coordination with other Lower Basin planning efforts.

Key findings of the Work Group include:

- Municipal, industrial, and commercial out-of-stream water demand is not expected to see significant increases due to the projected low population growth and existing industrial and commercial enterprises.
- Water is not likely available for new surface water appropriations from July through October. Water may be available for appropriation from January through May.
- Few of the Lower Basin's tributary streams have instream water rights, and the instream water rights that do exist, for the mainstem and some tributaries, do not protect flows sufficient to meet all ecological needs.
- Available flows are insufficient to meet several Water Availability Basins' (WABs) monthly/biweekly water demands, most notably the months from July to October.
- High water temperature is the most significant water quality issue in the Lower Basin.
- The vast majority of the irrigation comes from surface waters of the mainstem and its tributaries. Agricultural water use can play a major role in modifying local and regional hydrology.
- Additional climate change scenarios should be modeled and tracked. Changes in hydrograph curves due to loss of and/or earlier snowmelt and increasing summer temperatures are likely to increase lethal conditions for fish that depend on cold water.

A Strategic Action Plan shown in Chapter 5 provides a roadmap of recommended strategies to address the 19 Critical Issues identified by the Work Group. Issues ranked by the group as top Critical Issues (top 5) were:

- Poor riparian habitat
- Elevated summer stream temperatures and low instream oxygen
- Insufficient instream flow
- Storage needs
- Degraded native plant communities

Top strategies, which were ranked within general categories and not collectively, included (one for each Critical Issue above):

- Protect, enhance, and/or restore native riparian vegetation
- Maintain and increase stream flows (to address elevated stream temperatures)
- Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect a portion of water saved instream)
- Complete a feasibility study to assess potential off-channel water storage projects, including (a) potential locations for storage projects and (b) water availability, including consideration of all categories of instream flow needs (as recognized in the Step 3 Report)
- Restore upland function by improving plant communities with juniper removal and planting appropriate perennial bunchgrasses, shrubs, and forbs

The justification for the above findings and recommended actions as well as others found in this Plan are made from a multi-year, multi-stakeholder effort committed to seeking public input and engagement. Agricultural stakeholders, landowners, conservation groups and local districts, and state and federal agencies all participated in identifying the most Critical Issues facing the Lower John Day and participated in developing strategies or actions that will help improve conditions. Evidence

was found from peer reviewed science documented throughout the plan, and support was provided from state and federal agency experts and scientists from regional conservation organizations. Collectively, the Work Group and the supporting community assembled and analyzed data found in the Work Group Reports from Steps 2 to 4 that support a list of findings and recommendations found in Chapter 5 of this Plan.

Prior to finalizing and approving the Lower John Day Basin Integrated Water Resource Plan, the Work Group reviewed and incorporated comments from the fall 2021 public comment period as well as the Agency Review Team winter 2021-22. Final edits were invited by the Work Group in spring 2022. Finally, the Work Group approved and finalized the Integrated Resource Plan with full consensus in May 2022 (see Appendix E, Declaration of Cooperation Signatories Approval of Lower John Day Integrated Water Resource Plan) and approved by and submitted to Oregon's Water Resources Commission in June 2022.



John Day scenery (istockphoto.com photo credit)

Terms and Definitions

Unless the context requires otherwise, the following abbreviations and terms have the following meaning:

Acre-foot: The volume of water covering 1 acre to a depth of 1 foot.

Consumptive use: Water withdrawn from groundwater or a stream and not returned to the system (e.g., water consumed through evapotranspiration (ET) or transferred out of the watershed and not returned [municipal, agriculture, storage, and others]).

Cubic feet per second (cfs): Volumetric flow rate is equivalent to a volume of 1 cubic foot flowing every second.

Discharge: The volume of water moving down a stream or river per unit of time, commonly expressed in cfs or gallons per day. In general, river discharge is computed by multiplying the area of water in a channel cross section by the average velocity of the water in that cross section.

Evapotranspiration (ET): Water used by plants through a combination of evaporation (liquid water on a surface changing to water vapor) and transpiration (water lost through plant stomata).

Exceedance stream flow: The stream flow exceeded a given percent of the time.

Greenhouse gas emissions: Gases that trap heat in the atmosphere, often measured in carbon dioxide (CO₂) equivalents.

Instream water right: A water right held in trust by the Oregon Water Resources Department (OWRD) for the benefit of the people of the State of Oregon to maintain water in stream for public use.

"Instream water rights" can be created through conversion of minimum perennial stream flows established by administrative rule, applications by selected state agencies, and "transfers" (temporarily or permanently) of water rights for out-of-stream use. As with other water rights, all of these processes for creating instream water rights are subject to public comment and legal challenges.

Instream demand: The amount of instream flow necessary, at each time of year, to support all instream flow needs, including those of aquatic life and recreation.

Natural stream flow: The stream flow expressed in volume per unit of time (cfs or m³/s), that would occur in a natural state, without storage or withdrawal.

Net irrigation water requirement (NIWR): Evapotranspiration minus effective precipitation.

Off-channel storage: According to Oregon Administrative Rule 690-300-0010(31), "off-channel" means outside a natural waterway of perceptible extent which, during average water years, seasonally or continuously contains moving water that flows off the property owned by the applicant and has a definite bed and banks which serve to confine the water. "Off-channel" may include the collection of stormwater runoff, snowmelt, or seepage which, during average water years, does not flow through a defined channel and does not flow off the property owned by the applicant.

Out-of-stream demand: The demand to use, outside of a stream, water that would normally flow in that stream.

Place-Based integrated water resources planning (PBP): Voluntary, locally initiated and led effort in which a balanced representation of water interests in a basin, watershed, or groundwater area work in partnership with the state to build a collaborative and inclusive process, gather information to understand current water resources and identify knowledge gaps, examine current and future instream and out-of-stream water needs, identify and prioritize strategic integrated solutions to meet current and future water needs, and develop a Place-Based plan that serves as a roadmap for meeting water needs and informs future updates to the statewide Integrated Water Resources Strategy (IWRS).

Planning area: Geography that is the focus of the PBP effort.

Recharge (groundwater): The surface water that moves through the unsaturated zone and enters aquifers. Recharge to the water table can be diffuse (precipitation over the land surface) or localized (streams losing water to groundwater within reaches of the stream).

Voting members: Members of the Lower John Day Partnership who have signed the Declaration of Cooperation.

Watershed: The area of land that drains to a single outlet and is separated from other watersheds by a topographic or subsurface drainage divide.

Water availability basin (WAB): Sub-basins delineated by the OWRD for the purpose of computing available water.

Water Availability Reporting System (WARS): A system of computerized data maintained by the OWRD for the purpose of determining OWRD's estimate of "water availability" within a WAB. In general, the system estimates water availability by subtracting instream water rights, water storage, and estimated out-of-stream consumptive uses from estimated natural streamflow.

The OWRD has created and maintains a database of the amount of surface water available for allocation for most of the waters of the state. The database is used to evaluate applications for new uses of surface water. Water availability is the OWRD's term for describing if, in its view, water is "available" for further appropriation. Available is defined as the amount of water that can be appropriated from a given point on a given stream for new out-of-stream consumptive uses. The OWRD typically does this by subtracting existing in-stream water rights, storage, and out-of-stream consumptive uses from the natural stream flow. This methodology does not take into account instream flow needs beyond those reflected by instream water rights, which many waterways do not have and which do not include instream flow needs such as those for habitat formation (peak and ecological flows), even though some contend the OWRD should, and may be legally required, to take those instream flow needs into account.

Water interests: Local governments, tribal governments, utilities, major industries or employers, agriculture and forestry groups, conservation groups, special districts, and state and federal agencies that are located within, serve, or whose members have interest in the planning area.

Water year: For hydrologic purposes, the water year runs from October of one year through September of the next, so winter storm flows are not split between years. (For example, water year 1990 extends from October 1, 1989, through September 30, 1990).

Wildland urban interface area: Populated area where people live in and around forests, grasslands, shrub lands, and other natural areas.

Work Group: Members of the Lower John Day Partnership involved in the planning process.

Introduction

Place-Based integrated water resources planning (Place-Based water planning) is a voluntary, locally initiated and led effort. The purpose of the Place-Based planning effort is to set a process for a balanced representation of water interests to work in partnership with the state to analyze and understand and then develop a plan to meet the instream and out-of-stream water supply needs in the Lower John Day Basin (Lower Basin). In 2015, the OWRD developed [Draft Guidelines](#) that provide a framework for planning. OWRD is a partner in the Work Group and also provides financial, technical, and planning assistance to the Work Group and its subsequent reports and this Lower John Day Basin Integrated Water Resource Plan.

The following planning principles are adapted from the draft Place-Based Planning Guidelines to fit the unique circumstances of the Lower Basin and our local planning process and were developed based on Work Group discussions.

- Maintain a locally initiated and led collaborative process.
- Employ a voluntary, non-regulatory approach in the planning process.
- Use an inclusive process that strives for a balanced representation of Basin water interests.
- Utilize an outside facilitator and facilitated processes.
- Conduct in close partnership with OWRD.
- Include the most current water resource data and scientific concepts.
- Address both instream and out-of-stream needs.
- Cover water quantity, quality, and ecosystem health.
- Build on and integrate existing studies and plans.
- Strive for consensus in decision-making.
- Utilize an open and transparent process that fosters public participation.
- Adhere to IVRS principles, Place-Based Planning Guidelines, and federal, state, and local laws.



Planning Area

Geographic Scope

The Lower Basin in north-central Oregon supports native aquatic fish species and habitat, small rural communities whose economies are centered on agriculture and energy development, and exceptional recreational, historical, and cultural riches. This section compiles and summarizes existing plans, assessments, and other available information to describe the Lower Basin setting. No new data were collected for this section.

The Lower Basin planning area encompasses all of the John Day River Basin downstream of the confluence of the Upper and North Fork John Day Rivers near Kimberly, Oregon (at River Mile 181). It drains an area of 3,149 square miles (over 2 million acres). The majority of the Lower John Day falls within Gilliam, Wheeler, and Sherman Counties, with

smaller portions in Morrow, Wasco, Jefferson, Crook, and Grant Counties. The Lower Basin is situated in the interior plateau between the Blue Mountains to the east and the Cascades Range to

the west. The John Day River flow originates in the Strawberry Mountains (elevation 9,000 feet) and flows generally westward and then northward for approximately 284 miles, discharging into the Columbia River east of Rufus (elevation 200 feet). The John Day Dam on the Columbia River created Lake Umatilla and permanently inundated approximately 9 miles of the John Day River upstream from the mouth.

The climate in the Lower Basin is semi-arid. This large area has highly variable precipitation, land cover, elevation, and evapotranspiration (ET). The area has a continental climate, characterized by low winter and high summer temperatures, low average annual precipitation, and dry summers. The low annual rainfall on the majority of the landscape is characteristic of the Intermountain Region, which receives most precipitation (70 to 80 percent) between November and March. Less than 10 percent of the annual precipitation falls as rain during July and August, usually from sporadic but violent thunderstorms (ODA, 2017).



John Day Fossil Bed formation along irrigated fields in Rowe Creek drainage. (Jeffrey Kee photo credit)

Most surface water is derived from the upper watersheds of the Lower Basin, primarily in the form of melting snow. The North and Middle Forks provide 60 percent of the flow to the mainstem (Northwest Power and Conservation Council [NPCC], 2005). Major tributaries of the Lower John Day include Wallace Canyon, Bridge Creek, Thirtymile Creek, Butte Creek, Rock Creek, Grass Valley Canyon, Pine Hollow, Bear Creek, Dry Creek, and Juniper Creek (ODA, 2017). There are 981 stream miles in the Lower Basin. Section 5 of the [Step 2 Report](#) provides further detail on surface flows.

Plan Organization

The following Integrated Water Resource Plan (Step 5) is a summary of previously published reports starting with Step 1, which began in 2016, through Step 4, completed in 2021. This final Plan was completed in June 2022.

Chapter 1 of this Plan summarizes the Work Group, its members and contributors, governance procedures, and public engagement strategy. Chapter 2 characterizes the state of the water resources including water rights and the Lower Basin's water budget and highlights found data gaps in the planning area. Chapter 3 summarizes current uses and future water demands. Chapter 4 identifies 19 Critical Issues and a list of recommended actions and priority subwatersheds, which will

be referred to throughout this report as WABs. WABs are essentially small watersheds used by OWRD to calculate if water is available for future allocation. There are approximately 30 WABs in the Lower Basin. Their names usually correlate with tributary names. And finally, Chapter 5 summarizes implementation through a Strategic Action Plan.

Chapter I: The Planning Process (Step I)



Members of the Work Group break for lunch on a field tour examining fish passage barriers (Lee Rahr photo credit)

In Chapter I, the Plan summarizes the Work Group, its members and contributors, governance procedures, and public engagement strategy.

Acknowledgments

The Lower John Day Basin Integrated Water Resource Plan represents the dedicated work of many individuals and organizations. In particular, we would like to thank the members of the Lower John Day Basin Work Group (Work Group) and all those who put in extra time and effort serving on a variety of subcommittees. Special thanks to Gilliam County Soil and Water Conservation District (SWCD), Mid John Day-Bridge Creek Watershed Council, and Sustainable Northwest for compiling the data and assembling the first draft of this report. We acknowledge the vital contribution of the authors of the existing plans, assessments, studies, data sets, and other materials that informed this document. Finally, we offer our deep appreciation to OWRD for funding this effort under a Place-Based integrated water resources planning grant, to The Ford Family Foundation for learning partnership funding, and to those group members who offered match funding and countless in-kind hours.

“ODFW and the Warm Springs tribes were critical in better understanding our fisheries resource. We believe our action plan and our coordinated efforts with the JD Partnership puts the Lower John Day on solid footing for improving existing instream conditions.”

– Herb Winters, Gilliam County SWCD Co-Convener



Field trip to observe beaver dam analogs on Bridge Creek, 2018 (Debby Bunch photo credit)

Contributors

This Plan was developed by the Work Group and its subcommittees. Current members of the Work Group include:

- Gilliam County SWCD
- Gilliam-East John Day Watershed Council
- Mid John Day-Bridge Creek Watershed Council
- Natural Resources Conservation Service (NRCS)
- Oregon Natural Desert Association (ONDA)
- Sherman County Area Watershed Council
- Sherman County SWCD
- Gilliam County Cattlemen Association
- WaterWatch of Oregon
- Oregon Department of Environmental Quality (DEQ)
- OWRD
- Confederated Tribes of the Warm Springs
- Wheeler SWCD
- Sustainable Northwest
- The Conservation Angler

The following groups also participated in the planning process:

- Oregon Department of Agriculture (ODA)
- The Freshwater Trust
- Port of Arlington
- Oregon Department of Fish and Wildlife (ODFW)

The following cities participated through field tours, meetings, surveys, and/or public comments processes:

- Arlington
- Condon
- Fossil
- Grass Valley
- Mitchell
- Moro
- Spray

The following groups and individuals provided comments (incorporated) on the Draft Step 5 Plan (9/1/2021):

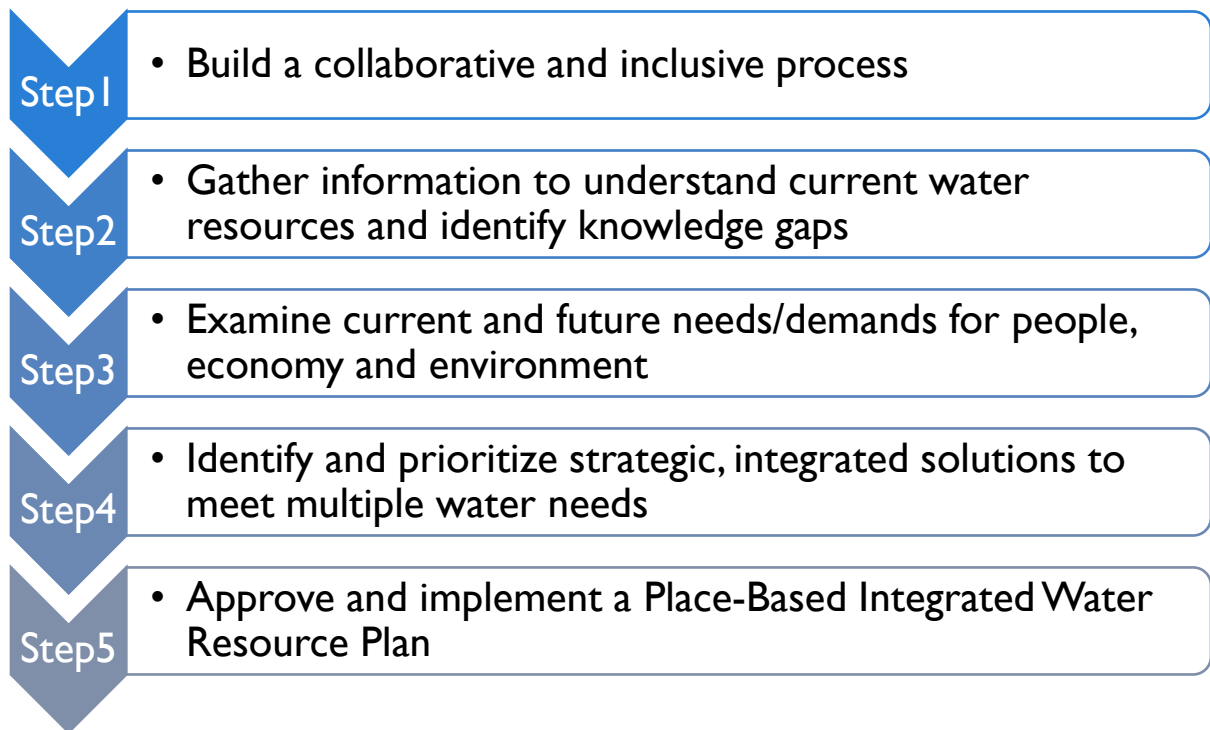
- WaterWatch
- ONDA
- Jeffrey Kee
- DEQ (Roxy Nayar and Smita Mehta)
- OWRD (Steve Parrett)
- The Conservation Angler (Craig Lacy)
- City of Condon
- ODFW
- Bill Marlett
- Native Fish Society

“Water is the most basic of our needs. Over the last five years, the Place Based Planning process has worked to develop a plan to meet that need for people and our environment. The Integrated Water Resource and Action Plan encompasses the work that began with a locally initiated and led effort with close coordination between local stakeholders, watershed councils, and soil and water conservation districts. That effort was quickly expanded and made stronger by the involvement of a balance of representation from regional and statewide interests.”

– Debbi Bunch, Mid John Day-Bridge Creek Watershed Council Co-Convener

Governance and Organizational Structure

In December 2017, the Oregon Water Resources Commission adopted an updated [IWRS](#), a framework for better understanding and meeting instream and out-of-stream water needs, including water quantity, water quality, and ecosystem needs. The IWRS recommended that OWRD help communities undertake a Place-Based approach to integrated water planning. Place-Based integrated water resources planning is a voluntary, locally initiated and led effort in which a balanced representation of water interests in a Basin, watershed, or groundwater area work in partnership with the state to:



OWRD developed draft Place-Based Planning Guidelines that lay out the five-step process for pursuing Place-Based planning efforts. In 2016, OWRD awarded grants to four communities to pilot the Place-Based process. The Work Group applied and was officially awarded funding on February 25, 2016.

The purpose of the integrated plans is to develop a shared understanding of the water quantity, water quality, ecological health, and other conditions in the planning area. This area experiences water supply shortages for instream and out-of-stream uses, which are expected to intensify in the future.

The vision of the Work Group is to help the Lower Basin create the condition for clean, cold water and healthy watersheds to provide for local ecosystems, economies, and communities. The mission of the Work Group is to restore and maintain the Lower Basin for the ecological, economic, social, and cultural well-being of the communities the river supports. Our partners and participants have brought a deep knowledge of the region, best available science, and cooperative planning and fundraising to more actions that establish healthy and resilient native habitats, balanced water use, and working landscapes for future generations. Lower John Day Place-Based Planning participants signed a Declaration of Cooperation and the Gilliam County SWCD has been the official convener and fiscal agent of the Work Group. The Mid John Day-Bridge Creek Watershed Council has been a co-convener since June 2016. A Declaration of Cooperation for the group was signed by 14 partners in April 2017 and three additional groups signed on later in the planning process. Signers of this declaration constitute the voting body and agreed to seek consensus for all decision-making processes. Decisions can be made at any properly noticed meeting by consensus of those in attendance with no quorum requirement. As outlined in the Declaration of Cooperation, each organization is allowed one vote, regardless of the number of representatives in attendance. Consensus minus 10 percent can carry an action.

This Plan helps to implement the State of Oregon's Integrated Water Resources Strategy and related policies. Under Oregon law, all water belongs to the public and is managed in accordance with many state and federal laws and policies. This planning effort will help understand and meet both the water needs of our communities, economy, and environment consistent with existing law and policy and will not jeopardize any existing rights to use water.



Local technical experts from SWCDs, the NRCS, and watershed councils have been working with public and private land managers for decades to improve rangelands and riparian areas and increase water availability (Jeffrey Kee photo credit).

Public Engagement

Initial outreach to form the Work Group was based on the suggested stakeholder list from the Place-Based Planning Guidelines. Initial meetings were well represented by the conservation community that work in the Lower Basin. As the Work Group continued to form, water user groups and interests were identified that were missing. The co-convenors looked at broader stakeholder groups for additional participation and identified possible representatives. Adding staff from three watershed councils and three SWCDs, many of whom are landowners, was a strategy used to ensure a more balanced representation of interests in the Work Group. That staff briefed the board members throughout the process and each provided feedback when necessary, including the identification of Critical Issues and strategies from the Step 3 process. In addition, the group has reached out to the public in multiple ways to ensure as many people are informed and involved as possible.

An outreach committee was formed, and an outreach plan was developed early in the process. It was recognized that many people may not be able to make the regularly scheduled meetings due to work or other responsibilities, so multiple avenues were used to reach people where they were. Work Group members presented information on the Place-Based Planning process and progress to county court and city council meetings, local agricultural group meetings, and SWCD and watershed council boards. A website was developed to serve as a central location to access meeting information and group documents, especially the Step Reports. Surveys were developed and circulated in a variety of ways to collect feedback and information from members of the public.



Cottonwood Canyon public outreach event and Place-Based Planning September 2019 meeting (Lee Rahr photo credit)

Balanced Participation

Balanced participation in the Place-Based planning was a priority for the Work Group. The co-conveners, facilitators, and other group members regularly assessed the participant group to ensure it was as balanced as possible. An email distribution list was created for Work Group members and all interested parties; the list was used to distribute monthly meeting notices, meeting notes, and all draft and final reports and to request public comment on draft reports. The following sectors and interest groups are represented in the distribution list serve:

- Local governments (cities and counties)
- Tribal governments
- Municipal water and wastewater utilities
- Major industries or employers
- Agriculture
- Forestry
- Self-supplied water users
- Conservation/environmental groups
- Power companies
- Small businesses
- Private landowners
- Special districts (e.g., irrigation, public utilities, flood control, parks/recreation, drainage, ports, etc.)
- State and federal agencies (natural resources and management, business development)

Step 1

The original planned convener for the Place-Based Planning process was the John Day Basin Partnership with coordination by the Lower John Day Work Group, a subgroup of the Partnership. Ultimately, the convenorship was held by Gilliam County SWCD with the Mid John Day-Bridge Creek Watershed Council added as a convener. The original members of the Lower John Day Work Group then began the initial outreach to additional stakeholders identified in the Place-Based Planning Guidelines. As outreach for Step 1 (June 2016 to April 2017) continued, the Work Group asked/identified which water users or interests were missing. The Work Group looked at broader stakeholder groups and then identified possible representatives of those groups and reached out to them.

Included in the Declaration of Cooperation are these statements:

Diverse Water Interests active in the Lower John Day planning area are invited to participate in the planning process as members of the Stakeholder Group by becoming a party to this Declaration. Stakeholders that sign the Declaration and fulfill membership requirements will be voting members of the Lower John Day water resource Work Group.

For the purposes of implementing this planning process “Basin Water Interests” will be interpreted to mean local governments, tribal governments, utilities, major industries or employers, agriculture and forestry groups, conservation groups, special districts, and state and federal agencies that are located within, serve, or whose members have interest in the planning area.

Step 2

The Work Group met monthly or every other month throughout the Step 2 process (April 2017 to January 2019). Meeting notices were sent to the distribution list and placed in local newspapers and on the Lower John Day Work Group Facebook page. The Draft Step 2 Report was shared with the public for a 30-day public comment period. During the public comment period, the Work Group held a meeting for the general public in Condon. Copies of the report were available at this meeting, and several Work Group members were selected to speak on a panel about the process. Thirty-seven people attended this meeting. After comments were incorporated into the final draft of the Step 2 Report, it was recirculated to the email list. Hard copies were available at the SWCD offices.

Step 3

Throughout the Step 3 process (January 2019 to July 2019), the Work Group met once per month in a standing meeting open to the public. Meeting notices were sent to the distribution list and to local newspapers and were posted on Facebook. In addition, the Technical Subcommittees usually met once per month and the Outreach Committee presented information about the planning process at numerous county commission meetings, city council meetings, agricultural outreach events, and agency annual dinners and events. Field trips were also held during the Step 3 period, which included, but were not limited to, wastewater treatment plants, fish passage barriers, juniper management, and restoration and beaver dam analog installations.

The draft report was circulated to the public for a 30-day comment period. During this time, the Work Group hosted a public meeting in Mitchell to present the draft document. In addition to the Mitchell outreach meeting, which 10 local landowners attended, the Work Group presented at the annual SWCD meeting in Condon. In addition to the Work Group presentation, Nick Weber, a Fish Biologist with EcoLogical Research, LLC, also presented their contracted work on instream restoration through beaver dam analogs. More than 50 local residents, landowners, agencies, and Work Group members attended the dinner meeting. After comments were incorporated into the final draft of the Step 3 Report, a final Water Needs and Vulnerabilities of the Lower John Day Basin

report was circulated to the email list. Hard copies were available at the SWCD and watershed council offices.

Step 4

Throughout the Step 4 process (July 2019 to May 2021), the Work Group met once per month in meetings open to the public at meeting spaces in the Lower Basin. Meetings in April 2020 through May 2021 were held online through the GoToMeeting web-based platform due to COVID-19 safety protocols. The GoToMeeting platform provides a call-in only option to allow those with no or limited internet service to attend. Meetings were publicized through the distribution list, newspaper advertisements, radio interviews, and on the Lower John Day Place-Based Planning website (<https://www.lowerjohndaypbp.com>) and Facebook. Project progress was presented at several meetings throughout the area.

The Step 4 Report outlines 19 Critical Issues and 46 strategies that were identified through analysis from Steps 2 and 3, as well as public outreach and input received from the landowner community and recreation and conservation stakeholders. The Work Group spent time during several meetings to collect and prioritize the Critical Issues. Final ranking was achieved through a “dot” voting exercise. Strategies to address the Critical Issues were brainstormed during group meetings and collected from other stakeholders and members of the public through several survey collections. Both paper and electronic surveys were distributed at NRCS and SWCD public meetings, and watershed council board meetings and through the website and email distribution. Feedback from public surveys was included in the internal process to identify 19 Critical Issues and 46 strategies summarized in Chapter 4.

The Step 4 report was made available for a 30-day public comment period (February 2021). Comments were incorporated into the final report. A separate in-person public meeting was not held to present this report due to COVID-19 risks and restrictions but can be found with other final documents on the Lower John Day Work Group website.

Step 5

Similar outreach as was completed in Steps 1 to 4 has continued for Step 5. Meetings have still been conducted virtually. Instead of in-person field tours, throughout the Step 4 and Step 5 process, we have hosted guest speakers on topics related to Critical Issues and on information related to the implementation phase of our work.

Overall Outreach and Diversity Considerations

The Work Group worked exceptionally hard to be inclusive to underrepresented communities. Special outreach and inclusivity actions taken over the course of the planning process included:

Multilingual material was considered. However, less than 5 percent of the population of Wheeler, Gilliam, and Sherman Counties is non-English speaking according to the U.S. Census, so this outreach method was rejected as difficult to implement, with low chance of impact.

Diversity of membership was considered when evaluating participation by those who are making decisions. It was determined that the group was adequately diverse and included women and tribal representatives. The Confederated Tribes of the Warm Springs directed participation to tribal staff who regularly participated. The Work Group strives to be inclusive but is aware of the lack of immigrant agricultural representation.

Diversity of input methods - Different methods were offered to promote meetings and public comment periods of reports including electronic email list serve, hard copy documents provided at agency offices, social media promotion, local newspaper advertisements, public message board flyers,

in-person meetings and, in 2020, phone and GoToMeeting online were made available as our main meeting platform.

Meeting landowners and the public at existing events was an outreach strategy used to gain a balance of feedback and ensure the local community was aware of the planning process. The Work Group attended and presented (prior to March 2020) on the planning process and progress at NRCS local workgroup meetings, SWCD monthly meetings and annual dinners, watershed council monthly and annual meetings, stockgrowers meetings, bull tour, and city council and county court meetings.

Meeting times - Meeting times were selected to help provide opportunities for all people to attend, including those with conflicting responsibilities (i.e., evening care of children). Remote meetings and Work Groups provided opportunities for participation. The majority of meetings began at 10 a.m. Daytime meetings did arise as a barrier for landowners. To mitigate this issue, Work Group members attended and provided updates at landowner and watershed council meetings noted above.

The Work Group met monthly through the entirety of the six-year (2016 to 2022) planning process. Additionally, the technical subcommittees often met monthly and the Outreach Committee presented updates and findings during public review for Steps 2 through 5. Prior to COVID-19, outreach was targeted to county commission meetings, city council meetings, agricultural outreach events, and agency annual dinners and events. Public outreach since COVID-19 has focused primarily on news outlets, public message boards, newspaper advertisements, social media forums, and on the Lower John Day Place-Based Planning website (<https://www.lowerjohndaypbp.com>).

As a result of COVID-19, the Work Group's usual in-person meetings held throughout the Lower Basin were held online through the GoToMeeting platform, meeting COVID-19 safety protocols. All meetings were publicized through newspaper advertisements and on the Lower John Day Place-Based Planning website (<https://www.lowerjohndaypbp.com>).



Gilliam County SWCD annual dinner, Place-Based Planning Step 3, and beaver dam analog presentations, 2019 (Lee Rahr photo credit)

Chapter 2: The Lower John Day's Water Resources (Step 2)



John Day scenery (istockphoto.com photo credit)

Chapter 2 summarizes the characteristics of the state of water resources in the Lower Basin as reported in the [Step 2 Report](#). Major findings include:

- Most of the water, by unit area, is coming from the smaller southern basins (groundwater and surface water). Specific examples include Upper Rock Creek, Thirtymile Creek, Butte Creek, Bridge Creek, and Bear Creek.
- Nearly 60 percent of all mid-summer natural surface outflow comes from Rock Creek above Wallace Canyon, Bridge Creek above West Branch, Thirtymile Creek, Butte Creek, Rock Creek at the mouth, and Bear Creek. There is minimal surface water contribution from the Lower Basin between Service Creek and McDonald Ferry (100 to 200 cfs during high flow periods and 3 to 10 cfs during late summer).

- The Lower Basin produces only 5.6 percent of the total annual surface water yield, despite covering 40 percent of the overall basin.
- Of the total amount of water coming into the Lower Basin, 84 percent is lost to ET, 7 percent goes to surface water, and 9 percent goes to groundwater.
- More than 80 percent of surface water consumption comes from the mainstem, Rock Creek, Butte Creek, and Muddy Creek.
- The Grass Valley Canyon, Scott Canyon, and Lower Rock WABs have groundwater pumping rates significantly greater than estimated within-basin groundwater production.
- Approximately 24 percent of the total amount of existing water rights is being used. This is believed to be due to limited water availability and may also be due to other factors including on-farm management decisions.
- The static amount of instream rights (30 and 20 cfs year-round) is considerably below the Scenic Waterway flows and the estimated instream flow needs of fish. Instream water rights are much less frequently met where they exist on tributary streams. Six of 31 tributary WABs have instream established targets/rights.
- Water is not likely available for new surface water appropriations from July through October. Water may be available for appropriation from January through May.
- Instream low flows during key migration periods are a primary factor leading to serious steelhead and Spring chinook population declines. By 2070-2099, stream reaches with mean August temperatures less than or equal to 18°C are primarily limited to lower-order higher-elevation subwatershed tributaries due to changing climate conditions. It is estimated that total steelhead-bearing stream miles with water temperature conditions less than or equal to 18°C will reduce by 60 percent from the period 1993-2011 to the period 2070-2099. WABs with the greatest amount of suitable stream miles under future conditions include Upper Rock, Butte, Pine, and the Bridge Creek Basin. Other current important steelhead spawning grounds include Thirtymile, Service, and Mountain Creeks.

The major sections of the report are summarized below.

Basin Overview

The Lower Basin, defined as the entire Basin downstream from the North Fork John Day River confluence with the John Day River are represented as the ancestral home of the CTWSRO and the CTUIR. The Lower Basin supports native aquatic fish species and habitat, small rural communities whose economy is centered on agriculture and energy development, and exceptional recreational, historical, and cultural riches. It drains an area of 3,149 square miles, with the mainstem flowing generally westward and then northward to the Columbia River near Rufus. The majority of the Lower Basin is in Gilliam, Wheeler, and Sherman Counties. Smaller portions are in Morrow, Wasco, Jefferson, Crook, and Grant Counties. The Lower Basin has a plateau form, broken by the sinuous valley of the mainstem and its steep-walled tributaries.



The John Day Basin harbors the greatest assemblage of fossils from the Age of Mammals. This is the Clarno Unit West of Fossil, Oregon, which is a National Park Service managed area of the John Day Fossil Beds National Monument (Jeffrey Kee photo credit)

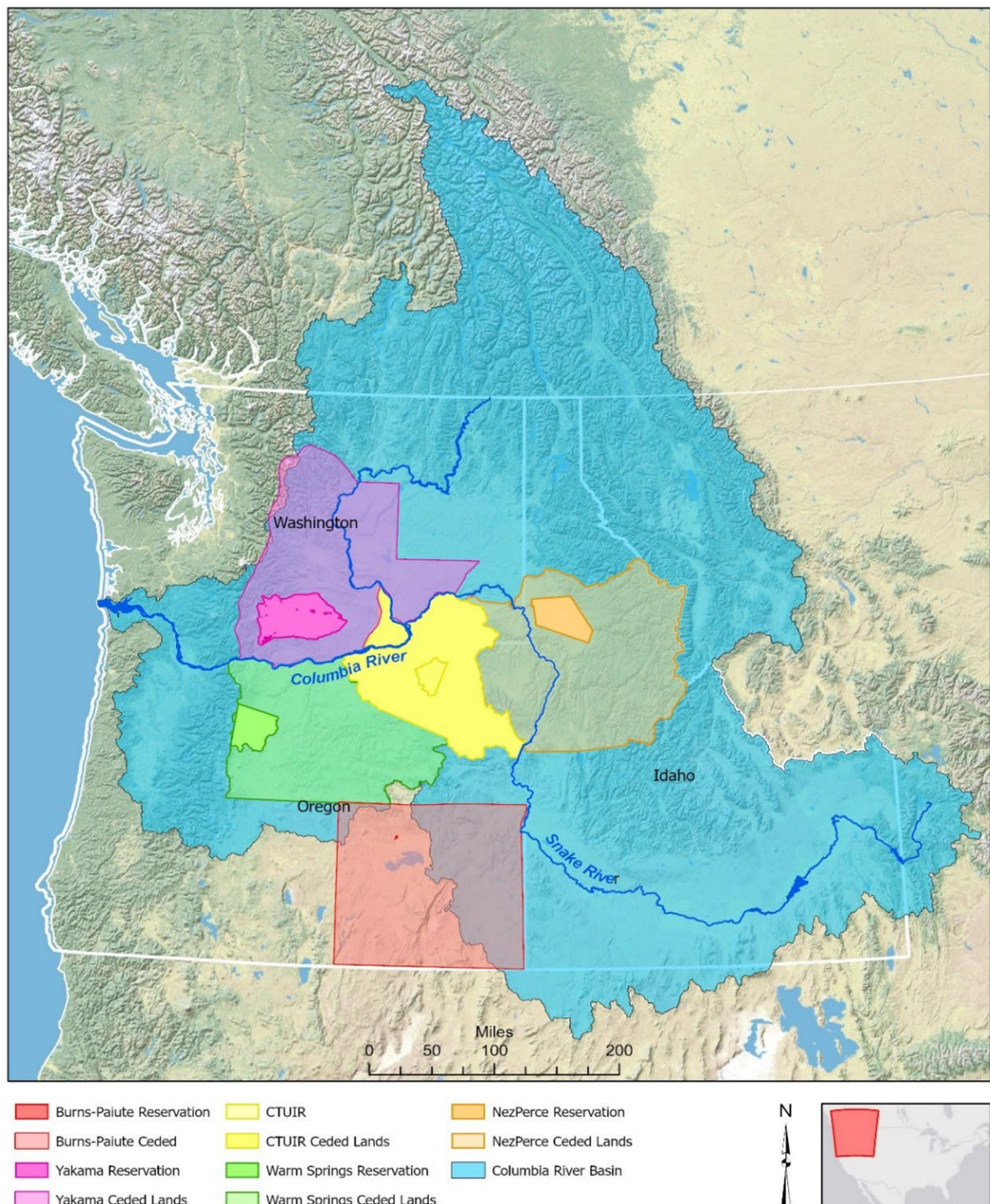
The low annual rainfall on the majority of the landscape is characteristic of the Intermountain Region, which receives most precipitation (70 to 80 percent) between November and March. Less than 10 percent of the annual precipitation falls as rain during July and August, usually from sporadic but violent thunderstorms. Annual rainfall in the Lower Basin as a whole varies from about 8 inches in the northeast to about 28 inches in the extreme southeast, higher elevation, forested areas. Most of the agricultural areas receive between 10 and 14 inches of precipitation per year.

