

Title II Project Application
COOS BAY DISTRICT
Resource Advisory Committee

1. Project Number (Assigned by federal unit):_

2. Project Name: West Fork Smith River Adult and Juvenile Salmonid Trapping	3. County: Douglas
4. Project Sponsor: Pat Olmstead	5. Date: May 13, 2002
6. Sponsors Phone Number: (541) 756-0100	
7. Sponsors E-mail: Pat_Olmstead@or.blm.gov	

8. Project Location

Umpqua Subbassin (17100303)
Lower Smith River Watershed (1710030307)
West Fork Smith River Subwatershed (171003030702)
Lower West Fork Smith River Drainage
Township 20S, Range 09W, Section 21
Coos Bay BLM District
Umpqua Field Office

State / Private / Other lands involved? Yes.

9. Statement of Project Goals and Objectives:

The goal of this project is to monitor the effectiveness of the Oregon Plan for Salmon and Watersheds by generating specific data on the life cycle of coastal anadromous salmonids, particularly coho salmon, to determine population numbers and trends, freshwater and marine survival rates, and habitat relationships. This data will ultimately help determine effectiveness of aquatic/watershed restoration as related to the implementation of Aquatic Conservation Strategy objectives. This data will also assist fisheries managers in assessing status of west coast salmonid stocks for establishing harvest levels, de-listing healthy stocks or listing at-risk stocks.

The objectives of the trapping is to estimate the abundance of adult salmonids and downstream migrating juvenile salmonids in the West Fork Smith River relative to other coastal river systems, estimate marine and freshwater survival rates for Oregon Coast coho salmon (Oncorhynchus kisutch), determine if there are geographic differences in the patterns of freshwater and marine survival of coho salmon, determine if there are geographic differences in the patterns of freshwater and marine survival of coho salmon, determine if there are geographic patterns of freshwater survival of coho salmon associated with differences in habitat quality, determine what are the influences of climate and land-use activities on coho salmon survival rates.

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10. Project Description:

The bureau has made a commitment to cooperate with the State to implement and monitor the Oregon Plan for Salmon and Watersheds. The establishment of long term salmonid population monitoring is an integral part of the Oregon Plan. The West Fork Smith River site was established in 1998 as one of eight coastal index streams where salmonid life cycle monitoring is conducted. All monitoring is conducted by the Oregon Department of Fish and Wildlife. At the West Fork Smith River data is collected for four species of salmonids for October through mid-April. Returning adult salmonids are trapped, tagged, and monitored once they enter the West Fork all the way through spawning activities. Data is collected on the numbers and condition of out-migrating smolts and juveniles from January to June. Habitat use data is also collected.

The initial study design was established to track three complete three-year life cycles of Oregon Coast coho salmon. Data has been collected for juveniles and adults from Spring-1999 through Spring-2002 which equates to monitoring one cycle. Monitoring is planned through at least Spring 2009 out migration.

The BLM has been contributing \$54,000 in matching funds to the ODFW to operate the trapping facilities and to conduct the associated spawning surveys. Monthly trapping reports are provided through the spring juvenile monitoring and a yearly summary report is provided before the end of the fiscal year.

11. Coordination of this project with other related project(s) on adjacent lands?

Yes. The West Fork Smith River watershed has been the object of extensive watershed and aquatic habitat restoration by BLM since the mid-1980's. This intensive monitoring of salmonid production and habitat relationship will help guide future aquatic restoration in the watershed.

12. How does proposed project meet purposes of the Legislation? [Sec. 203(b)(1)]

© Implements stewardship objectives that enhance forest ecosystems. [Sec. 2(b)]

13. Project Type (check one) [Sec. 203(b)(1)]

© Watershed Restoration & Mntc. [Sec. 2(b)(2)(D)]

© Fish Habitat Restoration [Sec. 2(b)(2)(E)]

© Other Project Type (specify) [Sec. 2(b)(2)]: Monitoring

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14. Measure of Project Accomplishments/Expected Outcomes [Sec. 203(b)(5)]

Monitoring production and population trends of 4 salmonid species over 182 stream miles in a 27 square mile watershed.

Estimate of Laborer Days:

- For Adult Trapping and Spawning Surveys
October through January = 90 days for 4 people = 360 days + 5% for occasional weekends for 2 people = 378 days.
- For Smolt Trapping and Spawning Surveys
February through June = 106 days for 3 people = 318 days.
- For Report Writing
June through July = 44 days for 1 person = 44 days.
- For Maintenance of Structures
Before October season for 1 week = 5 days for 2 people = 10 days.
- **Total = 750 Laborer Days**

15. Duration of Project and Estimated Completion Date: [Sec. 203(b)(2)]

Collecting field data each year lasts from approximately October when adult salmonids are returning to spawn to June when juvenile salmonids stage to migrate to the ocean. Facility maintenance can occur throughout the year and a final report is written during the summer. Life cycle monitoring is designed to track three complete salmonid life-cycles which could be completed at the West Fork Smith River in 2009.

