

**Bonneville Power Administration  
Fish and Wildlife Program FY98 Watershed Proposal Form**

**Section 1. General administrative information**

**Title** **Plant Aspen And Other Riparian Vegetation  
Along 12 Miles Of Streams..**

**Bonneville project number, if an ongoing project** 8044

**Business name of agency, institution or organization requesting funding**  
U.S.D.A. Forest Service, Ochoco National Forest, Prineville Ranger District

**Business acronym (if appropriate)** U.S.F.S.

**Proposal contact person or principal investigator:**

**Name** Monte Kuk  
**Mailing Address** P.O. Box 490  
**City, ST Zip** Prineville, OR 97754  
**Phone** (541) 416-6500  
**Fax** (541) 416-6695  
**Email address** \_\_\_\_\_

**Subcontractors.**

<b>Organization</b>	<b>Mailing Address</b>	<b>City, ST Zip</b>	<b>Contact Name</b>

**NPPC Program Measure Number(s) which this project addresses.**  
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**NMFS Biological Opinion Number(s) which this project addresses.**  
Trout Creek Timber Sale EA and BE, Yobear Timber Sale EA and BE

**Other planning document references.**  
Trout Watershed Analysis and Bear Creek Preliminary Watershed Analysis

**Subbasin.**  
\_\_\_\_\_

**Short description.**

Improve riparian vegetation to provide increased shading and bank stability

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**Section 2. Key words**

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish		Construction	X	Watershed
	Resident fish		O & M		Biodiversity/genetics
+	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research	+	Ecosystems
	Climate		Monitoring/eval.	+	Flow/survival
	Other	X	Resource mgmt		Fish disease
			Planning/admin.		Supplementation
			Enforcement	+	Wildlife habitat enhancement/restoration
			Acquisitions		

**Other keywords.**

Sedimentation, stabilization, thermal control

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**Section 3. Relationships to other Bonneville projects**

Project #	Project title/description	Nature of relationship

**Section 4. Objectives, tasks and schedules**

**Objectives and tasks**

Obj 1,2,3	Objective	Task a,b,c	Task
1	Reduce water temperatures, & improve bank stability	a	Plant willow and other rip. veg.
			Take aspen root cuttings & plant
			Propagate native seed into root stock and plant along streams


**Objective schedules and costs**

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	6/1998	9/2000	99.00%
			TOTAL 0.00%

**Schedule constraints.**

Collection of native seed and growing root stock

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**Completion date.**

2000

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**Section 5. Budget**

**FY99 budget by line item**

Item	Note	FY98
Personnel	To write & administer contracts	\$5,000
Fringe benefits		
Supplies, materials, non-expendable property	Riparian vegetation	\$10,000
Operations & maintenance	Contract costs	\$8,000
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		
Indirect costs		
Subcontracts		
Other		
<b>TOTAL</b>		<b>\$ 0</b>

**Outyear costs**

Outyear costs	FY99	FY00	FY01	FY02
Total budget	\$5,000			

O&M as % of total				
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## Section 6. Abstract

- a. Bank stability, sedimentation, riparian shading, and hardwood components associated with riparian areas.
- b. Increase bank stability and provide additional shading to control water temperatures.
- c. Not sure.
- d. Root stock will be planted within the wetted width of the stream channel. The District has done this in the past with greater than 60% survival rate after two years.
- e. Within 5 years the streams that are planted will have diverse hard wood communities.
- f. Stocking surveys will be completed on portions of the planting each year for the following five years.

## Section 7. Project description

### a. Technical and/or scientific background.

The Trout and Bear Creek Watershed analyzes identified hydrological and fisheries concerns as the highest priority in the watersheds. The timing of water flows and temperatures associated with the water are critical to local and anadromous fisheries resources. The watershed analyzes identified stream shading and bank stability as two critical components effecting fisheries habitat in these watersheds.

### b. Proposal objectives.

Plant 12 miles of riparian hard woods - complete by fall of 2000  
 Plant 30 acres of aspen root cuttings - complete by fall of 1999

### c. Rationale and significance to Regional Programs.

This project will reduce sedimentation and water temperatures as well as improve wildlife habitats in the head-water drainages of two key watersheds that flow into the Deschutes River. The Trout Creek Timber sale was reviewed by the OR Govenors scientific review pannel.

### d. Project history

In the early 1990's the Trout and Bear Creek Watersheds had large amounts of western spruce budworm mortality. This associated with historic over grazing and extensive logging reduced the amount of solar radiation reaching the streams. These activities also increased the amount of bank cutting and head cutting.

### e. Methods.

Local native seed has been collected on the Ochoco National Forest for the last several years. This seed is then planted once it reaches the point where it can be planted as root stock. Through out year planning this seed is replenished yearly through seed collection contracts. The riparian planting efforts are then combined with other planting contracts on the District to cut costs down.

**f. Facilities and equipment.**

This project will utilize contract to accomplish work activities. The Bend nursery will grow the seed and produce the root stock. The Prineville Ranger District tree cooler will be used to store the trees during the planting contract.

**g. References.**

Prineville Ranger District ID team. 1994 Bear Creek Preliminary Watershed Analysis, on file at the Prineville Ranger District, P.O. Box 490, Prineville, OR 97754 (541) 416-6500. Jerry Cordova - contact..

Prineville Ranger District ID team. 1995 Trout Creek Watershed Analysis, on file at the Prineville Ranger District, P.O. Box 490, Prineville, OR 97754 (541) 416-6500. Jerry Cordova - contact

## **Section 8. Relationships to other projects**

See other descriptions for other collaborative projects not funded by FWP.

## **Section 9. Key personnel**

Program manager: Monte Kuk will coordinate contract work and field implementation of the project. Wildlife biologist for the Forest Service for 11 years with a B.S. in wildlife biology.

Jerry Cordova will provide technical support for project design of closures and recontouring efforts. Fisheries biologist for the Forest Service for 10 years with a B.S. and M.S. in fisheries science.

Jim Seymour will provide technical support for monitoring of the ISCO water quality monitoring devices. Hydrologist for the Forest Service for 15 years. B.S. in hydrology.

## **Section 10. Information/technology transfer**

A completion report will be completed along with monitoring report. These reports will be submitted to the associated partners and will be incorporated into a monitoring package

for the Trout Creek Timber sale that is being distributed to ODF&W, F&WS, OR Trout, and a number of other groups.