

22330-2006-001 - [Gila trout restoration in the West Fork Mogollon Creek per WNTI management priorities](#)

Proposed Accomplishment Summary:

Increase the occupied range of Gila trout by 6 miles, increase public angling opportunities in the Gila Wilderness, support de-listing criteria identified in Recovery Plan, and support continued development of partnerships between US Forest Service and NM Department of Game and Fish, through WNTI.

The importance to the Resource:

Protection and range expansion of the South Diamond lineage replicated elsewhere in the Mogollon Creek drainage.

The problem:

Limited distribution of South Diamond lineage caused by nonnative salmonid introductions and wildfire impacts.

The objective:

The West Fork Mogollon Creek will provide an additional 6 miles of stream habitat for South Diamond lineage Gila trout and has a low possibility of impacts or loss from high severity fire due to recent fire history if nonnative salmonids are removed.

The method:

Stream habitats will be treated with piscicide to remove nonnative salmonids. After successful completion South Diamond lineage Gila trout and native speckled dace will be introduced.

Further description:

The upper portion of Mogollon Creek supports a replicated population of the relict South Diamond lineage. Re-establishment of Gila trout within the West Fork Mogollon Creek will provide for a metapopulation of South Diamond lineage Gila trout and increase security of this lineage. This project will remove nonnative salmonids from the West Fork Mogollon Creek, total of 6 stream miles. Once removal of nonnative salmonids is complete, Gila trout and native speckled dace will be reintroduced.

Fund	Totals
Totals	\$109,800

Estimated length: 3

Partner	Matching	In Kind
New Mexico Department of Game and Fish	\$25,000	\$0
Trout Unlimited	\$0	\$0
U. S. Forest Service	\$30,000	\$0
Total:	\$55,000	\$0

TOTAL Partner + FWS across all years: \$164,800

Plan #1: Gila Trout Recovery Plan

Plan #1 tasks to be worked on by this project:

Number: 1.2

Type: Science & Technology Development

Number: 1.3

Type: Science & Technology Development

Number: 2.3

Type: Stocking: Post Stocking Survival

Number: 2.4

Type: Other

Number: 3.2

Type: Science & Technology Development

Number: 4

Type: ANS

Measure	Totals
Number of population assessments completed	5.0
7.1.16 Number of habitat assessments completed	1.0
Number of miles of in-stream habitat assessed	6.0
13.1A.4 Number of fish and aquatic animal	2.0

This is a multi-year project in which environmental compliance will be obtained in year 1, piscicide application year 2, and stocking year 3. This project satisfies the WNTI Joint Venture's goal of building, funding, and implementing collaborative conservation efforts. This is consistent with the Service's Fisheries Program Vision for the Future and the NFHI. It has been ranked as highest priority by New Mexico Department of Game and Fish. Nonnative salmonids have caused the extirpation of and continue to threaten Gila trout populations through hybridization, competition, and predation.

Primary Species/Population Benefited:

Gila trout ([Oncorhynchus gilae](#))

Secondary Species/Populations Benefited:

Speckled dace ([Rhinichthys osculus](#))

Nuisance Species Managed:

Brown trout ([Salmo trutta](#))

	populations that are held in refugia	
13.1A.5.1	Number of applied science and technology tasks implemented as prescribed by Recovery Plans. (PART)	1.0
	Number of miles of riparian habitat assessed	6.0
	Number of instream miles enhanced	6.0
13.1A.6.1	Number of post-stocking survival tasks met, as prescribed by Recovery plans for hatchery propagated listed species. (PART)	1.0
7.3.3.1	number of marking and tagging targets met, as prescribed by Fishery management plans. (PART)	1.0