16. Target Species Benefited:

The monitoring is actually done for fall Chinook and coho salmon, winter steelhead, and sea-run/resident cutthroat trout, however trend data is also collected from the incidental trapping of native non-game species such as long-nose and speckled dace, and lamprey.

17. How will cooperative relationships among people that use federal lands be improved? [Sec. 2(b)(3)]

This project is expected to foster cooperative relationships among individuals and groups with diverse interests because it focuses on an area of agreement rather than controversy. Regardless of differing views on other aspects of public land management, clean water and healthy streams, and supporting stable populations of native fish and wildlife species are long-term ecological goals that most Coos Bay District user's support.

18. How is this project in the best public interest? [Sec. 203(b)(7)] **Identify benefits to communities.**

This project is considered to be in the best public interest because it contributes positively toward maintaining and enhancing water quality and fish and wildlife habitat for both current and future generations of Federal Land users.

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19. How does project benefit federal lands/resources?

This project monitors at-risk populations over a long term in an area where the BLM has placed a large effort into restoration.

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20. Status of Project Planning

- a. NEPA Complete: Yes
- c. NMFS Sec. 7 ESA Consultation Complete: Yes
- d. USFWS Sec. 7 ESA Consultation Complete: Yes
- e. Survey & Manage Complete: Not Applicable
- f. DSL/ODFW* Permits for In-stream Work Obtained: Not Applicable
- g. DSL/COE* 404 Fill/Removal Permit Obtained: Not Applicable
- h. SHPO* Concurrence Received: Not Applicable
- i. Project Design(s) Completed: Yes

* DSL = Dept. of State Lands, ODFW = Oregon Dept. of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer

21. Proposed Method(s) of Accomplishment

As a result of a statewide cooperative agreement between the BLM and the State of Oregon to implement and monitor the Oregon Plan, the Oregon Department of Fish and Wildlife, Research Division has developed a study design and is conducting Plan level salmonid life cycle monitoring on eight coastal index streams. The ODFW has the expertise to operate these facilities including the West Fork Smith River, as well as access to state of the art salmonid research at their Oregon State University office.

22. Will the Project Generate Merchantable Materials? [Sec. 204(e)(3)]

No. However, the data collected from this project could provide an understanding of salmonid population dynamics that could be used to help guide the ODFW in setting recreational and commercial harvest limits for Chinook salmon, steelhead trout, and ultimately coho salmon coast wide. An understanding of the impacts of marine and freshwater conditions on salmonid populations could result in more reliable stock assessments, which would benefit local fishing dependant coastal communities.

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23. Anticipated Project Costs [Sec. 203(b)(3)]

- a. Total County Title II Funds Requested: \$54,000
- b. Is this a multi-year funding request? Yes.
- c. FY02 Request: \$54,000
- d. FY03 Request: \$54,000
- e. FY04 Request: \$54,000
- f. FY05 Request: \$54,000
- g. FY06 Request: \$54,000

Table 1. Project Cost Analysis

Item	<i>Column A</i> Fed. Agency Appropriated Contribution [Sec. 203(b)(4)]	<i>Column B</i> Requested County Title II Contribution [Sec. 203(b)(4)]	<i>Column C</i> Other Contributions [Sec. 203(b)(4)]	<i>Column D</i> Total Available Funds
24. Project Development				
25. ODFW Seasonal Workforce		\$50,000.00	\$50,000.00	\$100,000.00
26. Analysis and Reporting		\$4,000.00	\$4,000.00	\$8,000.00
27. Total Cost Estimate				\$108,000.00

28. Identify Source(s) of Other Funding for Project Identified Above [Sec. 203(b)(4)]

Unguaranteed BLM appropriated funds under the Challenge Cost-Share program.

29. Monitoring Plan [Sec. 203(b)(6)]

- a. **What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? [Sec. 203(b)(6)] Who will be responsible for this monitoring item?**

This entire project is a monitoring and reporting project conducted by the ODFW.

- b. **How will the project be evaluated to determine how well the proposed project contributes towards local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? [Sec. 203(b)(6)] Who will be responsible for this monitoring item?**

Not Applicable.

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- c. What methods and measures of evaluation 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? [Sec. 203(b)(6) and Sec. 204(e)(3)] Who will be responsible for this monitoring item?**

Not Applicable

- d. Identify total funding needed to carry out specified monitoring tasks.**

Amount: \$54,000.00