

**COLORADO RIVER RECOVERY PROGRAM
FY-2008 PROPOSED SCOPE OF WORK for:**

Project No: 29c

Wahweap State Fish Hatchery Operation and Maintenance

Lead Agency: Utah Division of Wildlife Resources

Submitted by: Quentin A. Bradwisch

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Category:

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

Expected Funding Source:

- Annual funds
 Capital funds
 Other (explain)

I. Title of Proposal: Wahweap State Fish Hatchery Operation and Maintenance

II. Relationship to RIPRAP:

General Recovery Program Support Action Plan

- IV. Manage genetic integrity and augment or restore populations
IV.A. Genetics Management
IV.A.4 Secure and manage genetic stocks in refugia
IV.A.4.a Razorback sucker
IV.A.4.b Middle Green River
IV.A.4.b Bonytail
IV.C. Operate and maintain facilities
IV.C.3 Wahweap State Fish Hatchery

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.

III. Background/Rationale and Hypotheses:

Wahweap State Fish Hatchery has demonstrated the ability to raise bonytail and razorback sucker to a tagable size in two growing seasons. High temperatures and longer growing season at Wahweap maximize growth and production of bonytail. This facility has demonstrated as good or better growth than all others in the basin.

VI. Study Goals, objectives, and End Product:

Goal: Contribute and assist with the recovery of the endangered fish species in the Upper Colorado River basin by rearing healthy fish for stocking in the basin.

Objectives: Operate a hatchery facility that supports a genetically sound propagation program for high priority endangered fish species for the RIP in the Upper Colorado River Basin in accordance with the Annual propagation Facilities Operation Plan and state stocking plans by holding and rearing endangered fish.

End Products:

- 1) Propagation technology and methodology
- 2) Bonytail for research and stocking
- 3) Maintain backup razorback brood populations for the Upper Colorado River Basin

V. Study area:

Wahweap Hatchery, Big Water UT.

VI. Study Methods and Approach:

Conduct all tasks associated with the operation and maintenance of propagation facilities for endangered fishes such as pond culture, marking fish, maintaining records of pedigreed family lots, etc. First priority for Wahweap in the 2008 fiscal year is to raise bonytail for stocking to meet Utah's stocking plan. The second priority is to maintain razorback sucker backup brood stock for the Upper Colorado River basin.

VII. Task Description and Schedule:

Tasks: Rear bonytail, mark, and stock. Maintain backup razorback sucker brood stock.

Schedule: 12 months

VIII. FY-2008 work

Budget

Labor/Personal::

Project Leader (\$36.52/h X 8h/d @ 10 d)	\$ 2,922
Project Biologist (\$28.38/h X 8h/d @ 200 d)	\$45,408
Biologist (\$28.38/h X 8h/d @ 20 d)	\$ 4,541
Wildlife Specialist (\$21.80 X 8h/d @ 200 d)	\$34,880
Technician (\$16.19/h X 8h/d @ 419 d)	<u>\$54,269</u>
	\$142,020

Operational Costs

Utilities	\$20,000
Fish food	\$ 2,500
Weed control	\$ 2,500
Maintenance	<u>\$38,282</u>
	\$63,282

Travel/training

10 day meetings for State of Utah	
20 days x \$30/day/meals	\$ 600
10 nights x \$65/night	\$ 650
Certified Public Manger Training	
24 days X \$30/day/meals	\$ 720
12 nights x \$65/night	\$ 780
Course cost	\$ 750
Stocking	
Pre diem \$30/day in state/10 days	\$ 300
5 nights/ \$65	\$ 325
Colorado River Water Users Convention	
Registration	\$ 300
Dues	\$ 75
per diem \$38/day out of state/5days	\$ 190
Lodging \$175 per night/4 nights	\$ 700
Utah Water Users Meeting	
Registration	\$ 100
per diem \$30/day instate/5days	\$ 150
Lodging \$112.5/night/4 nights	\$ 700
6 Recovery Program Meetings	
Per diem 18 days @ \$30/day	\$ 540
14 nights x \$65/night	<u>\$ 910</u>
	\$ 7,790

Vehicle expenses	
Daily rent \$5 x 652 days rent is paid (2.5 trucks)	\$ 3,260
\$.42/mile x 40 miles/day x 556 days (Estimated # of days the drive is take)\$	\$ 9,340
5 meetings in SLC \$.42 x 700 miles	\$ 1,470
Stocking Bonytail	
5 trips/ 700 mile/ \$.42	\$ 1,470
Colorado River Water Users Meeting	
600 miles/\$.42	\$ 252
5 BC/ Recovery meetings	
5 meeting/\$.42/600 miles	\$ 1,260
6 Regional Meetings/.42/300 miles	<u>\$ 756</u>
	\$ 17,808

TOTAL	\$230,900
Carry-over from FY07	<u>19,152</u>
Amount requested for FY08 (Federal)	\$211,748

FY-2009

Budget*	
Labor/Personal: Man day same as above	\$146,281
Operational costs	\$65,180
Travel/training	\$8,024
Vehicle	<u>\$18,342</u>
Total	\$237,827

IX Budget Summary

FY 2008	<u>\$211,748 (originally \$230,900 – \$19,152)</u>
FY 2009	<u>\$237,827*</u>
FY 2010	<u>\$244,962*</u>

* Includes a yearly 3% increase to adjust for inflation.