

# NE OREGON OUTPLANTING FACILITY MASTER PLAN

8805301

## SHORT DESCRIPTION:

Develop the Imnaha and Grande Ronde Master Plans covering production, supplementation, genetics, etc. Develop facility designs and costs with schedule for implementation.

## SPONSOR/CONTRACTOR: NPT

Nez Perce Tribe

R. Ed Larson or Becky Ashe, Director, Production Services or Project Leader

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## SUB-CONTRACTORS:

ODFW; S.P. Cramer & Associates, Inc.; Phillip R. Mundy, Fisheries and Aquatic Sciences; Roy Sampsel, Sampsel Consulting Services; NPT Cultural Resources Dept.

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## GOALS

### GENERAL:

Supports a healthy Columbia basin, Maintains biological diversity, Maintains genetic integrity, Increases run sizes or populations, Adaptive management (research or M&E), Program coordination or planning

### ANADROMOUS FISH:

Production

### NPPC PROGRAM MEASURE:

7.4L.1

### RELATION TO MEASURE:

This project is developing the master plan for artificial production facilities to raise chinook salmon, coho salmon, and sockeye for enhancement of the Grande Ronde and Imnaha rivers.

### OTHER PLANNING DOCUMENTS:

National Marine Fisheries Service Snake River Recovery Plan, Section ?; Wy Kan Ush Me Wa Kush Wit, Volume II, Grande Ronde River (page 113-117) and Imnaha River (128-131) subbasin plans

### TARGET STOCK

Wallowa River sockeye salmon

Wallowa River coho salmon

Wallowa River summer chinook

Imnaha River fall chinook

Lower Grande Ronde fall chinook

Imnaha River summer chinook

Bear Creek spring chinook

Hurricane Creek spring chinook

Lostine River spring chinook

### LIFE STAGE

Adult, egg, fry, parr, smolt

### MGMT CODE (see below)

E,S

E,S

E,S

L,S,W

L,S,W

L, S,W

L, S,W

L, S,W

L, S,W

### AFFECTED STOCK

Carniverous wildlife

Bull trout

### BENEFIT OR DETRIMENT

Beneficial

Beneficial

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## BACKGROUND

### Subbasin:

Imnaha Grande Ronde

### Stream miles affected:

All

### Land ownership:

Public and private

**HISTORY:**

This project was initiated as one of the Northeast Oregon Hatchery Projects to improve fish production in the Grande Ronde and Imnaha subbasins via hatchery and weir development.. The project was started in response to the Council's objective of doubling the numbers of salmonids in the system. Project development was stalled by ESA listing. Project was restarted in 1996.

**PROJECT REPORTS AND PAPERS:**

Northeast Oregon Salmon and Steelhead Draft Master Plan, Imnaha River, Larson, March 1990. Northeast Oregon Salmon and Steelhead Draft Master Plan, Grande Ronde River, Bryson, March 1990. Feasibility for Reintroducing Sockeye & Coho Salmon in the Grande Ronde River and Coho and Chum in the Walla Walla River, S.P. Cramer, November 1990. Draft Siting Report for Northeast Oregon Hatchery Project, Montgomery Watson, February 1992. Draft Conceptual Design Report for Northeast Oregon Hatchery Project, Montgomery Watson, October 1992. Preliminary Report of Test Well Drilling Northeast Oregon Project, Montgomery Watson, October 1992. Genetic Risk Assessment of the Imnaha Master Plan, S.P. Cramer, December 1993. Genetic Risk Assessment of the Grande Ronde River Master Plan, S.P. Cramer, December 1994. Northeast Oregon Hatchery Project Grande Ronde River Master Plan Final Report, Bryson, NPT, January 1993.

**ADAPTIVE MANAGEMENT IMPLICATIONS:**

The goal of this project is to recover stocks of listed Snake River chinook using supplementation facilities designed to produce as close to a "natural" fish as possible. Releases will be made at all life stages. If success is realized in this project the methodology can be used in other Snake River subbasins to recover listed/threatened salmon species.

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**PURPOSE AND METHODS**

**SPECIFIC MEASUREABLE OBJECTIVES:**

Upward trend in spawning ground counts. Increased outmigration of wild smolts.

**CRITICAL UNCERTAINTIES:**

Bureaucratic process cannot be activated in a timely manner to provide facilities for hatchery production as needed to prevent extinction of listed stocks.

**BIOLOGICAL NEED:**

Rapid recovery of weak populations, 2-4 generations (8-16 years), to population sizes supporting ESA delisting. Prevent loss of biodiversity and inbreeding depression due to small population size. Develop population sizes capable of sustaining Tribal and Non-Tribal Harvests.