Most surface water flow in the mainstem Lower John Day comes from the upper watersheds, primarily in the form of melting snow. The two largest WABs, Butte Creek and Upper Rock Creek, generate the largest total annual surface outflows. The John Day is primarily a free-flowing system (no large-scale dams), with highly variable discharge from peak to low flows. Discharge usually peaks

from March through June, and seasonal low flows typically occur from August to October. Major tributaries of the Lower Basin include Wallace Canyon, Bridge Creek, Thirtymile Creek, Butte Creek, Rock Creek, and Bear Creek. Major aquifers are found in alluvial deposits and in the Columbia River Basalt and Clarno/John Day geological units.

Historical descriptions indicate that the John Day River was once a relatively stable and healthy river with natural riverine processes and habitats. However, watershed conditions in the Lower Basin have changed significantly over the past 150 years. A myriad of water and land use practices, from mining to livestock grazing to riverine habitat degradation to invasive species, have contributed to these changes. These disturbances have impaired water quality in hundreds of stream miles, degraded riparian corridors and disconnected floodplains, reduced biodiversity and fish populations, and changed the structure and function of upland habitats.

The CTWSRO is a federally recognized Indian tribe that resides in the John Day Basin, secured by the Treaty of Middle Oregon (1855). The reservation is located in north-central Oregon, 104 miles southeast of Portland and 60 miles north of Bend, and consists of 640,000 acres. Three tribes live on the reservation: the Warm Springs, Wasco, and Paiute, with each tribe having its own diverse history and heritage. The John Day River is one of the most critical watersheds for fisheries in the entire Columbia River Basin. The Lower John Day River subbasin is within the CTWSRO-ceded lands and supporting partner projects such as this are an integral part of maintaining cultural foods and fish populations. Actions identified in this Plan are also represented with the goals set forth in the John Day River Watershed Restoration Strategy (CTWSRO, 2015).



The CTWS reservation is dark green and the land they ceded to the United States is light green. The Columbia Basin is blue. Map Credit: Columbia River Inter-Tribal Fish Commission

The CTUIR lands are also located in the planning area. The CTUIR is a union of three tribes: Cayuse, Umatilla, and Walla Walla formed from negotiations with the U.S. government during the 1855 treaty. The Walla Walla and Umatilla people shared areas surrounding the Columbia River, while the Cayuse lived along the tributary river valleys in the Blue Mountains. Acknowledged aboriginal title lands cross the John Day River near the North Fork of the John Day River and John Day River at Kimberly, Oregon, and travel northward to Willow Creek and its confluence with the

Columbia River before following the Columbia River upstream. Traditional winter and summer use areas extended beyond these geographic landmarks with large historic villages on the Lower John Day River closer to the confluence with the Columbia River and near Kimberly, Oregon (Hunn et al., 2015). Forays for food, trade, or of cultural significance extend further into the Lower John Day River upstream beyond Cottonwood State Park and downstream from Kimberly, Oregon, to below Spray, Oregon (Hunn et al., 2015). More than 600 places of special importance are identified in Hunn et al. (2015) across the aboriginal title lands, and this document acknowledges the potential for even more.

In spite of past human disturbances, the Lower Basin continues to support wild runs of anadromous salmonids and a wide assemblage of resident wildlife. In addition, public and private landowners have increased awareness of the negative impacts of some land management practices. Current practices have been, and continue to be, improved to minimize these impacts while at the same time furthering the long-term interests of natural resource industries in the subbasin.

The John Day still supports the strongest wild runs of spring Chinook and summer steelhead in the Columbia River drainage, and fall Chinook salmon and anadromous Pacific lamprey are among other fish species present in the Lower Basin. Overall, it is estimated that there are 27 species of fish, including 17 native species, in the Lower Basin. Many fish populations in the Lower John Day River have declined significantly from historic levels.

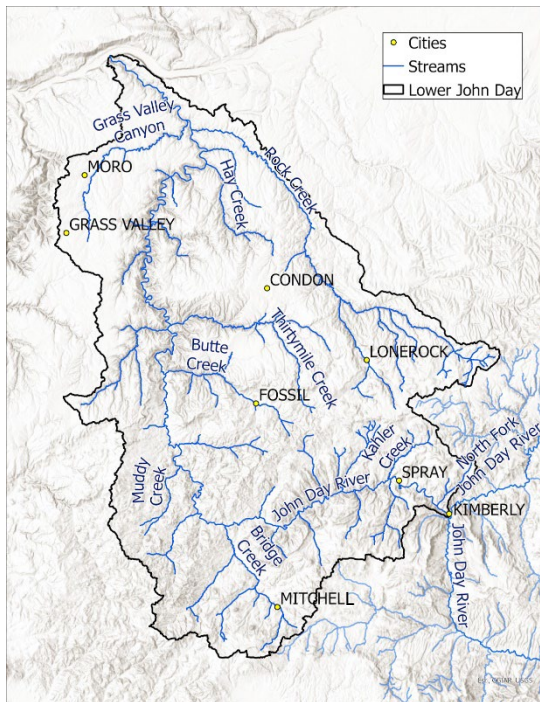
...of the total amount of precipitation in the Lower Basin, 84 percent is lost to ET, 7 percent becomes part of the surface water flow of rivers and streams, and 9 percent goes to groundwater.

Private ownership is substantial in the Lower Basin. Land ownership in the Lower Basin is roughly 91 percent private and 9 percent federal (approximately 8 percent Bureau of Land Management [BLM] and 1 percent Forest Service). Private lands are mostly in agricultural use. There are approximately 327 farms and ranches in the Lower Basin. The primary agricultural products in the planning area are small grain, pasture and hay, and beef cattle production. While the region still relies on the production of food and forest products, the economy has diversified and is predominantly driven by agricultural, wind energy, and waste handling.

More recently, the Lower Basin has worked to become more of a recreation and tourist destination. Many small businesses cater to tourists. Hunting, fishing, boating, camping, wildlife observation, photography, hiking, swimming, fossil hunting, and scenic viewing on public and leased private lands are among the most common recreational activities.

Water Budgets, Surface Water, and Groundwater

Most of the surface water in the John Day River comes from the upper watersheds of the John Day River Basin from melting snow. For instance, the North and Middle Fork tributaries provide 60 percent of the flow to the mainstem river (NPCC, 2005).



Major tributaries of the Lower John Day include Wallace Canyon, Bridge Creek, Thirtymile Creek, Butte Creek, Rock Creek, Grass Valley Canyon, Pine Hollow, Bear Creek, Dry Creek, and Juniper Creek (ODA, 2017). There are 981 stream miles in the basin. Major aquifers are found in areas of the Columbia River Basalt Group (CRBG).

More information on groundwater, aquifers, and storage is provided in Sections 6 and 7 of the Step 2 Report, pages 69 through 81.

Twelve reservoirs in the region have dams taller than 10 feet, with four on Muddy Creek. The John Day is a primarily free-flowing system (no large-scale dams) with highly variable discharge from peak to low flows (ODA, 2017). Discharge usually peaks from March through June and seasonal low flows typically occur from August to October. The John Day River tends to experience flood events in December and January when warm temperatures

and high precipitation result in rain on snow events, which lead to extreme runoff (ODA, 2017). Peak flows can account for 70 percent of the annual discharge. From year to year, peak flows can vary from 300 to 700 percent.

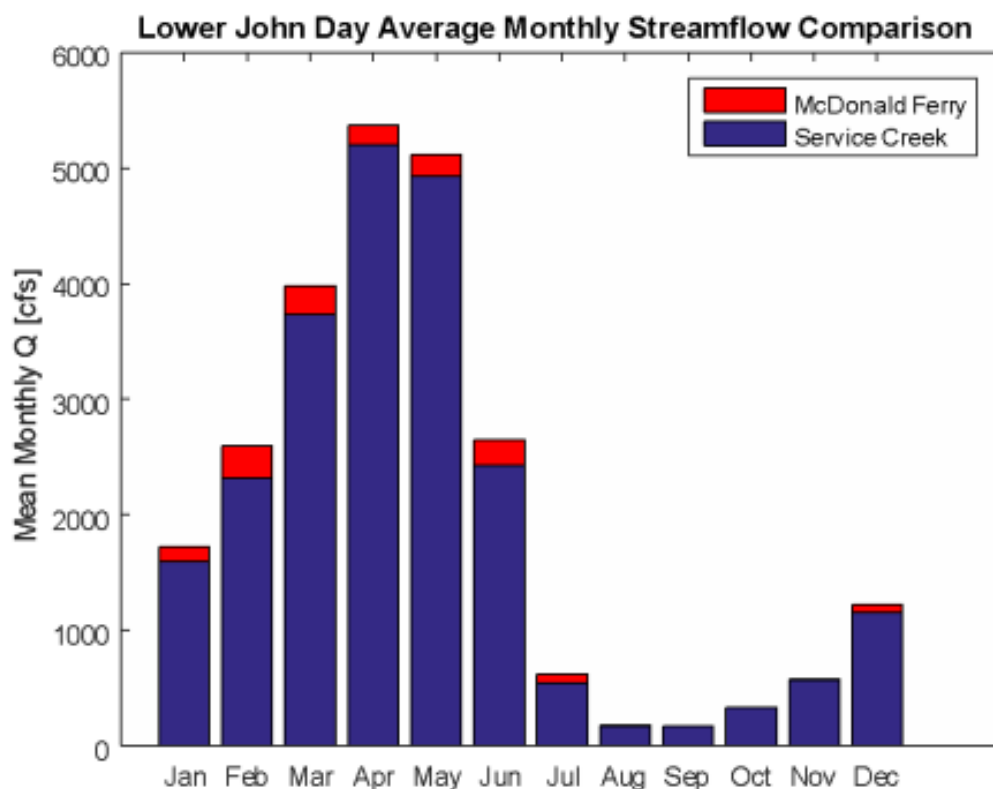
The hydrologic curve has shifted from historic times, with peak flows higher than the past and late season flows more diminished. It is suspected that these effects are due to greatly reduced rates of soil infiltration, reduced capacity for groundwater/riparian storage, and diminished in-channel storage in beaver ponds (NPCC, 2005). Flow data are available beginning in 1904, with a mean annual discharge into the Columbia River of 2,000 cubic feet per second (cfs) (NPCC, 2005). Average annual discharge of the John Day River into the Columbia River is approximately 1.5 million acre-feet (or 2,103 cfs), with a range of 1 million to 2.25 million acre-feet. Peak flow at the McDonald Ferry gauging station (River Mile 21) is typically more than 100 times greater than the lowest flows the same year. Groundwater provides much of the base flow for the Lower River in the summer (NPCC, 2005). In much of the basin, channel morphology is strongly influenced by valley form, alluvial fans, and large terraces (DEQ, 2010).

The Step 2 Report estimates that, of the total amount of precipitation in the Lower Basin, 84 percent is lost to ET, 7 percent becomes part of the surface water flow of rivers and streams, and 9 percent goes to groundwater. Most of the water, by unit area, is coming from the smaller, southern basins (groundwater and surface water). Specific examples include Upper Rock Creek, Thirtymile Creek, Butte Creek, Bridge Creek, and Bear Creek. Rock Creek above Wallace Canyon, Bridge Creek above West Branch, Thirtymile Creek, Butte Creek, Rock Creek at mouth, and Bear Creek account for nearly 60 percent of all mid-summer natural surface outflow. The Lower Basin produces only an estimated 5.6 percent of the total annual surface water yield, despite covering 40 percent of the

overall Lower Basin. As previously noted, there are significant water inputs above Kimberly from the North Fork John Day River, Middle Fork John Day River, and Upper main-stem John Day River.

The figure below, “Lower John Day Average Monthly Streamflow Comparison,” illustrates the inter-annual and intra-annual variability in streamflow in the Mainstem Lower John Day River. Mean monthly flows peak during periods of snowmelt in April and May at more than 5,000 cfs, while in late summer flows are typically less than 200 cfs. Relative to incoming mainstem flows, there is minimal surface water contribution from the Lower Basin between Service Creek and McDonald Ferry (100 to 200 cfs during high flow periods and during late summer). The bulk of streamflow production in the entire basin (Lower, Upper, Main, North) occurs in months either outside the irrigation season (December through March) or during the early portion of the season when demand is not high (April and May).

The U.S. Geological Survey (USGS) gauge at McDonald Ferry (No. 14048000) regularly recorded instream flows of less than 20 cfs between the months of July and September. On September 3, 2018, a flow of 5.99 cfs was recorded at McDonald Ferry. In 2021, flow at McDonald Ferry fell below 20 cfs on August 5 and did not rise above that static threshold until September 19.





Pivot irrigation (Jeffrey Kee photo credit)

The Lower Basin has groundwater in three primary geological formations: the Columbia River Basalt Group, the Clarno/John Day Formation, and alluvial deposits. Average annual groundwater recharge rates over the Lower Basin were estimated at 0.4 to 0.6 inch/year.

There is a distinct, increasing spatial gradient from south to north in the number of, and ultimately the abstraction volume associated with, groundwater water rights within the Lower Basin. The vast majority of certificated groundwater rights is in the very northern reaches of the Lower Basin, where surface water production is typically relatively low.

The Lower Basin is composed of five primary geologic units: CRBG, John Day/Clarno Group, Quaternary Alluvium (Qal), Mitchell Group, and The Dalles Group. CRBG dominates in terms of total coverage area. Similarly, the majority of certified wells in the Lower Basin draw from CRBG units (77 percent), followed by John Day/Clarno Group (12 percent) and Alluvium units (11 percent).

A John Day Basin-wide evaluation for groundwater resources in 1984 showed groundwater movement is generally northward toward the Columbia River; however, it is locally structurally controlled. Average annual groundwater recharge rates over the Lower Basin were estimated at 0.4 to 0.6 inch/year. The high horizontal transmissivity and relatively shallow static water levels in the CRBG make yields adequate for domestic and stock use in most areas. And although some small-scale irrigation use is assumed possible, the overall regional low recharge and significant depth of wells necessary to extract high volumes of water in the CRBG likely make large-scale groundwater irrigation development uneconomical or impractical. Low vertical transmissivity and precipitation input are primarily responsible for the low recharge in the CRBG group.

The alluvial deposits located in river and stream valleys are one of the most important aquifer units in the John Day Basin, second only to the CRBG. Significant Quaternary alluvial deposits are located in the vicinity of Spray, Twickenham, and Clarno and have high porosity, permeability, specific yields of up to 25 percent, and a high potential for recharge. Well yields can often be adequate for irrigation, but the shallow aquifers in alluvial deposits are typically directly connected to surface

waters. As such, removal of alluvial aquifer water can cause decreases in streamflow, and the management of the two resources must be considered together (Gannett, 1984).

The figure below shows that the cumulative certificated groundwater use in the Lower Basin has increased dramatically over the last 50 years. The period between 1965 and 1980 saw significant growth in the number of wells, particularly those targeting production from aquifers within the CRBG unit.



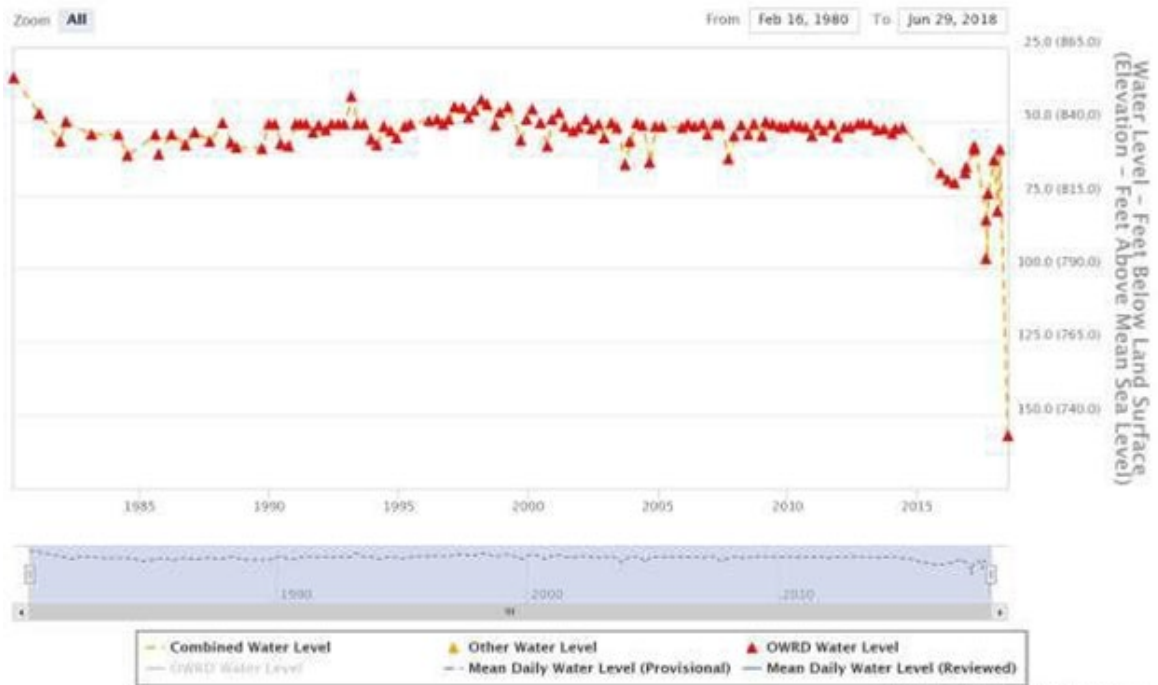
Trends in Groundwater Water Right Certificates in the Lower John Day by Aquifer (Clarno, CRBG, and Qal)

Relatively minimal increases in groundwater appropriations have occurred since the early 1980s.

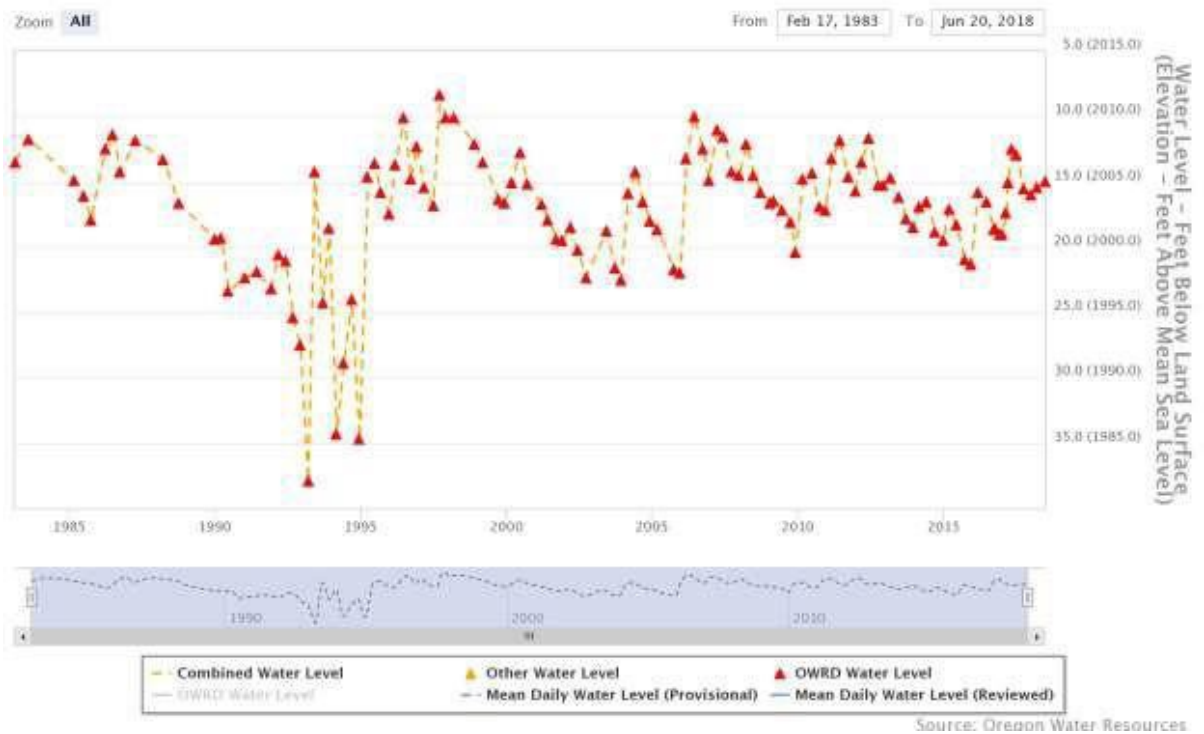
Observation wells are used to track changes in water table elevations with time. Unfortunately, there are only two long-term and operational state observation wells in the entire Lower John Day Basin. Both of these wells are completed into CRBG aquifers and display annual fluctuations and some short-term declines; however, they do not indicate any long-term water table declines. It is impossible to extrapolate the long-term water table trends in the greater basin based on such sparse data. Groundwater data from other nearby areas (Olex, Willow Creek, and Umatilla) do show sharp downward trends of groundwater head with time. There are no long-term water level records available for wells situated in alluvial aquifers in the Lower John Day Basin.

An analysis of groundwater pumping versus calculated recharge suggests that recharge may not meet long-term demand in areas of intense groundwater development, but that the vast majority of sub-basins have little development (Step 2 Report, pages 70-73). This analysis assumes that effects of groundwater pumping and recharge are isolated within each drainage basin, and at this time it is unknown to what extent groundwater moves between these basins, as shown on the two well logs below.

Groundwater Levels for GILL 60



Groundwater Levels for SHER 340





The number of, and water use of, exempt wells in Oregon is largely unknown. Many wells drilled before the 1960s are not registered with the state (Jeffrey Kee photo credit)

Water Storage

The Step 2 analysis found that roughly one-quarter of all surface water diversions in the Lower Basin are for storage. Of these storage rights, the vast majority designate livestock or wildlife as the intended use. WABs with the greatest number include Upper Rock, Muddy, Lower Bridge, and Rowe Creek, accounting for more than 85 percent of all storage in the Lower Basin. The table below depicts Lower Basin storage categories as documented in the OWRD Water Rights Database.

Category	POU Count
LIVESTOCK	205
WILDLIFE	127
FIRE PROTECTION	42
IRRIGATION	36
MULTIPLE PURPOSE	22
RECREATION	19
STORAGE	18
SUPPLEMENTAL IRRIGATION	14
FISH CULTURE	11
DOMESTIC	5
MUNICIPAL USES	3
POND MAINTENANCE	3
DOMESTIC EXPANDED	2
AESTHETICS	1
AGRICULTURE USES	1
FOREST MANAGEMENT	1
INDUSTRIAL/MANUFACTURING USES	1

POU = point of use

Water Use

Water use in the Lower Basin includes withdrawals from surface water and groundwater for irrigation, stock watering, domestic and municipal uses, and instream use for fish, wildlife, recreation, and maintenance of water quality. More than 77 percent of all certificated groundwater wells are located in two subwatersheds,

Grass Valley and Lower Rock. (This analysis excludes wells that are exempt from water-use permitting requirements, including wells for stock watering and limited domestic use.) Surface water consumption in the region is dominated by the large WAB encompassing the mainstem John Day River Valley, from Service Creek down to the Columbia River confluence.

...from July to October, the period when water is generally in greatest demand, there is no available new surface water in the Lower Basin.

The analysis conducted in Step 2 compared modeled natural streamflow from [OWRD's Water Availability Reporting Systems](#) with existing consumptive uses and found that from July to October, the period when water is generally in greatest demand, there is no available new surface water in the Lower Basin. Winter water may still be available for diversion and/or off-channel storage. WABs with the greatest amount of available water are Thirtymile, Parrish, Butte, Alder, Kahler, and Shoofly Creeks. This analysis does not include instream flow needs beyond those reflected in existing instream water rights.

The vast majority of the irrigation comes from surface waters of the mainstem and its tributaries, so agriculture can play a major role in modifying local and regional hydrology (DEQ, 2010). On average, less than 24 percent of Basin surface water irrigation water rights are estimated to be used in mid-to late summer, suggesting that low flows make those rights “unreliable.”

The table below shows the mid-summer water reliability by WAB. The two exceptions are Lower Bridge Creek and the mainstem John Day above Heidtmann Canyon, which have 87 percent and 56 percent of water rights with reliable summer water, respectively. However, this may also be due in part to on-farm management decisions.

Average Mid-Summer Water Right Reliability by WAB

NAME	% of Water Right Area Irrigated in August
ALDER CR > JOHN DAY R - AT MOUTH	1%
BEAR CR > BRIDGE CR - AT MOUTH	12%
BOLOGNA CAN > JOHN DAY R - AT MOUTH	0%
BRIDGE CR > JOHN DAY R - AB W BR BRIDGE CR	16%
BRIDGE CR > JOHN DAY R - AT MOUTH	87%
BUTTE CR > JOHN DAY R - AT MOUTH	21%
CHERRY CR > JOHN DAY R - AT MOUTH	0%
ESAU CAN > JOHN DAY R - AT MOUTH	0%
FERRY CAN > JOHN DAY R - AT MOUTH	0%
GIRDS CR > JOHN DAY R - AT MOUTH	3%
GRASS VALLEY CAN > JOHN DAY R - AT MOUTH	0%
HAY CR > JOHN DAY R - AT MOUTH	0%
HAYSTACK CR > JOHN DAY R - AT MOUTH	15%
HORSESHOE CR > JOHN DAY R - AT MOUTH	0%
JOHN DAY R > COLUMBIA R - AB HEIDTMANN CAN	56%
JOHN DAY R > COLUMBIA R - AT MOUTH	33%
KAHLER CR > JOHN DAY R - AT MOUTH	0%
MUDDY CR > JOHN DAY R - AT MOUTH	15%
PARRISH CR > JOHN DAY R - AT MOUTH	23%
PINE CR > JOHN DAY R - AT MOUTH	0%
PINE HOL > JOHN DAY R - AT MOUTH	0%
RHODES CAN > JOHN DAY R - AT MOUTH	0%
ROCK CR > JOHN DAY R - AB WALLACE CAN	10%
ROCK CR > JOHN DAY R - AT MOUTH	13%
ROWE CR > JOHN DAY R - AT MOUTH	15%
SERVICE CR > JOHN DAY R - AT MOUTH	23%
SHOOFLY CR > JOHN DAY R - AT MOUTH	1%
SOREFOOT CR > JOHN DAY R - AT MOUTH	0%
THIRTYMILE CR > JOHN DAY R - AT MOUTH	3%
W BR BRIDGE CR > BRIDGE CR - AT MOUTH	21%

Permanent instream water rights currently exist for the lower mainstem river and a small subset of tributaries. The majority of the lower mainstem river is classified as a State Scenic Waterway and also has associated instream flow recommendations (500 cfs from July to January, 1,000 cfs in February, and 2,000 cfs from March to June). In general, the mainstem John Day instream rights are nearly always met. However, the static amount of those rights (30 and 20 cfs year-round) is considerably below the Scenic Waterway flows and the estimated instream flow needs of fish. Instream water rights are much less frequently met where they exist on tributary streams. The timing of low flows is a critical concern because low flows occur when Endangered Species Act-listed summer steelhead are beginning to migrate into the John Day system.

Altered hydrology is frequently identified as a primary limiting factor for steelhead recovery in the Lower Basin. The Lower Basin is characterized by hot, precipitation-free summers and cold, relatively dry winters. This natural combination of minimal annual precipitation input and long, warm, dry seasons naturally results in conditions that can be problematic for cold-water fish. Coupled with surface water withdrawals, summertime conditions in Lower John Day tributary streams can easily become inhospitable.

Recreation is an integral part of the Lower Basin. Data from the BLM and other field guides suggest that over the last couple of years, minimum flows needed for canoes, drift boats, kayaks, and rafts are not met in the summer peak time (August to October).



Winter flows from the North Fork John Day meet the mainstem at Kimberly, Oregon (Jeffrey Kee photo credit)

Water Quality

Many streams in the Lower Basin are on the Clean Water Act 303(d) list, meaning that streams fail to meet water quality standards, particularly for water temperature. Temperature, sedimentation, flow modification, and habitat modification are the leading causes of impairment. The WABs with impairments and the Total Maximum Daily Load (TMDL) limits established by the DEQ, and approved by the Environmental Protection Agency (EPA), are listed in the Step 2 Report. The [NorWeST](#) dataset provides measured and modeled water temperature data for the John Day River Basin and can be used to forecast the distribution of suitable future cold-water fish habitat based on climate change projections. It is estimated that total steelhead-bearing stream miles with water temperature conditions less than or equal to 18°C will reduce by 60 percent from the period 1993-2011 to the period 2070-2099 (Step 2, Figures 64 through 66 extrapolated from NorWeST). WABs with the greatest amount of suitable stream miles under future conditions include Upper Rock, Butte, Pine, and Bridge Creek Basins.

The DEQ has established TMDLs in the Lower Basin for temperature and bacteria. Dissolved oxygen (DO) and impaired biologic conditions have also been identified as impairments but will be addressed through implementation of the temperature TMDL. Streams in this basin have also been listed for sedimentation, which has been co-assessed during TMDL monitoring and assessment. A sedimentation TMDL has not yet been established, but many measures that can reduce stream temperatures will also address sedimentation.

Beneficial uses in the Lower Basin that water quality standards are seeking to protect include domestic water supply, industrial water supply, irrigation, livestock watering, fish and aquatic life, wildlife and hunting, fishing, boating, water contact recreation, and aesthetic. Standards are set based on the most sensitive beneficial use. In this case, temperature and DO standards are based on salmon and trout, and the bacteria standard is based on water contact recreation (Step 2 Report, p. 24). Water withdrawals have reduced stream flows, especially during the summer, and contributed to higher water temperatures. Poorly managed grazing, mining, timber harvesting, and

maintenance of push-up dams have reduced riparian vegetation and shade, contributing to higher water temperatures (Step 2 Report, p. 27).



Steelhead and salmon in the Lower Basin need clean, cool water to thrive (Jeffrey Kee photo credit)

Chapter 3: The Lower John Day's Current Uses and Future Water Demands (Step 3)



Cattle ranching is common in the Lower Basin and accounts for part of the water demand (Brian Posewitz photo credit)

Chapter 3 summarizes the Step 3 [Integrated Water Resources Needs and Vulnerabilities Report](#). This report examined current and future water needs in three categories: (1) instream uses; (2) agricultural uses; and (3) municipal, domestic, industrial, and commercial uses. The report also includes a section on the expected impacts of climate change and discussions on infrastructure needs, natural hazards, and man-made obstructions to fish passage.

Major conclusions from the Step 3 analysis include:

- A percent-of-flow approach was used to determine instream flow needs for the 30 WABs in the planning area, and it was found that 50 percent of the WABs do not meet the current instream demand from July through October.
- Base and subsistence environmental flow values, which are a fraction of instream needs, are known for 10 out of 30 WABs.

- The mainstem river and many tributary streams have water quality impairments including high temperature (43 stream segments), sedimentation (31), flow modification (26), habitat modification (25), biological criteria (16), pH (10), and low oxygen concentrations (9).
- While the Lower Basin has no major dams, numerous smaller obstructions (dams, weirs, culverts, etc.) present barriers to fish passage.
- Irrigation certificated water rights in the Lower John Day Basin amount to 90,000 acre-feet per year (AFY). Based on water right acres, crop types, and irrigation inefficiencies, basin-wide annual irrigation demand is estimated to be as much as 101,000 AFY using AgriMet, which uses potential ET as defined as the amount of water required for the plant to be most productive. Alternatively, the Cuenca method (Cuenca, 1992) showed 67,000 AFY water used. Irrigation is used primarily for alfalfa, grass hay, and grass seed.
- The total water use by the livestock population in the planning area is estimated to be approximately 614.87 AFY.

Significant elements of this analysis are summarized as follows:

Instream Needs



A stream gauge on the South Fork John Day River (Jeffrey Kee photo credit)

Instream uses of water include recreation such as fishing, boating, and swimming, habitat for fish and wildlife, and maintaining water quality (by diluting pollutants and making streams more resilient to adverse warming, for example). Instream flows also help create habitat for fish and wildlife and maintain a healthy river ecosystem by moving materials such as gravel, sediment, and woody debris through the stream system, and by creating and maintaining habitat features such as gravel bars and side channels.

ODFW has identified five categories of instream flows necessary to fully support aquatic life: subsistence, base, pulse, bankfull, and overbank flows. Subsistence flows and base flows were estimated by ODFW in 1977 for the mainstem river and for approximately 25 percent of its tributary basins. In a few tributary basins, subsistence flow needs are protected by instream water rights, subject to prior rights. The mainstem Lower John Day River also has instream water rights, but the amounts are well below estimated instream flow needs. The Oregon Scenic Waterway Act protects a higher rate of flow against new applications for out-of-stream rights.

Instream flow needs have not been estimated by ODFW for all categories of environmental flows in the mainstem or any tributary basin. Moreover, some tributary basins have no ODFW estimates of instream flow needs.

For its Step 3 Report, the Work Group adopted the 1977 ODFW Basin Investigation Report as the best available estimates of subsistence and base flow needs for the mainstem river and the tributary streams for which the estimates were prepared. To estimate total instream flow needs for the mainstem river and each tributary stream for aquatic life, the group adopted a methodology from academic literature suggesting that, for a “moderate level of ecological protection,” actual flows should not vary from estimated natural flows by more than 20 percent. As described in the literature, this is a “presumptive” standard to be used only when no better estimate of instream flow needs is available.²

...close to 80 percent of the WABs have fish presence or are used for fish passage and habitat.

With the best available information (see Step 3, Section 2.5.2), instream flow demands for each WAB are estimated annually, in AFY and in a range of instantaneous flows in cfs, as shown in the table below titled *Instream Demand for WABs Annually*, assuming a moderate level of protection of instream flows at 80 percent of median flows. Even though the annual demand seems to be met at 50 percent exceedance flows, available flows are insufficient to meet monthly/biweekly water demands in several WABs, especially July to October. Insufficient flow in these months is a serious concern to anadromous fish population recovery and persistence. Low summer and fall flow also reduce the recreational use and potential economic input from the boating and recreational community.

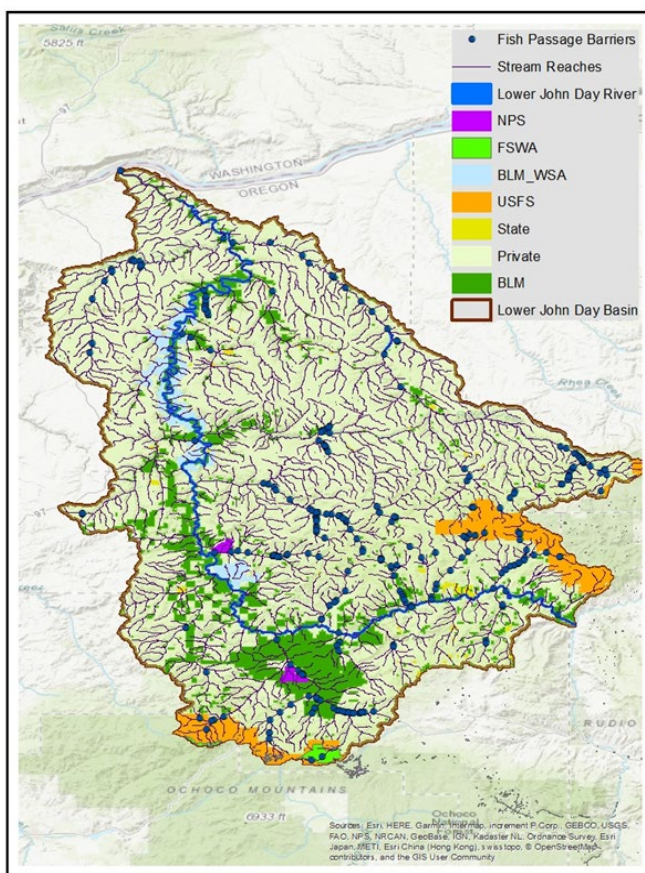
Instream Demand for WABs Annually

WAB No.	Subwatershed Name	Surface Water Quantity (Natural Stream Flow) (from OWRD Portal) AFY (50th Percentile)	Instream Demand (AFY) (Presumptive Standard, Richter)	Instream Flows Min and Max in cfs Monthly (Presumptive Standard, Richter)
1	Alder Cr > John Day R - at Mouth	6584.15	5267.32	0.79-18.56
2	Bear Cr > Bridge Cr - at Mouth	6578.79	5263.03	1.44-16.32
3	Bologna Can > John Day R - at Mouth	1459.64	1165.33	0.06-5.05
4	Bridge Cr > John Day R - Ab W Br Bridge Cr	9207.69	7366.15	2.79-27.92
5	Bridge Cr > John Day R - at Mouth	19,833	9,245	3.28-37.04

²As noted in the Step 3 Report, these are estimates of total instream flow needs to be balanced against other needs, not proposed allocations of water.

