

Water Project Grants and Loans 2016 Funding Cycle



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Overview

- Background
- Overview of 2016 Funding Cycle
- Technical Review Team (TRT) Process
- TRT Project Ranking
- Summary of Recommended Projects
- Next Steps
- Staff Recommendation



OWRD Vision and Mission

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

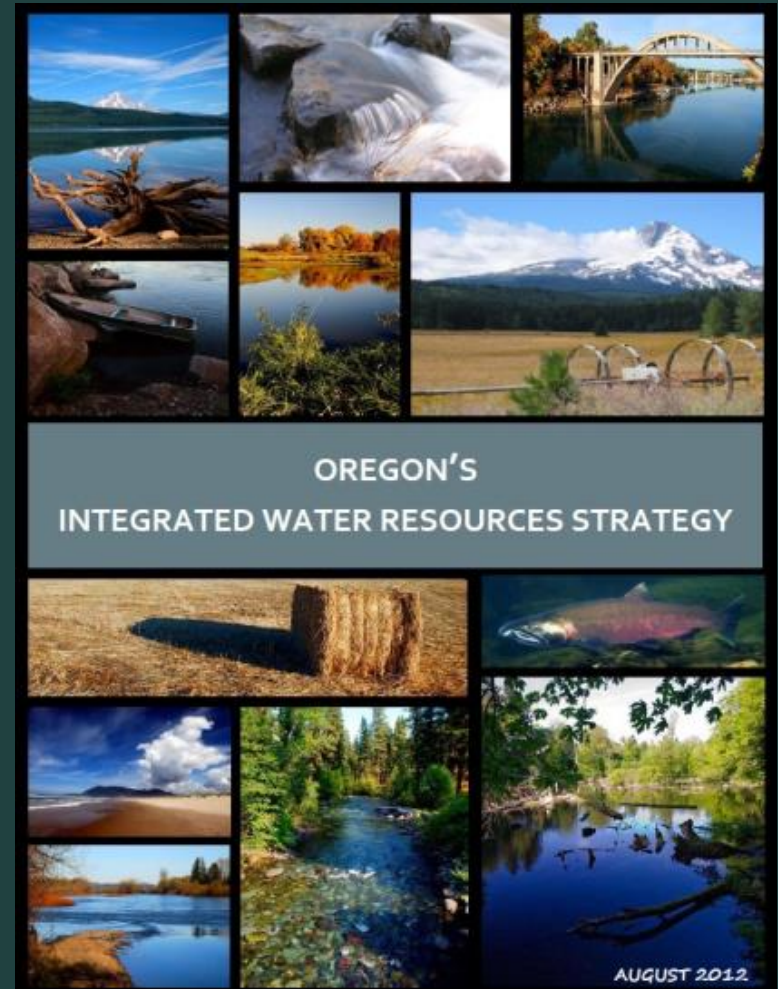
Mission: Serve the public by practicing and promoting responsible water management through two key goals:

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

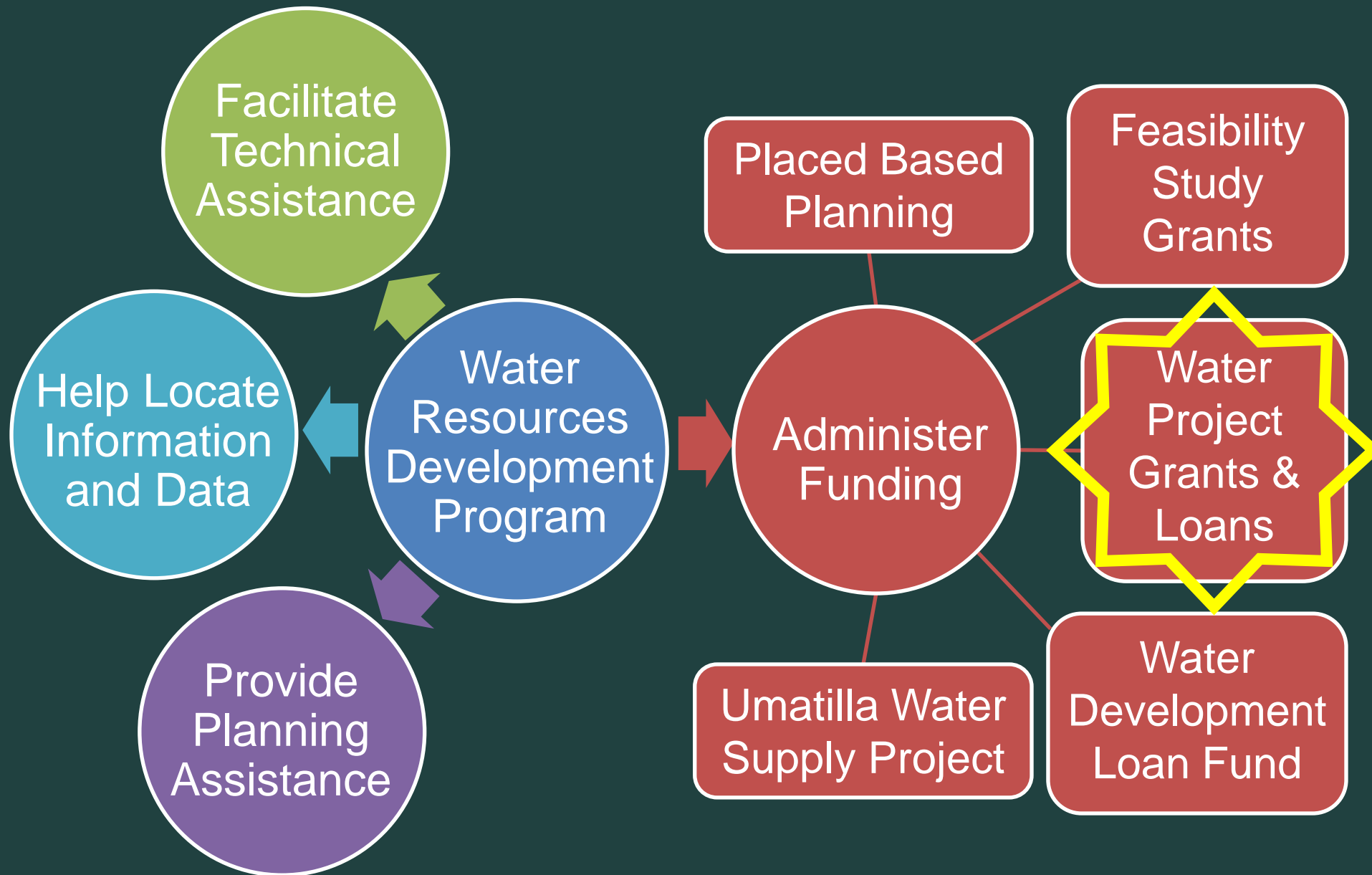
Integrated Water Resources Strategy

The IWRS provides a roadmap to help the state better understand and meet its instream and out-of-stream water needs.

**Recommended Action 10E:
Authorize and fund a Water
Supply Development
Program**



Water Resources Development Program





Water Project Grants & Loans

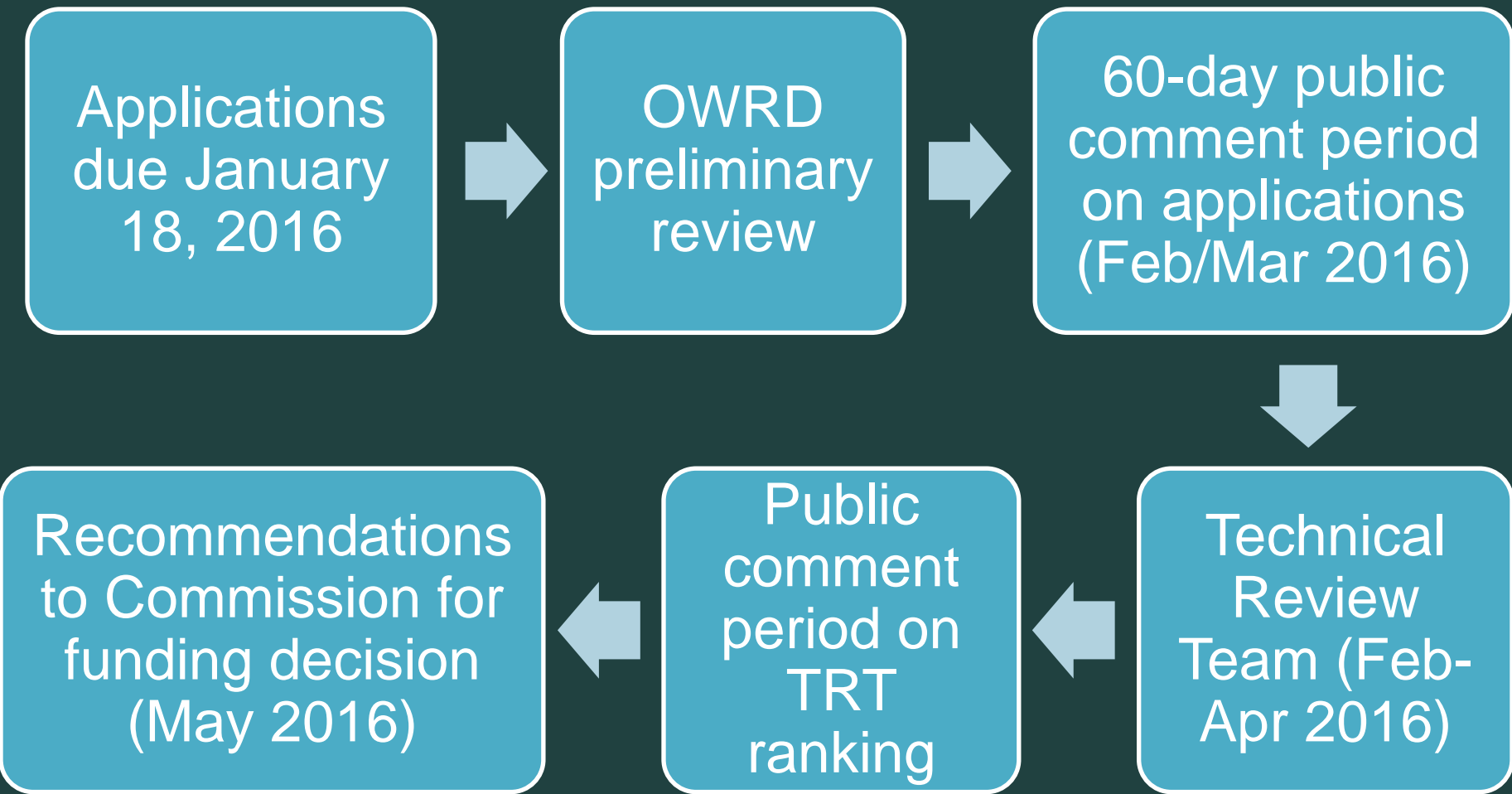
Purpose: Support the development of water resource projects having economic, environmental, and social/cultural benefits

