

**COLORADO RIVER RECOVERY PROGRAM
FY-2011 PROPOSED SCOPE OF WORK for:**

Project No: 29c

Wahweap State Fish Hatchery Operation and Maintenance

Lead Agency: Utah Division of Wildlife Resources

Submitted by: Zane C. Olsen

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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. Warm 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 UCRRIP 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 2011 fiscal years 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-2012 work

Budget

Labor/Personal:

Project Leader (\$36.52/h X 8h/d @ 8.66 d)	\$ 2,531
Project Biologist (\$28.38/h X 8h/d @ 173.23 d)	\$39,331
Biologist (\$28.38/h X 8h/d @ 17.32 d)	\$ 3,933
Wildlife Specialist (\$21.80 X 8h/d @ 173.23d)	\$30,212
Technician (\$16.19/h X 8h/d @ 362.93 d)	<u>\$47,007</u>
	\$123,014

Operational Costs	
Utilities	\$17,324
Fish food	\$ 2,165
Weed control	\$ 2,165
Maintenance	<u>\$33,159</u>
	\$54,813

Travel/Training

Meetings for State of Utah	
17.34 days x \$30/day/meals	\$ 520
8.67 nights x \$65/night	\$ 563
Certified Public Manger Training	
20.80 days X \$30/day/meals	\$ 624
10.4 nights x \$65/night	\$ 676
Course cost	\$ 650
Stocking	
Pre diem \$30/day in state/8.68 days	\$ 260
4.33 nights/ \$65	\$ 282
Colorado River Water Users Convention	
Registration	\$ 260
Dues	\$ 65
per diem \$38/day out of state/4.34 d	\$ 165
Lodging \$175 per night/3.46 nights	\$ 606
Utah Water Users Meeting	
Registration	\$ 87
per diem \$30/day instate/4.33days	\$ 130
Lodging \$112.5/night/5.39 nights	\$ 606
Recovery Program Meetings	
Per diem 15.6 days @ \$30/day	\$ 468
12.12 nights x \$65/night	<u>\$ 788</u>
	\$ 6,748

Vehicle expenses

Daily rent \$5 x 564.8 days rent is paid (2.5 trucks)	\$ 2,824
\$.42/mile x 40 miles/day x 481.55 days (Estimated # of days the drive is take)\$	\$ 8,090
4.33 meetings in SLC \$.42 x 700 miles	\$ 1,273
Stocking Bonytail	
5.11 trips/ 700 mile/ \$.42	\$ 1,273
Colorado River Water Users Meeting	
545 miles/\$.42	\$ 218
5 BC/ Recovery meetings	
4.33 meeting/\$.42/600 miles	\$ 1,091
5.20 Regional Meetings/ .42/300 miles	<u>\$ 655</u>
	\$ 15,425

TOTAL \$200,000

FY-2013

Budget*

Labor/Personal: Man day same as above \$123,022

Operational costs \$54,816

Travel/training \$6,737

Vehicle \$15,425

Total \$200,000

IX Budget Summary
FY 2012 \$200,000
FY 2013 \$200,000