

Secure Rural Schools and Community Self-Determination Act of 2000  
Public Law 106-393  
Title II Project Application for 2007 Funds (Round #7)  
Roseburg District Resource Advisory Committee

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|--|---------------------------|
| <b>1. Project Name:</b> Lamprey Passage and Distribution Study                             | <b>2. County:</b> Douglas |
| <b>3. Sponsoring Organization:</b><br>Partnership for the Umpqua Rivers (PUR)              | <b>4. Date:</b> 8/17/07   |
| <b>5. Sponsor's Phone Number:</b> (541)673-5756  |                           |
| <b>6. Sponsor's E-mail:</b> <a href="mailto:Bob@UmpquaRivers.org">Bob@UmpquaRivers.org</a> |                           |

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

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| <p><b>8. Project Goals and Objectives:</b> (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)</p> <p>In 2003 a petition to the U. S. Fish and Wildlife Service to list the pacific lamprey as threatened or endangered under the federal Endangered Species Act was submitted.</p> <p>Pacific lamprey counts at Winchester Dam located in the North Umpqua River decreased exponentially in numbers from a maximum of 46,785 in 1966 to 34 fish in 2001. This data was used as an example of the dramatic decline in lamprey numbers in the petition.</p> <p><b>Goals:</b></p> <ul style="list-style-type: none"> <li>• Be proactive in promoting lamprey conservation measures through research and on-the-ground work to avoid a potential listing.</li> <li>• Obtain more information on Lamprey distribution, passage and population on the North Umpqua.</li> <li>• Obtain information that informs future research and restoration needs.</li> </ul> <p><b>Objectives:</b></p> <ul style="list-style-type: none"> <li>• Trap and tag 200 Lampreys at Winchester dam.</li> <li>• Release tagged Lampreys at the base of the dam.</li> <li>• Monitor Lamprey movement through fish passage structure, the dam itself and the newly constructed lamprey passage structure.</li> <li>• Once Lamprey have passed, monitor distribution in the North Umpqua.</li> </ul> |
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**9. Project Description:** (Describe how the project will be conducted and how its goals and objectives will be met.)

One seasonal employee will be hired starting the third week of March 2008 and will work through October 2008. From March through June, this person will be responsible for trapping, tagging, and tracking pacific lamprey passage through Winchester Dam. Trapping will be accomplished using lamprey pot traps placed at the base of the dam. Traps will be checked daily and the lamprey will have radio tags (battery life of 1 year) surgically implanted. Prior to implanting the tags, lengths, weights and sexual maturity of specimens will be collected. Radio-tagged lamprey will be released below the dam and allowed to negotiate passage through or over the dam. Daily monitoring will occur to track lamprey movements and preferred passage. Data will be collected to compare the numbers of lamprey using the existing fish ladder versus those using alternate passage.

From July through October this person will track lamprey daily throughout the North Umpqua Basin. Tracking will be conducted using vehicle and fixed-wing aircraft. GPS locations will be recorded for each lamprey to monitor movement. All data will be geo-referenced and displayed in a GIS database.

The employee will then be shifted to half time for the remainder of the year. Tracking will occur 1-2 days weekly to pinpoint winter lamprey refugia.

The employee will then be brought back on full time through the spawning season the following year (March through June). GPS data will be collected to document spawning locations and distribution.

Upon completion of the spawning surveys and radio telemetry the data will be compiled and analyzed. Winter spawning areas will be map and prioritize for potential restoration opportunities.

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

Collaborations for this project will include the Oregon Department of Fish and Wildlife, the Partnership for the Umpqua Rivers, the Cow Creek Band of Umpqua Tribe of Indians, the US Fish and Wildlife Service, a University (most likely OSU), the Bureau of Land Management, the Umpqua National Forest and private landowners that have a

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stake in Winchester dam. This project has an incredible array of partners and will likely be of interest to local anglers, environmental non-profits and others because of its proactive nature for species restoration. Collaborative opportunities include data sharing across agencies, information developed that would be of use to all fisheries practitioners in the basin and those that are interested in the recovery of lamprey.

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

This project is in the best interest of the Umpqua basin because it helps to provide strategic information that would assist in future restoration efforts for the Pacific Lamprey. The project is a proactive effort to work towards restoration actions that would allow the species to recover populations sufficient enough to preclude an ESA listing. Healthy lamprey populations will further enhance the strength of the ecosystem and ultimately benefit the community.

**12. Who will accomplish the project?**

- |   |  |
|---|--|
| <input type="checkbox"/> Contractor                                   | <input type="checkbox"/> Federal Workforce |
| <input type="checkbox"/> County Workforce                             | <input type="checkbox"/> Volunteers        |
| <input checked="" type="checkbox"/> Other (specify): Graduate Student |  |

**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) PUR is seeking partial funding of this project from the US Forest Service Rouge-Umpqua RAC

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

This project will benefit federal lands by providing key data on the distribution and numbers of lamprey in the north Umpqua that will help with design of future studies and restoration efforts. It will also help if restoration efforts that are a product of the project help preclude an ESA listing of the species.