2015-2017 Available Funding: \$14 million for grants and loans





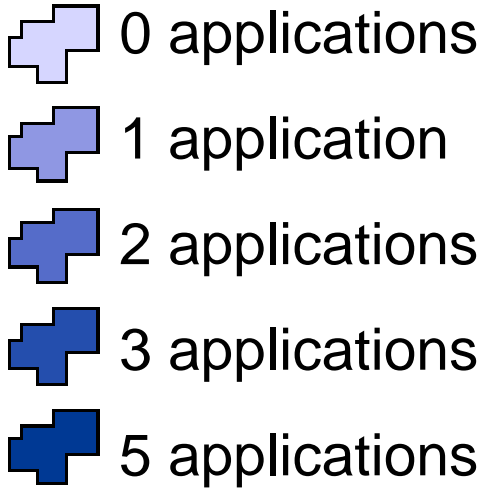
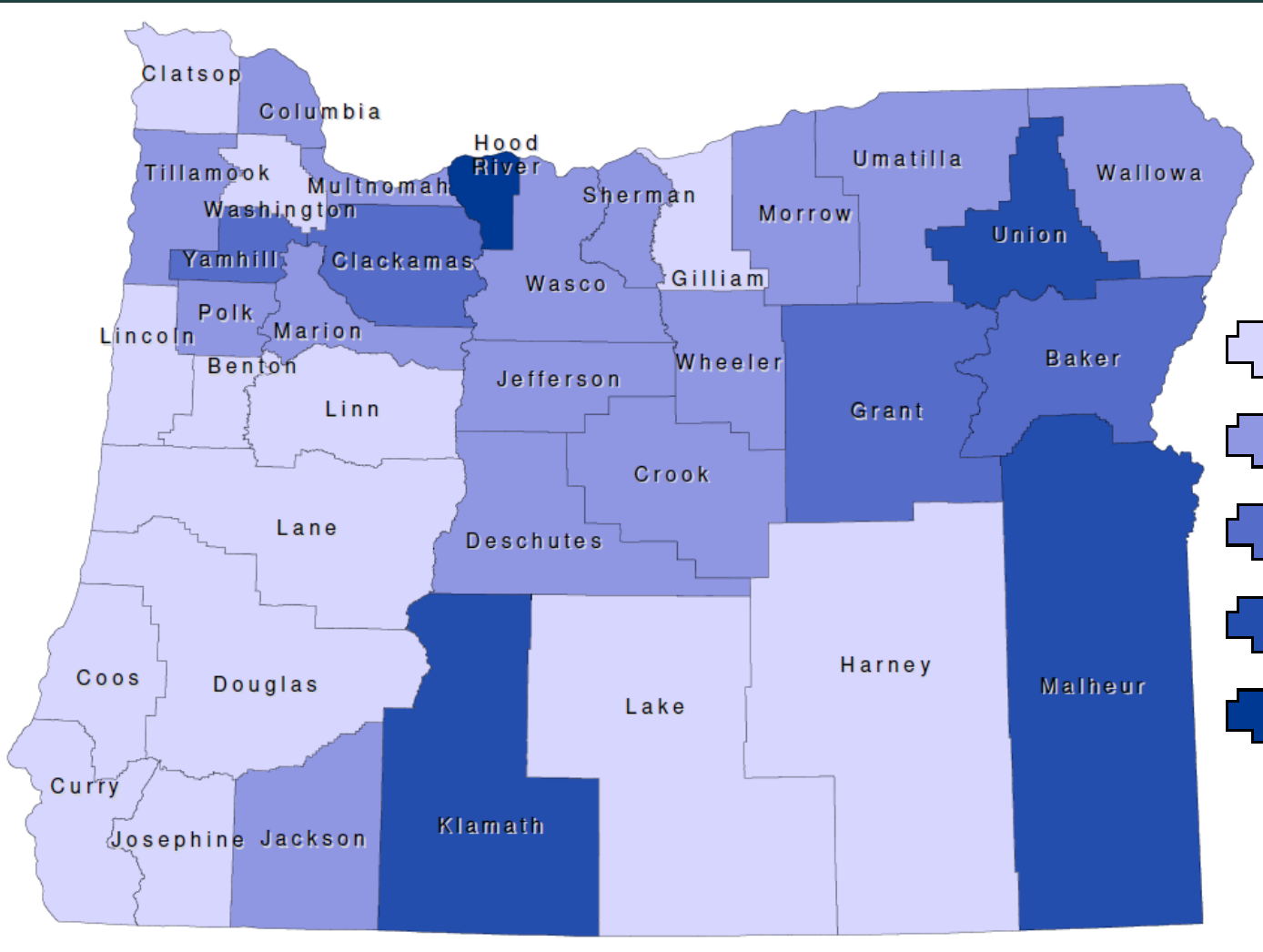
2016 Funding Cycle Overview





2016 Applications Received

37 applications received requesting nearly \$51 million





Public Comment on Applications

- **Public Comment Period:** January 28, 2016 through March 30, 2016 (60 days)
- **Opportunity:** Comment on applications received
- **Comments:** 57 comments received, referencing 30 of the 37 applications



Technical Review Team (TRT)



TRT

Responsibilities

- Score applications
- Consider public comments on applications
- Rank projects based on greatest public benefit



Scoring Public Benefits – Economic

Increases efficiency or innovation



Enhance infrastructure



Enhance value of tourism, fishing, recreation



Increases economic activity



Job Creation
Just Ahead

Creates or retains jobs



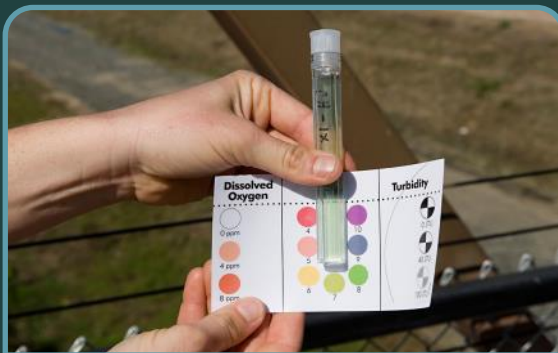
Increase irrigated agriculture



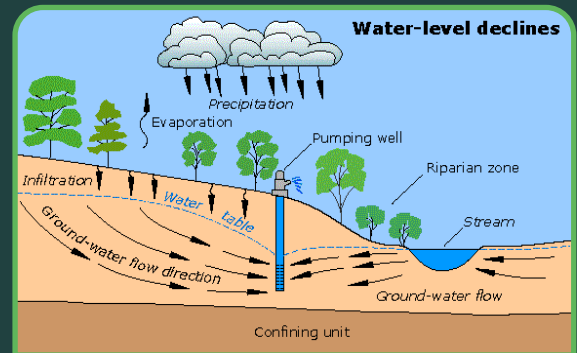
Scoring Public Benefits – Environmental



Measurable improvement in streamflow



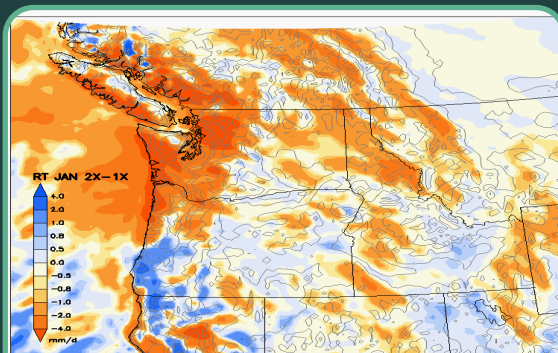
Measurable improvement in water quality



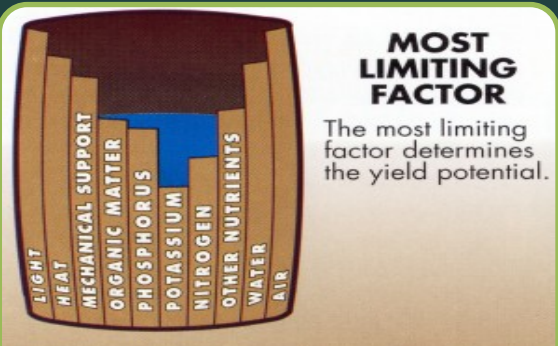
Measurable improvement in groundwater levels



