

**COLORADO RIVER RECOVERY PROGRAM**  
**FY-2006/2007 PROPOSED SCOPE OF WORK for:**  
*Wahweap State Fish Hatchery Operation and Maintenance*

Project No: 29c

Lead Agency: Utah Division of Wildlife Resources

Submitted by: Quentin A. Bradwisch

Address: Wahweap State Fish Hatchery  
PO Box 410286  
Big Water, UT 84741

Telephone: (435) 675-3714

Email: [quentbradwisch@utah.gov](mailto:quentbradwisch@utah.gov)

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<u>Category:</u>	<u>Expected Funding Source:</u>
<input checked="" type="checkbox"/> Ongoing project	<input checked="" type="checkbox"/> Annual funds
<input type="checkbox"/> Ongoing-revised project	<input type="checkbox"/> Capital funds
<input type="checkbox"/> Requested new project	<input type="checkbox"/> Other (explain)
<input type="checkbox"/> Unsolicited proposal	

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 size appropriate for tagging 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 fiscal year 2006 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:

1. Grow bonytail to stocking size.
2. Harvest, PIT tag, and stock 10,660 8-inch bonytail into the Green and Colorado Rivers in the following amounts: middle Green River (2,665), lower Green River (5,330), and Colorado River RM 110.5 (2,665)
3. Maintain backup razorback sucker brood stock.

Schedule: 12 months

VIII. FY – 2006 work

Budget

Labor/Personal

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

Operational Costs

Utilities (communications, electricity, fuel, etc.)	\$ 20,000
Fish food	\$ 2,500
Weed control	\$ 2,500
Maintenance (contractual services, equipment rental, fencing materials, tools, etc.)	<u>\$ 25,000</u>
	\$ 50,000

Travel/training	\$ 7,767
Vehicle expenses	<u>\$ 17,813</u>

TOTAL \$217,600

FY – 2007

Budget

Labor/Personnel	\$146,281
Operational Costs	\$ 51,500
Travel/Training	\$ 8,000
Vehicle expenses	<u>\$ 18,347</u>
Total	\$224,128*

IX Budget Summary

FY 2006	<u>\$217,600</u>
FY 2007	<u>\$224,128*</u>
FY 2008	<u>\$230,852*</u> (estimate)

\* Includes a yearly 3% increase to adjust for increases in the cost of living.