

I. Project Title: **Operation and Maintenance of J.W. Mumma Native Aquatic Species Restoration Facility - Colorado**

II. Principal Investigator(s):

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III. Project Summary:

The J. W. Mumma Native Aquatic Species Restoration Facility (NASRF), located at Alamosa, Colorado, currently is rearing bonytail for stocking in the Upper Colorado River Basin for Colorado and Colorado Pikeminnow for the San Juan, the Gunnison and the Colorado rivers.

IV. Study Schedule:

On going

V. Relationship to RIPRAP:

General Recovery Program Support Action Plan

IV.C. Operate and maintain facilities

IV.C.4. Mumma

IV Manage genetic integrity and augment or restore populations

Green River Action Plan: Mainstem

IV.A. Augment or restore populations as needed

IV.A.1. Develop state stocking plan for four endangered fishes of the Green River

IV.A.1.c. Implement plan

Green River Action Plan: Yampa and Little Snake rivers

- IV. Manage genetic integrity and augment or restore populations
- IV.A Yampa River in Dinosaur National Monument
- IV.A.1. Augment or restore populations as needed
- IV.A.1.a Develop state stocking plan for four endangered fishes of the Yampa River
- IV.A.1.a(1) Implement stocking plan

Colorado River Action Plan: Mainstem

- IV. Manage genetic integrity and augment or restore populations
- IV.A Augment or restore populations as needed
- IV.A.4. Develop State stocking plan for Colorado pikeminnow in the Colorado River
- IV.A.4.b. Implement Colorado pikeminnow State stocking plan
- IV.A.5. Develop State stocking plan for bonytail in the Colorado River
- IV.A.5.b. Implement bonytail State stocking plan

Colorado River Action Plan: Gunnison River

- IV. Manage genetic integrity and augment or restore populations
- IV.A Augment or restore populations as needed
- IV.A.2. Develop State stocking plan for Colorado pikeminnow in the Gunnison River
- IV.A.2.b. Implement Colorado pikeminnow State stocking plan

VI. Accomplishment of FY 2003 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

The Native Aquatic Species Restoration Facility (NASRF) received 10,000 bonytail (BYT) fry on 5/05/04 from Dexter National Fish Hatchery, Dexter, NM. Survival was good, and the current inventory stands at approximately 9,000 BYT (120/lb) in ponds 1 and 4 at NASRF. Also on inventory at NASRF are approximately 6,000 BYT from the 2003 year class (20/lb) in pond 2. There are no plans to over-winter BYT at the Trinidad State Junior College (TSJC) ponds this year. The 2003 BYT that do not make 200 mm by Spring of 2005 will be transferred to the TSJC ponds for grow-out.

Improvements at TSJC this year included adding electricity to ponds 1, 2 and 3, purchasing two paddle wheel aerators and installing four 8 foot round tanks. We also installed bird netting over ponds 1, 2 and 3 to prevent pelican predation.

In November of 2003 the remaining BYT at TSJC came down with *Ichthyophthirius multifiliis* (Ich). The only fish that survived were 753 (2001 BYT) that were placed in three eight foot round tanks at TSJC. The survivors were stocked into the Colorado

River #1 site on 5/24/2004. The second round of Ich claimed 1809 (2001 BYT) and 900 (2002 BYT).

There were no apparent disease problems at the TSJC ponds in 2004. The efforts to exclude tilapia from the ponds worked well this year. Tilapia appeared to be the primary vectors of pathogens last year.

NASRF received 10,000 Colorado pikeminnow (CPM) fry from Dexter NFH on 6/03/04. Survival appears to be good and we currently have approximately 8,000 weighing 160/lb in pond # 3 at NASRF. The CPM was placed into pond 3 the last week of June and appear to be doing well. We plan on over-wintering them in pond 3.

In fiscal year 2003-2004 NASRF stocked a total of 4,578 CPM all from year class 2002 and a total of 13,400 BYT. Of the BYT stocked, 3,215 were from year class 2001, 7,133 from year class 2002 and 3,052 from year class 2003.

Fish losses during the year were due to moving, lethal sampling for fish health inspection, and predation.

Fish stocked from NASRF and TSJC as of September 30, 2004

Species	Year class			Total
	2001	2002	2003	
BYT	3,215	7,133	3,052	13,400
CPM		4,578		4,578

Fish remaining on the station as of Sept. 30, 2004:

Species	Year class	Number	Size	# Ponds/Tanks
Pikeminnow	2003	6,000	20/lb	Tanks at NASRF
Pikeminnow	2004	9,000	160/lb	Pond 3 at NASRF
Bonytail	2003	6,000	32/lb	Pond 2 at NASRF
Bonytail	2004	9,000	120/lb	Pond 1 and 4 at NASRF
Razorback	2001	40	1/lb	Ponds 2 at NASRF
Razorback	2001	5	1/lb	Ponds # 1 at TSJC

- VII. Recommendations:  
Continue culturing bonytail and pikeminnow at NASRF to meet the stocking needs of Colorado. PIT tag bonytail and pikeminnow for spring and fall stocking.
- VIII. Project Status:  
On going fish culture.
- IX. FY 2004 Budget Status  
We were scheduled to receive approximately \$ 70,000 from the BOR. However, only

\$17,000 was to be transferred into our budget and the rest was to come from Colorado's contribution to the recovery program. We have not received the \$ 17,000, nor were our accounts reimbursed from Colorado's contribution to the recovery program. The following list will reflect expenditures:

Feed	4435.96
Equipment maintenance and repair	1534.65
Travel	815.64
Stocking-vehicle use/maintenance	5153.00
Utilities	8829.42
Discharge chlorine	6264.00
TSJC lease	18,000.00
TSJC pond improvements	6297.15
NASRF pond improvements	4997.00
Miscellaneous equipment	14101.47
Labor	<u>52800.00</u>
Total	123,228.30

X. Status of Data Submission:

XI. Signed: K. David Schnoor 22 October 2004  
Principal Investigator Date