Water conservation



Increased resiliency to climate change



Address ecological limiting factors



Scoring Public Benefits – Social/Cultural



Promotes public health and safety and local food systems



Improves conditions for minority, low income, tribal, or economically distressed rural communities



Promotes recreation and scenic values



Contributes to body of scientific data publically available



Promotes state or local priorities (e.g., restoration of native fish species of cultural significance to tribes)



Promotes collaborative basin planning efforts



Overview of TRT Ranking Process

TRT members scored all 37 applications

TRT group discussion of each project's public benefits

TRT determined final ranking (*Attachment 3*)

Ranking posted for public comment



Public Comments on TRT Ranking

- **Public Comment Period:** April 15, 2016 through April 29, 2016
- **Opportunity:** Comment on the TRT ranking of projects
- **Comments Received:** 63 comments, referencing 30 of the 37 applications



Funding Recommendation

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



Lostine River Conservation Project

Rank	Applicant	Recommendation
1	The Freshwater Trust	\$1,488,718

- **Project Type:** Conservation
- **Goal:** Improve water use efficiency, increase agricultural production, and enhance instream flows in the Lostine River
- **Public Benefit:** Strong economic, strong environmental, and strong social/cultural benefit



Lostine River Conservation Project





Tumalo Feed Canal Conservation Phase 5

Rank	Applicant	Recommendation
2	Tumalo Irrigation District	\$1,299,968

- **Project Type:** Conservation
- **Goal:** Conserve water and increase instream flows in Tumalo Creek and the Deschutes River
- **Public Benefit:** Strong economic, strong environmental, and strong social/cultural benefit

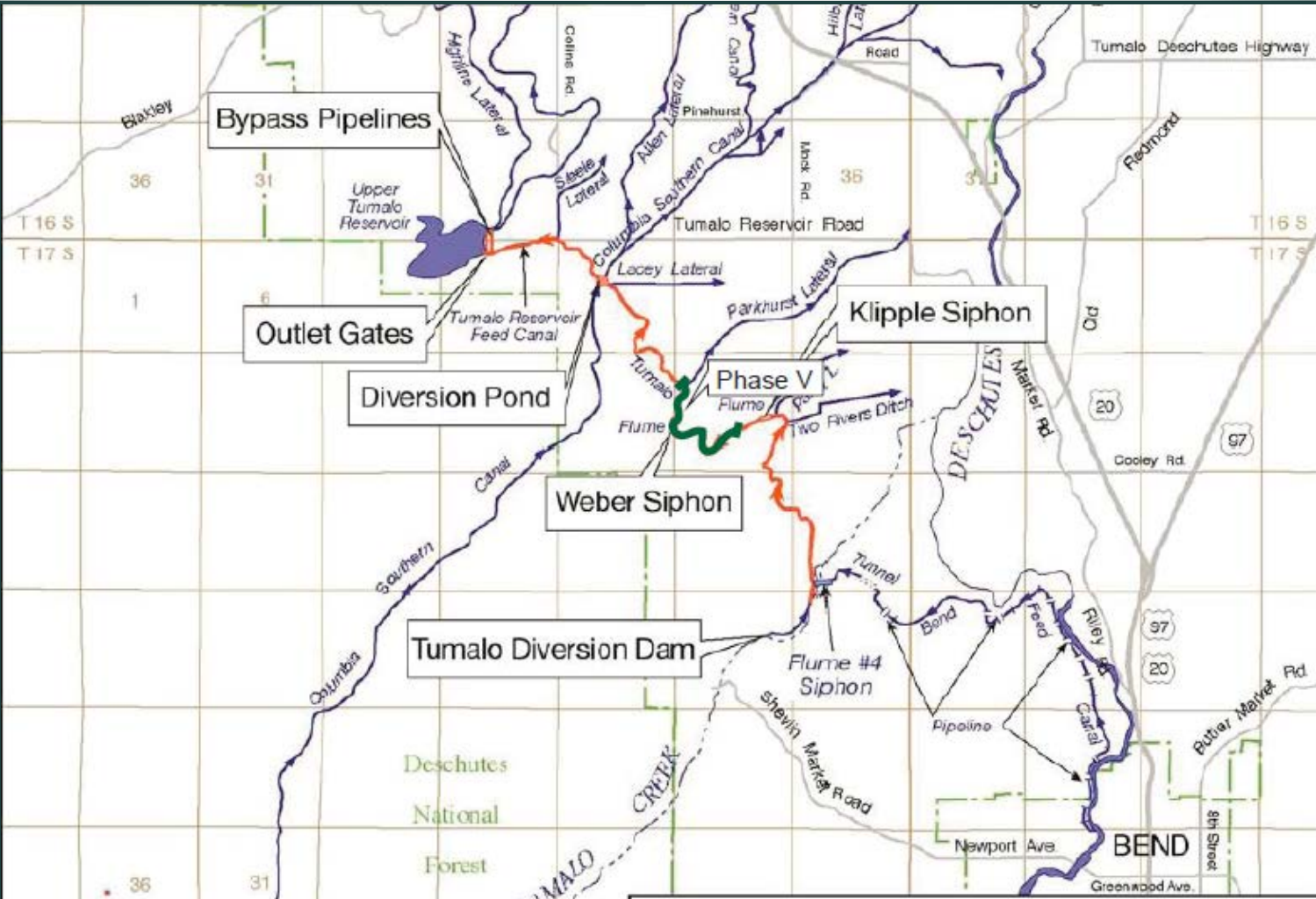


Tumalo Feed Canal Conservation Phase 5





Tumalo Feed Canal Conservation Phase 5



KEY:

— Project Area

0 1
mile



Highline Canal Pipeline

Rank	Applicant	Recommendation
3	East Fork Irrigation District	\$566,299

- **Project Type:** Conservation
- **Goal:** Improve instream flows and water quality on the East Fork Hood River, increase district operational efficiency, and improve irrigation water reliability
- **Public Benefit:** Moderate economic, strong environmental, and moderate social/cultural benefit

