

**COLORADO RIVER RECOVERY PROGRAM
FY-2001 PROPOSED SCOPE OF WORK for:
Wahweap Operation and Maintance**

Project No.: 29c/stk/91

Lead Agency: Utah Division of Wildlife Resources
Submitted by: Wayne Gustaveson and Matthew Andersen

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<u>Category:</u>	<u>Expected Funding Source:</u>
<input type="checkbox"/> Ongoing project	<input checked="" type="checkbox"/> Annual funds
<input checked="" 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 Operation and Maintenance

II. Relationship to RIPRAP

General Recovery Program Support Action Plan:

- IV. Manage genetic integrity and augment or restore populations
- IV.A. Genetic management
- IV.A.4. Secure and manage genetic stocks in refugia
- IV.A.4.a Razorback sucker
- IV.A.5. Develop basin wide bonytail restoration plan and implement as approved
- IV.C. Operate and maintain facilities

III. Study Background/Rationale and Hypotheses:

The Wahweap installation has demonstrated the ability to raise endangered fish to a tagable size in one growing season. High temperatures and a long growing season at Wahweap maximize growth and production of bonytail and razorback sucker. This facility has demonstrated as good or better growth than all others in the basin.

IV. Study Goals, Objectives, End Product:

Goal:

Operate 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.

_____ Objective:

Operate and maintain propagation facilities that are needed to hold and rear endangered fishes for the RIP in the Upper Colorado River Basin in accordance with the Annual Propagation Facilities Operation Plan.

End Products:

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

V. Study area:

Wahweap rearing installation is located near Big Water, UT, in an arroyo which is a tributary to Lake Powell. The entire Upper Colorado River Basin drains through Lake Powell.

VI. Study Methods/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. The first priority for Wahweap Hatchery is to raise bonytail for the reintroduction which began in FY96. The second is to serve as a growout facility for razorback sucker, and third, to maintain razorback sucker backup brood stock for the upper basin recovery program.

VII. Task Description and Schedule:

Tasks: Propagate, mark, and stock razorback sucker and bonytail.

Schedule: 12 months

VIII. FY-2001 Work (for multi-year study)

Budget Estimate:

Labor/Personnel	\$111,700
Operational Costs/Utilities (Includes hatchery maintenance, fish food, etc.)	\$ 41,000
Travel	\$ 2,200
Equipment	<u>\$ 5,500</u>
Total	\$160,400

FY-2002 Work

Budget Estimate:

Labor/Personnel	\$122,880
Operational Costs/Utilities (Includes hatchery maintenance, fish food, etc.)	\$ 45,000
Travel	\$ 2,420
Equipment	<u>\$ 6,050</u>
Total	\$176,350

FY-2003 Work

Budget Estimate:

Labor/Personnel	\$135,030
Operational Costs/Utilities (Includes hatchery maintenance, fish food, etc.)	\$ 49,450
Travel	\$ 2,660
Equipment	<u>\$ 6,650</u>
Total	\$193,790

IX. Budget Summary

FY-2001 \$160,409
FY-2002 \$176,350
FY-2003 \$193,790

X. Reviewers