

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

FY 2024-25 SCOPE OF WORK

PROJECT: 29c

Project Title

Wahweap State Fish Hatchery Operation and Maintenance

Bureau of Reclamation Agreement Number:

TBD

Reclamation Agreement Term

TBD

Note: Recovery Program FY22-23 scopes of work are drafted in May 2021. They often are revised before final Program approval and may subsequently be revised again in response to changing Program needs. Program participants also recognize the need and allow for some flexibility in scopes of work to accommodate new information (especially in nonnative fish management projects) and changing hydrological conditions.

Lead Agency:

Utah Division of Wildlife Resources

Principal Investigator:

Jared Smith, Wahweap Hatchery Superintendent
Utah Division of Wildlife Resources (UDWR)
Wahweap Warmwater Hatchery
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Category:

- Ongoing project
- Ongoing-revised project
- Requested new project
- Unsolicited proposal

Expected Funding Source:

- Annual funds
- Capital funds
- Other [explain]

Relationship to RIPRAP:

General Recovery Program Support Action Plan

- IV Manage genetic integrity and augment or restore populations (stocking endangered fishes)
- IV.A. Genetic management
- IV.A.4. Secure and manage the following species in hatcheries (according to the Genetics Management Plan)
- IV.A.4.a. Razorback sucker
- IV.A.4.b. Bonytail
- IV.B. Conduct annual fish propagation activities
- IV.B.2. Implement revised integrated stocking plan (Integrated Stocking Plan Revision)

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Committee 2015); supersedes all earlier stocking plans, including species-specific and individual basin plans.

IV.C. Operate and maintain facilities

IV.C.3. Wahweap

Green and Colorado River Action Plans: Mainstem

IV.A. Augment or restore populations as needed and as guided by the Genetics Management Plan.

IV.A.1. Develop augmentation plan for the four endangered fishes of the Green and Colorado River.

IV.A.1.c Implement Plan.

Study Background/Rationale and Hypotheses:

Wahweap's southern location, and relatively low elevation, create a longer season for growth to achieve recommended stocking lengths in a highly effective and efficient manner. Wahweap State Fish Hatchery rears bonytail to recommended size and maintains a refuge broodstock of razorback suckers.

Study Goals and Objectives:

Goal:

Assist in the recovery of endangered fishes of the Upper Colorado River, by following prescribed protocols for production of healthy fish for stocking in the basin.

Objectives:

Follow existing protocols to ensure efficiency and efficacy of a genetically sound propagation program for high priority fish species. Look for and implement methods to increase the overall fitness of cultured species. Annually, 11,000 bonytail will be reared, and upon meeting required stocking length, fish will be PIT tagged, treated for parasites, and stocked into prescribed locations in the Upper Colorado River basin. In addition, a razorback sucker refuge broodstock is kept and maintained for the program.

End Products:

1. Propagation technology and methodology
2. Raise a target of 11,000 bonytail for research and stocking
3. Maintain backup razorback brood populations for the Upper Colorado River Basin

Study Area:

UDWR Wahweap Warmwater Hatchery, Big Water, UT.

Study Methods/Approach:

Conduct all tasks associated with the husbandry, maintenance and stocking of fish as well as maintenance and operation of fish propagation facilities for endangered fishes.

Priority One: Raise bonytail for stocking to meet Utah's stocking plan and the Upper Colorado Recovery Stocking goals.

Priority Two: Maintain razorback sucker refuge broodstock for the Upper Colorado River Endangered Fish Recovery Program.