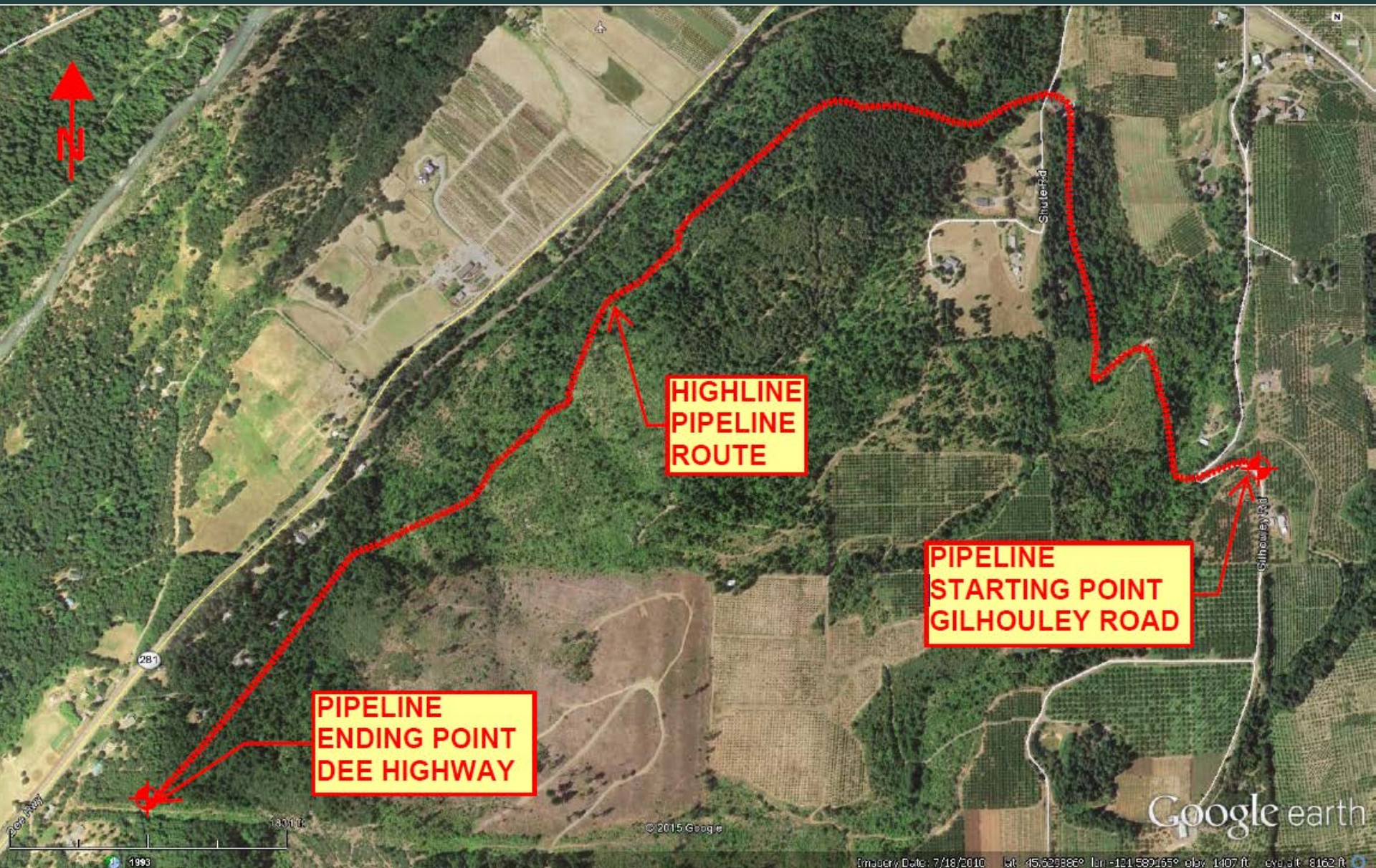


Highline Canal Pipeline





Highline Canal Pipeline



**HIGHLINE
PIPELINE
ROUTE**

**PIPELINE
STARTING POINT
GILHOULEY ROAD**

**PIPELINE
ENDING POINT
DEE HIGHWAY**

Google earth



Willow Creek Piping Irrigation Laterals

Rank	Applicant	Recommendation
4	Malheur Watershed Council	\$500,355

- **Project Type:** Conservation
- **Goal:** Prevent water loss from seepage and evaporation, address water quality and bull trout habitat concerns, and provide economic benefit
- **Public Benefit:** Strong economic, moderate environmental, and strong social/cultural benefit