6	Butte Cr > John Day R - at Mouth	7,681	6,145	1.832-28.08
7	Cherry Cr > John Day R - at Mouth	3,081	2,465	0.712-10.48
8	Esau Can > John Day R - at Mouth	388.56	310.85	0.0-2.456
9	Ferry Can > John Day R - at Mouth	2101.10	1680.88	0.2-11.36
10	Girds Cr > John Day R - at Mouth	3360.62	2167.38	0.712-8.48
11	Grass Valley Can > John Day R - at Mouth	3300.11	2640.09	0.24-23.84
12	Hay Cr > John Day R - at Mouth	2649.13	2119.30	1.584-6.224
13	Haystack Cr > John Day R - at Mouth	550.41	440.33	0.008-2.288
14	Heidtman Can > John Day R - at Mouth	718.22	574.57	0.048-2.888
15	Horseshoe Cr > John Day R - at Mouth	4223.61	3378.89	0.824-10.32
16	Jackknife Can > John Day R - at Mouth	921.72	737.38	0.048-5.264
17	Kahler Cr > John Day R - at Mouth	6496.08	5196.87	0.648-20.48
18	Muddy Cr > John Day R - at Mouth	3084.70	2467.76	0.456-13.2
19	Parrish Cr > John Day R - at Mouth	6959.62	5567.70	1.04-19.12
20	Pine Cr > John Day R - at Mouth	2819.91	2256.81	1.688-6.624
21	Pine Hol > John Day R - at Mouth	3162.06	2529.65	0.408-15.12
22	Rhodes Can > John Day R - at Mouth	458.18	366.55	0.048-2.176
23	Rock Cr > John Day R - Ab Wallace Can	19130.63	15304.50	0.96-73.2

24	Rock Cr > John Day R - at Mouth	23658.31	18856.44	1.792-98.4
25	Rowe Cr > John Day R - at Mouth	1929.72	1543.78	0.304-7.592
26	Scott Can > John Day R - at Mouth	683.70	546.96	0.0-5.064
27	Service Cr > John Day R - at Mouth	3522.06	2817.65	0.384-9.84
28	Shoofly Cr > John Day R - at Mouth	5772.51	4618.01	1.016-14.64
29	Thirtymile Cr > John Day R - at Mouth	10731.00	8584.80	2.88-41.2
30	John Day River > Mouth	1353008.43	1082406.74	216.0-4040.0
31	John Day River > H Canyon	1238641.19	990912.95	208.0-3816.0



Fish passage barriers located in the Lower Basin

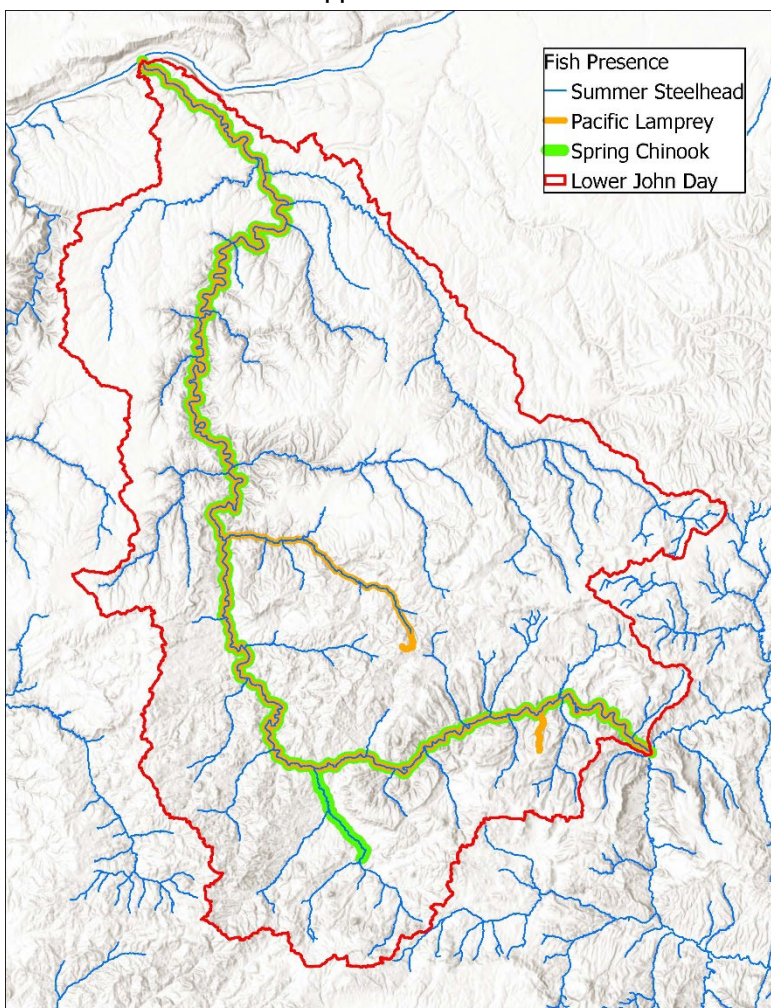
ODFW is updating its instream needs guidance document (expected 2022) in order to provide a foundational assessment, particularly on streams with sensitive, threatened, or endangered species that currently lack instream targets. The new ODFW guidance builds on the Step 3 existing analysis and will provide a means to utilize additional data sources for estimating instream needs.

Based on the fish presence data shared by ODFW (ODFW, 2021), close to 80 percent of the WABs in the planning area have fish presence. However, there is not enough information to estimate all categories of instream flow needs. The Lower Basin has a total of 230 fish passage barriers.

The Work Group noted that climate change, and resulting lowering instream flow conditions, are likely to exacerbate flow, temperature, and passage issues for fish and wildlife in the planning area.

The Lower John Day is home to numerous fish species, including some listed under the Endangered Species Act or listed as species of concern. The John Day hosts one of the few remaining wild fish runs in the Pacific Northwest; summer steelhead and spring Chinook salmon returning for spawning contribute to the largest entirely wild run in the mid- and upper

The return of summer steelhead to the Columbia in 2021 was the lowest since dam counts began at Bonneville Dam in 1939. The count of wild summer steelhead passing the John Day Dam from June 1 through November 12 was 17,718 wild or adipose-intact steelhead (some adipose-intact steelhead are unmarked hatchery-origin fish). The low return in 2021 follows several low run years for wild steelhead in the Columbia, resulting in several years of spawning escapement (fish successfully returning to their home river or stream) estimated to be well below recovery goals for the John Day River. Critically low abundance, poor marine survival, and low estimated hatchery origin stray rates for John Day-origin steelhead returning in 2021 led to an angling closure on the John Day River from September 1, 2021, through at least the end of 2021. It should be noted that this was part of a larger coast-wide phenomenon affecting multiple steelhead Distinct Population Segments.



Fish presence and use in the Lower Basin

Columbia River (see Step 2 Report, p. 26; CTWSRO, 2015; NPCC, 2005).

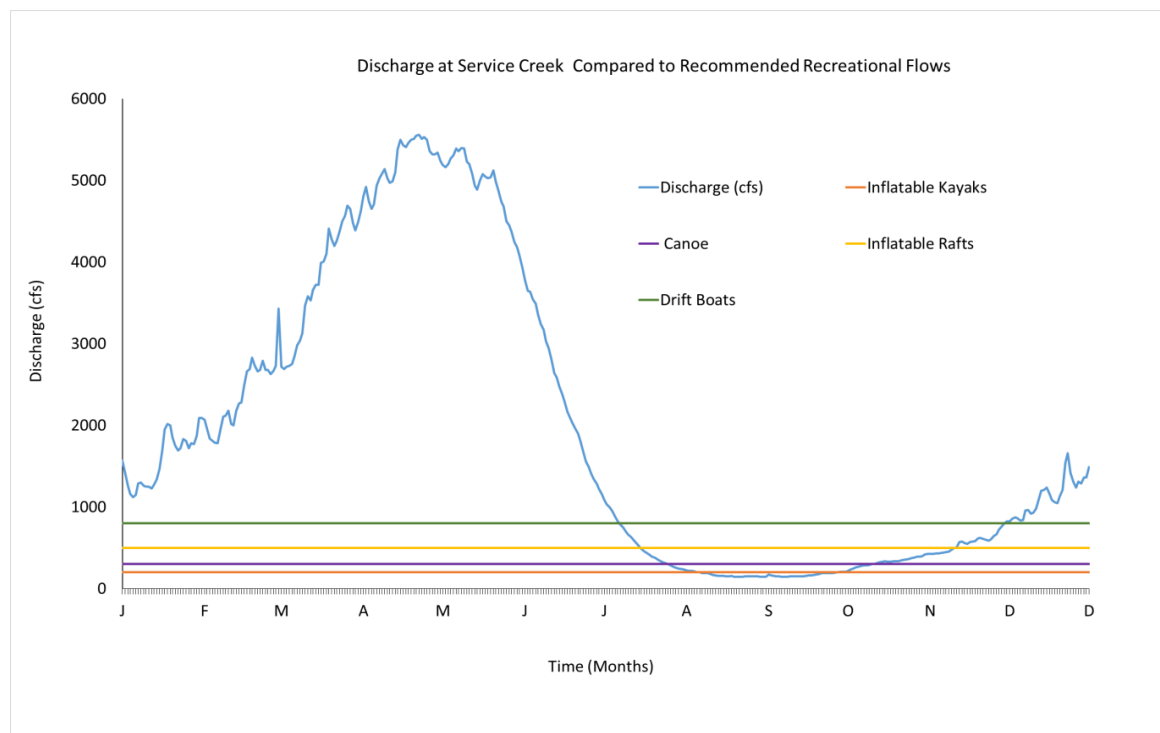
In addition to anadromous fisheries, this river section contains prime habitat for smallmouth bass. Also present are rainbow trout, Pacific lamprey, bridgelip sucker, and speckled and longnose dace.

Steelhead spawning surveys have been conducted since 1959 on many tributaries throughout the Lower Basin. The lower mainstem John Day steelhead population is at a moderate risk based on current abundance and productivity and is considered to be a maintained population with abundance above the minimum 500 (ODFW, 2010, 2019). The steelhead natural origin spawner abundance (NoSA) estimate for the Lower John Day below the South Fork John Day River from 2000 to 2018 is displayed below.



Lower mainstem John Day summer steelhead NoSA, 2000-2018 (ODFW recovery tracker)

In addition to the instream flow and passage needs of aquatic life, the Work Group looked at instream flow needs for floating the river, which is a popular recreational activity in the Lower Basin. Published information on necessary recreation flows for the Lower Basin are not available. However, based on interviews with staff at the Service Creek Station and guides, target flows for on-water recreation were estimated from the Step 2 Report. The figure below depicts the median daily discharge of the John Day River at Service Creek and the suggested minimum flows for various boat types.



Discharge versus recommended recreation flows, John Day River at Service Creek

Since 1998 there has been a steady increase in boater permits issued for the Lower John Day (roughly a 30 percent increase in the past 20 years). In 2017, the BLM recorded more than 28,000 boater-use-days between Kimberly and Tumwater Falls. According to the BLM, boater use correlates positively with instream flow levels. An online permit is required year-round to boat between Service Creek and Tumwater Falls, and the BLM recently began limiting the number of permits issued for some seasons.



Recreational use of the John Day River has increased significantly in the last decade. The BLM recently instituted a permit system to float the lower river (Jeffrey Kee photo credit)

Out-of-Stream Needs

Agriculture Needs

The Lower Basin is composed of 20 percent forest land, 54 percent rangeland, 25 percent agriculture, and less than 1 percent urban (U.S. Department of Agriculture, 2005). In 2012, Grant, Wheeler, Gilliam, and Sherman Counties had 1.9 million acres in agriculture that generated a market value of products sold of \$138 million. While the region still relies on the production of food and forest products, the economy has diversified into recreation, wind energy, and waste handling. Agriculture is dominated by dryland wheat along with livestock pasturing. Primary out-of-stream water demands come from agriculture, municipal, domestic, and industrial uses.

Irrigated agriculture in the Lower John Day watershed is used predominantly by commercial crops, hay, grass, orchards, and livestock watering. Agricultural products in the planning area include small grain, pasture and hay, and beef cattle production. Approximately 135,000 acres are in small grain crops, 12,000 acres are in pasture and hay, and 150,000 are fallow or idle cropland. The maximum allowable acreage (25 percent of total cropland) has been enrolled in the Conservation Reserve Program, removed from crop production, and planted to perennial grasses (USDA, 2005). In recent years, large tracts of private agricultural land have been purchased by absentee landowners; these landowners have placed a greater emphasis on recreational use rather than agriculture. In addition to irrigation of crops, approximately one-quarter of all surface water diversion in the region is used for storage water rights, the majority of which is for livestock or wildlife water use. In Step 2,

irrigation water demand for the Lower John Day Basin was assessed per WAB by analyzing water rights, crop types, irrigation methods, and estimates of growing season ET.

Non-irrigated spring and winter wheat are the predominant crops produced in the Lower Basin. Primary irrigated crops include alfalfa and grass pasture with alfalfa. Irrigation methods in the Lower Basin include flood, hand lines, wheel lines, big guns, center pivots, and a host of other less common techniques (see Appendix B of the Step 3 Report).

As documented in the Step 2 Report, irrigation methods were mapped in five of the most irrigation-intensive WABs, and these data were used to estimate irrigation methods throughout the Lower Basin as shown in the table titled “Probability of Irrigation Method” below. In general, flood irrigation is limited to tributary WABs, center pivots to mainstem WABs, and non-pivot sprinkler methods are the most common (approximately 75 percent of all evaluated fields). Flood irrigation prevalence increases notably with elevation, and center pivot use declines with increasing elevation in the basin. Elevation/irrigation relationships were developed to estimate irrigation in WABs not mapped.

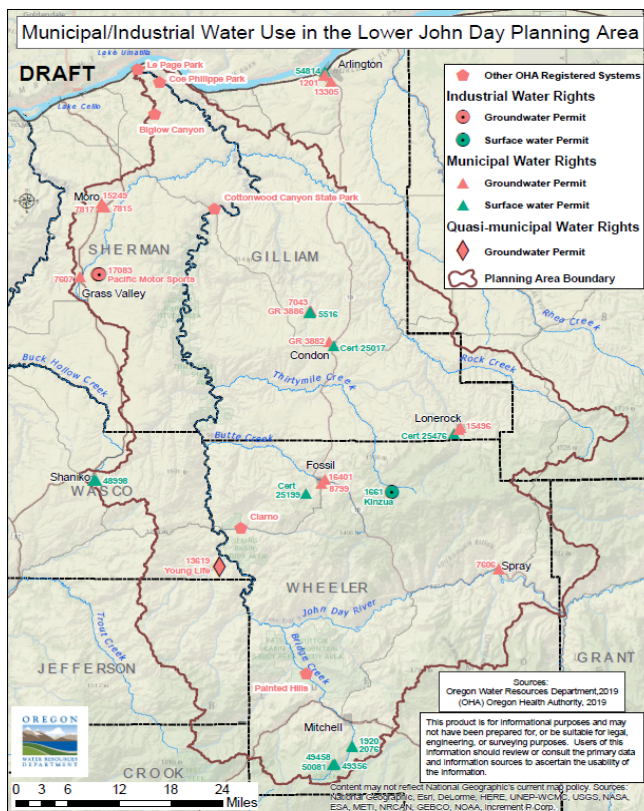
The table below from the Step 3 Report highlights the probability of irrigation methods based on WAB classification (tributary or mainstem river).

	Probability of Irrigation Method		
Group	Flood	Non-Pivot Sprinkle	Pivot
Tributary	22%	73%	5%
Mainstem	0%	75%	25%
Basin Totals	15%	74%	12%

To calculate agricultural water use in the planning area, two methods were used: First, water rights from OWRD’s Water Right Information Search database and, second, ET-based estimate for crop water use. Net irrigation demand was estimated at 49,000 AFY using AgriMet data and 32,000 AFY using the Oregon Crop Water Use and Irrigation Requirements dataset (Cuenca, 1992). Irrigation water rights in the Lower Basin authorize appropriation of approximately 90,000 AFY.



Irrigated pasture is an important part of livestock production in the Lower Basin (Jeffrey Kee photo credit)



Map of Important MDIC Water Uses in the Planning Area

Municipal, Domestic, Industrial, and Commercial Needs

The category of water use known as “MDIC” includes municipal, domestic, industrial, and commercial uses. All of these uses are often served by a municipal water system, but there are also “self-supplied” commercial, industrial, and domestic uses with an independent water supply system outside a municipality. There can also be self-supplied uses within a municipality, such as an industry with an independent well for process water but connected to the municipal water system for potable water. Self-supplied domestic uses are commonly served by a small well.

MDIC water users in the planning area include six public water systems, two self-supplied commercial and industrial users, and one quasi-municipal user. Some of the municipal water users, such as Lonerock, Mitchell, and Shaniko, have a relatively high maximum allowed water use per person compared to other cities, such as Condon,

Moro, Grass Valley, and Fossil, which have lower gallon per minute (gpm)/person ratios. See Step 3, Appendix C, for a chart illustrating each municipal water need and demand for the Lower Basin.

The cities each have water rights issued by OWRD that, among other parameters and conditions, set the upper legal limit of their uses from various authorized water sources. They also have the water-related infrastructure designed to capture, treat, store, distribute, meter, and deliver the water to their customers. The monthly and annual water use from each source is important for understanding how much the water rights and different sources are used over time. In the Step 3 analysis, each city reported annual water use from 2008 to 2018 from wells, springs, and diversion points to calculate average to estimated use. Moro, Condon, and Grass Valley had the highest monthly water use in summer when irrigation requirements for landscape, parks, and ball fields are greatest. Gallons per capita day (gpcd) demand ranged from 44 gpcd in Shaniko up to 655 gpcd in Moro. The data also showed the ratio of maximum month use to lowest month use ranges widely from as low as 2:1 in Fossil to as much as 19:1 in Mitchell.

COMPARISON OF USE

CITY	Gallons per Capita-Day	Ratio High:Low Month Use
Arlington*	529.81	10:1
Condon	274.91	5:1
Fossil	215.21	2:1
Grass Valley	592.35	6:1
Lonerock	125.58	6:1
Moro	655.29	5:1
Mitchell	251.50	19:1
Shaniko	44.03	3:1
Spray	408.59	9:1

Most domestic wells for single household use are exempt from the requirement to seek a water use permit from OWRD. Water use from these exempt wells is estimated at approximately 1,280,000 gallons per day. Annually that would be 467,200,000 gallons or 1,434 AF of rural exempt well water use. This estimate was determined using 2010 Census data for the planning area and the average water use per capita. Domestic exempt well use makes up 78.5 percent of the combined domestic and municipal annual use, while municipal use within the cities is only 21.5 percent. The greatest estimated annual volume of municipal and domestic demand is in the WAB near the mainstem above Heidtmann Canyon, at 1,057.85 AF annually. The Municipal Work Group determined that because of the dispersed nature of the domestic wells and relatively small annual volume of water used for domestic purposes, a deeper analysis of domestic use and issues was not warranted at this time. The District 21 watermaster has not received significant complaints about domestic well issues in the planning area. A survey of domestic well users was not conducted for this planning effort. Future work could include a survey of domestic well users, additional well log research to understand the depths aquifer wells are commonly drilled to, and how often domestic wells are being deepened.

Municipal water suppliers indicated a need for improvements to their water system infrastructure. The survey results show that Fossil needs to replace outdated distribution piping and has limits on the water volume the city can deliver, particularly in summer months. Condon has noted several substantial needed infrastructure improvements but can meet future demand at current growth rates. Spray indicated that their infrastructure was upgraded in 1997, but during summer months the city is reaching the output capacity of its two wells. Moro has needs for infrastructure upgrades and is concerned about their water supply capacity. Mitchell indicated a need for increased storage and a problem of insufficient supply during drought, fire, or large events. Lonerock and Shaniko did not respond. These small cities have very limited staff and maintaining water systems is a substantial and

expensive effort, so cataloging their water system needs as a group of cities may provide a benefit through coordination (Step 3 Report, Chapter 4, pp 123 through 133).



The Cities of Mitchell (shown) and Fossil have regularly instituted water use restrictions (Jeffrey Kee photo credit)

MDIC demands are relatively modest and not projected to grow significantly by 2050; however, population concentrations in cities can stress local drinking water supplies. Based on the results of a statewide demand forecast conducted by OWRD in 2015, MDIC demand in the planning area is expected to remain stable

through 2050 due to the stable or even declining population projections for Wheeler, Gilliam, and Sherman Counties, so planning for a large population influx appears to be unnecessary.

Natural Hazards and Climate Change

Drought, wildfire, windstorm, flood, and winter storms are all natural hazards that rank high for the planning area. Determining whether future demands for water in the Lower Basin can be met is dependent on many issues including the severity of climate change and whether conservation and restoration measures are implemented. A changing hydrograph is a leading area of concern.

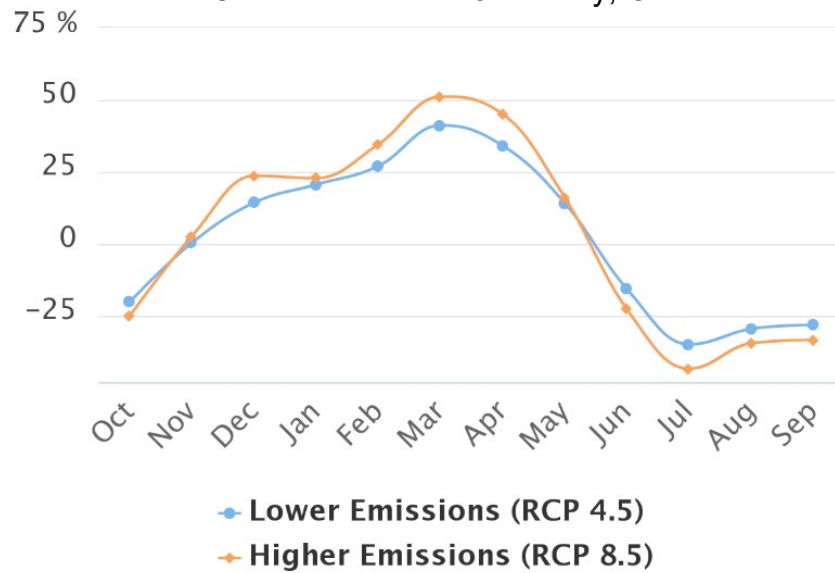


Winter flows from the North Fork John Day River regularly produce significant ice (Jeffrey Kee photo credit)

The Lower Basin monthly hydrograph is characteristic of a snow-dominated basin with peak flows during the late spring snowmelt season. By the 2050s, the peak streamflow is projected to shift earlier in the spring as warmer temperatures cause the snowpack to melt earlier. In addition, winter streamflow is projected to increase due to increased winter precipitation and that precipitation falling more as rain than snow.

The greatest changes in peak streamflow magnitudes are projected to occur at intermediate elevations in the Cascade Range and the Blue Mountains (Safeeq et al., 2015). This represents a fundamental shift in hydrology, and declining snowpack will likely result in changes in the timing of water resources and greater water scarcity at times for multiple water uses, particularly for irrigation and instream flows for fish. Changing climate could have a detrimental impact on fish and wildlife in the planning area.

Projected Percent Changes in Non-Regulated Streamflow (2040-2069) vs. Historical Columbia River at John Day, OR



Climate Toolbox, Source: VIC-MACAv2-Livneh CMIP5 Multi-Model Mean Bias-Corrected

Projected percent changes in non-regulated streamflow (2040-2069) compared to historical levels from 1971 to 2000, Climate Toolbox, Hegewisch, K.C., Abatzoglou, J.T., and Chegwiddden, O., 'Future Streamflows' web tool. NW Climate Toolbox (<https://climatetoolbox.org/>) accessed on 5.17.2019. RCP = representative climate pathway.

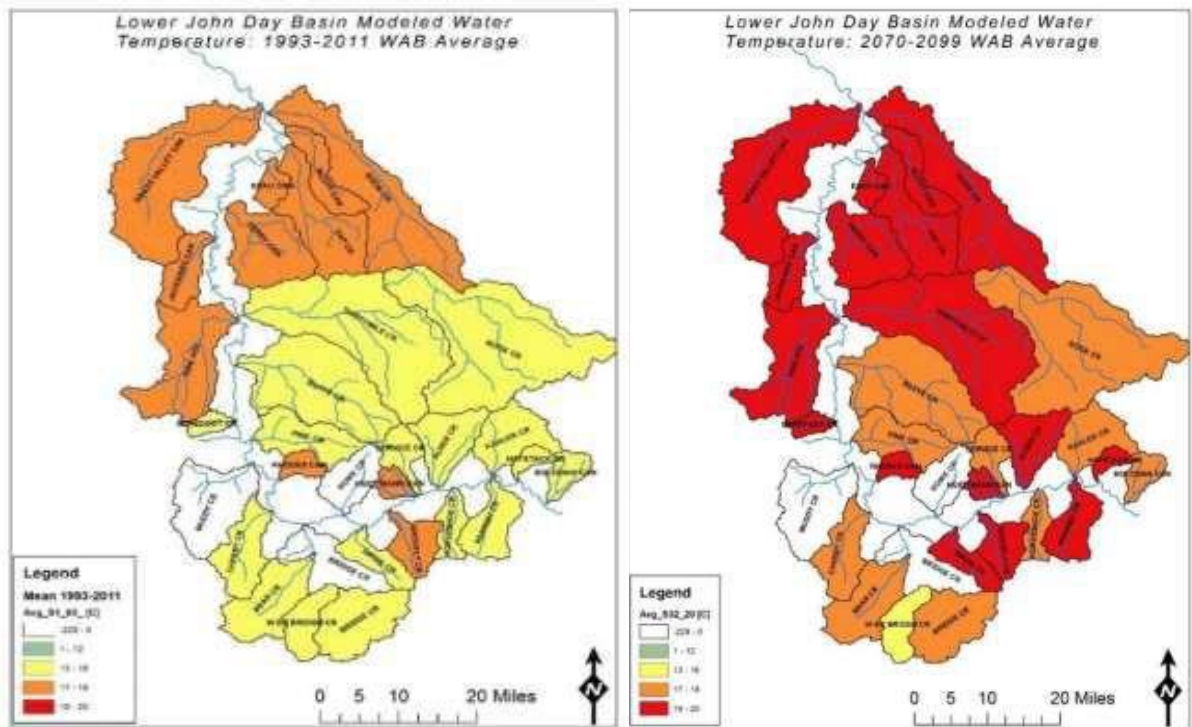
Drought conditions are represented by a low spring snowpack, low summer soil moisture, and low summer runoff (Oregon Department of Land Conservation and Development [DLCD], 2019). Climate change is expected to result in lower summer streamflow in historically snow-dominated basins across the Pacific Northwest as snowpack melts off earlier due to warmer temperatures and summer precipitation decreases (Dalton et al., 2017). As Oregon has experience in 2021, droughts have far-reaching environmental consequences that include increasing frequency and severity of forest insect/crop pest and pathogen outbreaks, expanding invasion of non-native weeds (University of Oregon's Institute for Policy Research and Engagement [UO], 2018), and worsening erosion and scouring leading to severe damages to fish habitat (UO, 2019). Drought also has a profound effect on these counties because of the counties' reliance on the local agricultural-based economies; drought impacts livestock health, damages crops, and results in reduced yields (UO, 2018). Droughts also increase the risk and impact of wildfire, as they leave the landscape dry and prone to ignition and low stream flows, which limit water availability for fire suppression. Widely reported by climate scientists, the probability of drought was listed as a high hazard probability by both Gilliam and Wheeler Counties as reported in the two counties' recent Multi-Jurisdictional Natural Hazards Mitigation Plans (UO, 2018; DLCD, 2019).

The climate and landscape in Gilliam and Sherman Counties are both conducive to wildfire, and these trends are increasing due to a reduction of moisture in vegetative fuels and soils. All communities in Gilliam County are within the Wildland Urban Interface area (ODF, 2006), and in Sherman County there are several areas within the interface area (UO, 2019). Both counties face increasing threats to human life as well as property including agricultural lands, crops, livestock, and livestock infrastructure.



Sherman and Gilliam County wind farms supply renewable electricity to Portland General Electric, Bonneville Power Administration, Eugene Water & Electric Board, and other power companies regionwide (Jeffrey Kee photo credit)

Over the last several decades, warmer and drier conditions recorded during summer months have contributed to an increase in dry fuels, which have enabled more frequent large fires, increased total acres burned, and prolonged fire season across the western United States (Dennison et al., 2014; Jolly et al., 2015; Westerling, 2016; Williams and Abatzoglou, 2016, in UO, 2018). The lengthening of the fire season is largely due to declining mountain snowpack and earlier spring snowmelt (Westerling, 2016, in UO, 2018). As shown below, climate change predictions show an increase in the frequency of “very high” fire danger days per year on average by nearly 15 days (with a range of -6 to +38 days) by the 2050s under the higher emissions scenario compared to the historical baseline for Gilliam County (UO, 2018) and by 14 days (with a range of -4 to +37 days) for Wheeler County (DLCD, 2019).



NorWeST dataset comparing August water temperatures for 1993-2011 and future forecast from year 2070- 2090

The likelihood of extreme heat and the number of hot days greater than or equal to 90°F are likely to increase by 29 days on average in Wheeler County and 33 days for Gilliam County with a range of approximately 11 to 39 days by the 2050s (Oregon Climate Change Research Institute [OCCRI], 2018a and 2018b). Extreme heat, lessening snowpack, and increased frequency and prolonged wildfire are all outcomes related to a changing climate. These very real vulnerabilities need to be considered in planning for current and future instream and out-of-stream water demands for the Lower Basin.



Warmer and drier conditions recorded during summer months have contributed to an increase in dry fuels, which have enabled more frequent large fires (Jeffrey Kee photo credit)

Data Gaps and Research Needs from Steps 2 and 3



Streamflow data

The Lower Basin has very few streamflow gauges, in part because several stream gauges have been discontinued. There is a need to include several additional stream gauges with efficient systems for collecting streamflow data.



Instream flow needs

Base and subsistence flow needs have not been determined for many tributary basins, and the mainstem and tributary basins all lack estimates, other than our percent-of-natural-flow estimates as discussed in Step 3, for the full range of flow needs (including pulse, bankfull, and overbank flows). Needs include instream flow specialists to conduct work necessary to better estimate all instream flow needs.



Groundwater levels and trends

The Lower Basin has only a few groundwater monitoring wells. Because the groundwater is held in multiple layers of multiple aquifers that may or may not be connected, these wells cannot provide a complete picture of groundwater conditions or trends in the Lower Basin. Needs include numerous additional groundwater monitoring wells, monitoring for different aquifers in different locations with efficient systems for collecting data on groundwater levels and trends in groundwater levels, and a volunteer network of exempt well owners to improve knowledge.



Water temperature data

Basin-wide stream temperature data are not fully available. Needs include additional temperature loggers to record stream temperatures in all tributary basins with efficient systems for collecting measurement data.



Updated evapotranspiration data for crops

The data used in computing ET crop and net irrigation demand are old, and the approach is based on an obsolete assumption that precipitation, temperature, and other weather/climate and hydrologic processes do not vary significantly over time or are stationary. Need to include updated ET estimates and/or models.



Agricultural water demands

Future agricultural water demands were not estimated.



Climate data

There are no AgriMet stations within the Lower Basin. Needs include an AgriMet weather station in the Lower Basin.



Rural exempt well water

Greater understanding of groundwater use and quantification of rural exempt well water use is needed.



Lack of metering

The lack of metering and use reporting on many irrigation water rights poses a challenge to estimating out-of-stream diversions and groundwater appropriations.



Surveying water right holders

Survey and outreach to water right holders about knowledge of water conservation opportunities would provide some important insights into water use, i.e., how many know that they can expand their irrigated lands utilizing the Allocation of Conserved Water Program?

Chapter 4: Critical Water Issues and Recommended Strategies for The Lower John Day (Step 4)



Water savings can be achieved with improved maintenance and upgrading irrigation system efficiency in the Lower Basin (Jeffrey Kee photo credit)

Chapter 4 summarizes the [Step 4 Integrated Water Strategies Report](#). In this report, the Work Group identified 19 Critical Issues facing the Lower Basin. For each Critical Issue, an accompanying problem statement, goal, and “strategies” for addressing the issue were compiled. The Work Group also ranked the issues using a “dot voting” exercise to prioritize issues in order of importance and significance.

Major conclusions from the Step 4 Report include:

- The highest priority issues of concern were poor riparian habitat, elevated summer stream temperatures, low instream oxygen, insufficient instream flow, storage needs, and degraded native plant communities. In addition, insufficient efficient irrigation infrastructure, inadequate gauge data, outdated and insufficient municipal water and wastewater infrastructure, lack of data on condition of groundwater aquifers and interactions between groundwater and surface water, and fish passage barriers were among the top identified issues both by the Work Group and through public outreach.
- The following strategies and related restoration actions were identified as addressing multiple basin water-related challenges:

- Protect riparian areas from livestock using fencing and off-stream stock watering systems;
 - Protect, enhance, and/or restore native riparian vegetation, reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.); and
 - Restore upland function by improving plant communities with juniper removal and planting of appropriate perennial bunchgrasses, shrubs, and forbs.
- While many issues are persistent throughout the planning area, the Work Group's analysis indicated the following basins may be priorities for restoration: Bridge Creek (above West Branch), Bridge Creek (mouth), Butte Creek, Rock Creek (above Wallace Canyon), and Rock Creek (mouth).



Steelhead can still be caught on the John Day River, but only hatchery strays can be kept (Ian Tattam photo credit)

The 19 Critical Issues in order of ranking are shown below. Each issue has an icon next to it to indicate the four primary demand groups (instream, agricultural, municipal, and climate) that are most affected by this Critical Issue. This demonstrates our commitment to balance and integration of all strategies and Critical Issues.

Critical Water Issues and Ranking of Critical Issues

Key

Instream Demand	
Agricultural Demand	
Municipal Demand	
Climate Change/Natural Hazards	
All Benefit Equally*	

*The Critical Issues are intended to benefit multiple demand groups. The icon illustrates those most likely to receive the greatest benefit by implementing associated strategies.

1. Poor riparian habitat 
2. Elevated summer stream temperatures and low instream oxygen 
3. Insufficient instream flow 
4. Storage needs 
5. Degraded native plant communities 
6. Insufficient efficient irrigation infrastructure 
7. Inadequate gauge data 
8. Outdated and insufficient municipal water and wastewater infrastructure 
9. Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water 
10. Fish passage barriers 
11. Inadequate diversion data 
12. Poor soil health in many of the WABs 
13. Simplified stream morphology 
14. Inadequate surface water for wildlife 
15. Risk of intense or catastrophic wildfire that impacts water quality and quantity 
16. Insufficient data on crops, climate, and datasets to support analysis 
17. Degraded forest health 
18. Erosion and sediment transport/control 
19. Rural and domestic well data gaps 

Strategies and Ranking of Strategies by Category

The Work Group identified seven Guiding Principles for the Ranking Process (further described in Step 4) to help guide group decision-making for suggested strategies. They include:

- 1) Available expertise and capacity
- 2) Financially feasible and funding available
- 3) Community supported
- 4) Meets long- and short-term goals without being detrimental to other needs
- 5) Minimum negative impacts
- 6) Voluntary non-regulatory action
- 7) Action does not infringe on current water rights

In addition to ranking Critical Issues and developing strategies to address each Critical Issue, the group also ranked strategies within seven general categories that described either the general focus of the strategy (e.g., riparian, instream and aquatic; upland management and restoration) or the nature of approach (e.g., outreach and education; data collection, monitoring, and feasibility). The list below summarizes the five top-ranked strategies, in order of priority, for each of the seven general categories. A full list of prioritized strategies is shown in the Step 4 Report. These 47 strategies (separated into seven categories) and their relations to the 19 Critical Issues are shown in Appendix A - Crosswalk Table. How strategies are integrated and anticipated to improve Critical Issues are shown in Appendix B - Strategy Impact Connection Table. It is important to note that not all strategies were included in all categories for ranking and that the Work Group did not rank all strategies together independent of the Critical Issues that the strategies are intended to address.



The characteristics of East Bologna Creek are common in the Lower Basin, where steelhead utilize spring flows for spawning and for rearing even when the majority of the water flows subsurface in the late summer and fall. Isolated pools provide cool water that supports life during the hot and dry seasons (Jeffrey Kee photo credit)

The Work Group also cross-referenced all 46 strategies with the 19 Critical Issues shown in a separate Strategy Impact Table in the Step 4 Report. The exercise illustrates which strategies are likely to address one or more Critical Issues facing instream and out-of-stream water demands.

Each strategy is integrated with the others to achieve multiple benefits as shown in the crosswalk table in Appendix A of the Step 4 Report. The following sections show the strategies prioritized by the Work Group within each subject area.

Riparian, Instream, and Aquatic Restoration

- Maintain and increase stream flows.
- Protect, enhance, and/or restore native riparian vegetation.
- Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.).
- Protect riparian areas from livestock using fencing and off-stream stock watering systems.
- Encourage improved irrigation efficiency projects and use of the Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect a portion of water saved instream).



Bridge Creek is recognized as an Intensively Monitored system by the National Oceanic and Atmospheric Administration and is a priority for Plan implementation (Jeffrey Kee photo credit)

Upland Management and Restoration (including Irrigation)

- Restore upland function by improving plant communities with juniper removal and planting appropriate perennial bunchgrasses, shrubs, and forbs.
- Identify, protect, and restore seeps and springs supplying cool water.
- Promote best management practices (BMPs) for the capture and safe release of water (water and sediment control basins, etc.).
- Promote mulch tillage, ridge tillage, zone tillage, no till, chemical fallow, and Conservation Reserve Program as ways to improve soil health, etc.).
- Promote good vegetative cover/cover crops.



Uplands in the entire John Day Basin have been encroached upon by Western juniper. This invasive tree, robs the soil of moisture and degrades historically desired plant communities (Jeffrey Kee photo credit)

Off-channel Storage

- Complete a feasibility study to assess potential off-channel water storage projects, including (a) potential locations for storage projects and (b) water availability, including consideration of all categories of instream flow needs (as recognized in the Step 3 Report).
- Promote BMPs for the capture and safe release of water (water and sediment control basins, etc.).
- Develop off-channel storage projects as suggested by feasibility studies.

