

Secure Rural Schools and Community Self-Determination Act of 2000
Public Law 106-393
Title II Project Application for 2006 Funds (Round #7)
Roseburg District Resource Advisory Committee

1. Project Name: South Umpqua Fish Habitat Improvement	2. County: Douglas
3. Sponsoring Organization: BLM, PUR, ODFW	4. Date: August 17, 2007
5. Sponsor's Phone Number: (541) 464-2349	
6. Sponsor's E-mail: jake_winn@blm.gov , csipher@or.blm.gov , terryl@umpquarivers.org	

7. Project Location (attach project area map)	
a. Description of Location: (See attached map for more details)	
b. Sub Basin Name (4 th Field Watershed; e.g. North Umpqua): South Umpqua	
c. Watershed Name (5 th Field Watershed; e.g. Little River): South Umpqua (HUC 1710030205)	
d. Legal Location: Township - Range -Section(s) - <i>various</i>	
e. BLM District: Roseburg	e. BLM Resource Area: South River
f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

8. Project Goals and Objectives: (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)

Streams throughout the South Umpqua watershed have the potential to provide high quality spawning and rearing habitat for coho salmon, steelhead trout, and cutthroat trout. However, much of the riparian and in-stream habitat in the watershed is degraded. Over the past five years, the BLM and the Partnership for the Umpqua Rivers (PUR) have completed several restoration projects, including culvert replacement to restore fish passage and placement of logs in streams to improve fish habitat, but many opportunities for restoration remain. The land ownership in this watershed is complex, consisting of a mix of industrial timber lands, individual private ownership, and BLM-managed lands. The BLM and PUR are cooperating to identify, plan, and conduct restoration projects across these complex ownership boundaries.

The South River Programmatic Restoration Environmental Assessment (Roseburg BLM, 2005) and the Oregon Coastal Coho Assessment (ODFW, 2005; available at ODFW) identify three factors that most limit the quality of riparian and instream habitat essential for salmonids and other aquatic organisms in the South Umpqua Sub-Basin, which includes the South Umpqua watershed; these factors include:

- **Habitat Complexity.** Lack of stream habitat complexity limits amount of spawning gravels and summer and winter rearing habitat available for salmonids and other fish. The Oregon Coastal Coho Assessment identifies lack of winter rearing habitat as the most limiting factor for coho salmon.
- **Water Quality.** High water temperatures reduce the amount of summer rearing habitat available to salmonids.
- **Fish Passage.** Culverts and other barriers to fish passage prevent anadromous fish from accessing habitat.

The projects proposed in this application will improve habitat complexity and water quality; other projects, both completed and proposed, address fish passage. Log and boulder placement in streams will help to collect gravel suitable for spawning habitat, increase the amount of pool habitat essential to juvenile fish in both the summer and winter, and increase the amount of refuge habitat available during peak winter flows. Riparian habitat will be improved by removing blackberry and other invasive species that are widespread along the streams. Cleared areas will then be replanted with

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native trees and shrubs in order to create a diverse riparian community and promote long term development of large trees to serve as a future supply of large wood for the stream.

Staff members from the BLM, PUR, and ODFW worked together to choose five miles for instream restoration and three miles for riparian restoration. Using the South River Programmatic Restoration Environmental Assessment (Roseburg BLM, 2005) and the Oregon Coastal Coho Assessment (ODFW, 2005), stream habitat surveys, and their personal knowledge, they chose areas with an identified need for restoration and high intrinsic potential for coho salmon habitat.

9. Project Description: (Describe how the project will be conducted and how its goals and objectives will be met.)

We are proposing restoration projects in six different streams in the South Umpqua watershed, which are listed in the table below:

Stream Name	Miles of Streams		
	BLM-Managed Lands	Private Lands	Total
Fate	0.5	0.5	1.0
Wood		0.5	0.5
Upper Days		0.5	0.5
Stouts	0.25	0.75	1.0
Shively	0.5	0.5	1.0
Beals		0.5	.5
Total	1.25	3.25	4.5

Instream restoration is proposed in all of these segments. Riparian restoration is proposed on private lands where invasive vegetation is preventing the reestablishment of native hardwoods.