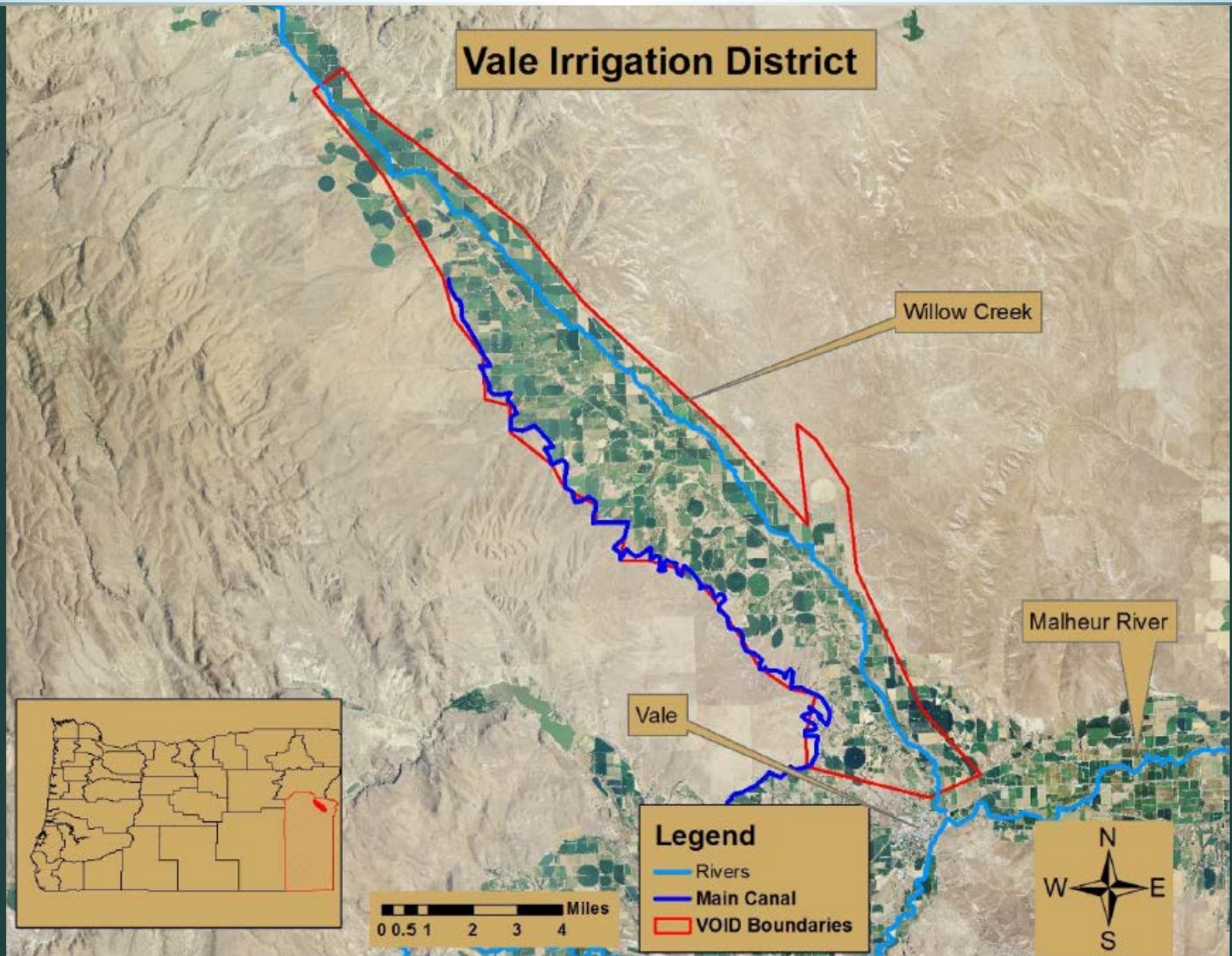


Willow Creek Piping



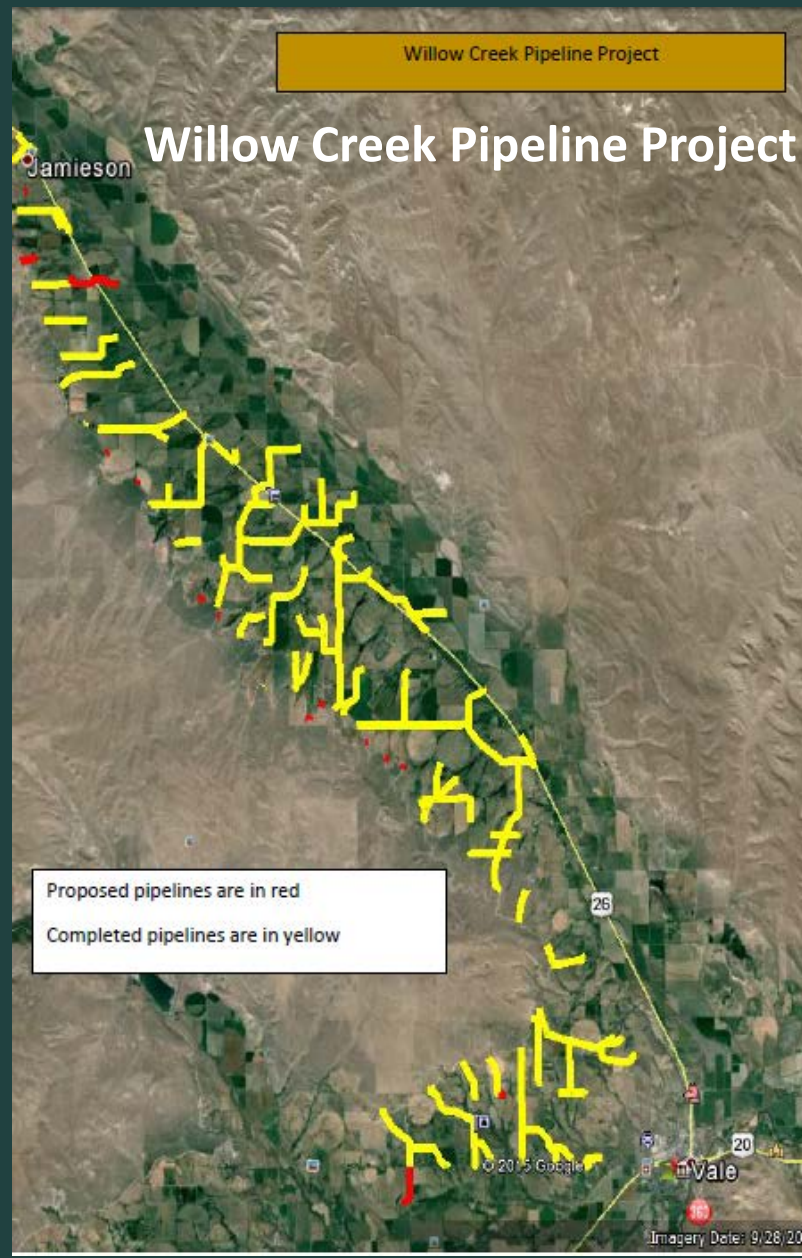


Willow Creek Piping





Willow Creek Piping





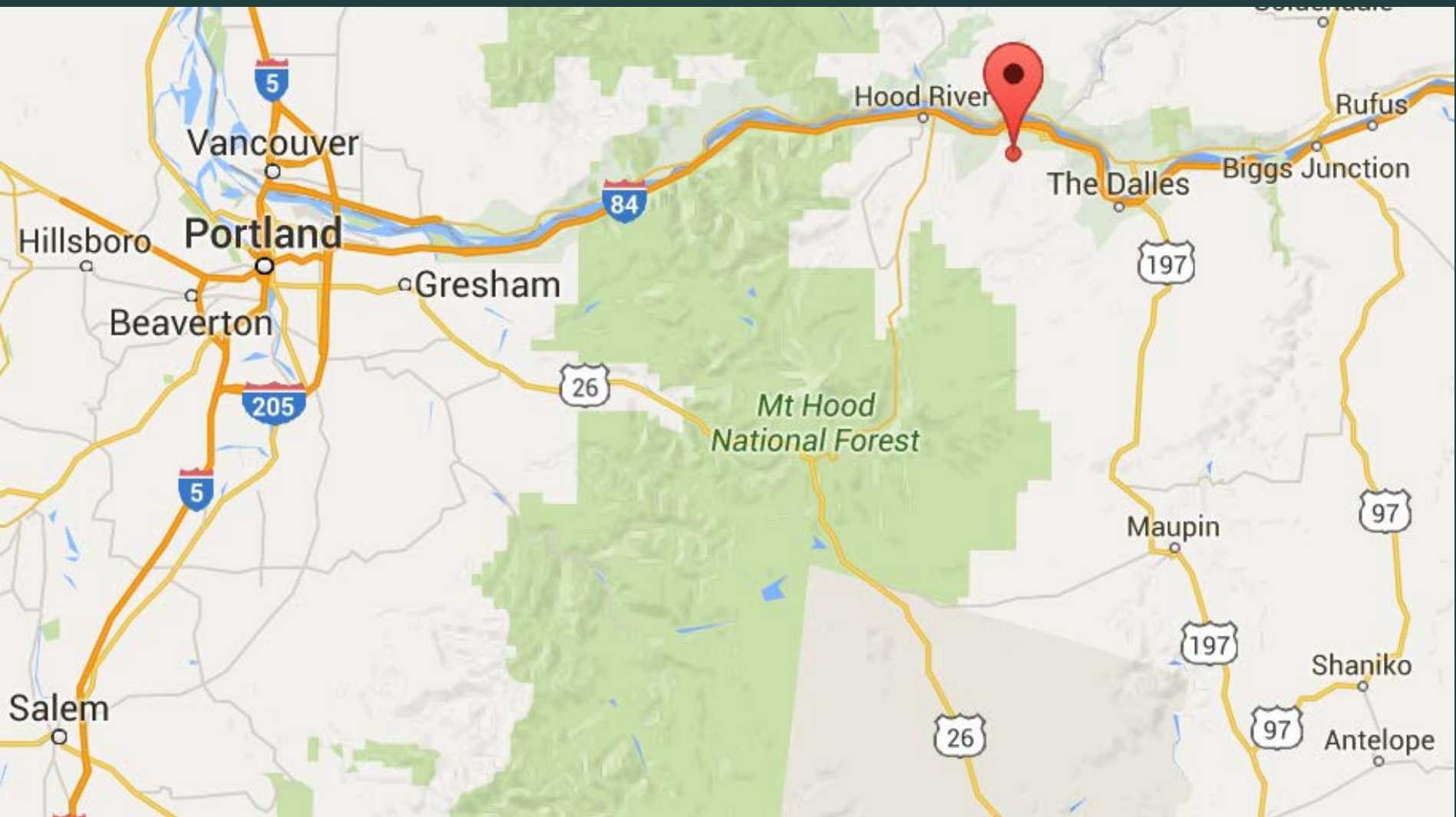
Mosier Deep Water Supply Well

Rank	Applicant	Recommendation
5	Wasco County SWCD	\$917,238

- **Project Type:** New Groundwater Supply Development
- **Goal:** Reduce demand on upper aquifer near Mosier to improve long-term groundwater supply availability and streamflows in Mosier Creek
- **Public Benefit:** Moderate economic, moderate, and strong social/cultural benefit

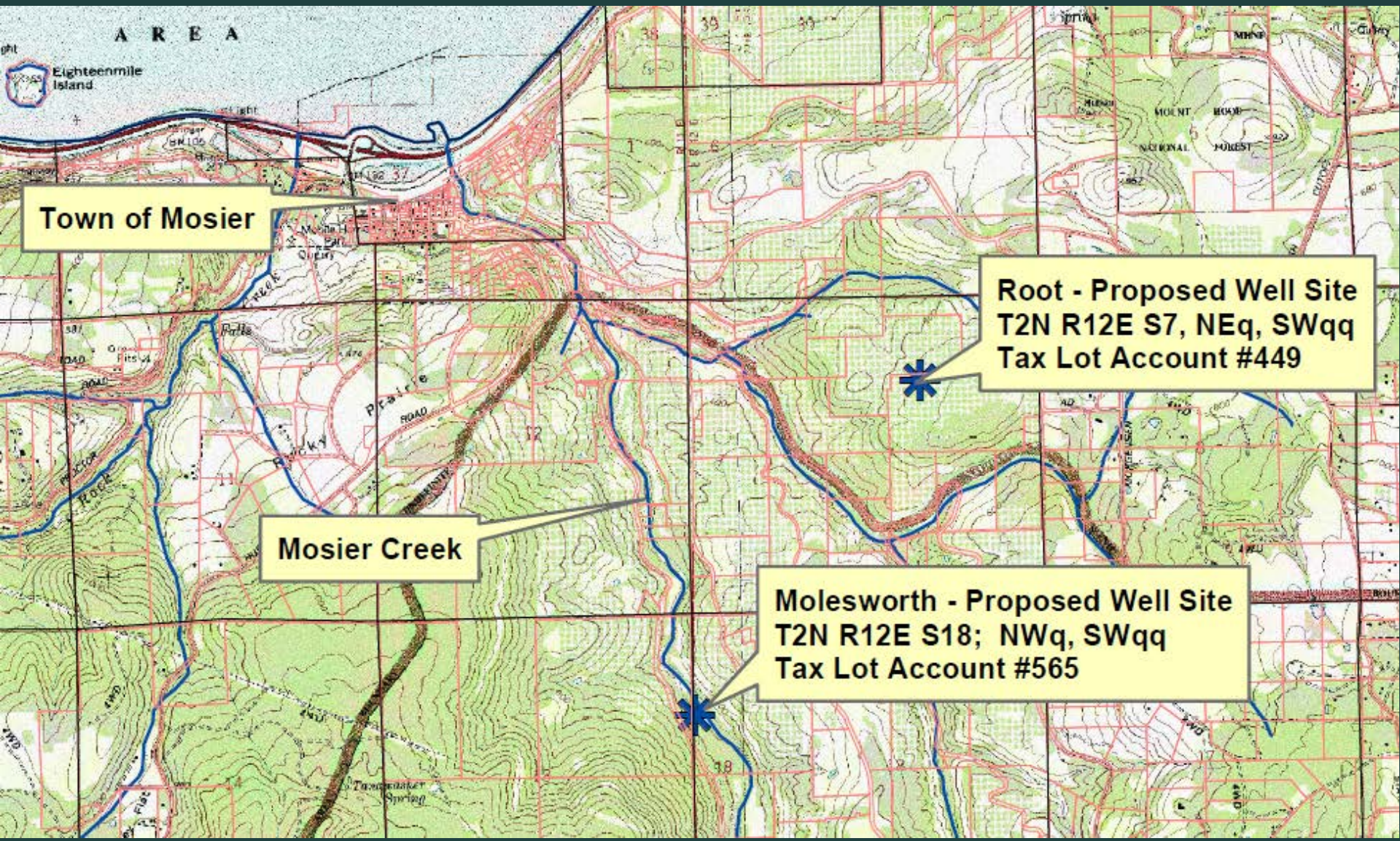


Mosier Deep Water Supply Well





Mosier Deep Water Supply Well



Town of Mosier

Mosier Creek

**Root - Proposed Well Site
T2N R12E S7, NEq, SWqq
Tax Lot Account #449**

**Molesworth - Proposed Well Site
T2N R12E S18; NWq, SWqq
Tax Lot Account #565**



Beaver Creek Dam Fish Passage

Rank	Applicant	Recommendation
6	City of La Grande	\$600,000

- **Project Type:** Municipal Water Supply
- **Goal:** Maintain the ability to use the reservoir by making improvements to the dam.
- **Public Benefit:** Moderate economic, moderate environmental, and strong social/cultural benefit