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Task Description, Deliverables and Schedule:

Tasks:

1. Facility Operation and Maintenance; raise bonytail, PIT-tag, stock, submit PIT tag data
2. Maintain backup razorback broodstock

FY 2024

Submit stocked fish PIT tag information to STREAMS upon completion.
Submit fish HCPs to the UCRRP upon completion.
Complete and submit annual reports to UDWR for review, prior to UCRRP submission.
Work on completion of BIL funding construction projects (i.e. Pond 1-9 rebuild, Electrical infrastructure project).
Facility operation and maintenance – Year round

FY 2025

Submit stocked fish PIT tag information to STREAMS upon completion.
Submit fish HCPs to the UCRRP upon completion.
Complete and submit annual reports to UDWR for review, prior to UCRRP submission.
Facility operation and maintenance – Year round

FY 2026

Submit stocked fish PIT tag information to STREAMS upon completion.
Submit fish HCPs to the UCRRP upon completion.
Complete and submit annual reports to UDWR for review, prior to UCRRP submission.
Facility operation and maintenance – Year round

FY 2027

Submit stocked fish PIT tag information to STREAMS upon completion.
Submit fish HCPs to the UCRRP upon completion.
Complete and submit annual reports to UDWR for review, prior to UCRRP submission.
Facility operation and maintenance – Year round

FY 2028

Submit stocked fish PIT tag information to STREAMS upon completion.
Submit fish HCPs to the UCRRP upon completion.
Complete and submit annual reports to UDWR for review, prior to UCRRP submission.
Facility operation and maintenance – Year round

Budget Summary:

FY Year	<i>USBR Funding</i>
2024	\$ 302,429.87
2025	\$ 308,063.83
2026	\$ 314,225.11
2027	\$ 320,509.61
2028	\$ 326,919.80
Total	\$ 1,572,148.21

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Reviewers:

UDWR Wahweap Warmwater Hatchery and Upper Colorado River Endangered Fish Recovery Program

References:

Upper Colorado River Endangered Fish Recovery Program - Integrated Stocking Plan Revision Committee. 2015. Revised Integrated Stocking Plan. Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	Utah Division of Wildlife Resources
Project Name:	Project 29c Wahweap State Fish Hatchery Operations & Maintenance

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL	
	10/1/2024		10/1/2025		10/2/2026		10/2/2027		10/1/2028			
	Through		Through		Through		Through		Through			
Enter the BEGINNING dates for each year ----->	9/30/2025		10/1/2026		10/1/2027		9/30/2028		9/30/2029			
Enter the ENDING dates for each year ----->	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL	
DIRECT LABOR AND FRINGE BENEFIT COSTS:												
Direct Labor - Hourly	\$	157,796.14	\$	160,952.06	\$	164,171.10	\$	167,454.53	\$	170,803.62	\$	821,177.45
Fringe Benefits - Hourly	\$	63,118.46	\$	64,380.83	\$	65,668.44	\$	66,981.81	\$	68,321.45	\$	328,470.98
Subtotal of Direct Labor & Fringe Benefits:	\$	220,914.60	\$	225,332.89	\$	229,839.55	\$	234,436.34	\$	239,125.06	\$	1,149,648.43
OTHER DIRECT COSTS:												
Materials and Supplies	\$	75,907.77	\$	77,425.92	\$	78,974.44	\$	80,553.93	\$	82,165.01	\$	395,027.07
Travel Costs	\$	5,607.50	\$	5,305.02	\$	5,411.12	\$	5,519.34	\$	5,629.73	\$	27,472.71
Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Contractors	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Subtotal of Other Direct Costs:	\$	81,515.27	\$	82,730.94	\$	84,385.56	\$	86,073.27	\$	87,794.74	\$	422,499.78
INDIRECT/OVERHEAD COSTS:												
Subtotal of Labor and Other Direct Costs:	\$	302,429.87	\$	308,063.83	\$	314,225.11	\$	320,509.61	\$	326,919.80	\$	1,572,148.21
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
<Enter Description of Indirect/OH Cost #1>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	-
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
<Enter Description of Indirect/OH Cost #2>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	-
Subtotal of Indirect/Overhead Costs:	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
GRAND TOTAL:	\$	302,429.87	\$	308,063.83	\$	314,225.11	\$	320,509.61	\$	326,919.80	\$	1,572,148.21