The instream portion of the project will involve the placement of logs and boulders in the stream to trap gravel substrate, dissipate stream energy thereby reducing erosion on banks, and enhance scour of deep pools. Most logs will be placed in stable pinches between standing live trees in order to provide stable, long-term debris jams. Logs will be purchased or donated by the BLM or private land owners. Logs and boulders will be placed in the stream using an excavator or cable yarding system.

Blackberry removal will be accomplished by cutting it in mid summer and then applying herbicides in the fall to the plants that have resprouted. Once cleared, the riparian areas will be replanted with native trees and shrubs. Follow-up control for blackberry and other invasive species will occur twice over the following five years.

10. How will cooperative relationships among people that use federal lands be improved?

This project will bring together private landowners, the Oregon Department of Fish and wildlife, the Partnership for the Umpqua Rivers to work with the BLM to solve problems that cross ownership boundaries.

11. How is this project in the best public interest and how will it benefit communities?

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Local contractors are likely to complete the work, providing jobs and income to local citizens. Additional benefits will be achieved through the improvement of aquatic habitat and fish populations that use the South Umpqua watershed. Coho salmon and steelhead trout are important sport fish in the Umpqua Basin and provide tourism, recreational and economic benefits to individuals and communities throughout the Douglas County.

12. Who will accomplish the project?

<input checked="" type="checkbox"/> Contractor	<input checked="" type="checkbox"/> Federal Workforce
<input type="checkbox"/> County Workforce	<input type="checkbox"/> Volunteers
<input checked="" type="checkbox"/> Other (specify): ODFW and PUR employees, private landowners	

13. Is this project coordinated with other related project(s) on adjacent lands?

a. Yes No (If yes, then describe)

b. Are you seeking funds from other Resource Advisory Committees? Yes No (If yes, then describe)

14. If the project is on private land how does it benefit federal lands or resources?

This watershed has a high proportion of lands managed by the BLM. Therefore, restoration projects completed anywhere in this watershed, regardless of ownership, will have a direct benefit to Federal lands.

15. Measure of Project Accomplishments

a. Total Acres: 18	b. Total Miles: 4.5
c. Number of Structures:	d. Estimated Number of People Reached (for environmental education and workforce training projects):
e. Number of Laborer Days:	
f. Other (specify):	
g. Describe how long will the benefits of the project last: More than 25 years	

16. Will the project generate merchantable materials?

Yes No If yes, describe:

17. How does the proposed project meet purposes of the legislation? (Check at least one)

<input type="checkbox"/> Improves maintenance of existing infrastructure.
<input checked="" type="checkbox"/> Implements stewardship objectives that enhance forest ecosystems.
<input checked="" type="checkbox"/> Restores and improves land health.
<input checked="" type="checkbox"/> Restores water quality.

18. Project Type (Check at least one)

<input type="checkbox"/> Road Maintenance	<input type="checkbox"/> Trail Maintenance
<input type="checkbox"/> Road Decommission/Obliteration	<input type="checkbox"/> Trail Obliteration
<input type="checkbox"/> Other Infrastructure Maintenance (specify):	
<input type="checkbox"/> Soil Productivity Improvement	<input type="checkbox"/> Forest Health Improvement

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<input checked="" type="checkbox"/> Watershed Restoration & Maintenance	<input type="checkbox"/> Wildlife Habitat Restoration
<input checked="" type="checkbox"/> Fish Habitat Restoration	<input checked="" type="checkbox"/> Control of Noxious Weeds
<input checked="" type="checkbox"/> Reestablish Native Species	
<input type="checkbox"/> Other Project Type (specify):	

19. Project Initiation and Estimated Completion Dates: (Describe the timing of the major phases of the project)

The design and layout of the instream log and boulder placement will begin in the winter of 2007 and 2008. On the ground work will begin during the summer of 2008, during the instream work period (July 1 to Sept 15) determined by ODFW and continue in 2009. Clearing of blackberries and planting will begin in the winter of 2008 and 2009 with a follow-up herbicide treatment in the fall two times during the next five years. Planting will begin the winter after log and boulder placement is complete.