Beaver Creek Dam





Beaver Creek Dam





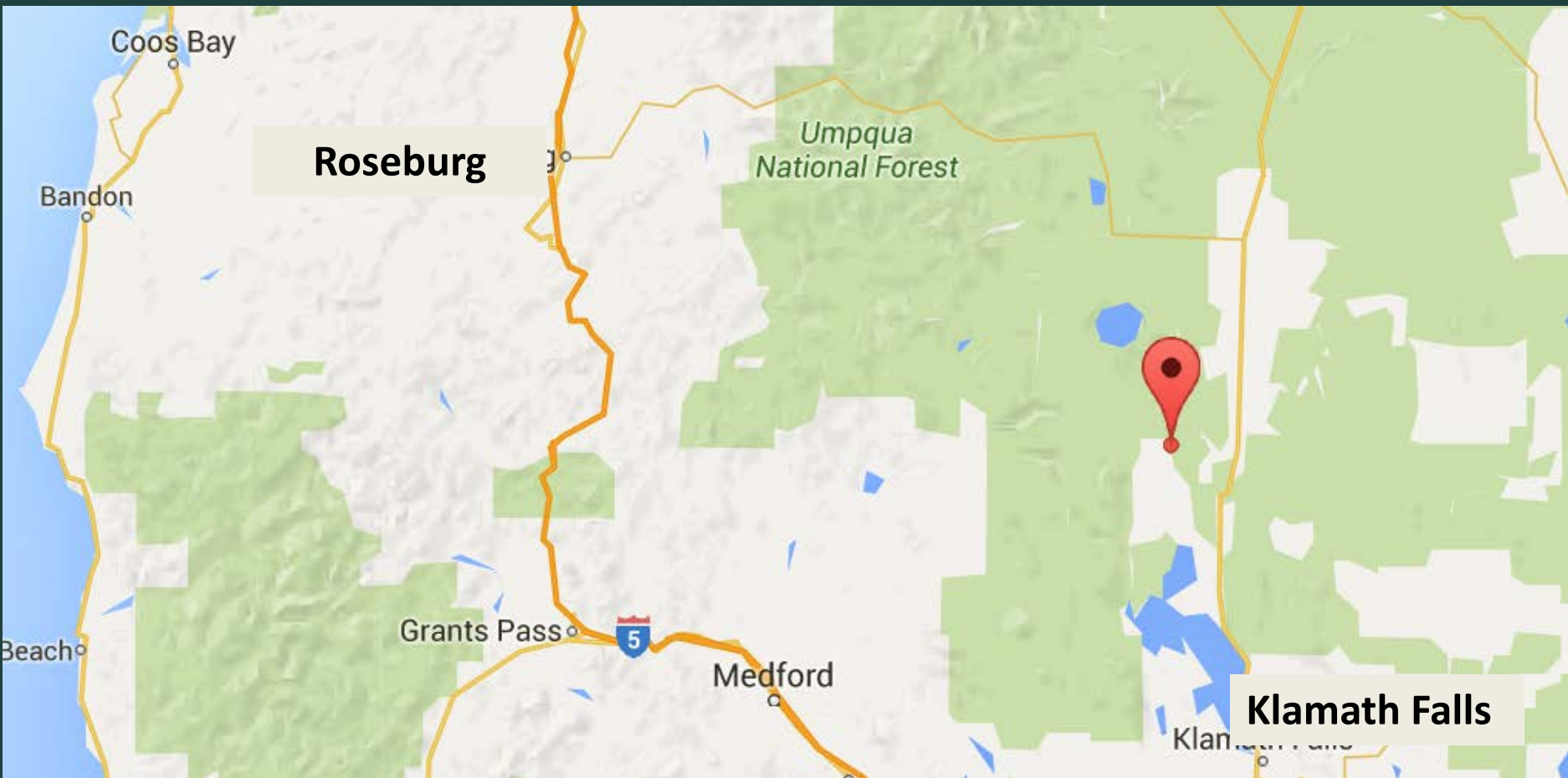
Sun Creek Restoration

Rank	Applicant	Recommendation
7	Trout Unlimited	\$249,867

- **Project Type:** Flow Restoration
- **Goal:** Increase instream flows in Sun Creek
- **Public Benefit:** Low economic, strong environmental, and strong social/cultural benefit

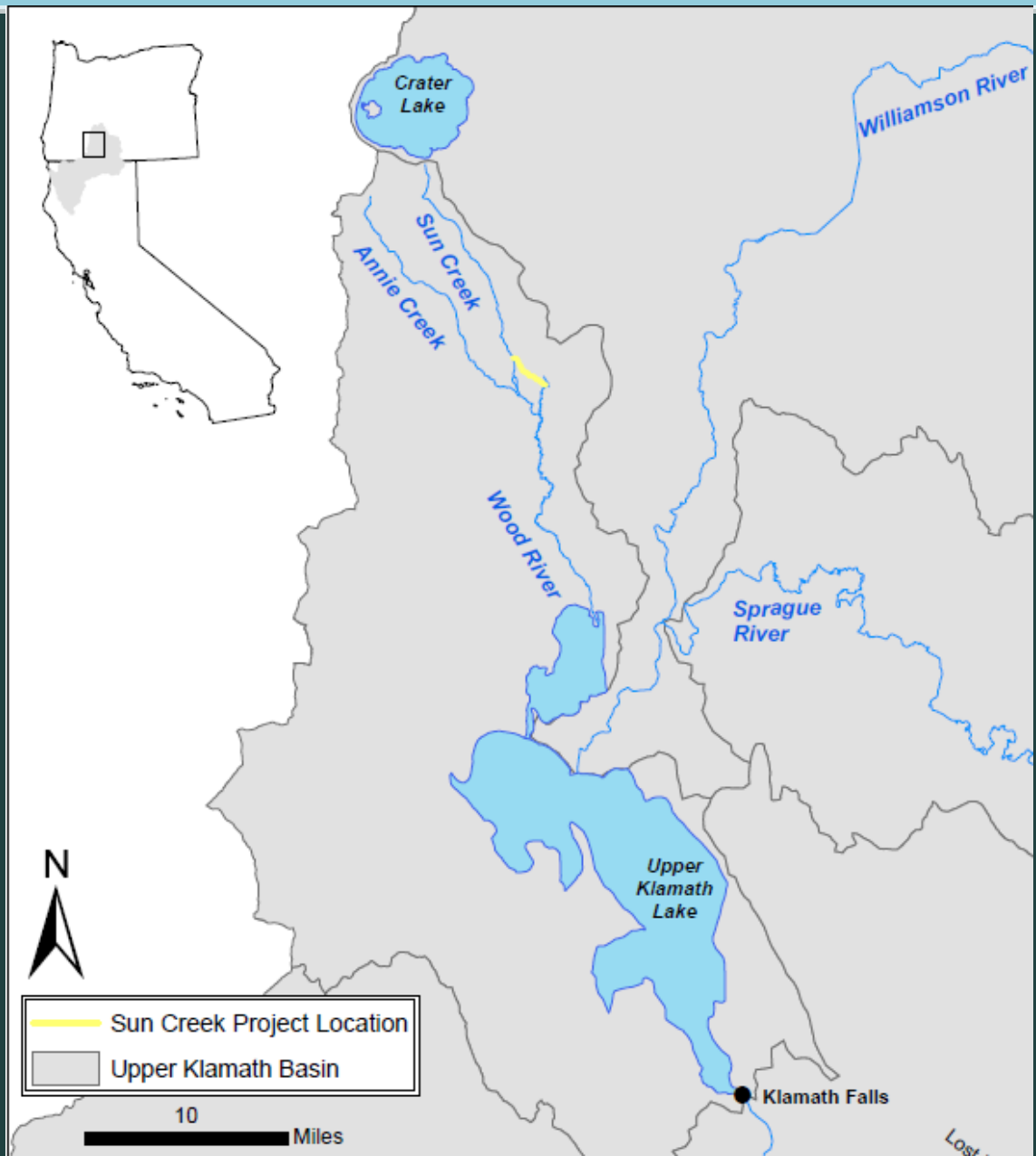


Sun Creek Restoration





Sun Creek Restoration





Sun Creek Restoration





Klamath East Side Water Recycling

Rank	Applicant	Recommendation
8	Klamath Drainage District	\$268,673

- **Project Type:** Drainage Water Reuse
- **Goal:** Reuse drainage water to meet irrigation needs
- **Public Benefit:** Strong economic, strong environmental, and strong social/cultural benefit



