

I. Project Title: Wahweap Operation and Maintenance

II. Bureau of Reclamation Agreement Number: R09AP40850

Project/Grant Period: Start date (Mo/Day/Yr): 10/01/2008  
End date: (Mo/Day/Yr): 9/30/2015  
Reporting period end date: 9/30/2013  
Is this the final report? Yes \_\_\_\_\_ No X

III. Principal Investigator(s):

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IV. Abstract:

Wahweap State Fish Hatchery, located at Big Water, Utah, rears bonytail for stocking in the Upper Colorado River Basin for the Upper Colorado River Endangered Fish Recovery Program (Recovery Program). Wahweap also maintains a refuge population of razorback sucker brood stock for the Recovery Program.

V. Study Schedule: On going

VI. 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.4	Develop basin wide bonytail restoration plan and implement as approved
IV.C.	Operate and maintain facilities

VII. Accomplishment of FY 2013 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

- Wahweap Hatchery staff assisted the Recovery Program in staffing the information booth at the Colorado River Water Users Association Annual Conference. Wahweap staff provided live bonytail for the display and took care of them for the duration of the meetings.

- Wahweap Hatchery personnel assisted the Bureau of Reclamation and National Park Service with a Native Fish Aquarium display at the Carl Haden Visitor Center at the Glen Canyon Dam. This tank displays razorback sucker and bonytail chub.
- Wahweap Hatchery tagged 15,673 bonytail with passive integrated transponder (PIT) tags for spring stocking 2014. Stocking locations have not yet been determined. These fish are as follows:
  1. 5,158 PIT-tagged for stocking location 1 (pond 26).
  2. 5,237 PIT-tagged for stocking location 2 (pond 27).
  3. 5,278 PIT tagged for stocking location 3 (pond 29).
 Note: Final size will be determined before stocking.
- Fish were also treated for Asian tape worm with praziquantel @ 2.5 mg/L for a 24-hour static bath before tagging and no worms were observed. Fish will again be treated before stocking for confirmation.
- Excess bonytail: Approximately 200,000 bonytail are considered excess and need to be moved out of Wahweap to reduce density and obtain required growth on remaining fish. Excess fish may go to folks in the lower basin and/or a pond in Grand Junction, CO.
- Wahweap used 60 bonytail (YOY 2010, 2011, 2012) for the yearly Fish Health Inspection. Fish over all were in great shape. During this year’s inspection we observed a very low infection of Asian tapeworm (*Bothriocephalus acheilognathi*). Infection across the hatchery is low and Wahweap is working closely with Dr. Chris Wilson (State of Utah Fish Pathologist) in developing a plan to eradicate this parasite from hatchery ponds. Until the eradication, Wahweap has been instructed to treat each individual pond as a different rearing unit. Wahweap will prophylactically treat all fish being stocked with praziquantel. Fish were given the Fish Health Approval number DWR13-101.
- Wahweap Hatchery will conduct Health Condition Profiles on all fish stocked in spring of 2014 prior to stocking.
- Reconstruction was completed on the “old well” located on Wahweap Hatchery property and the main water supply for fish production.

Colorado River fish remaining on the station in the fall of 2013:

Species	Year class	Number	Average Size	# Ponds
Bonytail	2010	42,597	221.60mm	9
Bonytail	2011	36,139	177.21mm	6
Bonytail (ww <sup>1</sup> )	2012	19,960	126.67mm	1
Bonytail (WW)	2013	123,167	65.43mm	1
Razorback	Brood	253	471.00mm	1
Razorback	Brood 1 (new)	675	279.53mm	1

<sup>1</sup>ww designates that these fish were produced at Wahweap

- VIII. Recommendations:  
Continue rearing bonytail at Wahweap to meet the stocking needs of the Recovery Program. Maintain razorback back-up brood stock. Supply either species as requested by the Recovery Program. PIT-tag bonytail in the fall and stock in the spring. Work on the eradication of Asian tapeworm from the Wahweap Hatchery rearing facility. Stock excess bonytail year classes 2012 and 2013 before March of 2014.
- IX. Project Status:  
Ongoing fish culture, propagation, and development at the Wahweap State Fish Hatchery.
- X. FY 2013 Budget Status
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|--|-----------|
| A. Funds Provided:                                       | \$200,000 |
| B. Funds Expended:                                       | \$200,000 |
| C. Difference:   | \$ 0.00   |
| D. Percent of the FY 2013 work completed:                | 100%      |
| E. Recovery Program funds spent for publication charges: | \$ 0.00   |
- XI. Status of Data Submission: PIT tag data submitted to database manager after spring stocking 2014.
- XII. Signed: Zane Olsen, Principal Investigator                      Date 10/23/2013