20. Status of Project Planning

a. NEPA process complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
If no, give est. date of completion: March 2008; Determination of NEPA Adequacy for existing EA			
d. Consultation complete: PROGRAMMATIC COVERAGE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable
f. DSL/ODFW* permits for in-stream work obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
g. DSL/COE* 404 fill/removal permit obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
h. SHPO* concurrence received:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
i. Project design(s) completed:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
* DSL = Dept. of State Lands, ODFW = Oregon Department of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer			

21. Anticipated Project Costs

a. Total fiscal year 2008 Title II funds requested (to be expended beginning in FY 2008):	\$ 114,778.00
b. Is this a multi-year project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Display estimated expenditures by fiscal year below (The federal fiscal year begins October 1):	
e. FY 2008 expenditures:	\$114,778.00

Table 1. Project Cost Analysis (Includes all expenditures for the life of the project)

Item	Fed. Agency Appropriated Contribution	Requested County Title II Contribution	Other Contributions	Total Available Funds
Planning and Permits			\$900.00	\$900.00
Design & Engineering	\$3,512.50			\$3,512.50
Project/Contract Administration	\$3,512.50	\$5,725.00	\$5,800.00	\$15,037.50
Project/Contract Implementation ¹	\$3,000.00	\$35,500.00	\$35,500.00	\$74,000.00
Materials & Supplies ²	\$28,500.00	\$61,300.00	\$61,300.00	\$151,100.00
Post-Project Monitoring	\$6,500.00	\$1,560.00	\$1,560.00	\$9,620.00

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Other (fiscal admin + mileage)	\$1,213.00	\$10,693.00	\$5,524.00	\$17,430.00
Total Cost Estimate	\$46,238.00	\$114,778.00	\$103,985.00	\$271,600.00

¹This could be either the cost of the labor for project implementation or the cost of a contract.

²If the project is implemented by contract, materials and supplies are likely included in the cost of the contract.

22. Identify source(s) of additional funding for project identified above or clarify other aspects of the budget:

Funding would come from several additional sources, including:

- BLM in-kind contributions in the form of project planning, design, and management, and donated logs
- ODFW in-kind contributions in the form of project planning, design, and management
- Private landowner contributions in the form of donated labor and logs
- Oregon Watershed Enhancement Board Grant (not yet secured)

See the attached sheet for more information on the budget.

23. Monitoring Plan

a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? Who will be responsible for this monitoring item?

The project will be monitored for effectiveness according to the Roseburg District Monitoring Plan. This includes photopoints, stream channel cross sections and substrate analysis with Wolman pebble counts. As funding and workload permits, snorkel surveys will be conducted to determine fish use of structures and reach scale salmonid standing crop. Monitoring will be completed by BLM staff.

b. How will the project be evaluated to determine how well it contributes to local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? Who will be responsible for this monitoring item?

Local contractors are likely to bid on the in-stream portion of the project. The Contracting Officer's Representative will report whether or not the contractor was local and the number of person days used to complete this project. The Douglas County Work Release Crew will complete the riparian work. The purpose of the program is to help people readjust to the workforce after incarceration.

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c. What methods will be established to determine how well the proposed project improves the use of, or added value to, any products removed from federal lands consistent with the purposes of this Act? Who will be responsible for this monitoring item?

N/A

24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application? (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)

Roseburg District ROD/RMP, Roseburg District Restoration Strategy, South River Restoration EA, the Oregon Plan for Salmon, the Myrtle Creek Watershed Assessment.

25. Who are the key people responsible for this project? (List their names and titles)

Cory Sipher, South River Field Office Fisheries Biologist - (541) 464-3249
Terry Luecker, project planner, Partnership for the Umpqua Rivers

26. Attach a map and photograph(s) of the project. (At a minimum, the map should show the project location, roads, and streams, and private versus BLM ownership. The photograph should show the project site or a representative portion of it. A digital photograph incorporated into this application is preferred.)

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Figure 1. Reach on Stouts Creek where large wood will be placed to create complex pool habitat and slow water to enhance winter rearing habitat.

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Figure 2. Site on Shively Creek where large wood was placed in 2007. Additional reaches downstream on private lands are similarly devoid of large wood and would benefit from the complexity of added large wood.