Klamath East Side Water Recycling





Kingsley Reservoir and Lowline Pipeline

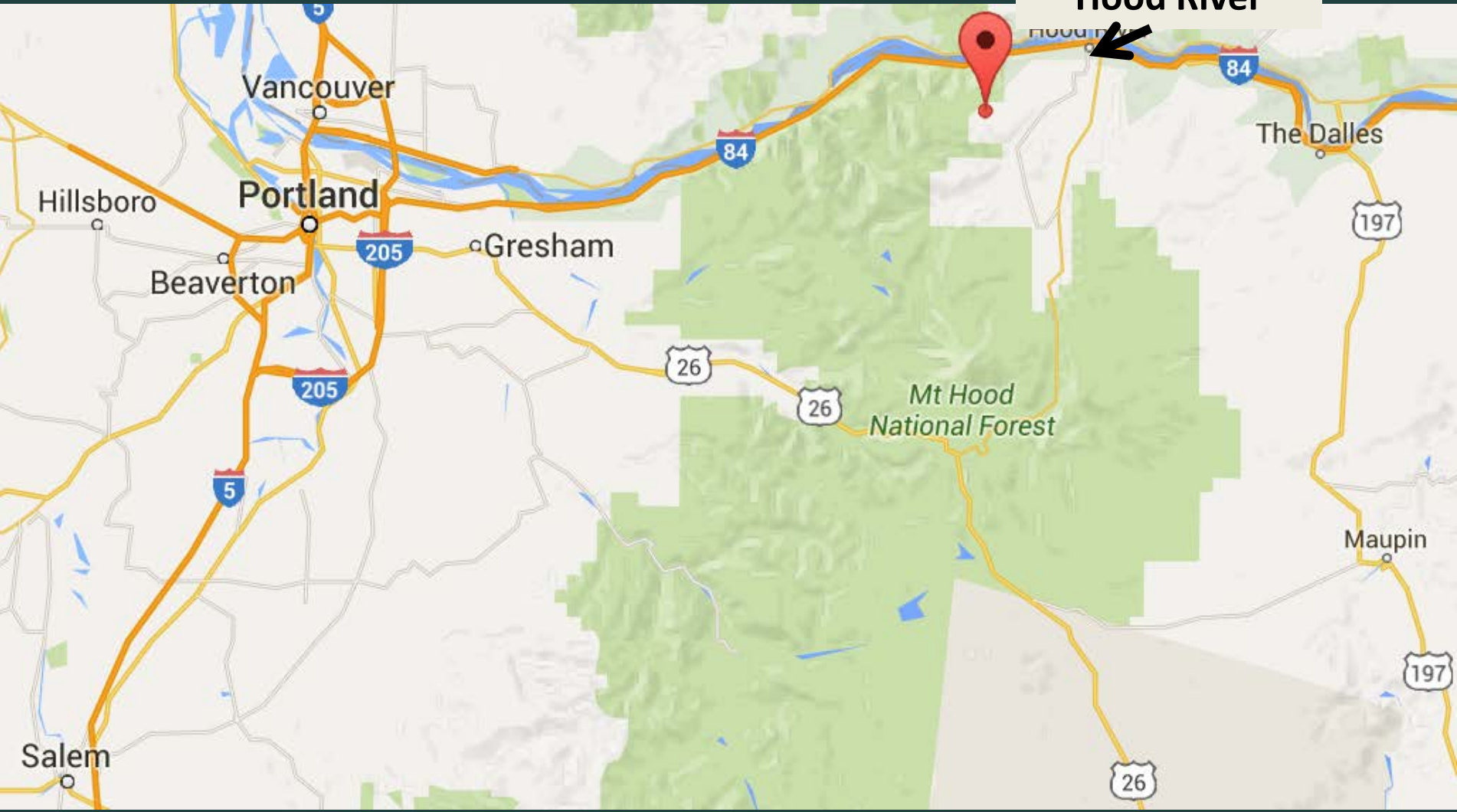
Rank	Applicant	Recommendation
9	Farmers Irrigation District	\$3,000,000

- **Project Type:** Storage/Conservation
- **Goal:** Alleviate water shortages in Farmers Irrigation District and increase instream flows for threatened fish species
- **Public Benefit:** Moderate economic, strong environmental, and strong social/cultural benefit
- **Note:** Project requires the development of a Seasonally Varying Flow prescription



