



U.S. Fish & Wildlife Service

Fisheries Information System

Project:

WNTI McDermitt Creek Fish Migration Barrier to Protect a LCT Population in McDermitt Creek Subbasin

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Title/Owner

Title: A-048 - WNTI McDermitt Creek Fish Migration Barrier to Protect a LCT Population in McDermitt Creek Subbasin

Owner: Lahontan National Fish Hatchery

710 HIGHWAY 395
GARDNERVILLE, NV 89410
phone: (775) 265-2425
fax: (775) 265-3004

Project details

Keyword: Fish Passage

The importance to the Resource:

The McDermitt Creek watershed metapopulation will provide approximately 54 miles of interconnected stream habitat without nonnative trout species. Research shows that metapopulations are necessary to LCT persistence and recovery.

The problem:

Nonnative trout negatively impact LCT through competition, predation and hybridization. Without the permanent, long-term barrier nonnative trout would be able to access this metapopulation which would severely affect recovery of LCT in the Northwest DPS.

The objective:

The long-term barrier is critical to the long-term success of the restoration and recovery efforts ongoing in the McDermitt watershed. Without the long-term, permanent barrier nonnative trout from the Quinn River will reinvade the watershed and seriously impacting LCT recovery efforts.

The method:

The long-term, permanent barrier will be designed and constructed as a velocity barrier which will provide average water velocities over the structure greater than the target nonnative trout's burst swimming speed. The barrier will also pass the high-volume flood flows.

Additional information:

Additional Criteria

The anticipated year project construction will start - June 2009

Anticipated year it will be completed - June 2009

Whether or not the necessary permits have been obtained? No*

Is ongoing project operations and maintenance required ? Yes

Is the project eligible for other fund sources? Yes

Is the project a priority (need) in a Plan? Yes

State: Nevada Closest Town: McDermitt
Lat: 41.9693N Long: 117.8362W

Partner Info

Is the project confirmed as a State priority? Yes

Contact Information

Who's the project applicant? Allen Taylor, USFWS-Ecological Services, Reno, NV
The project manager (if different entity from applicant)?NA
The Landowner (if different entity)? BLM

*All permitting requirements will be completed Fall 2008.

ARRA Project ID: R8UB

Project Lead Contact Info:

Name: Stephanie Byers
Phone#: 775-861-6329
Email: stephanie_byers@fws.gov

Partners & friends groups

- Bureau of Land Management
- Bureau of Land Management, Vale District
- Bureau of Land Management, Winnemucca District
- Nevada Department Of Wildlife
- Oregon Department of Fish and Wildlife
- U. S. Forest Service
- Western Native Trout Initiative

Strategic plan objectives

Primary

Recover fish and other aquatic resource populations protected under the Endangered Species Act.

Secondary

None specified

Species / populations

Primary Species/Population Benefited:

- Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*)

Secondary Species/Populations Benefited:

None specified

Nuisance Species Managed:

None specified

Congressional districts benefited

Affected project congressional districts:

NV02

OR02

Affected project states:

- Nevada
- Oregon

Accomplishment summary

FY2010: The final barrier for the McDermitt Creek subbasin was completed this year. The barrier protects roughly 54 miles of inter-connected LCT habitat in the subbasin making this the largest intact metapopulation within the Northwest DPS. Actions for this project will now focus on reintroducing LCT throughout the metapopulation and removing the temporary barriers that allowed the treatments to occur.

FY2009: Efforts to prevent nonnative trout present in the Quinn River from accessing roughly 54 miles of connected LCT habitat in the McDermitt Creek subbasin, the largest metapopulation within the Northwest DPS are needed. A barrier is critical to the success of the efforts to remove nonnative trout. WNTI funds have been obtained to complete barrier design work to construct a barrier that passes high-volume flood flows and provides a water velocity barrier as well. Construction funds are needed.

Targets

2010 targets

This project has not yet specified any targets this fiscal year

Performance measures

2010 performance measures

Total number of in-stream/shoreline miles restored in U.S.	54.0
Number of Recovery Plan tasks implemented by the Fisheries Program-H	1

Funding

Code	2009	2010
1334 - Habitat Assessment and Restoration	\$0	\$62000
4154 - ARRA-NFHAP	\$0	\$157000
Total Service:	\$0	\$219000

Partner	M	IK	M	IK
Bureau of Land Management, Vale District	\$0	\$35000	\$0	\$0
Bureau of Land Management, Winnemucca District	\$0	\$15000	\$0	\$0
Total Partners:	\$0	\$50000	\$0	\$0

Total Overall: **\$50000** **\$219000**

2010 Plan / task work

Plan #1: Lahontan Cutthroat Trout Recovery Plan [view]

Type: Recovery Plan

Plan #1 tasks addressed by this project:

- ♦ **Number:** 151 [[log history](#)]
Type: Other
Work History: 2010Worked on
Manage LCT populations within the Northwest DPS (Quinn River/Black Rock Desert basin)

Pictures



Caption:

Final velocity barrier for McDermitt Creek

Credit:

Stephanie Kilburn, Otis Bay, Inc.

Description:

The final velocity barrier for the McDermitt Creek subbasin that protects the largest intact metapopulation in the Northwest DPS for LCT. It is 54 stream miles of inter-connected habitat.



Caption:

Final velocity barrier for McDermitt Creek

Credit:

Stephanie Kilburn, Otis Bay, Inc.

Description:

The final velocity barrier for McDermitt Creek under construction.



Caption:

Proposed site of the long-term barrier

Credit:

Allen Taylor, USFWS

Description:

Proposed site location of the long-term permanent barrier to protect the largest metapopulation within the Northwest Distinct Population Segment for Lahontan cutthroat trout.

FONS Funding History

FONS funding events are associated with this project:

- In fiscal year 2009, operational need 2008-035 WNTI McDermitt Creek Fish Migration Barrier to Protect a LCT Population in McDermitt Creek Subbasin was **fully** funded at the president's budget (Greenbook) amount of **\$0** and the allocation to region amount of **\$0**.

At that time, this accomplishment project was created in the Accomplishment's module.