South Umpqua Restoration

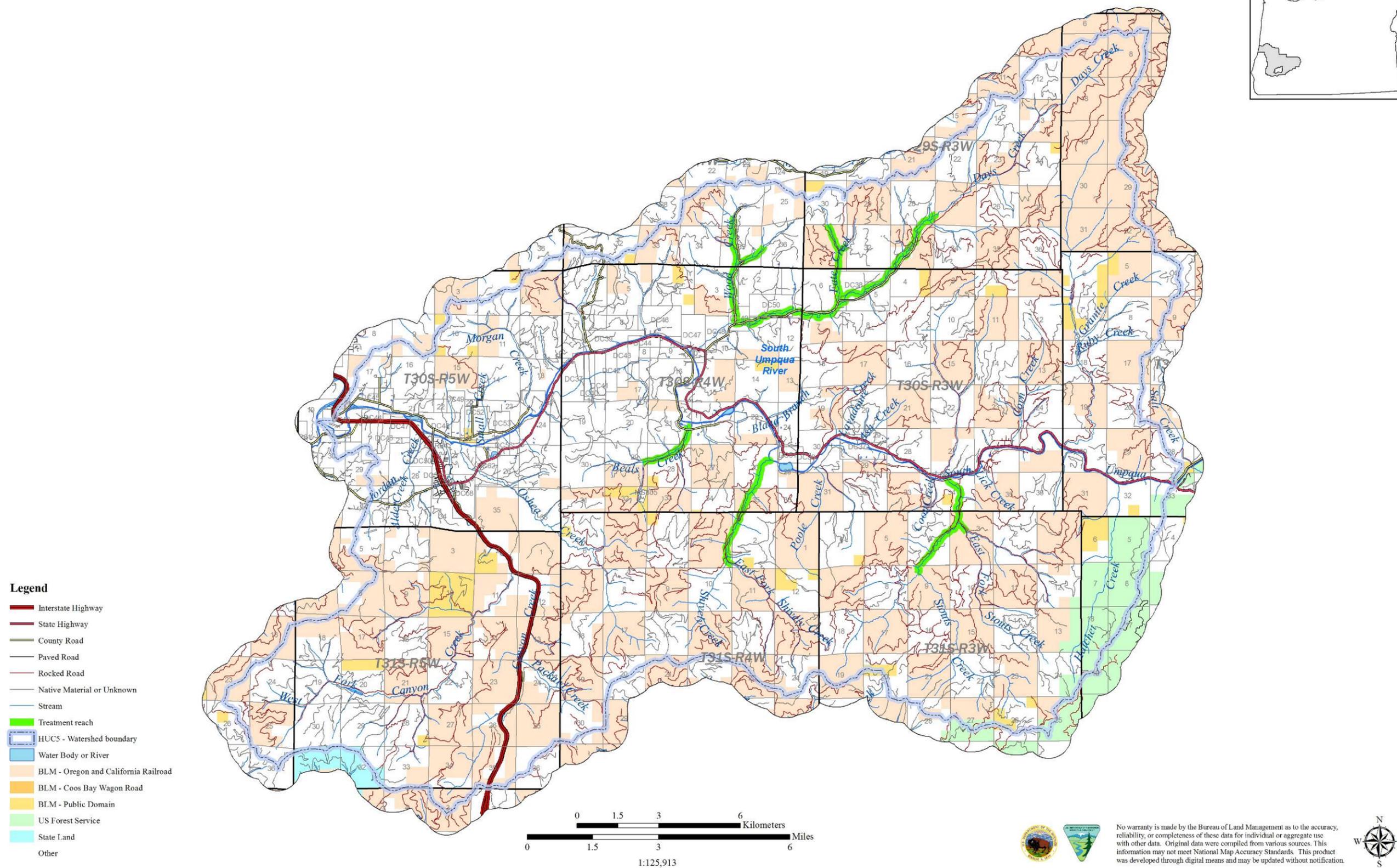
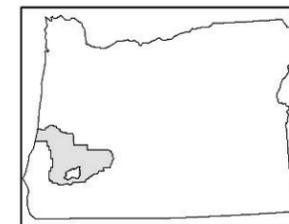


Figure 3.