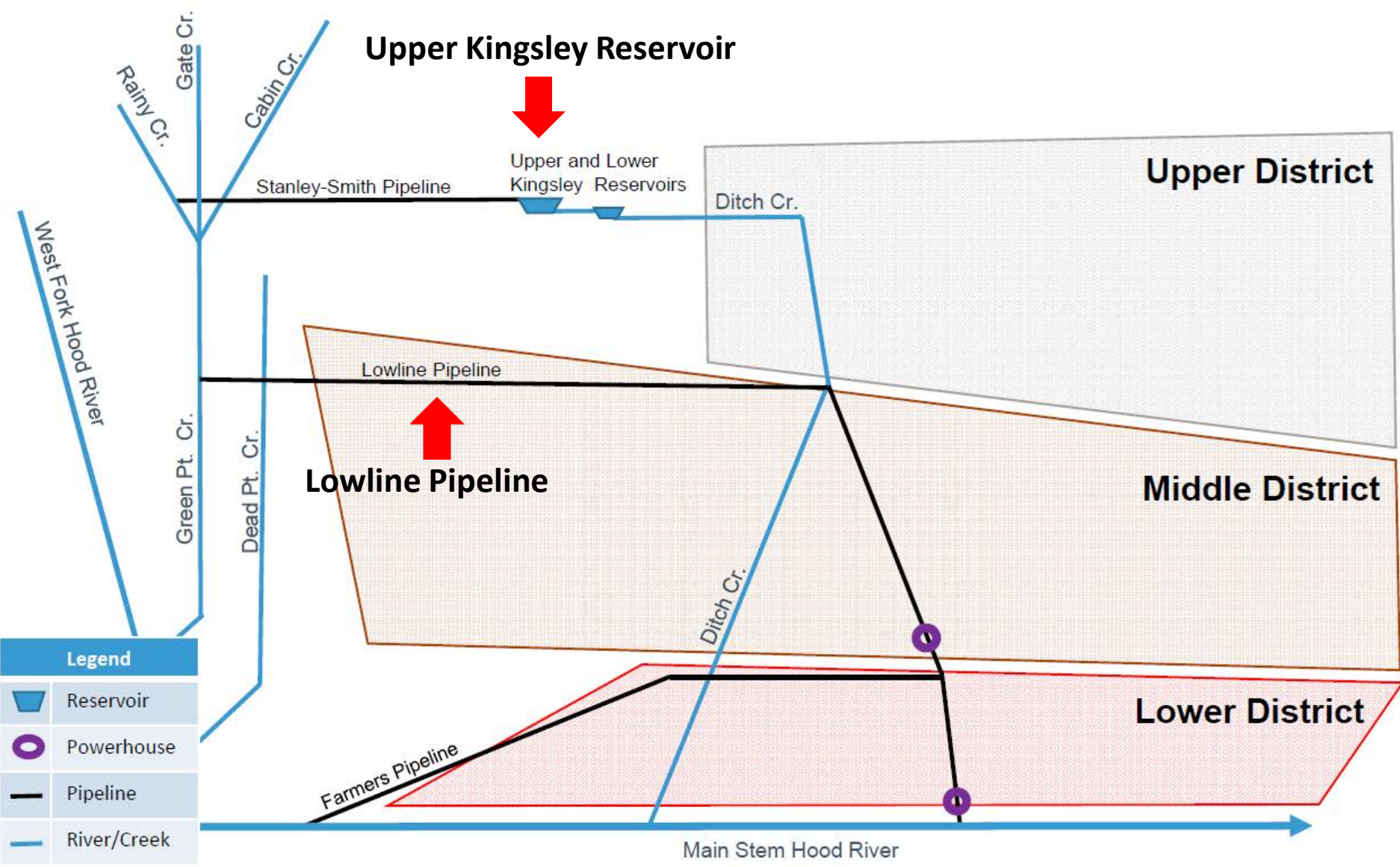
Kingsley Reservoir and Lowline Pipeline

Hood River





Kingsley Reservoir and Lowline Pipeline



Upper Kingsley Reservoir



Upper and Lower Kingsley Reservoirs

Upper District

Lowline Pipeline



Middle District

Lower District

Legend	
	Reservoir
	Powerhouse
	Pipeline
	River/Creek

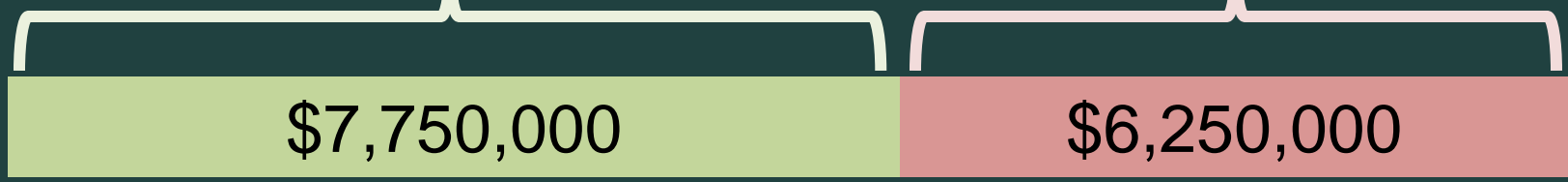
Main Stem Hood River



Justification of Recommendation

Unobligated funds currently in the account

Available post-spring 2017 Lottery Bond sale



Total Available in 2015-2017 : \$14 million

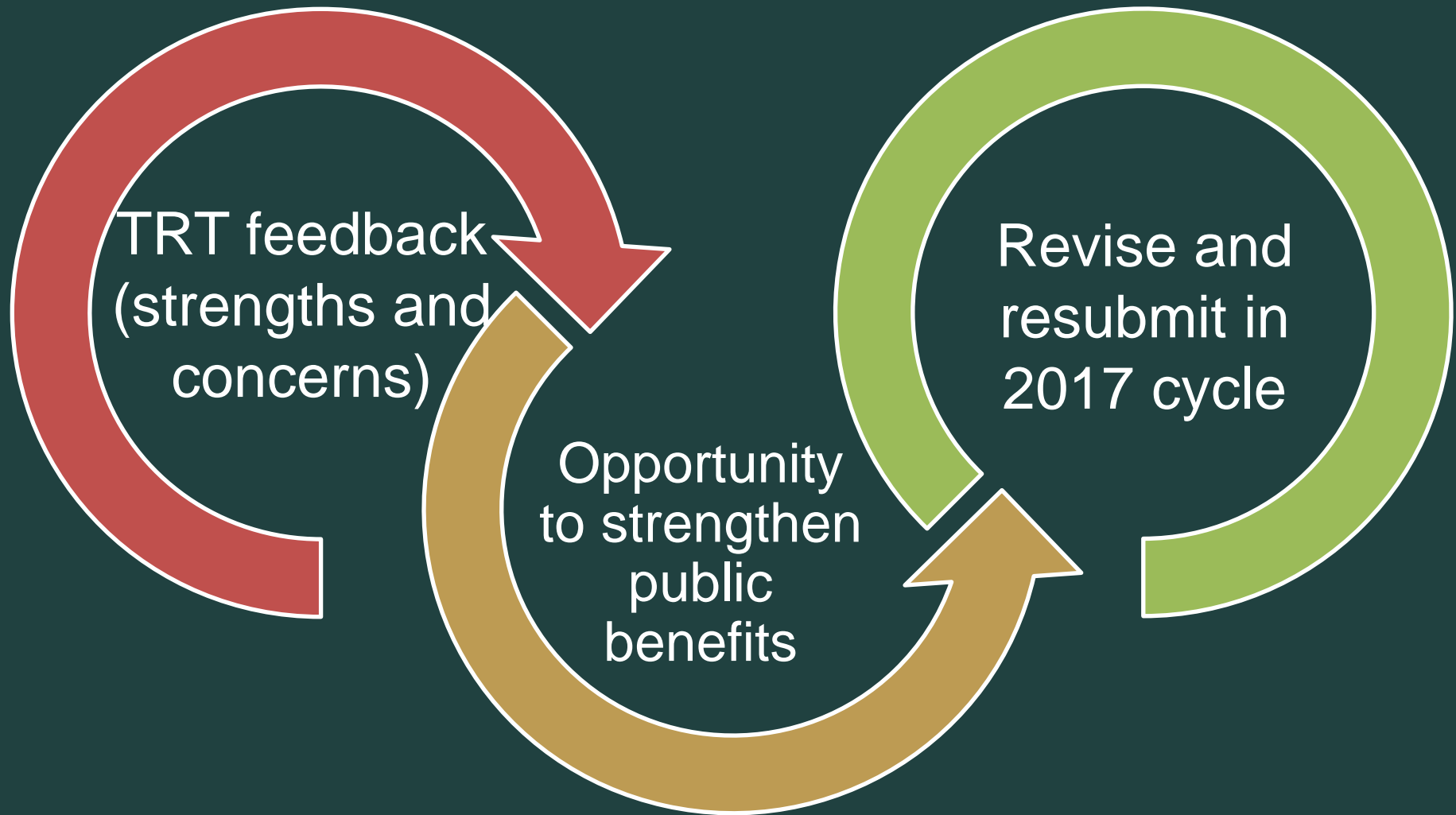


Funding recommendation (Top 9 projects)

2017 Funding cycle & SVF development



Feedback to Applicants





Next Steps (if grants are awarded)



Develop and sign grant agreements



Confirm permits/authorizations



Ensure cost match secured



Coordinate project implementation



Report on public benefits



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Total			\$8,891,118

Staff Recommendation

The Commission may consider the following alternatives:

- Adopt funding recommendations.
- Adopt modified funding recommendations.
- Direct the Department to further evaluate the applications and return with a revised funding proposal.

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THANK YOU





TRT Ranking (1-9)

1. Lostine River Conservation Project
2. Tumalo Feed Canal Conservation Phase 5
3. Highline Canal Pipeline
4. Willow Creek Piping Irrigation Laterals
5. Mosier Deep Water Supply Wells
6. Beaver Creek Dam Fish Passage and Flow Restoration
7. Sun Creek Restoration and Irrigation Efficiency
8. Klamath East Side Water Recycling Project
9. Kingsley Reservoir Expansion and Lowline Pipeline Project



TRT Ranking (10-18)

10. Coe Branch Pipeline and Efficiency Project
11. Desolation Creek Natural Water Storage
12. Painted Hills Reservoir Expansion
13. Morrow Regional Water Recycling and Reuse Project
14. Jetty Creek Fish Passage Restoration
15. Powder Valley Connector
16. Clackamas Water Conservation and Lower Milk Creek Restoration Projects
17. Dallas Water Storage
18. Little Butte Creek Conservation And Quality Improvement



TRT Ranking (19-28)

19. West Fork Hood River Irrigation Conservation Development Project
20. Haines Water System Compliance Project
21. Willakia Vineyard Reservoir Lining and Wetland Restoration
22. Madras Agricultural Water Efficiency and Reuse
23. Dog River Pipeline Replacement Project
24. JDR Ranch Irrigation Efficiency Project
25. Clackamas ASR Well
26. Chiloquin Water Supply and Metering Improvement
27. Catherine Creek Wastewater Facility Improvements
28. Dayton Water System Improvement



TRT Ranking (20-30)

20. Willakia Vineyard Reservoir Lining and Wetland Restoration
21. Madras Agricultural Water Efficiency and Reuse
22. Dog River Pipeline Replacement Project
23. JDR Ranch Irrigation Efficiency Project
24. Clackamas ASR Well
25. Chiloquin Water Supply and Metering Improvement
26. Catherine Creek Wastewater Facility Improvements
27. Dayton Water System Improvement
28. Vale Water System Improvement
29. Fiddlehead Farm Irrigation Innovation
30. Umatilla Beneficial Reuse Phase 1



TRT Ranking (29-37)

29. Vale Water System Improvement
30. Fiddlehead Farm Irrigation Innovation
31. Umatilla Beneficial Reuse Phase 1
32. Allen Creek Pipeline
33. Hazelnut Drip Irrigation Project
34. Adrian Water System Improvement
35. Tide Creek Rainwater Collection Project
36. Greenhorn Water System Improvements
37. Mountain Line Replacement Project

Project ID		
Project Title		
Lead entity or individual		
General project type		
Funding Requested	Total Cost of Project	
1. ECONOMIC - The evaluation of economic benefits for a project shall be based on the changes in economic conditions expected to result from the project	Max Possible	Reviewer Score
(a) Job creation or retention;	5	
(b) Increases in economic activity;	5	
(c) Increases in efficiency or innovation;	5	
(d) Enhancement of infrastructure, farmland, public resource lands, industrial lands, commercial lands or lands having other key uses;	5	
(e) Enhanced economic value associated with tourism or recreational or commercial fishing, with fisheries involving native fish of cultural significance to Indian tribes or with other economic values resulting from restoring or protecting water in-stream;	5	
(f) Increases in irrigated land for agriculture.	5	
Total Economic	30	0
2. ENVIRONMENTAL - The evaluation of environmental benefits for a project shall be based on the changes in environmental conditions expected to result from the project	Max Possible	Reviewer Score
(a) A measurable improvement in protected streamflows that: (A) Supports the natural hydrograph; (B) Improves floodplain function; (C) Supports state or federally listed sensitive, threatened or endangered fish species; (D) Supports native fish species of cultural importance to Indian tribes; or (E) Supports riparian habitat important for wildlife;	5	
(b) A measurable improvement in groundwater levels that enhances environmental conditions in groundwater restricted areas or other areas;	5	
(c) A measurable improvement in the quality of surface water or groundwater;	5	
(d) Water conservation;	5	
(e) Increased ecosystem resiliency to climate change impacts;	5	
(f) Improvements that address one or more limiting ecological factors in the project watershed.	5	
Total Environmental	30	0
<i>**NOTE: Evaluate projects based on the environmental benefits demonstrated in the application. However, please note that for projects that dedicate 25% of conserved water or newly developed water to in-stream use, a total environmental score below 18 will be replaced with a total environmental score of 18 in accordance with ORS</i>		
3. SOCIAL/CULTURAL - The evaluation of the social or cultural benefits for a project shall be based on the changes in social or cultural conditions expected to result from the project.	Max Possible	Reviewer Score
(a) The promotion of public health and safety and of local food systems;	5	
(b) A measurable improvement in conditions for members of minority or low-income communities, economically distressed rural communities, tribal communities or other communities traditionally underrepresented in public processes;	5	
(c) The promotion of recreation and scenic values;	5	
(d) Contribution to the body of scientific data publicly available in this state;	5	
(e) The promotion of state or local priorities, including but not limited to the restoration and protection of native fish species of cultural significance to Indian tribes;	5	
(f) The promotion of collaborative basin planning efforts, including but not limited to efforts under the state integrated water resources strategy.	5	
Total Social & Cultural	30	0
OTHER CONSIDERATIONS	Max Possible	Reviewer Score
Preference points for collaboration. Repeat points from 3f here, if 3f ≥ a median score	5	
TOTAL PUBLIC BENEFIT SCORE	95	0