Municipal and Domestic Water

- Assist cities in creating and/or improving Water System Management Plans and/or Water Management and Conservation Plans that identify necessary system improvements. Assess whether these plans cover all needed improvements.
- Analyze existing groundwater data and conduct a groundwater study in the Lower Basin.
- Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects.
- Support and advocate for increased communication for water conservation in public/ municipal water systems and infrastructure needs.
- Establish, support, and help fund additional groundwater monitoring wells and support community groundwater monitoring networks.

Data Collection, Monitoring, and Feasibility

- Support maintenance of existing gauges.

- Complete a feasibility study to assess potential off-channel water storage projects, including (a) potential locations for storage projects; (b) water availability, including consideration of all categories of instream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) instream and out-of-stream needs for water from storage; and (d) other costs and benefits.
- Analyze existing groundwater data and conduct a groundwater study in the Lower Basin.
- Support installation and maintenance of additional gauges at discontinued and recommended new sites.
- Conduct a process-based hydrologic study including how stream and groundwater flows change with land use and future climate change.

Outreach and Education

- Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption.
- Encourage improved irrigation efficiency projects and use of the Allocation of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect a portion of water saved instream).
- Promote utility, state, and federal incentive programs for improving irrigation efficiency.
- Promote BMPs for the capture and safe release of water (water and sediment control basins, etc.).
- Encourage voluntary leases, conservation easements, and permanent transfers of existing water rights to instream use.

Funding/Policy Options

- Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.).
- Protect, enhance, and/or restore native riparian vegetation.
- Maintain and increase stream flows.
- Protect riparian areas from livestock using fencing and off-stream stock watering systems.
- Restore upland function by improving plant communities with juniper removal and planting of appropriate perennial bunchgrasses, shrubs, and forbs.



Riparian habitat growth from restoration (Lee Rahr photo credit)

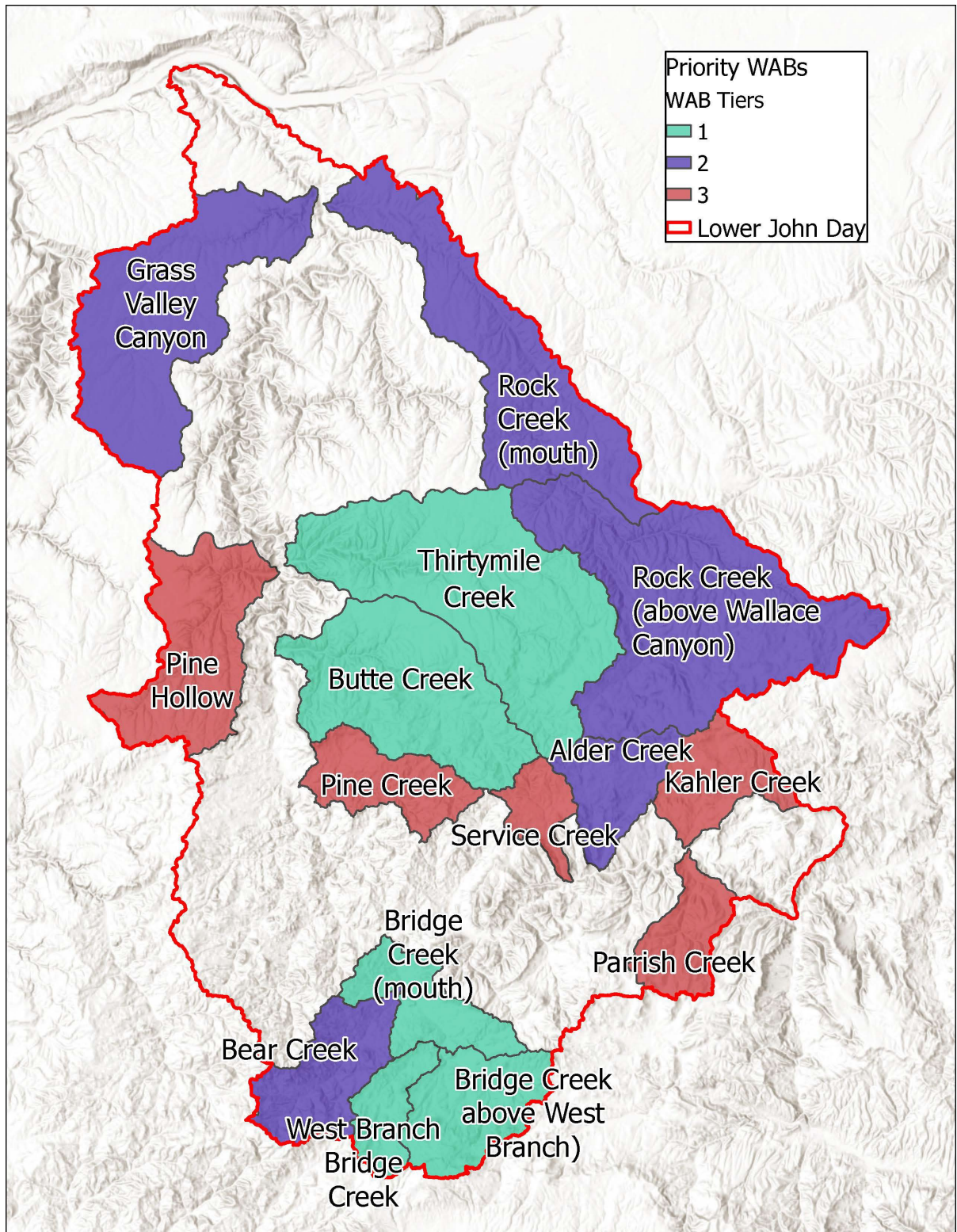
Priority Water Availability Basins

The Critical Issues, goals, and strategies developed by the Work Group are generally applicable throughout the Lower Basin. However, limited resources may require future efforts to focus first on agreed-upon priority areas. Therefore, an evaluation to prioritize WABs for each Critical Issue was completed by a technical subcommittee and discussed in monthly meetings. A full list of strategies and accompanying priority WABs is provided in Section 3 of the Step 4 Report.

While prioritization of WABs may vary across Critical Issues and strategies, and while this work should be subject to adaptive management principles, the WAB priority analysis suggested the following WABs should be recognized as top priorities for restoration, further study, further analysis, and funding and investment:

1. Bridge Creek (above West Branch)
2. Bridge Creek (mouth)
3. Butte Creek
4. West Branch Bridge Creek
5. Thirtymile Creek

These WABs were identified as Tier 1. The next five WABs (6 through 10) were ranked as Tier 2, and the final five WABs (11 through 15) were ranked as Tier 3, as shown below and also on Map 4.1. Tier 1 WABs are green, Tier 2 are blue, and Tier 3 are purple.



The second group of prioritize WABs (Tier 2) includes:

- Bear Creek
- Rock Creek (above Wallace Canyon)
- Rock Creek (mouth)
- Grass Valley Canyon
- Alder Creek

The next group of priority WABs (Tier 3) includes:

- Parrish Creek
- Pine Hollow
- Pine Creek
- Kahler Creek
- Service Creek

The WABs that fall out of the top 15 are in no way precluded from restoration work. These areas are still important for prioritizing other Critical Issues depending on priorities set by the Work Group and funding available for implementation.

Chapter 5: The Lower John Day Plan's Implementation Strategy (Step 5)



Thirtymile Creek with a beaver dam analog - a key implementation strategy for the creek (Herb Winters photo credit)

Chapter 5 summarizes and outlines the process for implementation of a Strategic Action Plan. The Work Group has finalized and approved three plans (Steps 2 through 4). The next step was to compile the analysis and findings into an implementation plan. The Strategic Action Plan outlines the Critical Issues, strategies, priority watersheds, partners, funding, and metrics, with a timeline for implementation. The Lower John Day Basin Integrated Water Resource Plan and this implementation guided by the Strategic Action Plan is an outcome of the [State of Oregon Integrated Water Resources Strategy](#), which lays out guidance and guidelines to help communities better understand and meet Oregon's consumptive and environmental water needs.

Implementation of the Strategic Action Plan is intended to take place over the next 8 years, 2022 to 2030. Although this Plan and Action Plan are living documents, Appendix C - Strategic Action Plan, represents the prioritization of the Critical Issues, followed by the strategies or actions needed to be undertaken to address each Critical Issue of concern listed with the prioritized WABs. The eight-year Strategic Action Plan is divided into three phases. Each phase addresses approaches to balance instream, municipal, and agricultural water demands.

Phase I (2022 to 2025)

- Poor riparian habitat
- Elevated summer stream temperatures and low instream oxygen

- Insufficient instream flow
- Storage needs
- Degraded native plant communities

Phase II (2025 to 2027)

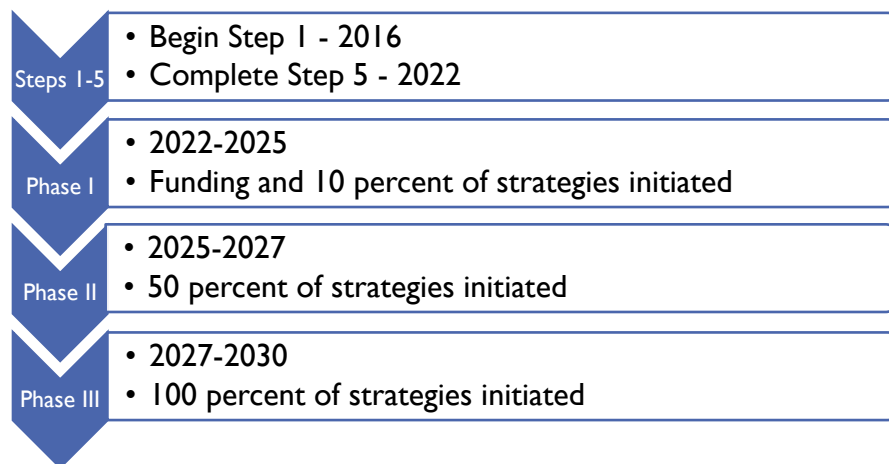
- Insufficient efficient irrigation infrastructure
- Inadequate gauge data
- Outdated and insufficient municipal water and wastewater infrastructure
- Lack of data on condition of groundwater aquifers and interaction between groundwater and surface water
- Fish passage barriers

Phase III (2027 to 2030)

- Inadequate diversion data
- Poor soil health in many of the WABs
- Simplified stream morphology
- Adequate surface water for wildlife
- Risk of intense or catastrophic wildfire that impacts water quantity and quality
- Insufficient data on crops, climate, and datasets to support analysis
- Degraded forests
- Erosion and sediment transfer/control
- Rural and domestic well data gaps

Implementation of the Action Plan and monitoring efforts will be coordinated with the John Day Basin Partnership. Many of the Critical Issues are connected to one another. For example, streamflow (Critical Issue 3) affects water quality (Critical Issue 2) and riparian condition (Critical Issue 1). Effective implementation of the Action Plan in Appendix C will require that multiple strategies addressing multiple Critical Issues be pursued and implemented simultaneously.

The simplified timeline below shows the phasing of the Strategic Action Plan. This phasing represents areas of focus for the Work Group; however, strategies in later phases may be addressed opportunistically and thus occur sooner if funding or individual stakeholder priorities warrant this approach.



The Strategic Action Plan also lists funding sources and resource needs for each of the implementing strategies or actions. Funding sources range from federal grant programs such as BLM

WaterSMART, NRCS programs, and USGS to Oregon Department of Geology and Mineral Industries, OWRD, and Oregon Watershed Enhancement Board grants, and then to more local utility and county programs and private foundations. The Oregon legislature in 2021 passed extensive funding to expand OWRD staff, Place-Based planning and more than \$30 million to provide water project grants and loans to evaluate, plan, and develop instream and out-of-stream water projects. Despite alarming drought conditions facing most of the state, the Work Group believes there are federal and state resources more readily available to address much of the implementation strategies outlined in this Plan.

The Work Group continued to meet monthly until their Plan integrated public comments and was approved by the Oregon Water Resources Commission in June 2022. Following the Plan's approval, the Work Group will meet quarterly and shift focus from planning to implementation. At this time, the Work Group will begin to coordinate implementation funding as a subgroup of the John Day Partnership and will coordinate with the Partnership to implement the Strategic Action Plan. The John Day Partnership has an existing reporting and monitoring protocol, which will also be used to provide clarity and track progress and effectiveness.

Strategic Action Plan

The Strategic Action Plan includes the following sections for each Critical Issue:

- Priority WABs
- Strategies
- Funding
- Team Lead
- Timeline Phase I, II, III
- Status
- Implementation Metric: What was done, how much was completed?
- Effectiveness Monitoring Metric: Did it have primary and secondary impacts in the short and then long term?
- Monitoring/Reporting: Have the actions created healthier or better conditions?
- Notes on how to implement, measure, monitor, and report

See Appendix C for the full Strategic Action Plan. Implementation designs, metrics, and reporting requirements will be refined as distinct projects are developed.

Following is a summary of the 2021-22 Lower John Day Basin Integrated Water Resource Plan (Plan) adoption process and proposed implementation timeline:

- Distribution of the Plan (October 2021)
- Incorporate internal and public comments
- Agency review of Draft Plan (December 2021)
- Incorporate agency comments (see Appendix D - Required Improvements)
- Work Group reviewed and incorporated agency-required edits and all final Work Group edits (March and April 2022)
- Work Group approved and finalized the Plan with full consensus (May 2022). See Appendix E - Declaration of Cooperation Signatories Approval of Lower John Day Integrated Water Resource Plan.
- Approved Plan was submitted to OWRD and the Oregon Water Resources Commission for review
- Co-convenors and select Work Group members presented the final Plan to the Oregon Water Resources Commission (June 2022) for recognition
- Public distribution and publication of the Plan (July/August 2022)

- Publish biennial (2024, 2026, 2028, and 2030) short reports on implementation progress, metrics reporting, funds invested, and case studies to be shared with distribution list and present updates and accomplishments to the Oregon Water Resources Commission
- Update Plan in 2033 based on adaptive management and implementation progress



John Day Basin scenery (Jeffrey Kee photo credit)

Chapter 6: References

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Chapter 7: Appendices

Appendix A - Crosswalk Table

		Strategies	Riparian, Instream and Aquatic Restoration	Upland Management and Restoration (including Irrigation)	Off-channel Storage	Municipal and Domestic Water	Data Collection Monitoring and Feasibility	Outreach and Education	Funding/ Policy Options	Number of Categories	Possible funding sources
Critical Issue 1: Poor Riparian Habitat	Critical Issue #1 Solutions/Strategies	Protect riparian areas from livestock using fencing and off-stream stock watering systems	1						1	1	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Protect, enhance, and/or restore native riparian vegetation	1						1	1	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.)	1	1					1	2	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)									
Critical Issue 2 : Elevated Summer Stream Temperatures and Low Instream Oxygen		Identify, protect, and restore seeps and springs supplying cool water	1	1					1	2	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Maintain and increase streamflows	1						1	1	
		Conduct additional monitoring for temperature and dissolved oxygen	1					1	1	2	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS
		Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)									
		Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)									
Critical Issue 3: Insufficient Instream Flow	Critical Issue #3 Solutions/Strategies	Encourage and assist state agencies in creating additional instream water rights	1						1	1	
		Encourage voluntary leases and transfers of existing water rights to instream use	1					1	1	2	
		Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect portion of water saved instream)	1					1	1	2	
		Implement strategies for Critical Issue 11 (Diversion Data)									
		Implement strategies for Critical Issue 1 (Riparian)									
		Implement strategies for Critical Issue 4 (Storage)									
Critical Issue 4: Storage Needs	Critical Issue #4 Solutions/Strategies	Complete a feasibility study to assess potential off-channel water-storage projects, including: (a) potential locations for storage projects; (b) water availability, including consideration of all categories of in-stream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) in-stream and out-of-stream needs for water from storage; and (d) other costs and benefits	1	1	1		1		1	5	
		Develop off-channel storage projects as suggested by feasibility studies	1	1	1		1		1	5	QWRD
		Implement strategies for Critical Issue 4 (Storage)									
Critical Issue 5: Degraded Native Plant Communities	Critical Issue #5 Solutions/Strategies	Control noxious weeds		1					1	1	OSWB, OWEB-OS, OWEB-FIP (Butte/Thirtymile)
		Restore upland function by improving plant communities with juniper removal, and planting of appropriate perennial bunchgrasses, shrubs, and forbs.		1					1	1	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Implement strategies for Critical Issue 1 (Riparian)									
		Implement strategies for Critical Issue 1 (Riparian)									
Critical Issue 6: Insufficient Efficient Irrigation Infrastructure	Critical Issue #6 Solutions/Strategies	Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption	1	1				1	1	3	
		Promote utility, state and federal incentive programs for improving irrigation efficiency	1	1				1	1	3	
		Replace inefficient and failing diversions and/or screens such as push up dams with new structures that maintain or improve native fish passage	1	1					1	2	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
		Pipe open ditches	1	1					1	2	OWEB-OS, OWEB-SG
		Replace inefficient irrigation systems with more efficient systems (e.g., replace flood irrigation with sprinklers)	1	1					1	2	OWEB-OS, OWEB-SG
		Implement strategies for Critical Issue 6 (Irrigation Infrastructure)									
Critical Issue 7: Inadequate Gauge Data	Critical Issue #7 Solutions/Strategies	Support maintenance of existing gauges	1	1			1		1	3	
		Support installation and maintenance of additional gauges at discontinued and recommended new sites	1	1			1	1	1	5	
		Implement strategies for Critical Issue 7 (Gauge Data)									
Critical Issue 8: Outdated and insufficient municipal water and wastewater infrastructure	Critical Issue #8 Solutions/Strategies	Assist cities in creating and/or improving Water System Management Plan and/or Water Management and Conservation Plan that identify necessary system improvements. Assess whether these plans cover all needed improvements.				1			1	1	
		Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects				1			1	1	
		Support and advocate for increased communication for water conservation in public / municipal water systems and infrastructure needs				1		1	1	2	
		Implement strategies for Critical Issue 8 (Municipal Water and Wastewater Infrastructure)									
Critical Issue 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	Critical Issue #9 Solutions/Strategies	Conduct process based hydrologic study including how stream and groundwater flows change with land use and future climate change	1	1			1		1	3	
		Analyze existing groundwater data, and conduct a groundwater study in the basin	1	1		1	1		1	5	
		Establish, support and help fund additional groundwater monitoring wells and support community groundwater monitoring networks	1	1		1	1	1	1	6	
		Implement strategies for Critical Issue 9 (Groundwater Data)									
Critical Issue 10: Fish passage barriers	Critical Issue #10 Solutions/Strategies										

Critical Issue #10 Suburban/Watersheds	Provide full fish passage (removal, repair and/or replacement) at priority artificial obstructions including culverts and dams.	1						1		OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG
	Assist ODFW with updating list of priority fish passage barriers if necessary	1					1		1	
Critical Issue 11: Inadequate diversion data										
Critical Issue #11 Suburban/Watersheds	Support additional personnel for flow and diversion monitoring and management	1	1				1		1	
	Advocate for irrigator incentives for measurement of diversions, including installing measurement devices	1	1				1	1	1	
	Promote existing incentives for measurement of diversions	1	1				1	1	1	
Critical Issue 12: Poor soil health in many of the Water Availability Basins										
Critical Issue #12 Suburban/Watersheds	Promote good vegetative cover/cover crops		1					1	1	OWEB-OS, OWEB-SG, NRCS-RCPP/EQIP
	Promote mulch tillage, ridge tillage, zone tillage, no till, chem fallow, and CRP as ways to improve soil health, etc.)		1					1	1	OWEB-OS, OWEB-SG, NRCS-RCPP/EQIP
	Support payment programs for landowners adopting soil carbon improvement practices and management that mitigate for greenhouse gas emissions		1					1	1	
Critical Issue 13: Simplified Stream Morphology										
Critical Issue #13 Suburban/Watersheds	Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)									
Critical Issue 14: Adequate surface water for wildlife										
Critical Issue #14 Suburban/Watersheds	Conduct study regarding changes in prevalence and function of springs and causes of changes						1		1	
	Implement strategies for Critical Issues 1 (Riparian) and 5 (Native Plants)									
Critical Issue 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality										
Critical Issue #15 Suburban/Watersheds	Create and promote wildland urban interface buffers, and defensible space around rural homes and buildings		1					1	1	ODF7
	Increase pace and scale of forest restoration, including prescribed burning and thinning		1						1	ODF7
	Support community wildfire response plans		1					1	1	
Critical Issue 16: Insufficient data on crops, climate, and datasets to support analysis.										
Critical Issue #16 Suburban/Watersheds	Support Agri Met station in Basin		1				1		1	
	Support collection of additional LIDAR data		1				1		1	
	Analyze existing data on crop and climate		1				1		1	
Critical Issue 17: Degraded Forest Health										
Critical Issue #17 Suburban/Watersheds	Implement strategies for Critical Issue 5 (Native Plants)									OWEB-OS, OWEB-SG, NRCS-RCPP/EQIP, ODF7, Cooperative agreements with USFS
	Implement prescribed burn and thinning for forest management		1						1	
Critical Issue 18: Erosion and Sediment Transport/Control										
Critical Issue #18 Suburban/Watersheds	Implement strategies for Critical Issue 12									
	Promote best management practices for the capture and safe release of water (Water and sediment control basins, etc.)		1	1				1	1	OWEB-OS, OWEB-SG, NRCS-RCPP/EQIP
Critical Issue 19: Rural and domestic well data gaps										
Critical Issue #19 Suburban/Watersheds	Conduct voluntary survey for non-municipal well users to capture issues associated with domestic water availability and quality					1	1	1	1	
	Provide assistance or technical expertise through OWRD support on installing well level monitors					1	1	1	1	
	Provide information on where to get well water testing kits and technical support for water quality issues					1	1	1	1	
OWEB-OS OWEB-FIP NRCS RCPP/EQIP ODF OWRD BPA CTWS USDA RDI BOR NWFTC Oregon Watershed Enhancement Board Open Solicitation Oregon Watershed Enhancement Board Small Grants Oregon Watershed Enhancement Board Focused Investment Partnership Natural Resources Conservation Service Regional Conservation Partnership Program/Environmental Quality Incentive Program Oregon Department of Forestry Oregon Water Resources Department Bonneville Power Administration/Columbia Basin Water Transmission Program Confederated Tribes of the Warm Springs United States Department of Agriculture-Rural Development Initiative Bureau of Reclamation Federal Appropriations Northwest Power Planning Council										

Appendix B - Strategy Impact Connection Table

Strategies	1. Poor riparian habitat	2. Elevated summer stream temperature in stream oxygen	3. Insufficient instream flow	4. Storage needs	5. Degraded native plant communities	6. Insufficient efficient irrigation infrastructure	7. Inadequate gauge data	8. Outdated and insufficient municipal water and wastewater infrastructure	9. Lack of data on condition of groundwater aquifers and interactions between groundwater and surfacewater	10. Fish passage barriers	11. Inadequate diversion data	12. Poor soil health in many of the Water Availability Basins	13. Simplified stream morphology	14. Adequate surface water for wildlife	15. Risk of invasive or catastrophic wildfire that impacts water quantity and quality	16. Insufficient data on crops, climate, and datasets to support analysis	17. Degraded forest health	18. Erosion and sediment transport/control	19. Rural and domestic well data gaps	Total
1. Protect riparian areas from livestock using fencing and off-stream stock watering systems	1	1	1	x	1					x		x	1	1	x		x	x		6
1. Protect, enhance, and/or restore native riparian vegetation	1	1	1	x	1					x		x	1	1	x		x	x		6
1. Reconnect floodplains (beaver dam removal, beaver restoration, floodplain restoration, etc.)	1	1	1	x	1					1		x	1	1	x		x	x		7
2. Identify, protect, and restore seeps and springs maintaining cool water	x	1	x	x	x					x		x	x	x	x		x	x		1
2. Maintain and increase streamflow	x	1	x	x	x					1		x	x	x	x		x	x		2
2. Conduct additional monitoring for temperature and dissolved oxygen	x	1	x	x	x					x			x	x	x	x				1
3. Encourage and assist state agencies in creating additional upstream water rights	x	1	1	x	x					x		x	1	x	x		x	x		4
3. Encourage voluntary leases and transfers of existing water rights to stream use	x	1	1	x	x					x		x	1	x	x		x	x		4
3. Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect portions of water saved onstream)	x	1	1	x	x	1				x		x	1	x	x		x	x	x	5
4. Complete a feasibility study to assess potential off-channel water storage projects, including: (a) potential locations for storage projects; (b) water availability, including consideration of all categories of in-stream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) in-stream and out-of-stream needs for water from storage; and (d) other costs and benefits	x	x	1	1						x		x	x	x	x		x	x		3
4. Develop off-channel storage projects as suggested by feasibility studies	x	1	1	1						x		x	x	x	x		x	1		5
4. Control noxious weeds	x	x	x		1							x		1	x		1	x		3
5. Restore upland function by improving plant communities with juniper removal and planting of appropriate perennial bunchgrasses, shrubs, and forbs	x	x	x		1					x		x	x	1	x		1	x		3
6. Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption	x	x	x	x	x	1				x	x	x	x	x	x		x	x	x	2
6. Promote utility, state and federal incentive programs for improving irrigation efficiency	x	x	x	x	x	1				x	x	x	x	x	x	x	x	x	x	2
6. Replace inefficient and failing diversions and/or screens such as push up dams with new structures that maintain or improve native fish passage	x	x	x			1				x	x		x	x	x			x		2
6. Pipe open ditches	x	x	x	x	x	1			x	x	x		x	x	x			x	x	2
6. Replace inefficient irrigation systems with more efficient systems (e.g., replace flood irrigation with sprinklers)	x	x	x	x	x	1			x	x	x	x	x	x	x	x	x	x	x	2
7. Support maintenance of existing gauges	x	x	x	x	x	x	1		x	x	x	x	x	x	x	x	x	x		2
7. Support installation and maintenance of additional gauges of discontinued and recommended new sites	x	x	x	x	x	x	1		1	x	x	x	x	x	x	x	x	x		3
8. Assist cities in creating and/or improving Water System Management Plan and/or Water Management and Conservation Plan that identify necessary system improvements. Assess whether these plans cover all needed improvements		x		x				1	x		x				x					1
8. Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects		x						1												1
8. Support and advocate for increased communication to water conservation in public municipal water systems and infrastructure needs		x		x				1												1
9. Conduct process based hydrologic study including low stream and groundwater flow change with land use and future climate change	x	x	x	x	x				1	x		x	x	x	x	x	x		x	1
9. Analyze existing groundwater data, and conduct a groundwater study in the basin	x	x	x	x					1	x			x	x	x	x	x		x	1

	Establish, support and help fund additional groundwater monitoring wells and support community groundwater monitoring networks	X	X	X	X					1	X			X	X	X	X	X		1	2
10	Provide full fish passage (removal, repair and/or replacement) at priority artificial obstructions including culverts and dams	X	X	X							1			X							1
10	Assist ODFW with updating list of priority fish-passage barriers if necessary	X	X	X							1			X							1
11	Support additional personnel for flow and diversion monitoring and management	X	X	1	X	X	X	X		X	X	1	X	X	X	X	X	X		X	3
11	Advocate for irrigator incentives for measurement of diversions, including installing measurement devices	X	X	1	X	X	X	X		X	X	1	X	X	X	X	X	X		X	3
11	Promote existing incentives for measurement of diversions	X	X	1	X	X	X	X		X	X	1	X	X	X	X	X	X		X	3
12	Promote good vegetative cover/cover crops	X	X	X		X					X		1	X	X	X	X	X		1	2
12	Promote mulch tillage, ridge tillage, zone tillage, no till, chem fallow, and CRP as ways to improve soil health, etc.)	X	X										1	X					1	2	
12	Support payment programs for landowners adopting soil carbon improvement practices and management that mitigate for greenhouse gas emissions	X	X										1	X					1	2	
14	Conduct study regarding changes in prevalence and function of springs and causes of changes	X	X	X	X	X				X		X	X	X	1	X	X	X	X	X	2
15	Create and promote wildland urban interface buffers, and defensible space around rural homes and buildings	X	X		X	X							X			1		X	X		1
15	Increase pace and scale of forest restoration, including prescribed burning and thinning					X										1		1			2
15	Support community wildfire response plans															1					1
16	Support April Met station in Basin				X												1				1
16	Support collection of additional Lidar data	X	X	X	X	X	X	X		X		X	X				1				1
16	Analyze existing data on crop and climate	X	X	X	X	X	X	X		X	X	X	X	X	X	X	1	X	X	X	1
17	Implement prescribed burn and thinning for forest management	X	X	X		X							X			X		1			1
18	Promote best management practices for the capture and safe release of water (Water and sediment control basins, etc.)	X	X	X	X	X					X		X	X	X			X	1		1
20	Conduct voluntary survey for non-municipal well users to capture issues associated with domestic water availability and quality		X	X	X					X		X		X			X			1	1
20	Provide assistance or technical expertise through OWRD support on installing well level monitors		X	X	X					X		X		X			X			1	1
20	Provide information on where to get well water testing kits and technical support for water quality issues							X	X			X					X			1	1

Appendix C - Strategic Action Plan

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
PHASE I 2022- 2025										
Critical Issue 1: Poor riparian habitat	Bridge Creek (above West Branch) Bridge Creek (mouth) Bear Creek West Branch Bridge Creek Butte Creek	Protect riparian areas from livestock using fencing and off-stream stock watering systems	NRCS-CREP, CTWS,OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, DEQ 319 grant, BLM, private foundations/organizations (Rocky Mountain Elk Foundation, Blue Mountain Land Trust, ONDA, Ruffed Grouse Society),ODA	SWCD's, WC, ONDA	2022-2025	In Progress	Linear feet of fencing; number of troughs installed.	Increase in area of healthy riparian vegetation at project sites.	yes/no	Conduct suneye measurements or obtain solar input imagery through drone imagery, measure % shade, measuree % of active erosion, measure change in stream temp; Quantify change in solar input per unit area; Quantify # of Acres treated, Linear Ft fenced, number of off stream troughs installed
		Protect, enhance, and/or restore native riparian vegetation	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant,ODA	SWCD's, WC, ONDA	2022-2025	In progress	Number of protection/restoration projects completed; number of stream miles treated with projects.	Increase in areas of healthy riparian vegetation at project sites.	yes/no	Number of Acres treated; Quantify change in: shannon's diversity index; volume, depth and width of pool/rifle habitat; pool to rifle ratio. Reduction in stream temp., increase in groundwater levels, reduce channel incision,% shade,%active erosion, increase stream sinuosity, Total suspended solid in m3, no. of fish count. . increase in linear ft of floodplain, Conduct vegetation surveys to document change in vegetation. Quantify Linear Ft installs, acres of planted natives, acres of invasive species treated, how many species and individual plants planted, Survival rate of plantings,% shade change, % active erosion, Reduction in stream temp. Quantify % change in ground cover, understory, and canopy cover.
		Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.)	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, OWRD grants and loans?	SWCD's, WC, ONDA	2022-2030	In progress	Number of projects completed; stream miles treated.	Increase in streamflows, reductions in stream temperatures, increased, increase in groundwater levels, increase in channel sinuosity, increase in beaver habitation, and increase in area of healthy riparian vegetation (all as measured in project areas).	yes/no	Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach; Conduct habitat surveys (i.e. CHaMP life). Monitor beaver activity, document presence and count of dams, volume and surface area of ponds created by dams vs volume and surface area of water before dams;Quantify the change in the number of dams. Quantify the volume and surface area of beaver ponds. Use remote sensing to map heterogeneity in thermal patterns near BDA's and in control areas

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	Bridge Creek (above West Branch) Bridge Creek (mouth) West Branch Bridge Creek Butte Creek Bear Creek	Identify, protect, and restore seeps and springs supplying cool water	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant, The Freshwater Trust, Trout Unlimited, Mid- Johnd Day/Bridge Creek Watershed Council, Bullet Foundation, Ford Family Foundation, Oregon Community Foundation	CA, ONDA	2022-2025		Number of springs identified, then number protected and restored. Number of spring source fenced off	Reduction in stream temp., Increase in Dissolved Oxygen levels; Increase in flows from springs,	yes/no	Quantify change in volume of cool water available to salmonids (volume of water <18°C 7DAM) pre and post treatment
		Maintain and increase streamflows	OWRD, Columbia Basin Transcation Program (NWIF), Freshwater Trust	OWRD, WW, CA, ONDA			Number of water right applications, Number of conserved water projects,Number of irrigation efficiency projects, etc., to maintain and increase streamflows.	Increase in streamflows.	yes/no	Quantify reduction in stream temp., Quantify icrease in Dissolved Oxygen levels; Quantify change of increase in streamflows. Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach
		Conduct additional monitoring for temperature and dissolved oxygen	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS	CA	2022-2025		Number of additional devices installed to measure/monitor temperature and dissolved oxygen.	Increase in available data on temperature and dissolved oxygen.	yes/no	Install and monitor temperature loggers pre and post treatment, install monitoring devices dissolved oxygen. Measure change in 7DAM temperature.
		Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)			2022-2025					

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 3: Insufficient Instream Flow	Bridge Creek (above West Branch) Bridge Creek (mouth) Rock Creek (mouth) West Branch Bridge Creek Bear Creek Bulle Creek	Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect portion of water saved instream)	CBWTP, BPA, NWPPC, SWCDS NRCS, TU	SWCD, WC	2022-2025		Number of irrigation efficiency projects installed/upgraded; quantity of water projected instream using Conserved Water Act. Number of irrigators educated on efficiency opportunities.	Increase in streamflow resulting from projects completed.	yes/no	Quantify irrigation projects installed or upgraded - VFD pumps, sprinkler nozzles, irrigation converted from gun to wheel, or wheel to pivot. Number of new monitoring stations installed; quantify the volume of water saved and estimate distance held as instream flow (volume x distance from improved POD to next downstream POD where water is removed, include water temperature of diverted water saved
		Encourage voluntary leases and transfers of existing water rights to instream use	OWRD, CBWTP, Ag groups, Columbia Basin Transaction Program (NWIF)	SWCD, WC, WW	2022-2025		Number of leases identified and then transferred. Amount of water protected instream through leases and permanent transfers of existing water rights to instream water rights.	Increase in streamflow resulting from leases and transfers.	yes/no	Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach Quantify the number of leases, and cfs recruited.
		Encourage and assist state agencies in creating additional instream water rights	ODFW, OWRD	OWRD, WW	2022-2025		Number of actions taken to encourage agencies to seek additional instream water rights.	Number of additional instream water rights applied for; number approved; increase in streamflows resulting from additional instream water rights.		Percent increase in streamflows (cfs) measured at priority WAB gages; number of agency personnel trained or hired for instream flow work.
		Implement strategies for Critical Issue 11 (Diversion Data)			2022-2025					
		Implement strategies for Critical Issue 1 (Riparian)			2022-2025					
		Implement strategies for Critical Issue 4 (Storage)			2022-2025					

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 4: Storage Needs	West Branch Bridge Creek Thirty mile Sorefoot creek Pine Hollow Bridge creek (above West Branch)	Complete a feasibility study to assess potential off-channel water-storage projects, including: (a) potential locations for storage projects; (b) water availability, including consideration of all categories of in-stream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) in-stream and out-of-stream needs for water from storage; and (d) other costs and benefits	OWRD, Oregon Cattlemens Association, Oregon Farm Bureau, Oregon Department of Agriculture, DEQ 319, USDA Rural Initiative	OWRD, SNW, WW	2022-2025		Number of applications submitted for funding feasibility study.	Study findings presented to LJDWG, JDP and community.	yes/no	Study findings presented to LJDWG, JDP and community. Number of AcreFeet of storage proposed or not proposed from study. off channel storage sites recommended or not recommended.
		Develop off-channel storage projects as suggested by feasibility studies	OWRD, NRCS, SWCD, Watershed Councils, OCA, OFB	TBD	2022-2025		Number of projects consistent with studies implemented (if any).	Increase in water available for instream and out-of-stream needs during dry months; maintenance instream flow needs throughout the year.	yes/no	TBD based on feasibility study outcomes

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 5: Degraded Native Plant Communities	Bear Creek Bridge Creek (above west branch) Butte creek Rock creek (above Wallace Canyon), Rock creek (mouth)	Control noxious weeds	OSWB, OWEB-OS, OWEB-FIP (Butte/Thirtymile), SWCD, Oregon Cattlemen's Association, Oregon Farm Bureau, ODA, National Parks (JD Fossil Beds National Monument) ONDA, BlueMountain Land Trust, RMEF	SWCD, NRCS	2022-2025		Number of projects and acres treated to control noxious weeds.	Decrease in noxious weeds.	yes/no	Quantify acres treated, projects completed. Document conditions pre and post treatment by estimating density of invasive plants, note methods used
		Restore upland function by improving plant communities with juniper removal, and planting of appropriate perennial bunchgrasses, shrubs, and forbs.	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG	SWCD, NRCS	2022-2025		Number of projects completed; area covered by projects.	Number of acres treated, land owners/managers participating Increase in area of healthy native plant communities.	yes/no	Identify areas to be thinned, Monitor plant density, vigor, and composition pre and post treatment. Include 2yr survival post planting
		Implement strategies for Critical Issue 1 (Riparian)			2022-2025					

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
PHASE II 2025-2027										
Critical Issue 6: Insufficient Efficient Irrigation Infrastructure	Alder Creek, Kahler Creek, Rock Creek (mouth), West Branch Bridge Creek, Rock creek (mouth), John Day mainstem-Heidtman Canyon to N.Fork, Mouth to Heidtmann Canyon	Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption	Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319. ODA. Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, TU, National Parks (JDFBNM)	SWCD, WC	2025-2027		Workshop delivered, # Field tours	Number of irrigators educated, presence of BPA irrigation specialists providing services, Number of projects upgraded or converted.	yes/no	
		Promote utility, state and federal incentive programs for improving irrigation efficiency	Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319. ODA. Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, TU, National Parks (JDFBNM)		2025-2027		Workshop delivered, # Field tours	Presence of utility services provided through BPA .Irrigation efficiency projects implemented as a result of promotion.	yes/no	
		Replace inefficient and failing diversions and/or screens such as push up dams with new structures that maintain or improve native fish passage	ODFW, OWEB, Private Foundations		2025-2027		number of failing diversions, push up dams fixed and removed Number of diversions replaced and/or screened to improve fish passage.	Improved fish passage: fewer fish pulled into diversion works Increase (or reduced decline) in native migratory fish populations due to fish passage improvements at projects.	yes/no	
		Pipe open ditches	BOR (WaterSmart), OWRD (Water projects grants and loans), Local SWCD, EQIP NRCS		2025-2027		Linear feet piped	Amount of water conserved	yes/no	
		Replace inefficient irrigation systems with more efficient systems (e.g., replace flood irrigation with sprinklers)	OWEB, NRCS, CBWTP, BPA, Tribes		2025-2027		# projects upgraded; Number of irrigation systems replaced with more efficient systems.	Amount of water conserved for in and out of stream needs from efficiency projects; Amount of water conserved as a result of efficiency projects.	yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 7: Inadequate Gauge Data	Bear Creek, Bridge Creek(above West Branch), Bridge Creek (mouth), Butte Creek,Thirty mile	Support maintenance of existing gauges	OWRD, USGS, ODA, Columbia basin water transaction program, Oregon Cattlemens Association, Oregon Farm Bureau		2025-2027		OWRD capacity increase and prioritization Actions taken to support maintenance of existing gauges.	Number stream gages maintained	yes/no	
		Support installation and maintenance of additional gauges at discontinued and recommended new sites	OWRD, USGS, TU, ODA		2025-2027		OWRD capacity increase and prioritization Actions taken to support installation and maintenance of additional gauges.	Number of stream new and/or restored gages installed	yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 8: Outdated and insufficient municipal water and wastewater infrastructure	Butte Creek, Grass Valley Canyon, John Day Mainstem, Mouth to Heidtmann Canyon, Bridge Creek (above West Branch), Thirtymile Creek	Assist cities in creating and/or improving Water System Management Plan and/or Water Management and Conservation Plan that identify necessary system improvements. Assess whether these plans cover all needed improvements.	USDA Rural Initiative, local cities, local counties, State of Oregon, Oregon Community Foundation, Collins Foundation, create Local Improvement Districts, WaterSmart (BOR)		2025-2027		# of cities and municipal systems assisted	Number of plans developed	yes/no	
		Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects	same		2025-2027		Number of cities and municipal systems assisted	Number of projects developed, wastewater treatment upgrades, gallons of water treated	yes/no	
		Support and advocate for increased communication for water conservation in public / municipal water systems and infrastructure needs	OWRD, State of Oregon Legislature, Capacity grants (OWEB), Association of Oregon counties?		2025-2027		Number of newsletters and communication material distributed by water utilities, SWCD, Watershed Councils and other related and earned media news outlets	Increase in water conservation attributable to outreach; increase in support for necessary infrastructure projects	yes/no	Number of wastewater systems funded and improved

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	Grass Valley Canyon, Jackknife Canyon, Rock Creek (above Wallace Canyon), Rock Creek (mouth),	Conduct process based hydrologic study including how stream and groundwater flows change with land use and future climate change.	OWRD, USDA rural initiatives, O Department of Geology and Mineral Industries, Oregon Groundwater Association, Oregon Community Foundation, Ford Family Foundation, Association of Oregon Counties		2025-2027		Whether study was completed. Number of watersheds analyzed	Increase in knowledge regarding issues addressed.	yes/no	LJDWG/JDP outreach to community to share study results.
		Analyze existing groundwater data, and conduct a groundwater study in the basin	OWRD, OWEB, Gilliam, Sherman, Wheeler, Grant Counties, OCA, OFB, BOR, USGS		2025-2027		Number of groundwater studies conducted. Analysis of existing groundwater data;	Increase in knowledge re condition of groundwater aquifers and interactions between groundwater and surface water	yes/no	LJDWG/JDP outreach to community to share groundwater data.
		Establish, support and help fund additional groundwater monitoring wells and support community groundwater monitoring networks	Association of Oregon Counties, OCA, OFB				Number of additional groundwater monitoring wells installed; number of participants in community groundwater monitoring network.	Increase in knowledge re condition of groundwater aquifers and interactions between groundwater and surface water. Percent change in groundwater levels.	yes/no	Quantify % Change in aquifer levels.