**HYPOTHESIS TO BE TESTED:**

Local supplementation facilities will improve returns of ESA listed salmon species and stocks.

**METHODS:**

Supplementation using one or more of the following products; adults, gametes, eggs, fry, parr, presmolt, smolts, captive broodstock. The priority is to rear and release smolts from a local facility. Lostine captive broodstock began in 1995 with collection of 500 juvenile chinook under LSRCP. In 1997 conventional production for this stock should be initiated.

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**PLANNED ACTIVITIES**

**SCHEDULE:**

<u>Implementation Phase</u>	<u>Start</u> 2001	<u>End</u> 2001	<u>Subcontractor</u>
<u>Task</u>	Lostine adult return response to conventional production.		



**RELATIONSHIPS**

**RELATED BPA PROJECT**

**RELATIONSHIP**

9405500 BPA Engineering support for NEOH	
9305300 BPA Engineering support for NEOH	
9208500 BPA lands support for NEOH	Engineering support
8909700 ODFW - Evaluation of steelhead supplementation Imnaha River	M&E of steelhead in Imnaha River
9504000 BPA support from real estate	Real estate support
9503700 BPA support from facilities design	Facilities design support
9002200 BPA Engineering support for NEOH	Engineering support
Grande Ronde River Monitoring and Evaluation - ODFW	M&E of anadromous fish stocks in the Grande Ronde subbasin
9403900 Wallowa Basin Project Planning	Habitat protection/restoration of tributaries in the subbasin
5520900 Wallowa County/NPT Salmon Habitat Recovery Plan Implementation	Habitat protection/restoration of tributaries in the subbasin
9402700 Grande Ronde Model Watershed Project	Habitat protection/restoration of tributaries in the subbasin
8805305 NEOH - Oregon Department of Fish and Wildlife	Coordination and planning of the NE Oregon Hatchery Master Plan
8805302 NEOH - Confederated Tribes of the Umatilla Reservation	Coordination of the NE Oregon Hatchery Master Plan
LSRCP, ODFW, USFWS, NPT: 1995 -96 Captive Broodstock Program NPPC #74D	The acclimation and release facilities for the captive brood program will also be used by the NE Oregon Hatchery Project

**RELATED NON-BPA PROJECT**

**RELATIONSHIP**

Lostine IFIM Study - BOR	Habitat evaluation and use
Bear Creek Low Flow Channel/ BOR, OWHP, NPT	Habitat quality
LSRCP, ODFW, USFWS, Lookingglass Hatchery Production Imnaha summer chinook.	Production of spring chinook for release in the Imnaha and Grande Ronde rivers

**OPPORTUNITIES FOR COOPERATION:**

Opportunity to integrate LSRCP and NEOH production in the Grande Ronde and Imnaha subbasins. This is a coordinated project between ODFW, CTUIR, and NPT with the NPT as the lead agency and writer of the Master Plan. There will also be coordination with Wallowa County and private landowners within the county. Acclimation and rearing facilities currently being constructed under the captive brood project will also be used by this project. Production and the use of production facilities in the Imnaha and Grande Ronde rivers will be coordinated between ODFW, CTUIR and the NPT.

**COSTS AND FTE**

**1997 Planned:** \$100,000  
**1997 Planned:** \$0

**FUTURE FUNDING NEEDS:**

**PAST OBLIGATIONS (incl. 1997 if done):**

<u>FY</u>	<u>\$ NEED</u>	<u>% PLAN</u>	<u>% IMPLEMENT</u>	<u>% O AND M</u>	<u>FY</u>	<u>OBLIGATED</u>
1998	\$3,000,000	40%	40%	20%	1989	\$82,991
1999	\$4,000,000	30%	50%	20%	1990	\$292,719
2000	\$3,000,000	20%	50%	30%	1991	\$108,695
2001	\$2,000,000	10%	40%	50%	1992	\$146,363
					1993	\$242,701
					1996	\$358,981

TOTAL: \$1,232,450

Note: Data are past obligations, or amounts committed by year, not amounts billed. Does not include data for related projects.

**OTHER NON-FINANCIAL SUPPORTERS:**

Wallowa County

**LONGER TERM COSTS:** Approximately \$800,000 annually (plus inflation) for operation and maintenance

**1997 OVERHEAD PERCENT:** 29.5

**HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:**

Total direct project costs with the exception of capital equipment and subcontracts.

**CONTRACTOR FTE:** 3 FTE's

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