

KALISPEL-PEND OREILLE WETLANDS

9106001

SHORT DESCRIPTION:

Protect, mitigate, & enhance 164 acres of wetlands and riparian habitat along the Pend Oreille River to benefit habitats and target species associated with Albeni Falls Dam losses.

SPONSOR/CONTRACTOR: Kalispel Tribe

Kalispel Tribe of Indians
Ray Entz, Wildlife Biologist
Usk, WA 99180
509/445-1147

SUB-CONTRACTORS:

N/A

osterman@povn.com

GOALS

GENERAL:

Supports a healthy Columbia basin, Maintains biological diversity, Provides needed habitat protection

WILDLIFE:

Planning/coordination, Habitat, O&M

NPPC PROGRAM MEASURE:

No data

RELATION TO MEASURE:

This project provides Habitat Unit or wildlife credits to the Bonneville Power Administration for losses associated with the construction of Albeni Falls Dam. The crediting is based upon priority habitats and species identified in the Council's Program in Section 11-4 for the Upper Columbia Basin.

BIOLOGICAL OPINION ID:

N/A

TARGET STOCK

LIFE STAGE

MGMT CODE (see below)

White-tailed deer - deciduous shrub
Canada Goose - wetland/shoreline
Black-capped Chickadee - riparian deciduous forest
Yellow Warbler - Scrub-shrub wetland
Bald Eagle (wintering) - riparian forest
Mallard Duck -emergent wetland
Muskrat - emergent wetland
White-tailed deer - deciduous shrub
Mallard Duck -emergent wetland
Canada Goose - wetland/shoreline
Black-capped Chickadee - riparian deciduous forest
Yellow Warbler - Scrub-shrub wetland
Bald Eagle (wintering) - riparian forest
Bald Eagle (breeding) - riparian forest
Muskrat - emergent wetland
Bald Eagle (breeding) - riparian forest

AFFECTED STOCK

BENEFIT OR DETRIMENT

Breeding neo-tropical migrants
Small mammals

Beneficial
Beneficial

BACKGROUND

STREAM AREA AFFECTED

Stream name:

Pend Oreille River

Stream miles affected:

1.25

Hydro project mitigated:

Albeni Falls Dam

LAND AREA INFORMATION

Subbasin:

Upper Columbia

Land ownership:

Tribal Trust

Acres affected:

487

Habitat types:

Mixed coniferous deciduous forest; scrub-shrub wetland; open water wetland; emergent wetland - cattail/bullrush; open field - tall grass; riparian black cottonwood forest; shoreline brood rearing habitat; ephemeral wetlands -shorebird habitat.

HISTORY:

Property is to be purchased by the Tribe with BPA funds in 1997; Interim management agreement and baseline data will be collected in 1997; Habitat restoration and enhancement efforts will begin in 1997 and is ongoing.

BIOLOGICAL RESULTS ACHIEVED:

Approximately 200 habitat Units protected by property purchase; ~ 100 Habitat Units to be credited due to enhancements.

PROJECT REPORTS AND PAPERS:

Merker, C.R. 1990. Kalispel Tribe of Indians Wildlife Mitigation and Restoration for Albeni Falls Dam: Flying Goose Ranch Phase I. BPA Technical Report. Quarterly progress reports and related documents

ADAPTIVE MANAGEMENT IMPLICATIONS:

Implementation of restoration projects is in a step wise manner allowing adaptive management principles to be utilized to provide cost effective management of the project.

PURPOSE AND METHODS

SPECIFIC MEASUREABLE OBJECTIVES:

Habitat Units for each target species will be enumerated throughout the project. Crediting for BPA will be awarded at approximately 200 H.U.'s for protection and a minimum of ~100 H.U.'s for enhancements. Actual numbers will be determined in year one of management (1997).

CRITICAL UNCERTAINTIES:

Funding availability and in-kind habitat for future mitigation opportunities.

BIOLOGICAL NEED:

To protect, mitigate, and enhance high priority habitats in the NPPC program, Section 11, Table 11-4, for Albeni Falls Dam.

HYPOTHESIS TO BE TESTED:

N/A this is not a research project.

ALTERNATIVE APPROACHES:

N/A This project was identified by the CBFWA Wildlife work group as a high priority project.

JUSTIFICATION FOR PLANNING:

N/A This is not a planning project, although there is a small portion of work efforts necessary to establishing management strategies for the project.

METHODS:

Weed Control - EPA approved chemicals applied by a licensed operator and mechanical removal. Perch Tree - Thinning techniques in upland areas to improve stand heights. Reforestation in riparian areas. Tree Density and Riparian - planting hardwoods in riparian areas to increase stems/acre from ~ 100 to ~ 900. Shrub Swamp - Planting native species to increase acres of habitat type. Wetlands - Water control structures placed along existing dike will inundate ~89 additional surface acres. Pasture - Hay and burn grasses in fall to manage pasture for winter use by waterfowl.