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 10: Fish passage barriers	Alder Creek, Bear Creek, Bridge Creek (above West Branch), Bridge Creek (mouth), Butte Creek	Provide full fish passage (removal, repair and/or replacement) at priority artificial obstructions including culverts and dams.	USFS, BLM, OWEB, ODFW, CT of the Warm Springs and the Umatilla, SWCDS, Watershed Councils, TU, Bullitt Foundation, RMEF		2025-2027		Number of priority obstructions at which full fish passage provided.	Increase (or reduced decline) in native migratory fish populations due to fish passage improvements at projects.	yes/no	Monitor, quantify fish distribution as a result of fish barrier improvements. Number of barriers improved/ removed, quantify fish presence, estimate length of stream occupied pre and post restoration; Quantify change in % survival via PIT tagging and passive redetection.
		Assist ODFW with updating list of priority fish-passage barriers if necessary	BLM, USFS, Councils, SWCD, TU		2025-2027		Number of inputs to ODFW regarding identification of priority fish passage barriers (if necessary)	Accuracy of list of priority fish-passage barriers.	yes/no	Monitor, quantify fish distribution as a result of fish barrier improvements. Number of barriers improved/ removed, quantify fish presence, estimate length of stream occupied pre and post restoration; Quantify change in % survival via PIT tagging and passive redetection.

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
PHASE III 2027-2030										
Critical Issue 11: Inadequate diversion data	Bridge Creek (above West Branch), Bear Creek, West Branch Bridge Creek, Rock Creek (mouth), Thirty mile Creek, Butte Creek, BLM, USFS	Support additional personnel for flow and diversion monitoring and management	OWRD, ODA, NW Power Planning Council, Bonneville Power Administration, Tribes, BLM USFS, USGS, NOAA		2027-2030		Number of actions taken to support increase in personnel for flow and diversion monitoring and management.	Number of additional personnel for flow and diversion monitoring and management.	yes/no	
		Advocate for irrigator incentives for measurement of diversions, including installing measurement devices	OWRD, OCA, OFB, Association of Oregon Counties		2027-2030		Actions taken to advocate for incentives.	Number of measuring devices installed as a result of incentives obtained.	yes/no	
		Promote existing incentives for measurement of diversions	OFB, OCA, OWEB, NRCS, SWCD's		2027-2030		number of entities adopting new rules ie, all SWCD's require Actions taken to promote incentives.	Number of measuring devices installed as a result of incentives obtained.	yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 12: Poor soil health in many of the Water Availability Basins	Grass Valley Canyon, Esau Canyon, John Day River - Heidtmann Canyon to N Fork, Rock Creek (above Wallace Canyon), Rock Creek (mouth)	Promote good vegetative cover/cover crops.	ODA < Cattlemen, Farm Bureau, SWCD, USDA NRCS		2027-2030		Actions taken, acres covered, number of actions/projects taken to promote veg cover.	Increase in acreage/area with good vegetative cover/cover crop as a result of promotion.	yes/no	Quantify downstream habitat protected, measure sediment storage post treatment
		Promote mulch tillage, ridge tillage, zone tillage, no till, chem fallow, and CRP as ways to improve soil health, etc.)	SWCD, NRCS, ODA		2027-2030		Actions taken to promote improved soil condition, number of acres under changed tillage practices	Increase in promoted practices resulting from promotion.	yes/no	Measure carbon uptake in soils through NRCS/SNW pilot. Quantify downstream habitat protected, measure sediment storage post treatment
		Support payment programs for landowners adopting soil carbon improvement practices and management that mitigates for greenhouse gas emissions	Ecotrust, private companies, Oregon Tilth, Climate Trust,		2027-2030		Number of projects and action taken to promote carbon sequestering	Number of projects completed as a result of payment programs promoted.	yes/no	Number of landowners, numbers of projects, number of soil samples, carbon increased

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 13: Simplified Stream Morphology	Bear Creek, Bridge Creek (above West Branch), Bridge Creek (mouth), Butte Creek, Thirtymile Creek	Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)	OWEB, Councils, Tribes, Private Foundations, BPA, NWPPC, TU		2027-2030				yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 14: Adequate surface water for wildlife	Bear Creek, Bridge Creek (above West Branch), Butte Creek, Thirtymile Creek, West Branch Bridge Creek	Conduct study regarding changes in prevalence and function of springs and causes of changes	RMEF, TU, Ruffed Grouse Society, Oregon Wildlife Society, Tribes		2027-2030		number of studies	Increase in knowledge resulting from study.	yes/no	Track spring protection and restoration.
		Implement strategies for Critical Issues 1 (Riparian) and 5 (Native Plants)			2027-2030				yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality	Butte Creek, Rock Creek (mouth), Thirtymile Creek, West Branch Bridge Creek, Pine Creek, Pine Hollow	Create and promote wildland urban interface buffers, and defensible space around rural homes and buildings.	Oregon Department of Forestry, USDA, OWEB, Private Foundations, Tribes, OR cattlemens association Oregon Farm Bureau, SWCD's BLM, USFS		2027-2030		number of acres treated, number of structure protected	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	
		Increase pace and scale of forest restoration, including prescribed burning and thinning	ODF, USFS, BLM		2027-2030		Acres treated	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	
		Support community wildfire response plans	ODF, USFS, FEMA, Local WC's and cities		2027-2030		Actions taken to support plans.	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	Track identified actions

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 16: Insufficient data on crops, climate, and datasets to support analysis.	Bridge Creek (mouth), West Branch Bridge Creek, Parrish Creek, John Day River - Heidtmann Canyon to N Fork, John Day River - Mouth to Heidtmann Canyon	Support Agri Met station in Basin	ODA, Cattlemen, Farm Bureau, SWCD's NRCS		2027-2030		Actions taken to support station.	Number of stations added.	yes/no	
		Support collection of additional Lidar data	NRCS, DOGAMI (State Dept. of Geology and Industries)		2027-2030		Actions taken to support collection of additional data.	Amount of additional data collected.	yes/no	
		Analyze existing data on crop and climate	AgCenter (ODA), ODA, OSU (OCCI), ARS, National Agriculture Statistics Census USDA		2027-2030		Actions taken to analyze data.	Increase in knowledge resulting from analysis.	yes/no	

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 17: Degraded Forest Health	Bear Creek,Bridge Creek (above West Branch), Bridge Creek (mouth), Kahler Creek, Parrish Creek	Implement strategies for Critical Issue 5 (Native Plants)	USFS BLM SWCDS, Or Cattlemen, Oregon Farm Bureau ODF		2027-2030				yes/no	
		Implement prescribed burn and thinning for forest management	ODF,USFS,FEMA, Local WC's and cities, NRCS,OWEB		2027-2030		Number of projects and acres treated.	Acres thinned/treated, projects completed. Increase in area of healthy forest resulting from projects.	yes/no	Quantify acres thinned and transpiration loss due to vegetation pre and post treatment. Record forest stand composition pre and post treatment

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN										
Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 18: Erosion and Sediment Transport/Control	Butte Creek Thirty mile Creek Bridge Creek (above West Branch) Bridge Creek (mouth) Bear Creek	Implement strategies for Critical Issue 12	NRCS, SWCD's, AG groups, ODA		2027-2030				yes/no	
		Promote best management practices for the capture and safe release of water (Water and sediment control basins, etc.)	OWIRD, DEQ-319, NRCS, SWCD's		2027-2030		Actions taken to promote.	Number of projects undertaken as a result of promotion; improvements in water quality as a result of projects.	yes/no	Quantify downstream habitat protected, measure sediment storage post treatment

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Status	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 19: Rural and domestic well data gaps	Grass Valley Canyon Rhodes Canyon Rock Creek (above Wallace Canyon) Butte Creek Hay Creek	Conduct voluntary survey for non-municipal well users to capture issues associated with domestic water availability and quality	OWRD,OWEB?, Private foundations, USDA		2027-2030		Whether survey conducted.	Increase in knowledge regarding issues associated with domestic water availability and quality.	yes/no	
		Provide assistance or technical expertise through OWRD support on installing well level monitors.	OWRD,USGS,BOR		2027-2030		Number of people assisted	Number of monitors installed; increase in knowledge regarding groundwater as a result of increased number of monitors.	yes/no	
		Provide information on where to get well water testing kits and technical support for water quality issues	OWRD,OHA		2027-2030		Actions taken to provide information from local water district or agency or county or municipal services agency	Number of people assisted; number of tests conducted; improvements to water quality from rural and domestic wells.	yes/no	

Appendix D - Required Improvements

Attachment 1 – Strengths Identified by the Plan Review Team

In the review of the Lower John Day Work Group’s DRAFT place-based integrated water resources plan, the plan review team identified many strengths of the Draft Plan. They are documented below and organized by the criteria identified in the Draft Planning Step 5 Guidance.

Planning Guideline or IWRS Principle	Strengths Identified by Plan Review Team
Balanced Representation of Interests	The Plan indicates that multiple and diverse stakeholders including local, state, and federal agencies Tribes, landowners, industry, and municipalities participated in the planning. Overall, the Work Group included diverse interests, a balanced representation of instream and out-of-stream water needs, inclusivity, and multiple outreach pathways during the planning process (e.g., site visit tours, frequent outreach to landowner groups, consideration of recreation/tourism interests, etc.). The plan describes a process for engaging all interests in a fair and balanced manner. There is a description of efforts made to engage water sectors which did not participate frequently. The plan describes the outreach conducted to reach people using a variety of techniques. The plan describes how the meetings were open to the public and efforts taken to consider public input and comment on reports and the draft plan. Decisions were made following the Declaration of Cooperation and consensus minus 10% voting system. The plan is generally attractive, readable, and approachable to a general reader.
Collaborative and Integrated Process	The Plan demonstrates agility and adaptation when trying to incorporate participation from a wider range of participants. It acknowledges weakness, describes efforts to accommodate different scheduling needs, and explains why certain paths were not pursued (e.g. multi-lingual outreach materials). It can be daunting to be the first group to participate in a new program, and the Work Group is certainly to be commended for a commitment to exploring collaborative approaches and all the work of planning.
Public Process	The Work Group allowed for public comment throughout the process with every meeting open to the public with a public comment opportunity. The Plan includes a detailed description of the outreach process and the effort to go to community members instead of expecting them to come to the group. The definitions section that will aid in public outreach and understanding. The section, Overall Outreach Considerations, demonstrates the group’s self-awareness and reflection abilities. The footnotes about changing participation (page 1, Executive Summary) reflects good transparency about participant involvement over time. The PRT appreciated the outreach utilizing Soil and Water Conservation District and Watershed Council contacts and meetings.

OWRD Consultation	The plan was conducted in consultation with the Department and other state agency partners.
Scope of Planning Effort	Excellent visuals in much of the plan make the plan generally easy to understand, including the scope of the planning effort.
Understanding Water Resource Supply, Quality, & Ecological Issues	The plan documents an understanding of water resources supply, quality, and ecological issues to the extent data is available, for both groundwater and surface water, and identifies data gaps where they exist.
Current and Future Water Needs	The Plan found added information to help fill data gaps, for example on page 28, the plan references local field guides and Bureau of Land Management data to surmise that summer flows are too low for many recreational activities.
Solutions or Recommended Actions	The strategies and related restoration actions outlined will improve agricultural management practices which will improve agricultural water quality. In addition, the Plan has prioritized areas for restoration which could be an opportunity to overlap an Oregon Department of Agriculture Strategic Implementation Area. The Plan Review Team (PRT) appreciates that the planning group incorporated evaluating the strategies based on whether they would address multiple Critical Issues (page 50). This approach will hopefully result in maximizing limited resources and encouraging participants to think more broadly about how many issues (and solutions) are interrelated.
Addresses In-stream and Out-of-Stream Needs	The PRT commends the Work Group for using best available information and methodology for calculating instream demand. The Work Group analysis included a summary of existing Instream Water Rights (ISWRs) in the planning area, estimates of minimum and optimum flows found in the Oregon Fish and Wildlife Department's (ODFW) Basin Investigation Report, and an additional use of a presumptive standard when flow targets were not available. The PRT is pleased that the Work Group looked beyond existing instream water rights and recognized limitations in the analysis, because using instream water rights as a proxy for instream need has limitations. The Work Group also looked at future flow needs based on the Oregon Climate Change Research Institute's climate change projections.
Validity of Information	In most cases the information is explained or referenced.
Information and data gaps	A great deal was accomplished given the limited time and resources, and the PRT acknowledges that much of the information needed for the assessment was not readily available when needed. We appreciate the recognition that ISWRs are "well below estimated instream flow needs," that some tributary basins have no instream flow estimates, and not all categories of instream flows are estimated. The general language of the

	plan and clear identification of data gaps indicates a real desire to better understand these limitations. The PRT is pleased to see that the Work Group recognizes the value of instream flows and is committed to acquiring information to fill data gaps - including a full suite of instream needs - and using that information to plan, implement, and monitor pilot projects in high-priority areas.
Plan Adoption by Planning Group	The plan describes a process for incorporating PRT feedback and adopting the Final Plan by consensus.
Implementation Strategy	The plan cross-walked critical issues and actions to assure success is more likely. The plan identifies potential funding sources for various actions and has a roadmap of next steps once the plan is approved, including team leads and timelines. The plan utilizes the John Day Basin Partnership as an umbrella to foster this subgroup, serve as a receptacle for data and metrics. The Appendices include the Strategic Action Plan spreadsheet where detail of critical issues is easy to read when enlarged. The implementation plan is strategic and clearly defines implementation priority areas, rationale for these areas, and interrelated components of the proposed strategic actions. The PRT appreciated the prioritization of Water Availability Basins and assume that this will be used to prioritize locations for the strategies listed in Appendix C. We also appreciate the notes on how to implement, measure, monitor, and report because it indicates that the group has spent time considering these issues.

Attachment 2 – Required Improvements

The changes identified in the table below are those that are required for the Lower John Day Work Group’s Integrated Water Resources Plan to receive a recommendation from the review team that the Water Resources Commission recognize the plan. The changes are organized by requirement category and question in column 1 (see Appendix B of the Draft Step 5 Guidance for full list of required categories). In addition to the review team finding (column 2), the table lays out a proposed solution (column 3) as well as notes where in the draft plan the solution might be placed to address the issue (column 4). In addition to helping secure a recommendation to the Commission that the plan receive state recognition, there are many other benefits to adopting these changes, including 1) demonstrate, document, and memorialize that the plan and planning process followed the Draft Planning Guidelines and IWRS principles, 2) improve appeal to funders, and 3) facilitate and aid implementation.

Requirement Category and Review Question	Review Team Finding	Proposed Solution	Location in Draft Plan	Comments added
Current and Future Water Needs	Meeting water needs should be considered within the context of specific watersheds, accounting for the hydrological, geological, biological, climatic, socio-economic, cultural, legal, and political conditions of a community. The Warm Springs Tribes are listed as a planning partner, but the plan does not describe their historic or current cultural uses of aquatic resources in the planning area.	The plan should describe how the Warm Springs Tribes have used aquatic resources in the planning area, current activities related to those interests such as ownership, restoration programs, and protection of significant cultural fishing sites. The Tribes’ John Day Basin Restoration Strategy may be one source of such information. The PRT recommends this information be summarized in the Basin Overview section to provide context to the planning effort.	Place in the Basin Overview section.	Chapter 2. Basin Overview pg. 22-24 Map- pg. 23

Understanding Water Resource Supply, Quality, and Ecological Issues Does the Plan document an understanding of the water resources supply, quality, and ecological issues in the planning area for both surface and groundwater?	The PRT found the Draft Plan lacks a clear explanation of major surface water resources early in the document to orient the reader to major tributaries and sources of water in the planning area, or entering the planning area, that would help demonstrate an understanding of water supply. The map provided of the planning area, in the Geographic Scope section on page 5, does not include streams or the community of Kimberly which is mentioned as an important location. The Plan does not clearly describe the water quality impairments and TMDLs identified by the Oregon DEQ.	The PRT recommends inclusion of a stream network map and description be included in the Basin Overview section, and in Chapter 2, showing the river and names of major tributaries and including the confluence of the North Fork and mainstem river at the upper end of the planning area, at Kimberly, where a large portion of the planning area water comes from. The PRT recommends including in the water quality section the following information: There are currently TMDLs for Temperature and Bacteria. Dissolved Oxygen and impaired biologic conditions have also been identified as impairments but will be addressed through the implementation of the Temperature TMDL. Streams in this basin have also been listed for sedimentation, which has been co-assessed during TMDL monitoring and assessment. A Sedimentation TMDL has not yet been established but many measures that can reduce	Basin Overview and Chapter 2 Water Quality Section in Chapter 2 Page 28	Chapter 2, Water Budget pg. 25 added map and verbiage on major tributaries influences from Step 2 report. Pg. 41 Added as suggested page 33 additional and additional language from Step 2 Report
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	While Chapter 2 describes the causes of watershed degradation (page 20), the Water Quality Section does not reference the causes of the water quality concerns (e.g. human-related land-use and landscape modifications)	stream temperatures will also address sedimentation. By providing more detail explaining the contributing causes of the impairments, the Plan will more clearly demonstrate an understanding of both water quality conditions, the contributing causes, and how they will be addressed through the Implementation Strategies in this particular section. Please add more detail to page 28. For example, this excerpt is taken from DEQ's 2010 Water Quality Management Plan for the Lower John Day (page 4) and it bridges the connection between the impairments and human activities: <i>The Temperature Water Quality Standards is based on fisheries as the most sensitive beneficial use of waters. Cold-water fish are particularly sensitive to stream temperatures, and substantial heating occurs each year due to human-related landscape modifications (DEQ, Water</i>		
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[illegible]

	emphasis placed on addressing out-of-stream needs. In Chapter 4, the language talks about priorities for “restoration” rather than plan implementation in the broader sense.	reader understands this balanced intent during phasing.		
Validity of Information	Much of the definition of a Water Availability Basin explains the Water Availability Reporting System.	Other than the first sentence of the WAB definition, the remainder should be moved to the WARS definition.	Terms and Definitions, Page 4	Page 4
Plan Adoption by Planning Group Does the planning group have a sound process for final review and adoption of the Final Plan?	The Commission will review the adopted Final Plan, not comment on a Draft Plan to then be finalized. The PRT points this out at this stage to be sure the Work Group has a clear understanding and so the Final Plan will document <i>what was done</i> between the Draft Plan and adopted Final Plan.	The Final Plan should describe the process <i>that was used</i> to convert the Draft Plan into an adopted Final Plan for Commission review and recognition.	Executive Summary, Page 2 and Chapter 5, page 58 and 59	Pg 2 Pg 65

Attachment 3 Considerations for Plan Implementation

This attachment provides some considerations for plan implementation identified by the plan review team agencies. These are offered to help the group transition to successful implementation of the plan. Over the next several months, the Lower John Day Work Group and state agencies can discuss how best to partner during plan implementation.

Implementation Generally

The Work Group should consider tracking of lessons learned as this process matures and possibly report on progress to the Water Resources Commission in the future.

Outreach

Consider refining outreach strategy and continuing outreach committee and shift focus to keeping community informed of implementation actions and adaptive management. How will the Work Group keep members and community engaged and informed during 8 years of implementation?

During implementation of proposed actions, the Plan Review Team encourages initiating outreach with Tribal members, immigrants, and immigrant agricultural workers. There is still opportunity to engage and exchange information with these groups. For ideas and examples of collaboration and inclusion of historically marginalized and excluded communities, please review the report written by the Oregon Water Futures Project: <https://www.oregonwaterfutures.org/>.

Pursuit of Recommended Actions

A cost-benefit analysis of top strategies or actions can help determine those with a high likelihood of being effective at a reasonable cost.

A crosswalk table with the statewide Integrated Water Resources Strategy recommended actions would help the Commission, and others, understand in which areas the place-based plan is aligned with the IWRS and help state agencies in directing resources to aligned actions. This could be included as an Appendix to the plan and/or in the presentation to the Commission.

New instream water rights are useful in setting restoration goals but will be junior in priority to existing uses and alone aren't an effective tool in improving flows in WABs that are already fully/over allocated.

The Work Group should consider focusing priorities on irrigation efficiencies and flow restoration in basins where it will result in wet water (e.g., larger tributaries with higher natural flow and where currently irrigated) and where there are willing landowners with senior, reliable rights.

Project implementation would be more beneficial in locations that work together synergistically (e.g., watershed-based approach as opposed to a more random, opportunistic approach).

Climate change projections are discussed, but there was limited connection to future needs. The Work Group should be open to adaptive strategies and potential shifting priorities to account for climate change moving forward.

Technical Work and Filling Data Gaps

Is there a roadmap for funding acquisition of data, identified in the data gap analysis?

For surface and groundwater data gaps, consider reaching out to OWRD staff early during implementation to discuss where stream-gaging is most critical from the Work Groups' perspective, and next steps in expanding the groundwater monitoring network. The Work Group could help OWRD identify well owners who may be willing to have their wells monitored to help understand the groundwater conditions.

ODFW guidance will be available soon if the Work Group wants to use it to update the Instream Demand. Additional datasets include StreamStats and NHD; see ODFW letter dated October 25, 2021, and "Implementation" section below for more information. ODFW will be happy to continue collaboration with the Work Group to further refine the Instream Demand as you look towards Plan implementation.

The Plan could explicitly call out the need for more in-depth field studies and possibly prioritize locations, as well as include an implementation action that clearly identifies the need to address data gaps and identify how new instream demand estimates (if calculated) will be utilized in project prioritization.

Implementation Coordination

ODFW Partnership

- ODFW recommends the following items for consideration as the Work Group moves forward with implementation:
 - More fully characterize basin-wide instream needs using ODFW's updated guidance document (expected early 2022) to provide a foundational assessment, particularly on streams with sensitive, threatened, or endangered species that currently lack instream targets. The new ODFW guidance builds on your existing analysis and will provide a means to utilize additional data sources for estimating instream needs. ODFW may be able to assist with this analysis as time and resources allow.
 - Use outcomes of the updated instream needs assessment, along with existing data, to identify high-priority locations for pilot projects that address instream needs. Existing data may include (but are not limited to):
 - ODFW's Aquatic Habitat Prioritization (expected 2022) and other relevant geospatial datasets that will contribute to location prioritization.
 - Findings from earlier Work Group planning steps.
 - Existing IFIM studies or other studies that address habitat requirements.
 - Sites with water temperature data.
 - Other relevant data from local, state, tribal, and federal partners, and data from other restoration scientists/practitioners (e.g., NGOs, academia, consultants).
 - Plan, implement, and monitor pilot projects that focus on:
 - Seasonally Varying Flow (SVF) Targets
 - Existing ODFW instream flow targets are based on species-specific instream needs for each life stage (e.g., springtime flows necessary for steelhead spawning, summer flows for juvenile rearing, and fall flows

for Chinook and Coho spawning). Streamflows necessary for broader habitat maintenance and formation (e.g., pool development, gravel recruitment, etc.) are not currently incorporated into ODFW instream flow target development. Present methodologies primarily base late fall-early spring instream flow targets on juvenile rearing and/or egg incubation needs, which are typically minimal relative to natural flow conditions during this period of peak annual flows. ODFW intends to identify and develop techniques for the determination of peak channel maintenance and formation flows in the next several years. The Lower John Day planning area may provide an ideal pilot location to test techniques and collect field data.

- **Temperature-based Flow Targets**
 - Similar to peak habitat maintenance and formation flows, relationships between water temperature, streamflow, and species thermal limits have not, until recently, been incorporated into ODFW instream flow target development. As climate change progresses, water temperature is anticipated to become a primary limiting factor for cold-water species. ODFW is initiating pilot projects around the state to incorporate relationships between water temperature and streamflow into development of instream flow targets. These assessments typically require several years of paired water temperature and streamflow datasets. ODFW is interested in working with the Work Group to scope potential data collection locations and collaborate on water temperature logger deployment and retrieval. Following several seasons of data collection, ODFW would develop updated water temperature-based instream flow targets for study sites, which could aid in prioritizing actions for implementation.
- **Instream Water Right Monitoring**
 - ODFW has applied for the vast majority of instream water rights in Oregon, with the intent of identifying and legally protecting the flows necessary for the health of aquatic ecosystems. However, in many parts of the state, these instream water rights are junior to most out-of-stream water rights (senior rights in terms of prior appropriation) and, therefore, result in minimal actual protection of instream flows. ODFW is interested in collaborating with OWRD and the Work Group to develop a monitoring framework that assesses gaps in stream gage coverage and identifies priority locations for additional gages to improve protection of streamflows afforded by instream water rights.
 - Strategic placement of new gages in priority locations can also aide in identifying areas in need of additional instream flow protection or in assessing success of ongoing restoration work. For example, a new gage in Thirtymile Creek would complement ongoing fish research and project implementation and allow ODFW to correlate flows with fish/restoration response.

Attachment 4

- ODFW will conduct limited IFIM studies in the Planning Area, but not this year as preliminarily discussed (likely 2023).
 - ODFW would appreciate the Work Group's assistance in seeking access to private properties (e.g., Grass Valley is mostly private), particularly where there are currently no instream protections, as access is currently limiting ODFW site selection.
 - Priority sites identified in the Plan line up well with ODFW's priorities, so we hope to collaborate on site selection where there is a nexus.
- ODFW has initiated studies in Bridge Creek regarding flow targets based on temperature.
- ODFW may be interested in collecting new data on streams/reaches where BIR targets appear inadequate.

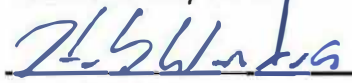
Appendix E - Declaration of Cooperation Signatories Approval of Lower John Day Integrated Water Resource Plan

Declaration of Cooperation Signatories Approval of Lower John Day Integrated Water Resource Plan-

Partners Participating in the Place-Based Integrated Water Resource Planning Pilot in the Lower John Day Subbasin (Grant #G-0601-LJD). Signatories below have acknowledged and approved the Final Lower John Day Integrated Water Resource Plan as of May 17th, 2022.

Organization and Representative

1. Gilliam County SWCD

 5-17-22
Herb Winters 5-17-2022

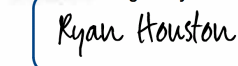
2. Gilliam-East John Day Watershed Council

 5-17-2022
Katie Garthwaite 5-17-2022

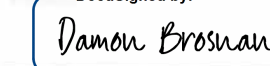
3. Mid-John Day/Bridge Creek Watershed Council


Debbi Bunch 5-17-2022

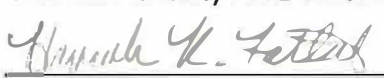
4. ONDA

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8C260E3C4272445...
Ryan Houston 5-17-2022

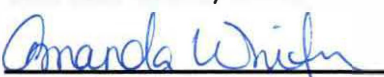
5. NRCS

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Damon Brosnan 5-17-2022

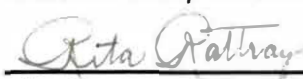
6. Sherman County Area Watershed Council

 5/17/2022
Hannah Fatland 5-17-2022

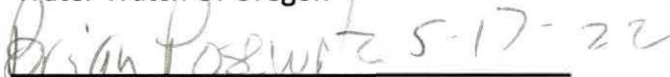
7. Sherman County SWCD

 5/17/2022
Amanda Whitman 5-17-2022

8. Gilliam County Cattleman

 5/17/22
Rita Rattray 5-17-2022

9. Water Watch Of Oregon

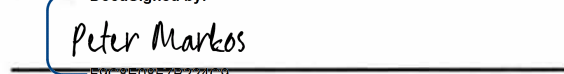

Brin Posewitz 5-17-22
5-17-2022

10. Oregon Water Resources Department


Steve Parrett 5-17-22
5-17-2022

11. DEQ

DocuSigned by:


Peter Markos
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5-17-2022

12. Confederated Tribes of Warm Springs

DocuSigned by:


Nicole Lexson
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5-17-2022

13. Wheeler SWCD


Cassi Newton
5-17-2022

14. Sustainable Northwest

DocuSigned by:


Dylan Kruse
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5-17-2022

15. Conservation Angler

DocuSigned by:


Craig Lacy
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David Moskowitz/Craig Lacy 5-17-2022

Attachments (Post-Plan Coordination Grants) (cont.)

Plan Implementation Strategies

Please attach a complete list of implementation plan strategies/actions/solutions from the state-recognized plan. Include information from the workplan for each strategy, including the critical issue it addresses, implementation leader(s), expected timeline for implementation, important milestones, and any potential funding sources.

You may upload your own list or use [this spreadsheet](#).