**15. Measure of Project Accomplishments**

- |                                |   |
|--------------------------------|---|
| a. Total Acres: N/A            | b. Total Miles: N/A   |
| c. Number of Structures: N/A   | d. Estimated Number of People Reached   |
| e. Number of Laborer Days: 190 | (for environmental education and workforce training projects):<br>1,000 (via website and personal contacts) |

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f. Other (specify):  
The results of this project will be used to develop a better understanding of pacific lamprey distribution throughout the North Umpqua Basin, improve lamprey passage at Winchester Dam and prioritize future restoration efforts.

g. Describe how long will the benefits of the project last?  
The benefits of the project extend to all the operations of the council and will last as long as PUR is viable. The strength of PUR's work lies in the specialization of the staff and contractors to work quickly and efficiently.

**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)

Improves maintenance of existing infrastructure.  
 Implements stewardship objectives that enhance forest ecosystems.  
 Restores and improves land health.  
 Restores water quality.

**18. Project Type** (Check at least one)

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

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

Approximate duration of project: **8 months**  
 Estimated completion date: **October 31, 2008**

**20. Status of Project Planning**

|   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| a. NEPA process complete:                         | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| b. Consultation complete:                         | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| c. DSL/ODFW* permits for in-stream work obtained: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| d. DSL/COE* 404 fill/removal permit obtained:     | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| e. SHPO* concurrence received:                    | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| f. Project design(s) completed:                   | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |

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**g.** If you answered yes to any of the questions above, please describe who will accomplish the work and when it will be complete:

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\* 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 Title II funds requested: **\$49,210**

**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                         |                                       |  |                     |                       |
| Design & Engineering                         |                                       |  | \$9,950             | \$25,000              |
| Project/Contract Administration              |                                       | \$4,378                                | \$5,559             | \$18,750              |
| Project/Contract Implementation <sup>1</sup> |                                       | \$11,000                               | \$113,867           | \$224,777             |
| Materials & Supplies <sup>2</sup>            |                                       | \$25,000                               | \$14,750            | \$20,700              |
| Post-Project Monitoring                      |                                       |  |                     |                       |
| Other: Mileage                               |                                       | \$8,832                                |                     |                       |
| <b>Total Cost Estimate</b>                   |                                       | <b>\$49,210</b>                        | <b>\$144,126</b>    | <b>\$289,227</b>      |

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

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

**22. Provide a budget narrative, including a description of other source(s) of funding for the project identified above and/or a clarification of any other aspects of the budget:**

Additional funding will be provided by:

- Oregon State University
- Oregon Watershed Enhancement Board
- National Fish and Wildlife Foundation
- U.S. Fish and Wildlife Service
- Rouge/Umpqua NF Title II
- Cow Creek Band of the Umpqua Tribe of Indians (inkind)
- Oregon Department of Fish and Wildlife (inkind)

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| <b>23. Monitoring Plan</b>  |
| <p>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?<br/>Because this is a research project, there are no ecological conditions to be specifically met. Any projects resulting from this proposal will have a detailed monitoring plan which will address ecological conditions.</p>   |
| <p>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?<br/>The PUR Executive Director (ED) will oversee the performance of a graduate student through the life of this project. The ODFW Assistant District Fisheries Biologist will supervise the graduate student. The ED will consult with the appropriate BLM official to ensure projects funded by Title II meet the intent of the BLM/PUR Assistance Agreement.</p> |
| <p>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?<br/>N/A</p>   |

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| <b>24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application?</b> (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)   |
| <p>The PUR used the following documents to draft this proposal:</p> <ul style="list-style-type: none"><li>• Oregon Plan for Salmon and Watersheds</li><li>• Umpqua Basin Action Plan (a synthesis of action items from 18 published watershed assessments)</li><li>• PUR's mission statement</li><li>• Purposes, goals, and principles from the PUR bylaws.</li></ul> |

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| <b>25. Who are the key people responsible for this project?</b> (List their names and titles)   |
| <p>PUR Staff (Bob Kinyon, Executive Director; Debbie Thornton, Fiscal and Data Manager; Sandy Lyon, Monitoring Coordinator; Terry Luecker, Planner; Eric Riley, Estuary Biologist)<br/>Amy Amoroso, PUR Board President<br/>Sam Moyers, ODFW Asst. District Fisheries Biologist</p> |

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**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. **More than one photograph can be submitted, but they must all fit on one page. A digital photograph incorporated into this application is preferred; hard copies will be copied in black and white.**)

See Attached