PLANNED ACTIVITIES

SCHEDULE:

Planning Phase	Start 1997	End 1997	Subcontractor
Task 1997 inventory habitat and species on project, complete initial HEP.			
Implementation Phase	Start 1997	End 2002	Subcontractor Maybe
Task 1997 weed control and tree density improvements. 1998-2002 - Continue to follow brown book management plan and complete implementation of project.			
O&M Phase	Start 2003	End ongoing	Subcontractor possible
Task Maintain existing infrastructure			

PROJECT COMPLETION DATE:

2002 for implementation; O & M is ongoing

CONSTRAINTS OR FACTORS THAT MAY CAUSE SCHEDULE OR BUDGET CHANGES:

No known risks exist for this project.

OUTCOMES, MONITORING AND EVALUATION

SUMMARY OF EXPECTED OUTCOMES

Expected performance of target population or quality change in land area affected:

Fully expect that at least 300 H.U.'s will be credited to BPA for Albeni Falls Dam.

Present utilization and conservation potential of target population or area:

The project area is presently utilized by all target species including breeding Bald Eagles. There is a nesting pair of Bald Eagles directly across the river from the project (1/2 mile) and an abandoned nest on the project.

Assumed historic status of utilization and conservation potential:

It is assumed that the area was historically utilized by all of the target species as it is presently being used. Therefore, the conservation potential is assumed to be high for the project with implementation of habitat objectives.

Long term expected utilization and conservation potential for target population or habitat:

Due to the size of the project and its connection to public, tribal, and mitigation lands, it is assumed that the long term viability of the projects habitats will provide benefits to target species.

Contribution toward long-term goal:

Enhancement of riparian/wetland wildlife species and associated habitats.

Indirect biological or environmental changes:

Unknown at this time.

Physical products:

164 acres to be acquired; approximately 200 baseline H.U.'s protected; at least ~100 H.U.'s to be enhanced; two miles of perimeter fence.

Environmental attributes affected by the project:

Elimination of negative human associated uses; re-vegetated shorelines and riparian areas; increased nesting habitat for waterfowl; increased breeding areas for target species; protected further erosion of shorelines.

Changes assumed or expected for affected environmental attributes:

Same as above with increasing quantities.

Measure of attribute changes:

The project will produce approximately 300 Habitat Units.

Assessment of effects on project outcomes of critical uncertainty:

The project outcomes will be measured using Habitat Evaluation Procedures for each of the seven target species and various peer accepted techniques as required.

Information products:

The project will produce primarily quarterly progress reports. An adapted management, M & E and O& M plan will be produced by 2002.

Coordination outcomes:

Coordination for the project has resulted in secured implementation funding, completed NEPA process, published management plan, and adaptive management of the project.

MONITORING APPROACH

Habitat Evaluation Procedures should be used to measure the specific crediting to be issued for the project upon completion and into the future.

Provisions to monitor population status or habitat quality:

Monitoring and evaluation for this project is habitat evaluation procedure, vegetation inventories, species sampling, waterfowl pair counts, and observations.

Data analysis and evaluation:

Project information will be analyzed by comparing subsequent years data against the baseline year.

Information feed back to management decisions:

Project information will be used to identify success of each technique. As techniques succeed or fail, we will use that information along with new peer generated information to adaptively manage the project to benefit target species and habitats as well as considering cost effectiveness.

Critical uncertainties affecting project's outcomes:

N/A No true critical uncertainties exist for the project.

EVALUATION

By using the habitat evaluation procedure the region can positively identify this projects contribution and performance.

Incorporating new information regarding uncertainties:

Using adaptive management techniques, we will identify project needs for meeting the goals of the project. As new information becomes available, we will incorporate it into the management of the project.

Increasing public awareness of F&W activities:

By providing interpretive signs and information to local media, we have informed the public of the Kalispel Tribe's efforts within the NPPC's Program using BPA resources.

RELATIONSHIPS

RELATED BPA PROJECT

5522300 Box Canyon Watershed Project

9500100 Kalispel Tribe Resident Fish

9106000 Kalispel-pend Oreille Wetlands

RELATIONSHIP

Box Canyon Watershed Project: this area is to be included in watershed activities as it is associated with this project.

Kalispel Resident Fish project: the sloughs & homesite area will be used to house the bass rearing areas and production facilities, respectively.

Pend Oreille Wetlands - Kalispel; the extension project will be incorporated into this project to minimize paperwork and costs.

RELATED NON-BPA PROJECT

Kalispel waterfowl management unit

Campbell Slough wetland project/Colville National Forest, Newport District

RELATIONSHIP

Reservation project with similar habitat and population enhancement goals.

Adjacent property with similar management goals

OPPORTUNITIES FOR COOPERATION:

Opportunities exist to establish cooperative projects within the project.

COSTS AND FTE

1996 Unobligated: \$200,000

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>
1998		1%	89%	10%
TBD				
1999		1%	89%	10%
2000		1%	89%	10%
2001		1%	89%	10%
2002		1%	0%	99%

OTHER NON-FINANCIAL SUPPORTERS:

Pend Oreille County, Pend Oreille Conservation District, natural Resource Conservation Service, United States Forest Service.

LONGER TERM COSTS: The project will incur O & M costs at approximately \$8,000/year adjusted for inflation.

1997 OVERHEAD PERCENT: 28.1%

HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:

[Overhead % not provided so BPA appended older data.] This percentage applies to the direct costs minus capital equipment and contracted services.

SUBCONTRACTOR FTE: N/A