Plan Implementation Strategies*

 Copy of LJD_Plan_Implementation_Strategies_FILLED (2).xlsx

Implementation Strategies

Planning Collaborative Name: Lower John Day Working Group								
Implementation Strategies								
Please list all implementation plan strategies/actions/solutions from your state-recognized plan. Include information for each strategy, including the critical issue it addresses, implementation leader(s), expected timeline for implementation, important milestones, and any potential funding sources. Please include any other pertinent information that might be available in your plan, such as the estimated implementation cost or related IWRs issues/actions. You may upload your own list or use this spreadsheet.								
Strategy Number	Action/Strategy/Solution	Place-Based Critical Issue(s)	Leader(s)	Timeline (short, medium, long)	Important Milestones	Potential funding sources (if known)	Estimated Cost (if known)	Related IWRs Critical Issue(s) or Action(s) (if applicable)
1.1	Protect riparian areas from livestock using fencing and off-stream stock watering systems	CI 1: Poor riparian habitat	SWCDs, WC	Short-term (2022–2025)	In Progress — Virtual Fencing (towers deployed); riparian fencing/off-stream (OGMS)	NRCS-CREP, CTWS,OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, DEQ 319 grant, BLM, private foundations/organizations (Rocky Mountain Elk Foundation, Blue Mountain Land Trust, ONDA, Ruffed Grouse Society),ODA		11A, 11D (Healthy Ecosystems); 2B (Instream & Ecosystem Needs)
1.2	Protect, enhance, and/or restore native riparian vegetation	CI 1: Poor riparian habitat	SWCDs, WC	Short-term (2022–2025)	In Progress — riparian planting (OGMS: Hay Creek (OGMS 226-6010, \$133,243), Comstock, Big Mossy, Rock Creek (OGMS 223-6022, \$208,279))	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant,ODA		11A, 11D (Healthy Ecosystems); 2B (Instream & Ecosystem Needs)
1.3	Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.)	CI 1: Poor riparian habitat	SWCDs, WC	Short-term (2022–2025)	In Progress — LTPBR/BDA design & permitting (Thirtymile (OGMS 224-6004, \$321,948)); OCRF beaver recovery (~90%)	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, OWRD grants and loans?		11A, 11D (Healthy Ecosystems); 2B (Instream & Ecosystem Needs)
2.1	Identify, protect, and restore seeps and springs supplying cool water	CI 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	SWCD, WC, OWRD	Short-term (2022–2025)	In Progress — seeps/springs; beaver ponding for cool-water retention (OCRF Thirtymile (OGMS 224-6004, \$321,948))	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant, The Freshwater Trust, Mid-John Day/Bridge Creek Watershed Council, Bullett Foundation, Ford Family Foundation, Oregon Community Foundation		11D (Healthy Ecosystems); 12B (Clean Water); 2A (Instream & Ecosystem Needs)
2.2	Maintain and increase streamflows	CI 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	OWRD, WW	Short-term (2022–2025)		OWRD, Columbia Basin Transcation Program (NWIF), Freshwater Trust		11D (Healthy Ecosystems); 12B (Clean Water); 2A (Instream & Ecosystem Needs)
2.3	Conduct additional monitoring for temperature and dissolved oxygen	CI 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	SWCD, WC, OWRD	Short-term (2022–2025)		OWEB-OS, OWEB-FIP for Butte and Thirtymile WS		11D (Healthy Ecosystems); 12B (Clean Water); 2A (Instream & Ecosystem Needs)
2.4	Cross-reference: addressed by implementing the strategies under Critical Issues 1 (Riparian) and 3 (Streamflow)	CI 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	SWCD, WC	Short-term (2022–2025)				11D (Healthy Ecosystems); 12B (Clean Water); 2A (Instream & Ecosystem Needs)
3.1	Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect portion of water saved instream)	CI 3: Insufficient Instream Flow	SWCD, WC	Short-term (2022–2025)	In Progress — Irrigation Efficiency Assessment complete (ARPA Task 4)	CBWTP, BPA, NWPPC, SWCDS NRCS		2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
3.2	Encourage voluntary leases and transfers of existing water rights to instream use	CI 3: Insufficient Instream Flow	SWCD, WC, WW	Short-term (2022–2025)	In Progress — beaver/floodplain baseflow support (OCRF Thirtymile (OGMS 224-6004, \$321,948))	OWRD, CBWTP, Ag groups, Columbia Basin Transaction Program (NWIF)		2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
3.3	Encourage and assist state agencies in creating additional instream water rights	CI 3: Insufficient Instream Flow	OWRD, WW	Short-term (2022–2025)		ODFW, OWRD		2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
3.4	Cross-reference: addressed by implementing the strategies under Critical Issue 11 (Diversion Data)	CI 3: Insufficient Instream Flow	SWCD, WC	Short-term (2022–2025)				2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
3.5	Cross-reference: addressed by implementing the strategies under Critical Issue 1 (Riparian)	CI 3: Insufficient Instream Flow	SWCD, WC	Short-term (2022–2025)				2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
3.6	Cross-reference: addressed by implementing the strategies under Critical Issue 4 (Storage)	CI 3: Insufficient Instream Flow	SWCD, WC	Short-term (2022–2025)				2A (Instream & Ecosystem Needs); 10A (Water Use & Mgmt); 11B (Healthy Ecosystems)
4.1	Complete a feasibility study to assess potential off-channel water-storage projects, including: (a) potential locations for storage projects; (b) water availability, including consideration of all categories of in-stream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) in-stream and out-of-stream needs for water from storage; and (d) other costs and benefits	CI 4: Storage Needs	OWRD, SNW, WW	Short-term (2022–2025)	Built off-channel storage INACTIVE (no LJDWG consensus, 2022) — storage need now met via NATURAL storage; beaver/floodplain reconnection (OCRF Thirtymile (OGMS 224-6004, \$321,948)) + ARPA Task 2 programmatic BA enabling LTPBR	OWRD, Oregon Department of Agriculture, DEQ 319, USDA Rural Initiative		11A (Healthy Ecosystems — natural storage); 10C (Water Use & Mgmt — access to storage)
4.2	Develop off-channel storage projects as suggested by feasibility studies	CI 4: Storage Needs	TBD	Short-term (2022–2025)	Inactive (built storage) — natural-storage approach pursued via CI 1/13	OWRD, NRCS, SWCD, Watershed Councils		11A (Healthy Ecosystems — natural storage); 10C (Water Use & Mgmt — access to storage)
5.1	Control noxious weeds	CI 5: Degraded Native Plant Communities	SWCD, NRCS	Short-term (2022–2025)	In Progress — noxious weed control (OGMS uplands)	OSWB, OWEB-OS, OWEB-FIP (Butte/Thirtymile), SWCD, Oregon Cattlemen's Association, Oregon Farm Bureau, ODA, National Parks (JD Fossil Beds National Monument) ONDA, BlueMountain Land Trust, RMEF		11C, 11A (Healthy Ecosystems)

Implementation Strategies

5.2	Restore upland function by improving plant communities with juniper removal, and planting of appropriate perennial bunchgrasses, shrubs, and forbs.	CI 5: Degraded Native Plant Communities	SWCD, NRCS	Short-term (2022–2025)	In Progress — juniper removal / upland renovation (OGMS); VF-managed grazing for rangeland recovery	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG		11C, 11A (Healthy Ecosystems)
5.3	Cross-reference: addressed by implementing the strategies under Critical Issue 1 (Riparian)	CI 5: Degraded Native Plant Communities	SWCD, NRCS	Short-term (2022–2025)				11C, 11A (Healthy Ecosystems)
6.1	Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption	CI 6: Insufficient Efficient Irrigation Infrastructure	SWCD, WC	Medium-term (2025–2027)	In Progress — Report complete (ARPA Task 4 Irrigation Efficiency)	Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319, ODA, Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, National Parks (JDFBNM)		10A (Water Use & Mgmt); 7A (Water Infrastructure); 3A (Out-of-Stream Needs)
6.2	Promote utility, state and federal incentive programs for improving irrigation efficiency	CI 6: Insufficient Efficient Irrigation Infrastructure	SWCD, WC	Medium-term (2025–2027)		Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319, ODA, Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, National Parks (JDFBNM)		10A (Water Use & Mgmt); 7A (Water Infrastructure); 3A (Out-of-Stream Needs)
6.3	Replace inefficient and failing diversions and/or screens such as push up dams with new structures that maintain or improve native fish passage	CI 6: Insufficient Efficient Irrigation Infrastructure	SWCD, WC	Medium-term (2025–2027)		ODFW, OWEB, Private Foundations		10A (Water Use & Mgmt); 7A (Water Infrastructure); 3A (Out-of-Stream Needs)
6.4	Pipe open ditches	CI 6: Insufficient Efficient Irrigation Infrastructure	SWCD, WC	Medium-term (2025–2027)		BOR (WaterSmart), OWRD (Water projects grants and loans), Local SWCD, EQIP NRCS		10A (Water Use & Mgmt); 7A (Water Infrastructure); 3A (Out-of-Stream Needs)
6.5	Replace inefficient irrigation systems with more efficient systems (e.g., replace flood irrigation with sprinklers)	CI 6: Insufficient Efficient Irrigation Infrastructure	SWCD, WC	Medium-term (2025–2027)		OWEB, NRCS, CBWTP, BPA, Tribes		10A (Water Use & Mgmt); 7A (Water Infrastructure); 3A (Out-of-Stream Needs)
7.1	Support maintenance of existing gauges	CI 7: Inadequate Gauge Data	OWRD, SWCD, WC	Medium-term (2025–2027)	Not started / Planning	OWRD, USGS, ODA, Columbia basin water transaction program, Oregon Cattlemens Association, Oregon Farm Bureau		1A (Water Resource/Supply Info); 3A (Out-of-Stream Needs)
7.2	Support installation and maintenance of additional gauges at discontinued and recommended new sites	CI 7: Inadequate Gauge Data	OWRD, SWCD, WC	Medium-term (2025–2027)		OWRD, USGS, ODA		1A (Water Resource/Supply Info); 3A (Out-of-Stream Needs)
8.1	Assist cities in creating and/or improving Water System Management Plan and/or Water Management and Conservation Plan that identify necessary system improvements. Assess whether these plans cover all needed improvements.	CI 8: Outdated and insufficient municipal water and wastewater infrastructure	SWCD, municipalities, OWRD	Medium-term (2025–2027)	In Progress — Municipal Needs Assessment, report complete (ARPA Task 5)	USDA Rural Initiative, local cities, local counties, State of Oregon, Oregon Community Foundation, Collins Foundation, create Local Improvement Districts, WaterSmart (BOR)		7A (Water Infrastructure); 12A (Clean Water — drinking water)
8.2	Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects	CI 8: Outdated and insufficient municipal water and wastewater infrastructure	SWCD, municipalities, OWRD	Medium-term (2025–2027)		same		7A (Water Infrastructure); 12A (Clean Water — drinking water)
8.3	Support and advocate for increased communication for water conservation in public / municipal water systems and infrastructure needs	CI 8: Outdated and insufficient municipal water and wastewater infrastructure	SWCD, municipalities, OWRD	Medium-term (2025–2027)		OWRD, State of Oregon Legislature, Capacity grants (OWEB), Association of Oregon counties?		7A (Water Infrastructure); 12A (Clean Water — drinking water)
9.1	Conduct process based hydrologic study including how stream and groundwater flows change with land use and future climate change.	CI 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	OWRD, SWCD	Medium-term (2025–2027)	Planning (ARPA-covered)	OWRD, USDA rural initiatives, O Department of Geology and Mineral Industries, Oregon Groundwater Association, Oregon Community Foundation, Ford Family Foundation, Association of Oregon Counties		1B (Water Resource/Supply Info); 2B, 11E (GDE / GW protections)
9.2	Analyze existing groundwater data, and conduct a groundwater study in the basin	CI 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	OWRD, SWCD	Medium-term (2025–2027)		OWRD, OWEB, Gilliam, Sherman, Wheeler, Grant Counties, OCA, OFB, BOR,USGS		1B (Water Resource/Supply Info); 2B, 11E (GDE / GW protections)
9.3	Establish, support and help fund additional groundwater monitoring wells and support community groundwater monitoring networks	CI 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	OWRD, SWCD	Medium-term (2025–2027)		Association of Oregon Counties, OCA, OFB		1B (Water Resource/Supply Info); 2B, 11E (GDE / GW protections)
10.1	Provide full fish passage (removal, repair, artificial replacement) at priority artificial obstructions including culverts and dams.	CI 10: Fish passage barriers	ODFW, SWCD, WC	Medium-term (2025–2027)	In Progress — Kinzua (OGMS 224-8208, \$46,684) culvert habitat design & permits (OGMS)	USFS, BLM, OWEB, ODFW, CT of the Warm Springs and the Umatilla, SWCDs, Watershed Councils, Bullit Foundation, RMEF		11D (Healthy Ecosystems — instream habitat & fish passage)
10.2	Assist ODFW with updating list of priority fish-passage barriers if necessary	CI 10: Fish passage barriers	ODFW, SWCD, WC	Medium-term (2025–2027)		BLM, USFS, Councils, SWCD		11D (Healthy Ecosystems — instream habitat & fish passage)
11.1	Support additional personnel for flow and diversion monitoring and management	CI 11: Inadequate diversion data	OWRD, SWCD	Long-term (2027–2030)	Not started / Planning	OWRD, ODA, NW Power Planning Council, Bonneville Power Administration, Tribes, BLM USFS, USGS, NOAA		3A (Out-of-Stream Needs — measurement); 1A (Water Resource/Supply Info)
11.2	Advocate for irrigator incentives for measurement of diversions, including installing measurement devices	CI 11: Inadequate diversion data	OWRD, SWCD	Long-term (2027–2030)		OWRD, OCA, OFB, Association of Oregon Counties		3A (Out-of-Stream Needs — measurement); 1A (Water Resource/Supply Info)
11.3	Promote existing incentives for measurement of diversions	CI 11: Inadequate diversion data	OWRD, SWCD	Long-term (2027–2030)		OFB, OCA, OWEB, NRCS, SWCD's		3A (Out-of-Stream Needs — measurement); 1A (Water Resource/Supply Info)
12.1	Promote good vegetative cover/cover crops.	CI 12: Poor soil health in many of the Water Availability Basins	SWCD, NRCS, ODA	Long-term (2027–2030)	In Progress — managed grazing via Virtual Fencing (deployed); cover/soil-health outreach	ODA< Cattlemen, Farm Bureau, SWCD, USDA NRCS		11A (Healthy Ecosystems); 10D (Water Use & Mgmt)

Implementation Strategies

12.2	Promote mulch tillage, ridge tillage, zone tillage, no till, chem fallow, and CRP as ways to improve soil health, etc.)	CI 12: Poor soil health in many of the Water Availability Basins	SWCD, NRCS, ODA	Long-term (2027-2030)		SWCD, NRCS, ODA	11A (Healthy Ecosystems); 10D (Water Use & Mgmt)
12.3	Support payment programs for landowners adopting soil carbon improvement practices and management that mitigates for greenhouse gas emissions	CI 12: Poor soil health in many of the Water Availability Basins	SWCD, NRCS, ODA	Long-term (2027-2030)		Ecotrust, private companies, Oregon Tilth, Climate Trust	11A (Healthy Ecosystems); 10D (Water Use & Mgmt)
13.1	Cross-reference: addressed by implementing the strategies under Critical Issues 1 (Riparian) and 3 (Streamflow)	CI 13: Simplified Stream Morphology	SWCD, WC	Long-term (2027-2030)	In Progress — channel-form recovery via beaver/PBR (OCRf Thirtymile (OGMS 224-6004, \$321,948); LTPBR Thirtymile)	OWEB, Councils, Tribes, Private Foundations, BPA, NWPPC	11A, 11D (Healthy Ecosystems)
14.1	Conduct study regarding changes in prevalence and function of springs and causes of changes	CI 14: Adequate surface water for wildlife	SWCD, WC	Long-term (2027-2030)	In Progress — OCRf Thirtymile (OGMS 224-6004, \$321,948) beaver recovery (~90%); spring function	RMEF, Ruffed Grouse Society, Oregon Wildlife Society, Tribes	11D (Healthy Ecosystems); 2B (Instream & Ecosystem Needs)
14.2	Cross-reference: addressed by implementing the strategies under Critical Issues 1 (Riparian) and 5 (Native Plants)	CI 14: Adequate surface water for wildlife	SWCD, WC	Long-term (2027-2030)			11D (Healthy Ecosystems); 2B (Instream & Ecosystem Needs)
15.1	Create and promote wildland urban interface buffers, and defensible space around rural homes and buildings.	CI 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality	SWCD, ODF, USFS	Long-term (2027-2030)	In Progress — FEMA fuels (applying); JDBP post-fire planning (funded); VF post-fire grazing recovery (deployed)	Oregon Department of Forestry, USDA, OWEB, Private Foundations, Tribes, OR cattlemens association Oregon Farm Bureau, SWCD's BLM, USFS	5A (Natural Hazards — drought & wildfire); 11A (Healthy Ecosystems)
15.2	Increase pace and scale of forest restoration, including prescribed burning and thinning	CI 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality	SWCD, ODF, USFS	Long-term (2027-2030)	In Progress — forest restoration/thinning (OGMS: Nelson (OGMS 222-6009, \$188,750), Pine Creek Forestry (OGMS 225-6002, \$191,570), Thirtymile (OGMS 224-6004, \$321,948))	ODF, USFS, BLM	5A (Natural Hazards — drought & wildfire); 11A (Healthy Ecosystems)
15.3	Support community wildfire response plans	CI 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality	SWCD, ODF, USFS	Long-term (2027-2030)		ODF, USFS, FEMA, Local WC's and cities	5A (Natural Hazards — drought & wildfire); 11A (Healthy Ecosystems)
16.1	Support Agri Met station in Basin	CI 16: Insufficient data on crops, climate, and datasets to support analysis.	SWCD, OWRD, NRCS	Long-term (2027-2030)	Planning (LiDAR collection ongoing)	ODA, Cattlemen, Farm Bureau, SWCD's NRCS	1A, 1D (Water Resource/Supply Info); 3B (Out-of-Stream Needs)
16.2	Support collection of additional Lidar data	CI 16: Insufficient data on crops, climate, and datasets to support analysis.	SWCD, OWRD, NRCS	Long-term (2027-2030)		NRCS, DOGAMI (State Dept. of Geology and Industries)	1A, 1D (Water Resource/Supply Info); 3B (Out-of-Stream Needs)
16.3	Analyze existing data on crop and climate	CI 16: Insufficient data on crops, climate, and datasets to support analysis.	SWCD, OWRD, NRCS	Long-term (2027-2030)		Agrimet (BOR), ODA?, OSU (OCCI),ARS, National Agriculture Statistics Census, USDA	1A, 1D (Water Resource/Supply Info); 3B (Out-of-Stream Needs)
17.1	Cross-reference: addressed by implementing the strategies under Critical Issue 5 (Native Plants)	CI 17: Degraded Forest Health	SWCD, ODF, USFS	Long-term (2027-2030)	In Progress	USFS BLM SWCDs, Or Cattlemen, Oregon Farm Burea ODF	5A (Natural Hazards); 11A, 11C (Healthy Ecosystems)
17.2	Implement prescribed burn and thinning for forest management	CI 17: Degraded Forest Health	SWCD, ODF, USFS	Long-term (2027-2030)	In Progress — forest management: Thirtymile (OGMS 224-6004, \$321,948), Pine Creek Forestry (OGMS 225-6002, \$191,570), Nelson (OGMS 222-6009, \$188,750)	ODF,USFS,FEMA, Local WC's and cities, NRCS,OWEB	5A (Natural Hazards); 11A, 11C (Healthy Ecosystems)
18.1	Cross-reference: addressed by implementing the strategies under Critical Issue 12	CI 18: Erosion and Sediment Transport/Control	SWCD, NRCS	Long-term (2027-2030)	In Progress — sediment/road BMPs (OGMS small grants); beaver-pond sediment capture (OCRf, secondary)	NRCS, SWCD's, AG groups, ODA	12B (Clean Water); 11A (Healthy Ecosystems)
18.2	Promote best management practices for the capture and safe release of water (Water and sediment control basins, etc.)	CI 18: Erosion and Sediment Transport/Control	SWCD, NRCS	Long-term (2027-2030)		OWRD,DEQ-319,NRCS,SWCD's	12B (Clean Water); 11A (Healthy Ecosystems)
19.1	Conduct voluntary survey for non-municipal well users to capture issues associated with domestic water availability and quality	CI 19: Rural and domestic well data gaps	SWCD, OWRD	Long-term (2027-2030)	Not started / Planning	OWRD,OWEB?, Private foundations, USDA	12A (Clean Water — drinking water); 1B, 11E (GW investigations/protections)
19.2	Provide assistance or technical expertise through OWRD support on installing well level monitors.	CI 19: Rural and domestic well data gaps	SWCD, OWRD	Long-term (2027-2030)		OWRD,USGS,BOR	12A (Clean Water — drinking water); 1B, 11E (GW investigations/protections)
19.3	Provide information on where to get well water testing kits and technical support for water quality issues	CI 19: Rural and domestic well data gaps	SWCD, OWRD	Long-term (2027-2030)		OWRD,OHA	12A (Clean Water — drinking water); 1B, 11E (GW investigations/protections)

KEY

Cross-reference A strategy the plan addresses by implementing the work listed under another Critical Issue, rather than as a separate action.

Timeline Short = Phase I (2022-2025) · Medium = Phase II (2025-2027) · Long = Phase III (2027-2030)

Abbreviations

SWCD	Soil and Water Conservation District
WC	Watershed Council
WW	WaterWatch of Oregon
OWRD	Oregon Water Resources Department
OWEB	Oregon Watershed Enhancement Board
ODFW	Oregon Department of Fish and Wildlife
DEQ	Oregon Department of Environmental Quality
NRCS	Natural Resources Conservation Service (USDA)
BLM	Bureau of Land Management
ONDA	Oregon Natural Desert Association
FEMA	Federal Emergency Management Agency
FIP	OWEB Focused Investment Partnership

Attachments (Post-Plan Coordination Grants) (cont.)

Match Documentation

Please attach documentation of match funding list in the budget section. This includes both secured and pending match contributions, as well as in-kind match from volunteers.

Secured Match Funding

For secured match contributions, please attach a letter of support or other formal documentation from each funding source, including your own organization if applicable. Documentation must:

- Clearly state the dollar amount committed to this project,
- Describe the specific work, services, or resources that will be provided through the match.

Pending Match Funding

For pending match contributions, please attach documentation that demonstrates the anticipated funding. This may include a copy of a submitted application, email correspondence, or other written evidence. Documentation must:

- Specify the amount of match funding requested or anticipated,
- Include the project name,
- Indicate the date the funding application was or will be submitted (if applicable),
- Identify the funding program from which funds are pending (if applicable),
- Provide evidence that the project is eligible for the identified funding program.

In-Kind Match from Volunteers

If your project includes in-kind match contributions from volunteers or landowners, you must provide documentation that supports the estimated value of these contributions. Acceptable documentation includes:

- A description of the volunteer activities and how they support the project,
- An estimate of the number of volunteer hours and the hourly rate used to calculate the value,
- A signed letter or agreement from the organization or individual coordinating the volunteer effort.

Standard Rate: OWRD uses the [Independent Sector rate](#) as the standard hourly rate for volunteer and landowner contributions.

Requesting a Different Rate: If you wish to use a different hourly rate for volunteer and landowner contributions, you must provide:

- Justification for the proposed rate,
- Documentation that supports the rate (e.g., wage data specific to the job type and geographic area).

Place-Based Water Planning

07/01/2026

Match Documentation*

 Lower_John_Day_25_Percent_Match_Summary.pdf

Lower John Day Post-Plan Coordination Grant - 25% Match Summary

Grant Funds Requested	\$150,000.00
Required Match (25% of request)	\$37,500.00
Documented Match from Letters	\$37,500.00
Match Surplus / Shortfall	\$0.00

[illegible]

Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants) (cont.)

Implementation Shared Governance Agreement*

 Declaration of Cooperation Implementation2.21.23.for_Approval.Final.pdf

Declaration of Cooperation- LJDIWRP Implementation Coordination
Lower John Day Work Group



October 1, 2022

I. Background

The 2017 Integrated Water Resources Strategy (IWRS) recommends that the Oregon Water Resources Department (OWRD) enable Oregon's communities to collaboratively develop long-term solutions for the water quality and quantity challenges facing their surface and groundwater resources. Place-based planning provides a voluntary, locally initiated, and led framework for bringing together diverse water interests in a defined watershed or basin area to better understand local water resources issues, and together build a localized plan for pursuing projects that balance instream and out-of-stream water needs moving forward.

With the support of the John Day Basin Partnership and its Lower John Day Work Group (Partnership Work Group), the Gilliam SWCD began the original pilot process by submitting a proposal and being selected in 2016 by the Oregon Water Resources Department to implement place-based planning in the Lower John Day River Subbasin. OWRD suggested that Gilliam SWCD serve as the Convener of the process, rather than the John Day Basin Partnership, to more accurately recognize their leadership role. Sandy McKay, former District Manager of the Gilliam SWCD, served as the official convener, and Debra Bunch, Mid John Day Watershed Council, was added as co-convener. The Gilliam SWCD's official convener changed in June 2017 to Christina Kirwan and again in 2018 to Herb Winters. Debra Bunch has remained as co-convener.

Throughout the planning process, the convenors sought to include all interested parties in the development of a place-based plan for the Lower John Day River Subbasin and formed a robust group now designated the Lower John Day Planning Group (Planning Group). The Planning Group met monthly from 2016 to 2022 to complete OWRD's five-step planning process, ultimately developing and approving the Lower John Day Integrated Water Resource Plan (Plan). In June of 2022, the Oregon Water Resources Commission unanimously recognized the Plan.

As the originator and driving force behind convening the Planning Group, the Partnership Work Group desires to assist the co-conveners and facilitator as needed to support the implementation of the Plan. Members of the Planning Group also desire to assist with the implementation of the Plan. Because the planning work is complete and the Planning Group terminated under the terms of its Declaration of Cooperation, the Planning Group will become the Lower John Day Implementation Group (Implementation Work Group).

The undersigned members of the Implementation Work Group wish to continue collaboration on the terms set forth below with respect to the implementation of the Plan.

In July of 2022, the Implementation Work Group requested a portion of the \$1 million received by the Oregon Water Resources Department (Department) under the American Rescue Plan Act (ARPA) for implementation coordination of the Lower John Day Integrated Water Resource Plan (Plan) and support for implementation on the following tasks. The Department allocated \$250,000.00 to implementation of the Plan as follows:

Task 1 - Implementation Coordination	14%
Task 2 - Biological Assessment	18%

Task 3 - Rock/Butte Creek Watershed Management Plan	11%
Task 4 - Irrigation Efficiency Assessment	35%
Task 5 - Municipal Needs Assessment	22%

II. Project Name

Lower John Day Integrated Water Resource Planning – Implementation Coordination

III. Co-conveners

Herb Winters	Debra Bunch
Gilliam County Soil and Water Conservation District ("Gilliam SWCD")	Mid John Day Watershed Council (MJDWC)
234 S. Main St. Condon, OR 978 23-0106	902 Willow St Spray, OR 97874

IV. Scope

Activities covered by this Declaration of Cooperation will take place within the 3,712 square mile area that constitutes the Lower John Day River Subbasin of the John Day River Basin in Oregon ("Planning Area"). The majority of the Lower John Day falls within Gilliam, Wheeler, and Sherman Counties, with smaller portions in Morrow, Wasco, Jefferson, Crook, and Grant Counties.

V. Lower John Day Integrated Water Resource Plan Coordination

The objective of this Declaration of Cooperation is to support implementation of the Plan through the Implementation Work Group.

Implementation of the Plan through the Implementation Work Group is expected to begin in October 2022 and is expected to conclude by December 2024, upon termination of implementation funding, unless the Implementation Work Group otherwise agrees.

Co-convenors anticipate that the Implementation Work Group will conduct activities including the following:

- Conduct regular meetings on no less than a quarterly schedule to share information about activities related to the Plan;
- Identify and develop potential implementation activities to be led by the Implementation Work Group;
- Monitor and track activities led by other parties related to implementation of the Plan; and
- Consider requests for Implementation Work Group endorsement of activities led by other parties related to the implementation of the Plan.

VI. Stakeholders

Basin Water Interests active in the Planning Area are invited to participate in the implementation support and coordination process as members of the Implementation Work Group by becoming a party to this Declaration. For the purposes of this Declaration, "Basin Water Interests" will be interpreted to mean but not limited to local governments, tribal governments, utilities, major industries or employers, agriculture and forestry groups, conservation groups, special districts, and state and federal agencies that are located within, serve, or whose members have interest in the planning area.

Basin Water Interests that sign the Declaration and fulfill membership requirements will be voting members of the Implementation Work Group. The initial members of the Implementation Work Group are:

- Gilliam County SWCD
- Gilliam-East John Day Watershed Council
- Mid John Day Watershed Council
- ONDA
- NRCS

- Sherman County Area Watershed Council
- Sherman County SWCD
- Gilliam County Cattlemen
- WaterWatch of Oregon
- Oregon Water Resources Department
- Oregon DEQ
- Confederated Tribes of the Warm Springs
- Wheeler SWCD
- Sustainable Northwest
- Conservation Angler

VII. Planning Principles

The following planning principles were adopted by the Planning Group as recommended by the Oregon Water Resource Department guidance for place-based planning to support the Lower John Day Basin place-based planning process and will continue to guide the Implementation Work Group:

- Maintain a locally initiated and led collaborative process.
- Employ a voluntary, non-regulatory approach in the planning process.
- Use an inclusive process that strives for a balanced representation of basin water interests.
- Utilize an outside facilitator and facilitated processes.
- Conduct in close partnership with OWRD.
- Include the most current water resource data and scientific concepts.
- Address both instream and out-of-stream needs.
- Cover water quantity, quality, and ecosystem health.
- Builds on and integrates existing studies and plans.
- Strive for consensus in decision-making.
- Utilize an open and transparent process that fosters public participation.
- Adhere to IWRS principles, Place-Based Planning Guidelines, and federal, state, and local laws.

VIII. Decision-Making Process

Signers of this Declaration agree to seek consensus for all decision-making processes. Decisions may be made at any properly noticed meeting by consensus of those in attendance with a 50% of Implementation Workgroup Signatories quorum requirement. Each organization will be allowed one vote, regardless of the number of representatives in attendance.

- Consensus minus 10% of organizations present will be sufficient to carry an action.

Not all decisions will require a formal vote. In order to maximize progress, meeting facilitators may call for a “Thumbs-up, Thumbs-Down, Thumbs-Sideways” show of hands to determine if further discussion is necessary or if an action may move forward as proposed. Groups who do not regularly participate in meetings may be asked to abstain from decision-making actions.

IX. Agreements

This Declaration of Cooperation establishes the guidelines for participation in the Implementation Work Group. Parties to this Declaration agree that:

- This implementation of the Lower John Integrated Water Resource Plan is a project of the Partnership Working Group.
- The Co-conveners are Herb Winters of the Gilliam County SWCD and Debra Bunch of the Mid John Day WC, as described in Section III of this Declaration.
- The fiscal agent for this grant-funded project is Gilliam SWCD, except as may otherwise be agreed by the Implementation Work Group with respect to particular implementation projects.
 - Indemnification of Fiscal Agent: Gilliam SWCD reserves the right to require

indemnification by any other Partner, at its sole discretion, prior to entering into or accepting any grant funding in its capacity as fiscal agent.

- The participating parties will follow the definitions, guidelines, and principles called out in Sections VI through VIII of this Declaration.
- Upon signing this Declaration, parties are entitled to the following:
 - Ability to officially vote on matters related to the implementation
 - Eligibility to respond to a request for proposals (RFP) to receive monies raised by the Implementation Work Group.
- They shall actively participate in supporting implementation coordination and planning process through participation in meetings, draft or review of written materials, and achievement of specific tasks, deliverables, and deadlines formally defined in funding agreements with the Convener.
- They shall endeavor in good faith to conduct implementation activities collaboratively through the Implementation Work Group and shall clearly communicate with third parties when describing implementation activities in relation to the Plan, whether such activities are activities of the Implementation Work Group acting as such or activities of other groups or individuals, with or without the official support of the Implementation Work Group.
- They will not miss two consecutive regular meetings without providing prior notice to the Convener. Failure to meet the minimum attendance standard may result in loss of voting privileges or removal from the planning group.
- They agree to act according to these rules of conduct: Maintain a high level of participation in activities and meetings, and behave in a civil and respectful manner at all times.
- Stakeholders who do not fulfill the requirements of membership may be involuntarily removed by consensus -10% of the group.
- Stakeholders may voluntarily remove themselves from this Declaration by providing written notice to a Co-convener.
- They shall participate in outreach to their constituencies and the public about the planning process and its intent.
- The meetings will be open and inclusive, allowing all interested individuals or groups the opportunity to stay informed and provide input related to the implementation process. It will be the Convener's responsibility to ensure that public outreach and participation is realized.
- The ultimate goal is to implement the Lower John Day Integrated Water Resource Plan.
- This Declaration of Cooperation will remain in place at least until such time as the Lower John Day Integrated Water Resource Plan Implementation Coordination funding expires on December 31, 2024, unless the Implementation Work Group otherwise agrees.
- This agreement may be amended by consensus-10% of the group.

Declaration of Cooperation Signatories:

Attachments (Post-Plan Coordination Grants) (cont.)

Optional Attachments

Letters of Support, including from Planning Collaborative members

 20260622_ICSLJDWG - ODA Support Letter.docx



**OREGON
DEPARTMENT OF
AGRICULTURE**

Protect. Promote. Prosper.

635 Capitol St NE, Salem, OR 97301-2532
503.986.4700 | Oregon.gov/ODA

June 22, 2026

Oregon Watershed Enhancement Board
775 Summer Street NE, Suite 360
Salem, OR 97301

Dear Oregon Water Resources Department,

As the Water Quality and SWCD Program Manager for the Oregon Department of Agriculture (ODA), I am writing to express strong support for the Gilliam Soil and Water Conservation District's Post-Plan Coordination (PPC) grant application for implementation of the Lower John Day Basin Integrated Water Resource Plan.

The Lower John Day Work Group continues to demonstrate strong, locally led collaboration. This PPC grant will support essential coordination, partner engagement, implementation tracking, facilitation, and adaptive management activities that align closely with ODA's priorities for agricultural water quality, watershed condition, and water temperature management.

ODA remains committed to participating in quarterly coordination and technical discussions focused on agricultural water quality, temperature mitigation, and watershed conditions. This coordination effort also complements ongoing restoration, irrigation efficiency planning, municipal assessments, and riparian recovery efforts throughout the Lower Basin. Maintaining momentum following state recognition of the plan is essential, and this grant represents a timely investment in continued collaborative water management.

Thank you for considering this proposal. ODA values our strong partnerships in the Lower John Day and looks forward to continued cooperation supporting both instream and out-of-stream water needs.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Fenn".

Kevin Fenn
Water Quality Program Manager
Natural Resources Division
(503) 510-8214

Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants) *(cont.)*

 LowerJohnDay_PPC_OWRD_Briefing.pdf



Lower John Day: PBWP PPC Pre-Application Conference

Lower John Day Basin Integrated Water Resource Plan

Post-Plan Coordination Grant: Implementation Briefing

Locally-Led · Voluntary · Non-Regulatory



Convened by Gilliam SWCD & Mid John Day–Bridge Creek Watershed Council
within the John Day Basin Partnership · June 26, 2026

One plan, many hands

State-recognized by Oregon in 2022, and in active implementation ever since.

The Lower John Day Work Group is one of the original 2016 OWRD place-based planning pilots. State-recognized in 2022, the IWRP gives a wide network of implementers a single shared road map, delivered not by one entity, but by many working together.

PARTNERS ACROSS THE BASIN

SWCDs

Watershed Councils

ODFW

DEQ

NRCS

ONDA

WaterWatch

Cattlemen

Tribes

Cities & landowners

 **2016**

Original OWRD
place-based pilot

 **2022**

State-recognized
plan

 **19**

Critical issues
identified

 **46**

Strategies across
7 resource areas



The catalyst: Focused Investment Partnership

Butte–Thirtymile Creek is one of the John Day Basin Partnership's three FIP focal geographies, and it's our ground.



Cumulative OWEB FIP results, Biennia 1–3 (2019–2024), across 30+ partner organizations:

43 mi fish habitat restored

119 ac floodplain reconnected

507 beaver dam analogs

268,028 native plants

58 fish-passage barriers fixed

46 mi stream connected

Implementation runs broader than any one grant

FIP is the catalyst, not the whole machine. The plan is funded and delivered through many streams.



NRCS / CREP

Riparian, fencing & EQIP conservation



OWEB

Open Solicitation & Small Grants



DEQ 319

Water-quality & temperature work



County & foundations

Ford Family Foundation & others



Agricultural producers

Cost-share & in-kind contributions



**Virtual Fencing
(~\$250K)**

Post-2024 wildfire recovery



Progress since 2022, the plan is being delivered

From the Strategic Action Plan (Appendix C), 2026 status, our evidence of implementation progress.



CI 1 • Riparian habitat

In progress

Riparian planting continuing; BDA permitting & design underway in Thirtymile



CI 5 • Plant communities

In progress

Virtual fencing program underway, supporting managed grazing and native plant recovery



CI 3 • Instream flow

In progress

Efficiency Assessment complete; new Qualified Lead Entity now enables instream water transactions



CI 6 • Irrigation infrastructure

In progress

Efficiency assessment report complete



CI 8 • Municipal systems

In progress

Municipal Needs Assessment complete; ongoing support to cities



Cross-cutting readiness

Underway

Batched Biological Assessment (LTPBR); Rock/Butte Creek plan + LiDAR



What this grant funds: coordination, not construction

PPC grants fund the connective tissue that keeps a multi-partner, multi-funder plan moving. They do not fund projects.



TASK 1

Facilitation Capacity & Outreach

Convening, neutral facilitation, partner engagement, and environmental-justice outreach



TASK 2

Critical Issues 1–5 (Phase I)

Riparian, stream temperature, instream flow, storage, and native plant communities



TASK 3

Critical Issues 6–10 (Phase II)

Irrigation efficiency, gauge data, municipal infrastructure, groundwater, fish passage



TASK 4

SAP Update & Adaptive Management

Implementation tracking, re-sequencing, biennial reporting, and state recognition

THE ASK

Coordinating implementation of the Lower John Day IWRP

\$150,000

Grant request

25%

Match: \$37,500

2027–28

Project period



Balanced across instream and out-of-stream needs



Aligned with Oregon's IWRP Goal 2 and Actions 9.A · 9.B · 9.C



Coordinates the road map ahead of our FIP 2.0 application, mid-July 2026



Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants) *(cont.)*

 Step 1a_govagreement.pdf

Declaration of Cooperation

Partners Participating in the Place-Based Integrated Water Resource Planning Pilot in the Lower John Day River Subbasin (Grant #G-0601-LJD)

February 7, 2017

I. Background

Water is important to all Oregonians. It is vital to community well-being, economic development, and a healthy environment. Across Oregon, every place has its unique water challenges that if left unaddressed, may become worse in the future, degrading the health of people, fish and wildlife. The most common problem is there is simply not enough clean water for all needs at all times of the year; and supplies continue to dwindle with the impacts of new water resource development, climate change, over-allocation, and resource management stressing already limited supplies. The 2012 Integrated Water Resources Strategy (IWRS) recommends that the Oregon Water Resources Department (OWRD) enable Oregon's communities to collaboratively develop long-term solutions for the water quality and quantity challenges facing their surface and groundwater resources. Place-based planning provides a voluntary, locally-initiated and led framework for bringing together diverse water interests in a defined watershed or basin area to better understand local water resources issues and together build a localized plan for pursuing projects that balance instream and out-of-stream water needs moving forward. The Lower John Day Basin was selected by OWRD in 2016 as one of four groups to pilot this approach and develop such a plan. This Declaration describes the process and principles that will govern this pilot.

II. Project Name

Lower John Day River Subbasin Place-Based Integrated Water Resource Planning Pilot ("Lower John Day Pilot")

III. Conveners

Herb Winters

Gilliam County Soil and Water

Conservation District ("Gilliam SWCD")

234 S. Main St.

Condon, OR 97823-0106

Debra Bunch

Mid John Day-Bridge Creek Watershed Council

(MJDBCWC)

40535 Hwy 19

Fossil, OR 97830-8242

IV. Steering Committee

As the originator and driving force behind Place-Based Planning in our area, the Lower John Day Working Group will act as the Steering Committee of this process. The Steering Committee will be responsible for assisting the conveners and facilitator as needed and oversee the development of the Lower John Day River Subbasin Place-Based Integrated Water Resource Planning Pilot.

V. Scope

Activities covered by this Declaration of Cooperation will take place within the 3,712 square mile area that constitutes the Lower John Day River Subbasin of the John Day River Basin in Oregon (“planning area”). The majority of the Lower John Day falls within Gilliam, Wheeler, and Sherman Counties, with smaller portions in Morrow, Wasco, Jefferson, Crook, and Grant Counties.

VI. Lower John Day Pilot Description

The Lower John Day River Subbasin supports a robust agriculture-based economy, important fish and wildlife habitat, and outstanding recreational opportunities; all of which depend upon reliable water resources. The lower river and its tributaries rely heavily on the watersheds ability to capture, store, and slowly release 8-20 inches of precipitation in a given year. Several years of drought and the potential impacts of climate change further threaten limited supplies.

Through this place-based planning effort the Lower John Day Working Group in formal cooperation with other lower basin water interests will identify solutions to efficiently develop, conserve, store, and utilize water in the region to meet instream and out-of-stream needs for the future.

The ultimate objective of this pilot is to create an Integrated Water Resource Plan for the Lower John Day River basin. We will complete this process with deference to the *Draft Guidelines, a Tool for Conducting Place-Based Integrated Water Resource Planning in Oregon; Feb.2015*. These guidelines were written to support implementation of Oregon’s IWRS, specifically Recommended Action 9A: “Undertaking Place-Based Integrated Water Resources Planning.”

This process began with the Lower John Day Working Group submitting a proposal and being selected by Oregon Water Resources Department to implement a place-based planning process in the Lower John Day River Basin. Execution of this effort officially began on June 30, 2016 with signing of the grant agreement with OWRD. Subsequent to signing the agreement, OWRD suggested that Gilliam SWCD serve as the Convener of the process, rather than the John Day Basin Partnership, to more accurately recognize the leadership role Gilliam SWCD is providing. As of November 2016, the pilot became a project of the Lower John Day Working Group, with Sandy McKay, District Manager of Gilliam SWCD as official Convener. The convener changed again in June 2017 with Christina Kirwan, Gilliam SWCD and Debra Bunch, MJDBCWC named as co-convener. It is expected that the planning process will be completed no later than December 31, 2018.

VII. Stakeholder Group

Diverse Water Interests active in the Lower John Day planning area are invited to participate in the planning process as members of the Stakeholder Group by becoming a party to this Declaration. Stakeholders that sign the Declaration and fulfill membership requirements will be voting members of the Lower John Day water resource planning group.

VIII. Definition of Basin Water Interests

For the purposes of implementing this planning process “Basin Water Interests” will be interpreted to mean local governments, tribal governments, utilities, major industries or employers, agriculture and

forestry groups, conservation groups, special districts, and state and federal agencies that are located within, serve, or whose members have interest in the planning area.

IX. Place-Base Planning Guidelines

Place-based planning provides a framework for communities to better understand and meet their water needs now and into the future. In accordance with the state's IWRS and *Draft Guidelines, a Tool for Conducting Place-Based Integrated Water Resource Planning in Oregon; February 2015* ("Place-Based Planning Guidelines") communities will accomplish this by completing the five planning steps:

Step 1 - Building a collaborative and inclusive process

Step 2 - Gathering information to understand current water resources and identify gaps in knowledge

Step 3 - Examining current and future water needs for people, the economy, and the environment

Step 4 - Developing and prioritizing strategic and integrated solutions to meet water needs

Step 5 - Creating a local integrated water resources plan

X. Planning Principles

Planning principles are adapted from the Draft Guidelines to fit the unique circumstances of the Lower John Day Basin and our local planning process and were developed based on planning group discussions.

- Maintain a locally-initiated and led collaborative process.
- Employ a voluntary, non-regulatory approach in the planning process.
- Use an inclusive process that strives for a balanced representation of basin water interests.
- Utilize an outside facilitator and facilitated processes.
- Conduct in close partnership with OWRD.
- Include the most current water resource data and scientific concepts.
- Address both instream and out-of-stream needs.
- Cover water quantity, quality, and ecosystem health.
- Builds on and integrates existing studies and plans.
- Strive for consensus in decision-making.
- Utilize an open and transparent process that fosters public participation.
- Adhere to IWRS principles, Place-Based Planning Guidelines, and federal, state, and local laws.

XI. Decision Making Process

Signers of this declaration agree to seek consensus for all decision making processes. Decisions may be made at any properly noticed meeting by consensus of those in attendance with no quorum requirement. Each organization will be allowed one vote, regardless of the number of representatives in attendance.

- Consensus minus 10% will be sufficient to carry an action.

- Not all decisions will require a formal vote. In order to maximize progress, meeting facilitators may call for a “Thumbs-up, Thumbs-Down, Thumbs-Sideways” show of hands to determine if further discussion is necessary or if an action may move forward as proposed.
- Groups who do not regularly participate in planning meetings may be asked to abstain from decision making actions.

XII. Agreements

This Declaration of Cooperation establishes the guidelines for participation in the Lower John Day River Subbasin Place-Based Integrated Water Resource Planning Pilot. Parties to this declaration agree that:

- This pilot is a project of the John Day Basin Partnership’s Lower John Day Working Group.
- The Conveners are Christina Kirwan of the Gilliam County SWCD and Debra Bunch of the Mid John Day-Bridge Creek WC as described in Section III of this Declaration.
- The fiscal agent for this grant funded project is Gilliam SWCD.
- The participating parties will follow the definitions, guidelines, and principles called out in Sections VI through VIII of this Declaration.
- Upon signing this Declaration parties are entitled to the following:
 - Ability to officially vote on pilot matters
 - Eligibility to respond to request for proposals (RFP) to receive monies raised by the Lower John Day Working Group for this pilot
 - Represent the Working Group in public forum
- They shall actively participate in the planning process through participation in meetings, draft or review of written materials, and achievement of specific tasks, deliverables, and deadlines formally defined in funding agreements with the Convener.
- They will not miss two consecutive regular meetings without providing prior notice to the Convener. Failure to meet the minimum attendance standard may result in loss of voting privileges or removal from the planning group.
- They agree to act according to these rules of conduct: Maintain a high level of participation in planning activities and meetings, behave in a civil and respectful manner at all times.
- Stakeholders who do not fulfill the requirements of membership may be involuntarily removed by consensus -10% of the group.
- Stakeholders may voluntarily remove themselves from this Declaration by providing written notice to the Convener.
- They shall participate in outreach to their constituencies and the public about the planning process and its intent.
- The planning process will be open and inclusive, allowing all interested individuals or groups the opportunity to stay informed and provide input related to the planning process. It will be the Convener’s responsibility to ensure that public outreach and participation is realized.
- The ultimate goal is to complete a Place-Based Integrated Water Resource Plan for the Lower John Day Basin that can be supported by all parties to this Declaration.
- This Declaration of Cooperation will remain in place until such time as the Integrated Water Resource Plan for the Lower John Day River Basin has been completed, approved by local interests, and presented to OWRD.
- This agreement may be amended by consensus -10% of the group.

Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants) *(cont.)*

 LJD_Workgroup_Implementation.pdf



GILLIAM SWCD · LOWER JOHN DAY WORK GROUP

Implementing the Plan, Project by Project

How the Lower John Day Work Group has turned its Integrated Water Resource Plan into measurable, funded action on the ground.

\$7.3M documented implementation | 51 projects | 19 of 19 critical issues

Steering Committee Briefing

WHY WE DID THIS

The Post-Plan Coordination (PPC) grant

Once OWRD recognizes a place-based water plan, the Post-Plan Coordination grant funds the partnership to keep coordinating its implementation. To keep state recognition — and the funding — the partnership has to show that the plan is genuinely being carried out. This work is that proof.



STEP 1

Plan recognized

OWRD recognizes the Lower John Day IWRP as the basin's water plan.



STEP 2

Partners implement

SWCDs, councils & partners put projects on the ground.



STEP 3

We show progress

Every project is tallied against the plan's critical issues.



STEP 4

Coordination continues

Demonstrated progress sustains recognition & PPC funding.

HOW WE BUILT THE RECORD

Crosswalking every project to the plan

We pulled every OWEB / OGMS grant in Gilliam and Wheeler counties since January 2022, added the partnership's other coordinated efforts, and mapped each one to the critical issues and strategies it advances in the Lower John Day IWRP — so the plan and the work on the ground line up, item for item.

58 projects & efforts

Every grant + coordinated effort, verified against its application



19 critical issues

Each project mapped to the issue(s) it advances



Lower John Day IWRP

The recognized plan — 19 issues, 46 strategies, IWRS-aligned



Counted once

Stacked funding (e.g. virtual fencing) shown once, with its sources as leverage — never double-counted.



Project Amount basis

Each project's true cost, so umbrella grants don't inflate the total.



Verified, not estimated

Figures confirmed against the OWEB applications themselves.

Implementation since the plan was recognized

\$7.3M

secured, funded
or completed

51

OWEB grants
since Jan 2022

19/19

critical issues
addressed

\$196K

average per
larger grant

Plus **~\$2.0M more pending** in two FEMA wildfire applications. Of the record, **~\$722K (5 projects)** came through the John Day Basin Partnership's OWEB FIP.

COMPLETE COVERAGE

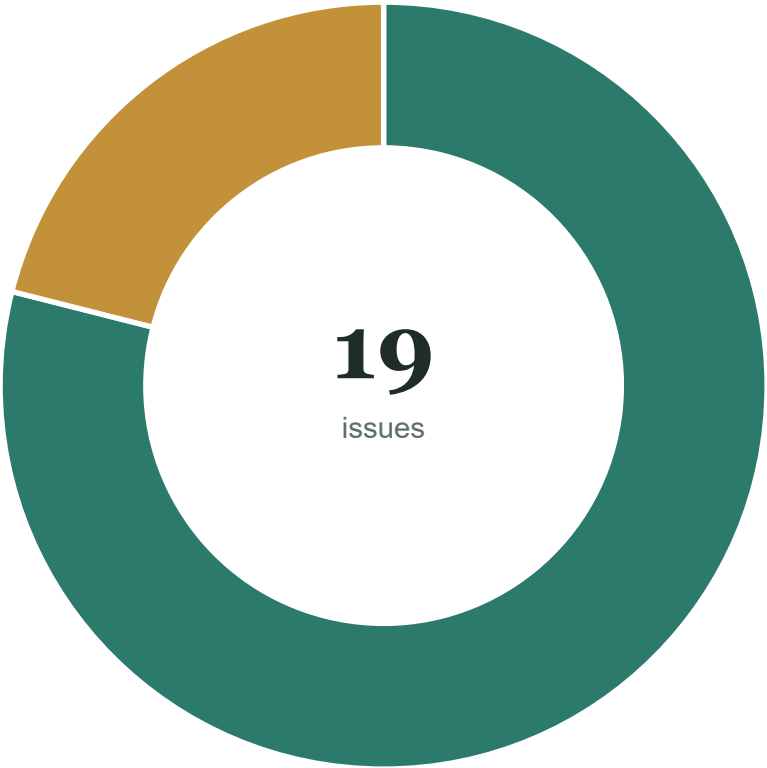
Every critical issue, addressed

All 19 of the plan's critical issues have active implementation behind them — no gaps. Most are carried by on-the-ground OWEB restoration work; the rest by the partnership's ARPA-funded assessments and planning.

19 / 19

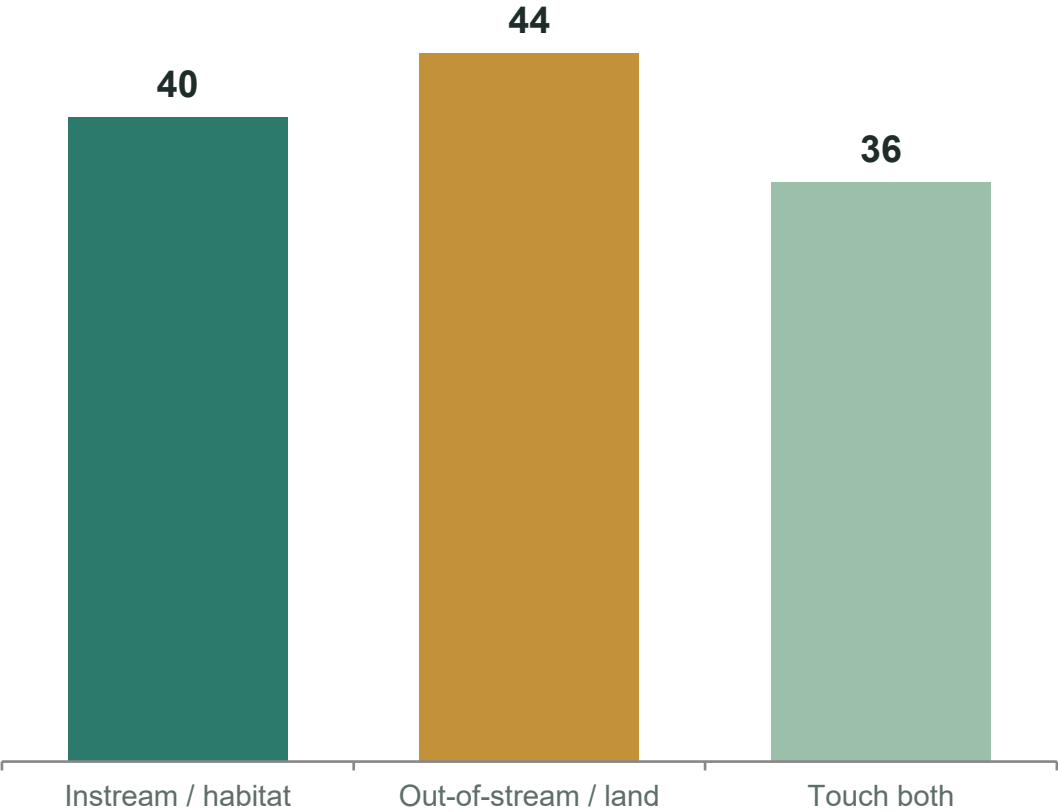
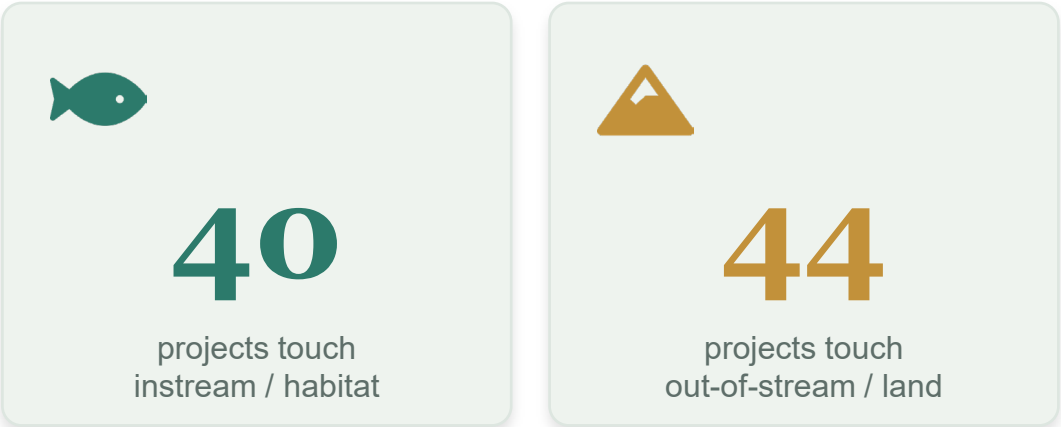
critical issues with implementation

- 15 issues carried by OWEB / OGMS restoration projects
- 4 issues carried by ARPA assessments & planning (irrigation, municipal, groundwater, data)



Instream and out-of-stream, by design

Place-based planning lives or dies on balance — fish and flows on one side, working farms and ranches on the other. The portfolio straddles that line deftly: nearly every project delivers for both.



Of 48 projects · most deliver for both interests at once

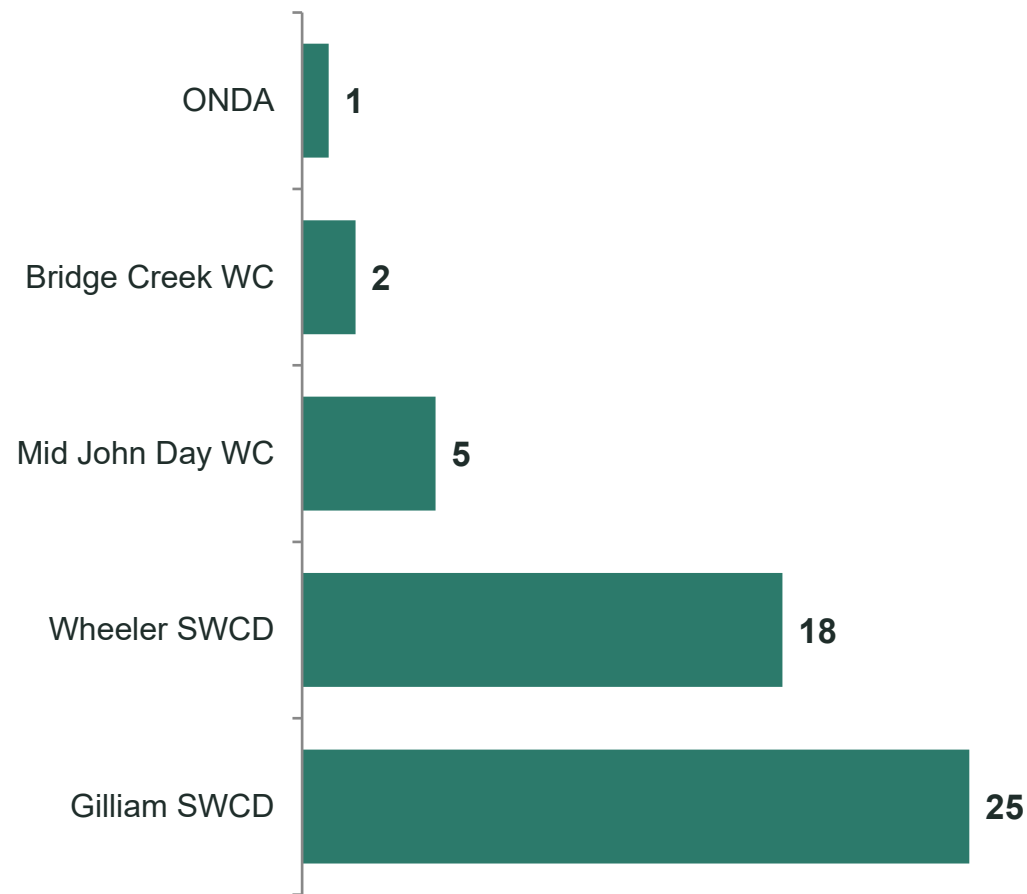
THE BIGGER PICTURE

And this is only a handful of partners

This \$7.3M record comes from just five partner organizations in the Lower John Day Work Group. It is a slice of what the full John Day Basin Partnership is implementing across the whole basin — the complete picture is considerably larger.

5 partner organizations

delivered all 51 projects — a subset of the 20+ organizations in the John Day Basin Partnership.



Projects delivered, by Work Group partner



What it means

- ✓ A credible, verified implementation record that keeps the plan's state recognition secure.
- ✓ The strongest evidence in our Post-Plan Coordination application — real dollars, mapped to the plan.
- ✓ A proven foundation as we carry priorities into the FIP 2.0 application this summer.

\$7.3M implemented · 51 projects · 19 of 19 issues · balanced instream & out-of-stream

Place-Based Water Planning

07/01/2026

Attachments (Post-Plan Coordination Grants) *(cont.)*

 Appendix C StrategicActionPlan.xlsx

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
PHASE I 2022- 2025									
Critical Issue 1: Poor riparian habitat	Bridge Creek (above West Branch) Bridge Creek (mouth) Bear Creek West Branch Bridge Creek Butte Creek	Protect riparian areas from livestock using fencing and off-stream stock watering systems	NRCS-CREP, CTWS,OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, DEQ 319 grant, BLM, private foundations/organizations (Rocky Mountain Elk Foundation, Blue Mountain Land Trust, ONDA, Ruffed Grouse Society),ODA	SWCD's, WC, ONDA	2022-2025	q2	Increase in area of healthy riparian vegetation at project sites.	yes/no	Conduct suneye measurements or obtain solar input imagery through drone imagery, measure % shade, measuree % of active erosion, measure change in stream temp; Quantify change in solar input per unit area; Quantify # of Acres treated, Linear Ft fenced, number of off stream troughs installed
		Protect, enhance, and/or restore native riparian vegetation	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant,ODA	SWCD's, WC, ONDA	2022-2025	Number of protection/restoration projects completed; number of stream miles treated with projects.	Increase in areas of healthy riparian vegetation at project sites.	yes/no	Number of Acres treated; Quantify change in: shannon's diversity index; volume, depth and width of pool/riffle habitat; pool to riffle ratio. Reduction in stream temp., increase in groundwater levels, reduce channel incision,% shade,%active erosion, increase stream sinuosity, Total suspended solid in m3, no. of fish count, ., increase in linear ft of floodplain, Conduct vegetation surveys to document change in vegetation. Quantify Linear Ft installs, acres of planted natives, acres of invasive species treated, how many species and individual plants planted, Survival rate of plantings,% shade change, % active erosion, Reduction in stream temp, Quantify % change in ground cover, understory, and canopy cover.
		Reconnect floodplains (beaver dam analogs, beaver restoration, floodplain restoration, etc.)	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG, OWRD grants and loans?	SWCD's, WC, ONDA	2022-2030	Number of projects completed; stream miles treated.	Increase in streamflows, reductions in stream temperatures, increased, increase in groundwater levels, increase in channel sinuosity, increase in beaver habitation, and increase in area of healthy riparian vegetation (all as measured in project areas).	yes/no	Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach; Conduct habitat surveys (i.e. CHaMP lite), Monitor beaver activity, document presence and count of dams, volume and surface area of ponds created by dams vs volume and surface area of water before dams;Quantify the change in the number of dams. Quantify the volume and surface area of beaver ponds. Use remote sensing to map heterogeneity in thermal patterns near BDA's and in control areas

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 2: Elevated Summer Stream Temperatures and Low Instream Oxygen	Bridge Creek (above West Branch) Bridge Creek (mouth) West Branch Bridge Creek Butte Creek Bear Creek	Identify, protect, and restore seeps and springs supplying cool water	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG,DEQ 319 grant, The Freshwater Trust, Trout Unlimited, Mid- Johnd Day/Bridge Creek Watershed Council, Bullet Foundation, Ford Family Foundation, Oregon Community Foundation	CA, ONDA	2022-2025	Number of springs identified, then number protected and restored. Number of spring source fenced off	Reduction in stream temp., Increase in Dissolved Oxygen levels; increase in flows from springs,	yes/no	Quantify change in volume of cool water available to salmonids (volume of water <18°C 7DAM) pre and post treatment
		Maintain and increase streamflows	OWRD, Columbia Basin Transcation Program (NWIF), Freshwater Trust	OWRD, WW, CA, ONDA		Number of water right applications, Number of conserved water projects,Number of irrigation efficiency projects	Increase in streamflows.	yes/no	Quantify reduction in stream temp., Quantify icrease in Dissolved Oxygen levels; Quantify change of increase in streamflows. Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach
		Conduct additional monitoring for temperature and dissolved oxygen	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS	CA	2022-2025	Number of additional devices installed to measure/monitor temperature and dissolved oxygen.	Increase in available data on temperature and dissolved oxygen.	yes/no	Install and monitor temperature loggers pre and post treatment, install monitoring devices dissolved oxygen. Measure change in 7DAM temperature.
		Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)			2022-2025				
Critical Issue 3: Insufficient Instream Flow	Bridge Creek (above West Branch) Bridge Creek (mouth) Rock Creek (mouth) West Branch Bridge Creek Bear Creek Butte Creek	Encourage improved irrigation efficiency projects and use of Conserved Water Act (to reduce out-of-stream demand through efficiency improvements and to protect portion of water saved instream)	CBWTP, BPA, NWPPC, SWCDS NRCS, TU	SWCD, WC	2022-2025	Number of irrigation efficiency projects installed/upgraded; quantity of water projected instream using Conserved Water Act. Number of irrigators educated on efficiency opportunities.	Increase in streamflow resulting from projects completed.	yes/no	Quantify irrigation projects installed or upgraded - VFD pumps, sprinkler nozzles, irrigation converted from gun to wheel, or wheel to pivot. Number of new monitoring stations installed;quantify the volume of water saved and estimate distance held as instream flow (volume x distance from improved POD to next downstream POD where water is removed, include water temperature of diverted water saved
		Encourage voluntary leases and transfers of existing water rights to instream use	OWRD, CBWTP, Ag groups, Columbia Basin Transaction Program (NWIF)	SWCD, WC, WW	2022-2025	Number of leases identified and then transferred. Amount of water protected instream through leases and permanent transfers of existing water rights to instream water rights.	Increase in streamflow resulting from leases and tranfers.	yes/no	Install and monitor pressure logger pre and post treatment upstream and downstream of restored reach Quantify the number of leases, and cfs recruited.
		Encourage and assist state agencies in creating additional instream water rights	ODFW, OWRD	OWRD, WW	2022-2025	Number of actions taken to encourage agencies to seek additional instream water rights.	Number of additional instream water rights applied for; number approved; increase in streamflows resulting from additional instream water rights.		Percent increase in streamflows (cfs) measured at priority WAB gages, number of agency personnel trained or hired for instream flow work.

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
		Implement strategies for Critical Issue 11 (Diversion Data)			2022-2025				
		Implement strategies for Critical Issue 1 (Riparian)			2022-2025				
		Implement strategies for Critical Issue 4 (Storage)			2022-2025				
Critical Issue 4: Storage Needs	West Branch Bridge Creek Thirty mile Sorefoot creek Pine Hollow Bridge creek (above West Branch)	Complete a feasibility study to assess potential off-channel water-storage projects, including: (a) potential locations for storage projects; (b) water availability, including consideration of all categories of in-stream flow needs (as recognized in the Step 3 Report) and changing hydrographs due in part to climate change; (c) in-stream and out-of-stream needs for water from storage; and (d) other costs and benefits	OWRD, Oregon Cattlemens Association, Oregon Farm Bureau, Oregon Department of Agriculture, DEQ 319, USDA Rural Initiative	OWRD, SNW, WW	2022-2025	Number of applications submitted for funding feasibility study.	Study findings presented to LJDWG, JDP and community.	yes/no	Study findings presented to LJDWG, JDP and community. Number of AcreFeet of storage proposed or not proposed from study, off chanel storage sites recommended or not recommended.
		Develop off-channel storage projects as suggested by feasibility studies	OWRD, NRCS, SWCD, Watershed Councils, OCA, OFB	TBD	2022-2025	Number of projects consistent with studies implemented (if any).	Increase in water available for instream and out-of-stream needs during dry months; maintenance instream flow needs throughout the year.	yes/no	TBD based on feasibility study outcomes

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 5: Degraded Native Plant Communities	Bear Creek Bridge Creek (above west branch) Butte creek Rock creek (above Wallace Canyon), Rock creek (mouth)	Control noxious weeds	OSWB, OWEB-OS, OWEB-FIP (Butte/Thirtymile), SWCD, Oregon Cattlemans Association, Oregon Farm Bureau, ODA, National Parks (JD Fossil Beds National Monuement) ONDA. BlueMountain Land Trust, RMEF	SWCD, NRCS	2022-2025	Number of projects and acres treated to control noxious weeds.	Decrease in noxious weeds.	yes/no	Quantifiy acres treated, projects completed. Document conditions pre and post treatment by estimating density of invasive plants, note methods used
		Restore upland function by improving plant communities with juniper removal, and planting of appropriate perennial bunchgrasses, shrubs, and forbs.	OWEB-OS, OWEB-FIP for Butte and Thirtymile WS, OWEB-SG	SWCD, NRCS	2022-2025	Number of projects completed; area covered by projects.	Number of acres treated, land owners/managers participating Increase in area of healthy native plant communities.	yes/no	Identify areas to be thinned, Monitor plant density, vigor, and compostion pre and post treatment. Include 2yr survival post planting
		Implement strategies for Critical Issue 1 (Riparian)			2022-2025				
PHASE II 2025-2027									
Critical Issue 6: Insufficient Efficient Irrigation Infrastructure	Alder Creek, Kahler Creek, Rock Creek (mouth), West Branch Bridge Creek, Rock creek (mouth), John Day mainstem-Heidtmann Canyon to N.Fork, Mouth to Heidtmann Canyon	Conduct outreach to irrigators about more efficient irrigation practices and systems and encourage adoption	Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319. ODA. Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, TU, National Parks (JDFBNM)	SWCD, WC	2025-2027	Workshop delivered, # Field tours	Number of irrigators educated, presence of BPA irrigation specialists providing services, Number of projects upgraded or converted.	yes/no	
		Promote utility, state and federal incentive programs for improving irrigation efficiency	Oregon Farm Bureau, Oregon Cattlemens Association, DEQ 319. ODA. Columbia Basin Water Transaction Program, OWEB, CWDS, NRCS, TU, National Parks (JDFBNM)		2025-2027	Workshop delivered, # Field tours	Presence of utility services provided through BPA .Irrigation efficiency projects implemented as a result of promotion.	yes/no	
		Replace inefficient and failing diversions and/or screens such as push up dams with new structures that maintain or improve native fish passage	ODFW, OWEB, Private Foundations		2025-2027	number of failing diversions, push up dams fixed and removed Number of diversions replaced and/or screened to improve fish passage.	Improved fish passage; fewer fish pulled into diversion works Increase (or reduced decline) in native migratory fish populations due to fish passage improvements at projects.	yes/no	
		Pipe open ditches	BOR (WaterSmart), OWRD (Water projects grants and loans), Local SWCD, EQIP NRCS		2025-2027	Linear feet piped	Amount of water conserved	yes/no	

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		Replace inefficient irrigation systems with more efficient systems (e.g., replace flood irrigation with sprinklers)	OWEB, NRCS, CBWTP, BPA, Tribes		2025-2027	# projects upgraded; Number of irrigation systems replaced with more efficient systems.	Amount of water conserved for in and out of stream needs from efficiency projects; Amount of water conserved as a result of efficiency projects.	yes/no	
Critical Issue 7: Inadequate Gauge Data	Bear Creek, Bridge Creek(above West Branch), Bridge Creek (mouth), Butte Creek,Thirty mile	Support maintenance of existing gauges	OWRD, USGS, ODA, Columbia basin water transaction program, Oregon Cattlemens Association, Oregon Farm Bureau		2025-2027	OWRD capacity increase and prioritization Actions taken to support maintenance of existing gauges.	Number stream gages maintained	yes/no	
		Support installation and maintenance of additional gauges at discontinued and recommended new sites	OWRD, USGS, TU, ODA		2025-2027	OWRD capacity increase and prioritization Actions taken to support installation and maintenance of additional gauges.	Number of stream new and/or restored gages installed	yes/no	
Critical Issue 8: Outdated and insufficient municipal water and wastewater infrastructure	Butte Creek, Grass Valley Canyon,John Day Mainstem,Mouth to Heidtmann Canyon,Bridge Creek (above West Branch),Thirtymile Creek	Assist cities in creating and/or improving Water System Management Plan and/or Water Management and Conservation Plan that identify necessary system improvements. Assess whether these plans cover all needed improvements.	USDA Rural Initiative, local cities, local counties, State of Oregon, Oregon Community Foundation, Collins Foundation, create Local Improvement Districts, WaterSmart (BOR)		2025-2027	# of cities and municipal systems assisted	Number of plans developed	yes/no	
		Assist entities with public water and wastewater systems in funding and implementing infrastructure improvement projects	same		2025-2027	Number of cities and municipal systems assisted	Number of projects developed, wastewater treatment updrades, gallons of water treated	yes/no	
		Support and advocate for increased communication for water conservation in public / municipal water systems and infrastructure needs	OWRD, State of Oregon Legislature, Capacity grants (OWEB), Association of Oregon counties?		2025-2027	Number of newsletters and communication material distributed by water utilities, SWCD, Watershed Councils and other related and earned media news outlets	Increase in water conservation attributable to outreach; increase in support for necessary infrastructure projects	yes/no	Number of wastewater systems funded and improved

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Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 9: Lack of data on condition of groundwater aquifers and interactions between groundwater and surface water	Grass Valley Canyon,Jackknife Canyon,Rock Creek (above Wallace Canyon),Rock Creek (mouth),	Conduct process based hydrologic study including how stream and groundwater flows change with land use and future climate change.	OWRD, USDA rural intititives, O Department of Geology and Mineral INdustries, Oregon Groundwater Association, Oregon Community Foundation, Ford Family Foundation. Association of Oregon Counties		2025-2027	Whether study was completed. Number of watersheds analyzed	Increase in knowledge regarding issues addressed.	yes/no	LJDWG/JDP outreach to community to share study results.
		Analyze existing groundwater data, and conduct a groundwater study in the basin	OWRD, OWEB, Gilliam, Sherman, Wheeler, Grant Counties, OCA, OFB, BOR,USGS		2025-2027	Number of groundwater studies conducted, Analysis of existing groundwater data;	Increase in knowledge re condition of groundwater aquifers and interactions between groundwater and surface water	yes/no	LJDWG/JDP outreach to community to share groundwater data,
		Establish, support and help fund additional groundwater monitoring wells and support community groundwater monitoring networks	Association of Oregon Counties, OCA, OFB			Number of additional groundwater monitoring wells installed; number of participants in community groundwater monitoring network.	Increase in knowledge re condition of groundwater aquifers and interactions between groundwater and surface water. Percent change in groundwater levels.	yes/no	Quantify % Change in aquifer levels.
Critical Issue 10: Fish passage	Alder Creek, Bear Creek, Bridge Creek (above West	Provide full fish passage (removal, repair and/or replacement) at priority artificial obstructions including culverts and dams.	USFS, BLM, OWEB, ODFW, CT of the Warm Springs and the Umatilla, SWCDS, Watershed Councils, TU, Bullit Foundation, RMEF		2025-2027	Number of priority obstructions at which full fish passage provided.	Increase (or reduced decline) in native migratory fish populations due to fish passage improvements at projects.	yes/no	Monitor, quantify fish distribution as a result of fish barrier improvements. Number of barriers improved/ removed, quantify fish presence, estimate length of stream occupied pre and post restoration; Quantify change in % survival via PIT tagging and passive redetection.

LOWER JOHN DAY INTEGRATED WATER RESOURCE PLAN: STRATEGIC ACTION PLAN

Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
barriers	Branch), Bridge Creek (mouth), Butte Creek	Assist ODFW with updating list of priority fish-passage barriers if necessary	BLM, USFS, Councils, SWCD, TU		2025-2027	Number of inputs to ODFW regarding identification of priority fish passage barriers (if necessary)	Accuracy of list of priority fish-passage barriers.	yes/no	Monitor, quantify fish distribution as a result of fish barrier improvements. Number of barriers improved/ removed, quantify fish presence, estimate length of stream occupied pre and post restoration; Quantify change in % survival via PIT tagging and passive redetection.
PHASE III 2027-2030									
Critical Issue 11: Inadequate diversion data	Bridge Creek (above West Branch), Bear Creek, West Branch Bridge Creek,Rock Creek (mouth),Thirtymile Creek ,Butte Creek, BLM, USFS	Support additional personnel for flow and diversion monitoring and management	OWRD, ODA, NW Power Planning Council, Bonneville Power Administration, Tribes, BLM USFS, USGS. NOAA		2027-2030	Number of actions taken to support increase in personnel for flow and diversion monitoring and management.	Number of additional personnel for flow and diversion monitoring and management.	yes/no	
		Advocate for irrigator incentives for measurement of diversions, including installing measurement devices	OWRD, OCA, OFB, Association of Oregon Counties		2027-2030	Actions taken to advocate for incentives.	Number of measuring devices installed as a result of incentives obtained.	yes/no	
		Promote existing incentives for measurement of diversions	OFB, OCA, OWEB, NRCS, SWCD's		2027-2030	number of entities adopting new rules ie, all SWCD's require Actions taken to promote incentives.	Number of measuring devices installed as a result of incentives obtained.	yes/no	
Critical Issue 12: Poor soil health in many of the Water Availability Basins	Grass Valley Canyon,Esau Canyon,John Day River - Heidtmann Canyon to N Fork, Rock Creek (above Wallace Canyon), Rock Creek (mouth)	Promote good vegetative cover/cover crops.	ODA< Cattimen, Farm Bureau, SWCD, USDA NRCS		2027-2030	Actions taken, acres covered, number of actions/proejects taken to promote veg cover.	Increase in acreage/area with good vegetative cover/cover crop as a result of promotion.	yes/no	Quantify downstream habitat protected, measure sediment storage post treatment
		Promote mulch tillage, ridge tillage, zone tillage, no till, chem fallow, and CRP as ways to improve soil health, etc.)	SWCD, NRCS, ODA		2027-2030	Actions taken to promote improved soil condition, number of acres under changed tillage practices	Increase in promoted practices resulting from promotion.	yes/no	Measure carbon uptake in soils through NRCS/SNW pilot. Quantify downstream habitat protected, measure sediment storage post treatment
		Support payment programs for landowners adopting soil carbon improvement practices and management that mitigates for greenhouse gas emissions	Ecotrust, private companies, Oregon Tilth, Climate Trust,		2027-2030	Number of projects and action taken to promote carbon sequestering	Number of projects completed as a result of payment programs promoted.	yes/no	Number of landonwers, numbers of projects, number of soil samples, carbon increased

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Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 13: Simplified Stream Morphology	Bear Creek, Bridge Creek (above West Branch), Bridge Creek (mouth), Butte Creek, Thirtymile Creek	Implement strategies for Critical Issues 1 (Riparian) and 3 (Streamflow)	OWEB, Councils, Tribes, Private Foundations, BPA, NWPPC, TU		2027-2030			yes/no	
Critical Issue 14: Adequate surface water for wildlife	Bear Creek, Bridge Creek (above West Branch), Butte Creek, Thirtymile Creek, West Branch Bridge Creek	Conduct study regarding changes in prevalence and function of springs and causes of changes	RMEF, TU, Ruffed Grouse Society, Oregon Wildlife Society, Tribes		2027-2030	number of studies	Increase in knowledge resulting from study.	yes/no	Track spring protection and restoration.
		Implement strategies for Critical Issues 1 (Riparian) and 5 (Native Plants)			2027-2030			yes/no	
Critical Issue 15: Risk of intense or catastrophic wildfire that impacts water quantity and quality	Butte Creek, Rock Creek (mouth), Thirtymile Creek, West Branch Bridge Creek, Pine Creek, Pine Hollow	Create and promote wildland urban interface buffers, and defensible space around rural homes and buildings.	Oregon Department of Forestry, USDA, OWEB, Private Foundations, Tribes, OR cattlemens association Oregon Farm Bureau, SWCD's BLM, USFS		2027-2030	number of acres treated, number of structure protected	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	
		Increase pace and scale of forest restoration, including prescribed burning and thinning	ODF, USFS, BLM		2027-2030	Acres treated	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	
		Support community wildfire response plans	ODF, USFS, FEMA, Local WC's and cities		2027-2030	Actions taken to support plans.	Reductions (or reduced increases) in damage from wildfire as a result of projects.	yes/no	Track identified actions
Critical Issue 16: Insufficient data on crops, climate, and datasets to support analysis.	Bridge Creek (mouth), West Branch Bridge Creek, Parrish Creek, John Day River - Heidtmann Canyon to N Fork, John Day River - Mouth to Heidtmann Canyon	Support Agri Met station in Basin	ODA, Cattlemen, Farm Bureau, SWCD's NRCS		2027-2030	Actions taken to support station.	Number of stations added.	yes/no	
		Support collection of additional Lidar data	NRCS, DOGAMI (State Dept. of Geology and Industries)		2027-2030	Actions taken to support collection of additional data.	Amount of additional data collected.	yes/no	
		Analyze existing data on crop and climate	Agrimet (BOR), ODA?, OSU (OCCI), ARS, National Agriculture Statistics Census USDA		2027-2030	Actions taken to analyze data.	Increase in knowledge resulting from analysis.	yes/no	

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Critical Issue	Priority WABS	Strategies	Funding	Team Lead	Timeline (Phase I, II, III)	Implementation Metric	Effectiveness Monitoring Metric	Monitoring/Reporting (have the actions created healthier or better conditions?)	Notes on how to implement, measure, monitor and report:
Critical Issue 17: Degraded Forest Health	Bear Creek,Bridge Creek (above West Branch), Bridge Creek (mouth), Kahler Creek, Parrish Creek	Implement strategies for Critical Issue 5 (Native Plants)	USFS BLM SWCDS, Or Cattlemen, Oregon Farm Burea ODF		2027-2030			yes/no	
		Implement prescribed burn and thinning for forest management	ODF,USFS,FEMA, Local WC's and cities, NRCS,OWEB		2027-2030	Number of projects and acres treated.	Acres thinned/treated, projects completed. Increase in area of healthy forest resulting from projects.	yes/no	Quantify acres thinned and transprition loss due to vegetation pre and post treatment. Record forest stand composton pre and post treatment
Critical Issue 18: Erosion and Sediment Transport/Control	Butte Creek Thirtymile Creek Bridge Creek (above West Branch) Bridge Creek (mouth) Bear Creek	Implement strategies for Critical Issue 12	NRCS, SWCD's, AG groups, ODA		2027-2030			yes/no	
		Promote best management practices for the capture and safe release of water (Water and sediment control basins, etc.)	OWRD,DEQ-319,NRCS,SWCD's		2027-2030	Actions taken to promote.	Number of projects undertaken as a result of promotion; improvements in water quality as a result of projects.	yes/no	Quantify downstream habitat protected, measure sediment storage post treatment
Critical Issue 19: Rural and domestic well data gaps	Grass Valley Canyon Rhodes Canyon Rock Creek (above Wallace Canyon) Butte Creek Hay Creek	Conduct voluntary survey for non-municipal well users to capture issues associated with domestic water availability and quality	OWRD,OWEB?, Private foundations, USDA		2027-2030	Whether survey conducted.	Increase in knowledge regarding issues associated with domestic water availability and quality.	yes/no	
		Provide assistance or technical expertise through OWRD support on installing well level monitors.	OWRD,USGS,BOR		2027-2030	Number of people assisted	Number of monitors installed; increase in knowledge regarding groundwater as a result of increased number of monitors.	yes/no	
		Provide information on where to get well water testing kits and technical support for water quality issues	OWRD,OHA		2027-2030	Actions taken to provide information from local water district or agency or county or municipal services agency	Number of people assisted; number of tests conducted; improvements to water quality from rural and domestic wells.	yes/no	

Attachments (Post-Plan Coordination Grants) (cont.)

Please provide Plan Implementation Progress. This may include grants you have applied for, ongoing projects, or completed projects. For each project listed, provide a brief project summary and identify the corresponding strategy/action/solution, the project leader, funding sources (secured/applying/unsuccessful), whether it addresses groundwater, surface water, water quality, water quantity, ecosystem needs, instream, and/or out-of-stream issues, and project metrics (if applicable). If using a table, you may upload your own list or [this spreadsheet](#).

Plan Implementation Progress

Can be combined with Plan Implementation Strategies

 Copy of LJD_Implementation_Project_Tracking_FILLED (2).xlsx

Project Tracking

Planning Collaborative Name: Lower John Day Working Group							
	Lower John Day Working Group						
Progress Made Towards Implementation							
Progress made towards implementation may include grants you have applied for, ongoing projects, or completed projects. For each project listed, provide a brief project summary and identify the corresponding strategy/action/solution, the project status, the project leader, funding sources and status (secured/applying/unsuccessful), and project metrics/outcomes. Please include any other pertinent information that might be available, such as details regarding project status. You may upload your own list or use this spreadsheet.							
Project Title	Project Summary	Project Status (e.g., early stage, in progress, paused, near completion, completed, canceled)	Associated Plan Strategy/Action/Solution(s)	Project Leader	Project Partners	Funding Sources and Funding Status	Project Metrics/Outcomes (e.g., water conserved, miles of pipe built, miles of stream restored, number of people reached through targeted outreach, etc.)
Implementation Coordination (ARPA Task 1, \$35,500)	Funds the Lower John Day Work Group to continue meeting and implementing the LJD plan: 8 facilitated meetings (6 quarterly virtual + 2 annual in-person), subcommittees, partner participation, and outreach/Listserv. Water interest: Both - coordination.	Ongoing; ARPA concludes August 2026	CI 1-5 (supports all interests)	Gilliam SWCD	Mid John Day WC; LJD Work Group partners	ARPA - Secured - Concludes August 2026	Engagement consistent with 10+ attendees per meeting
Biological Assessment (ARPA Task 2, \$44,000)	Programmatic ESA §7 Biological Assessment for low-tech process-based restoration (BDAs/PALS) to obtain a programmatic Biological Opinion via NOAA Fisheries/USFWS and streamline future PBR permitting. Water interest: Instream - SW - Eco.	Ongoing; ARPA concludes August 2026	CI 1, 2, 3 (=1.3, 13.1)	Gilliam SWCD	NOAA Fisheries; USFWS; Mid John Day WC	ARPA - Secured - Concludes August 2026	Programmatic BA/BiOp enabling pace & scale of PBR; stream miles treated (forthcoming)
Rock/Butte Creek Watershed Management Plan (ARPA Task 3, \$27,500)	LIDAR/HAND floodplain-connectivity LTPBR prioritization across Rock Creek (1707020412) + Butte Creek (1707020405), ~200 mi; valley-bottom delineation, riverscape condition, restoration-prioritization maps/datasets, and a web planning tool. Water interest: Instream - SW - Eco.	Completed	CI 1, 2, 3 (=1.3, 13.1, 16.2)	Gilliam SWCD	NRCS (partner only); Mid John Day WC	ARPA - Secured (primary) - Concludes Aug 2026; OWEB TA 224-6033 (\$41,424) = MATCH	Watershed Management Plan / Report; prioritization maps & web tool
Irrigation Efficiency Assessment (ARPA Task 4, \$88,000)	Office review + ditch/infrastructure mapping + irrigator survey/ground-truthing to produce an irrigation-efficiency roadmap for the basin. Water interest: Out-of-stream - Qty (instream benefit).	Completed	CI 6 (=6.x)	Gilliam SWCD	Wheeler SWCD; Sherman SWCD	ARPA - Secured - Concludes August 2026	Report; outreach flier/materials (basin-wide); GIS database
Municipal Needs Assessment (ARPA Task 5, \$55,000)	Preliminary water-system evaluations + city-council meetings to identify existing conditions and future needs for the basin's municipalities. Water interest: Out-of-stream - Qty.	Completed	CI 8	Gilliam SWCD	8 municipalities (incl. Moro, Grass Valley, Condon, Lonerock, Fossil, Spray, Mitchell)	ARPA - Secured - Concludes August 2026	Report and path-forward for each city's municipal improvements; assessed existing conditions & future needs for eight municipalities (supports Mitchell source-water planning; Fossil/Moro distribution improvements).
Thompson Creek Watershed Improvement 1	This project is located in the Thompson Creek watershed in southwest Wheeler County. Thompson Creek is an important tributary in the Bridge Creek Watershed. Water interest: Both - SW-Qty-Eco.	In progress (monitoring/effectiveness phase)	CI 1; CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=1.1/1.2, 5.1/5.2, 17.2, 15.2, 14.1)	Bridge Creek WC	SWCD/WC; NRCS, landowner	OWEB (OGMS 222-6008) - Awarded; Monitoring [Project Amount \$203,499]	juniper removal + grass-cover improvement; ~933 / 840 ac; springs; improve infiltration, reduce runoff/erosion, lower wildfire fuel load.
Nelson Creek Forest Restoration	This project is located in the Bridge Creek Watershed, near where Nelson Creek leaves the Ochoco National Forest and enters privately owned property, approximately 2 miles South of the town of Mitchell Oregon, in Wheeler County. Water interest: Both - SW-Qty-Eco.	In progress (monitoring/effectiveness phase)	CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=5.1/5.2, 17.2, 15.2, 14.1)	Wheeler SWCD	SWCD/WC; landowner	OWEB (OGMS 222-6009) - Awarded; Monitoring [Project Amount \$188,750]	eradicate western juniper, reinvigorate grass/forb communities, develop 3 spring sources for grazing distribution; ~246 / 174 / 178 ac; restore fire-resilient forest.
Headwaters of Keyes Creek	1.)This project is located on one landowners private property in the Bridge Creek Watershed at the headwaters of Keyes Creek, approximately 5 miles east of the town of Mitchell, OR in southern Wheeler County. Water interest: Both - SW-WQ-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 15; CI 18; CI 14; CI 4 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 15.2, 18.1, 14.1)	Wheeler SWCD	SWCD/WC; landowner	OWEB (OGMS 223-6002) - Awarded; Open [Project Amount \$80,886]	upland capture/store/release of precipitation + riparian restoration — ~115 / 135 / 45 ac; 3 springs; ~5 mi; build soil organic matter/nutrients & wildlife habitat (broadest CI coverage).
Thompson Creek Watershed Improvement 2	This project is located in the Thompson Creek watershed in southwest Wheeler County. Thompson Creek is an important tributary in the Bridge Creek Watershed. Water interest: Both - SW-Qty-Eco.	In progress	CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=5.1/5.2, 17.2, 15.2, 14.1)	Mid John Day WC	SWCD/WC; NRCS, landowner	OWEB (OGMS 225-6005) - Awarded; Open [Project Amount \$245,705]	pre-commercial thinning of 148 ac mixed forest (adjacent to 169 ac NRCS thinning) + 10 ac reseedling. Partners: ODF, NRCS, landowner.

Project Tracking

West Branch Bridge Creek Aquatic Inventory and Fish Passage Assessment	This project will take place in the subwatershed of West Branch Bridge Creek HUC 12 (170702040302), located on 10.58 miles of West Branch Bridge Creek, where West Branch Bridge Creek leaves Ochoco National Forest entering privately owned property to the confluence of Bridge Creek. Water interest: Both · SW-WQ-Qty-Eco.	In progress	CI 1; CI 13; CI 3; CI 5; CI 12; CI 17; CI 15; CI 2; CI 10 (=1.3, 13.1, 5.1/5.2, 17.2, 2.3, 10.1)	Wheeler SWCD	SWCD/WC; USFS, ODFW, landowner	OWEB (OGMS 223-6027) - Awarded; Open [Project Amount \$74,656]	fish-passage & barrier assessment + aquatic habitat inventory on West Branch Bridge Creek (~10.6-15.5 mi) to prioritize barriers for future projects.
West Branch Diversion and Pipeline Design	The project is located near the headwater of West Branch Bridge Creek in the Bridge Creek Watershed southwest of Mitchell OR. 2) Currently water is conveyed from West Branch Bridge Creek through a 2.3 miles open hillside ditch to service approximately 250 acres of fields. Water interest: Both · SW-Qty-Eco.	In progress	CI 10; CI 6; CI 3 (=10.1, 6.x)	Mid John Day WC	SWCD/WC; ODFW, landowner	OWEB (OGMS 224-6030) - Awarded; Open [Project Amount \$68,009]	Proposed (per application, TA): identify conserved water to leave instream and make the implementation project eligible for OWRD funding; diversion/pipeline design; significant landowner cost-share.
Butte Creek Watershed Restoration	1.) This project is located in the Northeast portion of Wheeler County, within the Butte Creek Watershed approximately 3.5 miles East of the town of Fossil. Water interest: Out-of-stream · Eco.	In progress (monitoring/effectiveness phase)	CI 5; CI 12; CI 17; CI 15 (=5.1/5.2, 17.2, 15.2)	Wheeler SWCD	SWCD/WC; NRCS, landowner	OWEB (OGMS 222-6019) - Awarded; Monitoring [Project Amount \$123,511]	eradicate juniper + thin overstocked timber for fire-resilient uplands; ~195 / 87 / 276 ac; reinvigorate grass/forb communities.
Butte and Rock Creek LiDAR Based Restoration Prioritization Framework	The project is located within the Butte Creek and Rock Creek watersheds in Gilliam, Morrow, and Wheeler Counties), and are tributaries to the lower John Day River 2) The recovery planning process conducted by the John Day Partnership was used to identify restoration opportunities using the John Day Basin Partnership Atlas multi-criteria decision analysis tool. Water interest: Both · SW-WQ-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 2; CI 16 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 2.3, 16.2)	Gilliam SWCD	SWCD/WC; NRCS, ODFW	OWEB (OGMS 224-6033) - Awarded; Open [Project Amount \$41,424]	Proposed (from OGMS summary): 200 miles
Cottonwood - Butte Creek Upland Renovation	This project is located in the Cottonwood - Butte Creek Watershed HUC 6 (170702040501) Southeast of Fossil, Oregon in Wheeler County. 2) Over the years Western juniper encroachment has increased due to the restriction and suppression of fire creating issues both with water quality and water quantity. Water interest: Both · SW-WQ-Qty-Eco.	In progress	CI 5; CI 12; CI 15; CI 18; CI 14; CI 4 (=5.1/5.2, 15.2, 18.1, 14.1)	Wheeler SWCD	SWCD/WC; NRCS, landowner	OWEB (OGMS 223-6021) - Awarded; Open [Project Amount \$99,766]	pair riparian + upland recovery — exclusion fencing, BDAs, riparian planting, forest stand improvement, brush mgmt, spring developments, sediment-control basin, firebreaks; ~318 / 155 / 167 ac; 7 springs.
Pine Creek Forestry Improvement	The project is located in the Pine Creek watershed in northwestern Wheeler County. The watershed drains to the John Day River near Clarno. Like much of Central and Eastern Oregon, this area has been inundated with western juniper and faces threats from annual grass invasions as well. Water interest: Both · SW-Qty-Eco.	In progress	CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=5.1/5.2, 17.2, 15.2, 14.1)	Mid John Day WC	SWCD/WC; Tribes, Confederated Tribes, Warm Springs, landowner	OWEB (OGMS 225-6002) - Awarded; Open [Project Amount \$191,570]	increase planting density on CREP acres + seed disturbed areas; forest understory improvement (~135 / 695 ac context).
Pine Creek Conservation Area Robinson Creek Riparian Restoration Plan	Robinson Creek is located within the Pine Creek Conservation Area (PCCA), a 34,012 acre property in Wheeler County owned and managed by the Confederated Tribes of Warm Springs. Water interest: Both · SW-Qty-Eco.	Completed	CI 1; CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=1.1/1.2, 5.1/5.2, 17.2, 14.1)	Oregon Natural Desert Association	SWCD/WC; ONDA, Tribes, Confederated Tribes, Warm Springs	OWEB (OGMS 223-6010) - Awarded; Complete [Project Amount \$30,243]	Proposed (per application, ONDA-led): riparian restoration plan for the Pine Creek Conservation Area (Robinson Creek); CTWS-valued hunt/gather resources; CTWS staff in-kind match; planning/design.
Alder Creek Watershed Improvement 2	The Alder Creek watershed is a smaller watershed within the LJD-Kahler Creek HUC in north central Wheeler County. The increase of western juniper has created a decline in desirable shrubs and herbaceous vegetation in the watershed. Water interest: Both · SW-Qty-Eco.	In progress (monitoring/effectiveness phase)	CI 1; CI 5; CI 12; CI 14; CI 4 (=1.1/1.2, 5.1/5.2, 14.1)	Bridge Creek WC	SWCD/WC; NRCS, landowner, private landowner	OWEB (OGMS 222-6010) - Awarded; Monitoring [Project Amount \$184,659]	remove juniper overstory + improve grass cover; ~605 / 567 ac; fence; 3 springs; improve infiltration, reduce runoff/erosion.
Alder/Lake Creek Watershed Improvement 3	This project is located in the Alder Creek watershed in central Wheeler County. Alder Creek originates in the Umatilla National Forest and flows into the John Day River between Spray and Service Creek. Lake Creek is a smaller tributary to Alder Creek. Water interest: Both · SW-Eco.	In progress	CI 1; CI 5; CI 12; CI 17; CI 15 (=1.1/1.2, 5.1/5.2, 17.2)	Mid John Day WC	SWCD/WC; landowner	OWEB (OGMS 226-6002) - Awarded; Open [Project Amount \$219,087]	remove 303 ac western juniper; remove conifers from 4 ac quaking aspen; 5,614 ft aspen-protection fence; replace 8,519 ft woven-wire fence; 90 ac noxious-weed treatment + reseed. Partner: Mid John Day WC.

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Priest Hole Restoration	This project is located on public Bureau of Land Management property in the Shaw Canyon-John Day River Watershed approximately 8.5 miles west of Twickenham, Oregon. Water interest: Both - SW-WQ-Qty-Eco.	Completed	CI 1; CI 5; CI 12; CI 15; CI 6; CI 3; CI 18 (=1.1/1.2, 5.1/5.2, 15.2, 6.x, 18.1)	Wheeler SWCD	SWCD/WC; BLM	OWEB (OGMS 222-9009) - Awarded; Complete [Project Amount \$1,338,085]	restore 50 ac riparian-wetland + 1 mi of river along the John Day Wild & Scenic River (RM 137); 3-yr phased (engineering FY23; construction FY24-25).
Priest Hole Phase III additional funds	This project is located on public Bureau of Land Management property in the Shaw Canyon-John Day River Watershed approximately 8.5 miles west of Twickenham, Oregon. Water interest: Both - SW-Qty-Eco.	Completed	CI 1; CI 5; CI 13; CI 3; CI 12; CI 15; CI 6 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 15.2, 6.x)	Wheeler SWCD	SWCD/WC; BLM	OWEB (OGMS 222-9009) - Awarded; Complete [Project Amount \$247,607]	Phase III — relocate camping facilities away from the Wild & Scenic River; restore ~50 ac river/floodplain habitat (cottonwood, shrub, native planting); irrigation/filtration to establish vegetation.
Wet Fork Hay Creek Low-Tech Process-Based Restoration	The project is located on Hay Creek, approximately 11 miles from the mouth. Hay Creek is a tributary to the John Day River and the John Day River is drains into the Columbia River. It is approximately 9 miles north of Condon in Gilliam County. Water interest: Both - SW-Qty-Eco.	In progress (monitoring/effectiveness phase)	CI 1; CI 5; CI 13; CI 3; CI 12 (=1.1/1.2, 1.3, 13.1, 5.1/5.2)	Gilliam SWCD	SWCD/WC; NRCS, ODFW	OWEB (OGMS 223-6003) - Awarded; Monitoring [Project Amount \$78,344]	Proposed (from OGMS summary): 11 miles; 9 miles
Hay Creek Riparian Fencing and Planting	The project is located on Hay Creek, approximately 11 miles from the mouth in Gilliam County, 9 miles north of Condon. Hay Creek is a tributary to the John Day River contributing to the Columbia River Basin's largest wild summer steelhead population. Water interest: Both - SW-WQ-Qty-Eco.	Early stage (funded)	CI 1; CI 5; CI 13; CI 3; CI 12; CI 18; CI 14; CI 4 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 18.1, 14.1)	Gilliam SWCD	SWCD/WC; Tribes, Confederated Tribes, Warm Springs	OWEB (OGMS 226-6010) - Awarded; Funded [Project Amount \$133,243]	Proposed (from OGMS summary): 11 miles; 9 miles; 6.6 miles; 3.9 miles
Gilliam County Consultation Assistance	The project will allow for restoration located within the Hay Creek Watershed in Gilliam County, which is a tributary to the lower John Day River. Water interest: Both - SW-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 14; CI 4 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 14.1)	Gilliam SWCD	SWCD/WC; NRCS, ODFW	OWEB (OGMS 224-6014) - Awarded; Open [Project Amount \$86,433]	Proposed (from OGMS summary): 9 miles
Tamarack-Cary Creek Watershed Improvement	This project is located in the Tamarack Creek and Cary Creek watersheds in central Wheeler County. Tamarack and Cary Creeks are tributaries to Shoofly Creek which flows to the John Day River west of Service Creek. Water interest: Both - SW-Qty-Eco.	In progress	CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=5.1/5.2, 17.2, 15.2, 14.1)	Mid John Day WC	SWCD/WC; NRCS, landowner	OWEB (OGMS 222-6020) - Awarded; Open [Project Amount \$88,040]	juniper removal + grass/shrub improvement; ~350 / 260 / 321 ac; improve infiltration, reduce runoff/erosion, lower fuel load; complements adjacent Cary Creek work.
Rowe Creek Watershed Recover for Resilience	This project is located in the Service Creek Watershed in the Twickenham area, approx. 15 miles southeast of the town of Fossil, OR. Water interest: Both - SW-Qty-Eco.	In progress	CI 1; CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=1.1/1.2, 5.1/5.2, 17.2, 15.2, 14.1)	Wheeler SWCD	SWCD/WC; NRCS, landowner	OWEB (OGMS 225-6010) - Awarded; Open [Project Amount \$189,000]	increase site-capable upland vegetation, improve soil retention/health, reduce runoff; ~40 / 116 / 48 ac; 4 springs; ~15 mi (JDBP SAP healthy-uplands goal).
Rock Creek Riparian Fencing, Planting, and Livestock Distribution	This project is located in Gilliam County on 3.2 miles of Rock Creek. The project begins on river mile 27 of Rock Creek on two landowners. This reach of Rock Creek remains one of few that have not been fenced, planted, and enrolled in the Conservation Reserve Enhancement Program (CREP). Water interest: Both - SW-Eco.	In progress	CI 1; CI 5; CI 12 (=1.1/1.2, 5.1/5.2)	Gilliam SWCD	SWCD/WC; landowner, private landowner	OWEB (OGMS 223-6022) - Awarded; Open [Project Amount \$208,279]	Proposed (from OGMS summary): 3.2 miles; 100 acres; 38,680 feet; 20,000 feet
Thirtymile Watershed Forest Management	This project is located in the Thirtymile Watershed, approximately 15 miles Northeast of Fossil, OR in Wheeler County. Thirtymile Creek is one of the three highest priority areas in the Atlas Prioritization ranking (John Day Basin Partnership, 2018). Water interest: Both - SW-Qty-Eco.	In progress (monitoring/effectiveness phase)	CI 1; CI 5; CI 12; CI 17; CI 15; CI 14; CI 4 (=1.1/1.2, 5.1/5.2, 17.2, 15.2, 14.1)	Wheeler SWCD	SWCD/WC; NRCS, landowner	OWEB (OGMS 224-6004) - Awarded; Monitoring [Project Amount \$321,948]	Proposed (per application, LJDCRI/RCPP): forest stand improvement, brush management, spring developments, firebreaks — ~338 / 330 / 233 ac treatments; 4,496 ft fence; 1 spring; reduces sediment, improves WQ/quantity & habitat.
Lower Thirtymile Restoration Implementation Phase 2	This project is located on Thirtymile Creek, a tributary to the John Day River, from RM 0 to RM 10. Limiting factors include riparian vegetation, side channel and wetland conditions, floodplain connection, instream structural complexity, and temperature. Water interest: Both - SW-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 17; CI 15 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 17.2)	Gilliam SWCD	SWCD/WC; BLM, ODFW	OWEB (OGMS 222-9009) - Awarded; Open [Project Amount \$297,607]	Proposed scope per OGMS summary (no discrete metric in summary)
Lower Thirtymile Restoration Design and Implementation Phase 1	This project is located on Thirtymile Creek, a tributary to the John Day River, from RM 0 to RM 10. Limiting factors include riparian vegetation, side channel and wetland conditions, floodplain connection, instream structural complexity, and temperature. Water interest: Both - SW-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 17; CI 15 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 17.2)	Gilliam SWCD	SWCD/WC; BLM, ODFW	OWEB (OGMS 222-9009) - Awarded; Open [Project Amount \$246,085]	Proposed scope per OGMS summary (no discrete metric in summary)

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Comstock Basin Riparian Fencing, Planting, and Livestock Distribution	This project is located in Gilliam County on 1.9 miles of Thirtymile Creek and 1,870 acres of pasture. The project begins on river mile 30 of Thirtymile Creek. Water interest: Both - SW-Eco.	In progress	CI 1; CI 5; CI 12 (=1.1/1.2, 5.1/5.2)	Gilliam SWCD	SWCD/WC; NRCS, landowner, private landowner	OWEB (OGMS 224-6029) - Awarded; Open [Project Amount \$172,135]	Proposed (from OGMS summary): 1.9 miles; 1,870 acres; 95 acres; 20,300 feet; 11,500 feet; 5,500 feet
Middle Thirtymile LTPBR	The Middle Thirtymile Creek Low-Tech, Process-Based Restoration (LTPBR) project is located on Thirtymile Creek, a tributary of the John Day River, which ultimately drains into the Columbia River. Water interest: Both - SW-WQ-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 18; CI 14; CI 4 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 18.1, 14.1)	Gilliam SWCD	SWCD/WC; NRCS, ODFW, Tribes, Confederated Tribes, Warm Springs	OWEB (OGMS 224-8208, JDBP FIP) - Awarded; Open [Project Amount \$123,669]	Proposed (from OGMS summary): 6 miles; 12 miles
Big Mossy Riparian Fencing, Planting, and Livestock Distribution	Location: East Fork of Thirtymile Creek on the 17,342-acre Big Mossy Property in Gilliam County, the largest private landowner managing 8.26% of the Thirtymile Watershed. Water interest: Both - SW-WQ-Qty-Eco.	Early stage (funded)	CI 1; CI 5; CI 13; CI 3; CI 12 (=1.1/1.2, 1.3, 13.1, 5.1/5.2)	Gilliam SWCD	SWCD/WC; NRCS, landowner, private landowner	OWEB (OGMS 226-6009) - Awarded; Funded [Project Amount \$260,364]	Proposed (from OGMS summary): 5.84 miles; 1.31 miles; 4.27 miles; 57 miles; 44 acres; 2.0 miles
Upper Thirtymile Low-Tech Process-Based Restoration Phase 2	The project is located on Upper Thirtymile Creek, approximately 17 miles from its confluence with the John Day River and 5 miles south of Condon in Gilliam County, Oregon. Water interest: Instream - SW-Qty-Eco.	Early stage (funded)	CI 1; CI 13; CI 3 (=1.3, 13.1)	Gilliam SWCD	SWCD/WC; NRCS, RCPP, ODFW	OWEB (OGMS 226-6013) - Awarded; Funded [Project Amount \$138,952]	Proposed (from OGMS summary): 17 miles; 5 miles; 3,064 linear feet; 2.86 miles; 1 structures; 2,063 feet
Thirtymile Monitoring Phase 4	1. This project is located in the Thirtymile Creek watershed in the lower John Day Basin in Gilliam County near Condon, Oregon. 2. Thirtymile Creek is a perennial stream with ephemeral reaches that go dry in the summer months interspersed amongst sections that are wetted year-round. Water interest: Both - SW-WQ-Qty-Eco.	In progress	CI 1; CI 13; CI 3; CI 15; CI 2; CI 14; CI 4 (=1.3, 13.1, 15.2, 2.3, 14.1)	Gilliam SWCD	SWCD/WC	OWEB (OGMS 224-8208, JDBP FIP) - Awarded; Open [Project Amount \$227,666]	Proposed scope per OGMS summary (no discrete metric in summary)
2024-2026 Thirtymile Phase III	1. This project is located in the Thirtymile Creek watershed in the lower John Day Basin in Gilliam County near Condon, Oregon. 2. Thirtymile Creek is a perennial stream with ephemeral reaches that go dry in the summer months interspersed amongst sections that are wetted year-round. Water interest: Both - SW-WQ-Qty-Eco.	In progress	CI 1; CI 13; CI 3; CI 15; CI 2; CI 14; CI 4 (=1.3, 13.1, 15.2, 2.3, 14.1)	Gilliam SWCD	SWCD/WC	OWEB (OGMS 224-8208, JDBP FIP) - Awarded; Open [Project Amount \$251,192]	Proposed scope per OGMS summary (no discrete metric in summary)
Lower Thirtymile Restoration Design	This project is located on Thirtymile Creek, a tributary to the John Day River, from RM 0 to RM 10. Limiting factors include riparian vegetation, side channel and wetland conditions, floodplain connection, instream structural complexity, and temperature. Water interest: Both - SW-Qty-Eco.	In progress	CI 1; CI 5; CI 13; CI 3; CI 12; CI 17; CI 15 (=1.1/1.2, 1.3, 13.1, 5.1/5.2, 17.2)	Gilliam SWCD	SWCD/WC; BLM, ODFW	OWEB (OGMS 224-8208, JDBP FIP) - Awarded; Open [Project Amount \$72,916]	Proposed scope per OGMS summary (no discrete metric in summary)
Kinzua Culvert Habitat Design and Permits	The project located along Thirtymile Creek, approximately 9 miles southeast of the town of Fossil in Wheeler County. 2) The existing culvert has a skewed entrance relative to the upstream channel and has two associated jump barriers downstream. Water interest: Both - SW-Qty-Eco.	In progress	CI 10; CI 6; CI 3 (=10.1, 6.x)	Wheeler SWCD	SWCD/WC; BPA, ODFW, landowner	OWEB (OGMS 224-8208, JDBP FIP) - Awarded; Open [Project Amount \$46,684]	Proposed (from OGMS summary): 9 miles; 30 feet; 3.11 stream miles
OWEB Small Grants — Off-channel / upland water development (7 grants)	Generalized category of 7 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Out-of-stream.	In progress / completed (mixed)	CI 1, 14	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$94,460]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)
OWEB Small Grants — Juniper / upland vegetation (5 grants)	Generalized category of 5 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Both.	In progress / completed (mixed)	CI 17, 5, 12	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$75,456]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)
OWEB Small Grants — Virtual fencing (grazing distribution) (2 grants)	Generalized category of 2 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Both.	In progress / completed (mixed)	CI 1, 5, 15	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$32,830]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)
OWEB Small Grants — Private road sediment reduction (2 grants)	Generalized category of 2 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Both.	In progress / completed (mixed)	CI 18, 1	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$30,000]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)

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OWEB Small Grants — Grazing-management fencing (2 grants)	Generalized category of 2 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Both.	In progress / completed (mixed)	CI 1, 18	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$25,596]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)
OWEB Small Grants — Ag water-quality / riparian (1 grants)	Generalized category of 1 OWEB Small Grant Program projects (≤\$20K each, 25% match, on-the-ground restoration on private land) in Gilliam/Wheeler. Water interest: Both.	In progress / completed (mixed)	CI 1, 18	Gilliam/Wheeler SWCD	SWCD/WC; private landowners	OWEB Small Grants - Awarded [Project Amount \$14,843]	Proposed/varied by grant (spring developments, juniper cuts, cross-fences, road sediment, VF)
Gilliam County Virtual Fencing — Countywide Coverage Expansion (Gilliam County Capital Investment)	Countywide virtual-fencing coverage infrastructure (towers/antennas/solar) for the Upper Rock Creek program (~7 landowners); regional pilot (Gilliam-Morrow-Wheeler); brings fallow fields + under-used acres into seasonal rotation; post-Lonerock grazing recovery (300+ mi fence lost). Water interest: Out-of-stream (strong) · Qty · Eco.	Awarded; towers deployed & operational	CI 1, 5, 12, 15 (=1.1, 5.2, 12.1, 15.1)	Gilliam SWCD	Sustainable NW; Ford Family Foundation; producers	Gilliam County Capital \$94,750 – Secured/Awarded; Ford Family \$25,000 – Pending; OWEB Small Grants \$30,000 – Pending; Gilliam SWCD \$29,760 – Secured (total project \$179,510).	Countywide VF infrastructure; ~7 landowners; managed grazing for post-fire rangeland recovery
Thirtymile Watershed Beaver Recovery & Resiliency Program (ODFW OCRF, Spring 2025)	Beaver occupancy & habitat assessment and recovery across Thirtymile Creek (mainstem + 7 tributaries); BOIFA/BPR/FPI/BRAT/HAND methods; landowner engagement; Beaver Strongholds Workplan = next phase. Lead contractor Western Beavers Cooperative. Water interest: Instream (strong) · SW · Qty · WQ · Eco.	Awarded; ~90% complete	CI 1, 2, 3, 4, 5, 13, 14, 18 (=1.3, 13.1, 14.1)	Gilliam SWCD	Western Beavers Cooperative; ODFW (in-kind); BLM; 35 private landowners	ODFW OCRF \$73,822 – Secured; total project \$85,469 (secured match \$11,647 in-kind/supplies)	PRELIMINARY (draft assessment, not ODFW-final): ~83 stream mi surveyed → 333 reaches → 53 clusters; ~64 mi geomorphic potential; ~52 mi surface water; ~3.5 mi sufficient forage; beaver at 8-9 settlement sites with reproductive occupancy CONFIRMED; 14 reaches active
Lonerock Wildfire Mitigation Project (FEMA HMGP — fuels reduction)	Post-Lonerock fuels reduction across Upper Rock Creek: mechanical juniper, chemical invasive-grass treatment, biomass removal, and VF-managed strategic grazing; 36-month POP. Water interest: Out-of-stream / upland · Qty · WQ · Eco.	Applying	CI 15, 17, 5, 1, 12 (=15.2, 17.2, 5.2)	Gilliam SWCD	ODF; FEMA; County EM; OWEB (match)	FEMA HMGP 75% \$1,374,750 – Applying; OWEB match 25% \$458,250 – Pending (total \$1,833,000)	Proposed: juniper 2,215 ac; invasive grass 1,000 ac; biomass 301 ac; VF-managed grazing 50,000 ac
Wildfire Resource Planning, Upper Rock Creek Watershed (FEMA HMGP — planning)	Wildfire-vulnerability assessment over Upper Rock Creek (50,737 ac); landowner interviews, GIS mapping, water-resource inventory, conceptual above-ground water-storage designs, and ODF/FEMA/County EM/fire coordination; scalable methodology. Water interest: Out-of-stream · Qty (suppression storage).	Applying	CI 15, 4, 14 (=15.2, 4.1, 14.1)	Gilliam SWCD	ODF; FEMA; County EM	FEMA HMGP 75% \$147,000 – Applying; match 25% \$49,000 – Pending (total \$196,000)	Proposed: vulnerability assessment 50,737 ac; ~20 landowner interviews; 20 conceptual above-ground water-storage designs
JDBP Post-Fire Planning (OWEB 225-8015-24185, admin. Monument SWCD) — LJD slice	LJD partners' post-fire recovery work within the basin-wide JDBP grant: convene post-fire recovery working group; AGOL GIS fire-recovery prioritization toolkit; landowner outreach; update JDBP Uplands Prioritization; Gilliam-led Lonerock VF pilot: TA across Lonerock, Shoefly, and Fossil/Service fire scars. Water interest: Out-of-stream / upland · WQ · Eco.	Funded / Open	CI 15, 17, 5, 1, 18 (=15.2, 1.1)	Gilliam SWCD; Wheeler SWCD; GEJD WC; Mid JD WC	Monument SWCD (fiscal admin only)	OWEB 225-8015-24185 – Secured/Funded; LJD-attributable slice ~\$281,750 of \$679,093 basin-wide grant	Proposed: post-fire recovery working group; GIS prioritization toolkit; Lonerock VF pilot; TA across 3 LJD fire scars

KEY	
Abbreviations	
SWCD	Soil and Water Conservation District
WC	Watershed Council
OWEB	Oregon Watershed Enhancement Board
OGMS	OWEB Grant Management System
FIP	OWEB Focused Investment Partnership
ARPA	American Rescue Plan Act
JDBP	John Day Basin Partnership
FEMA	Federal Emergency Management Agency
HMGP	Hazard Mitigation Grant Program (FEMA)
OCRF	Oregon Conservation & Recreation Fund (ODFW)
ODFW	Oregon Department of Fish and Wildlife
NRCS	Natural Resources Conservation Service (USDA)
BLM	Bureau of Land Management
ONDA	Oregon Natural Desert Association
TA	Technical Assistance

Certification

I certify that this application is a true and accurate representation of the proposed work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant and Co-Applicant (if applicable) certify that they are aware of the requirements of an Oregon Water Resources Department Funding award, have read and are aware of conditions within the [example grant agreement](#) and are prepared to implement the proposal, if awarded.

Applicant/Authorized Person

First Name*

Herb

Last Name*

Winters

Role or Title*

District Manager

Date*

07/01/2026

Applicant/Authorized Person Signature*

Herb Winters