

I. Project Title: **NASRF Operation and Maintenance - Colorado**

II. Principal Investigator(s):

K. David Schnoor  
Colorado Division of Wildlife  
6655 Ct. Rd. 106 So.  
Alamosa, CO, 81101  
719-587-3392  
email: dave.schnoor@state.co.us

Joe Marrinan  
Colorado Division of Wildlife  
6655 Ct. Rd. 106 So.  
Alamosa, CO, 81101  
719-587-3392  
email: joe.marrinan@state.co.us

III. Project Summary:

The J. W. Mumma Native Aquatic Species Restoration Facility (NASRF), located at Alamosa, Colorado currently is rearing bonytail (BYT) for stocking in the Upper Basin system of the Colorado River. In the past we have also produced Colorado Pikeminnow (CPM) for the San Juan, the Gunnison and the Colorado Rivers. However, for 2006, 2007 and 2008 the Colorado stocking schedule for CPM was reduced to zero pending further evaluation by the recovery team. The remaining CPM at NASRF from the 2004 year class was stocked into the San Juan and NASRF did not request CPM fry from Dexter NM in 2006, 2007 or 2008.

The NASRF did receive small humpback chubs (HBC) in 2007 and were held in two round tanks in building II. Because of space, the HBC were held in cooler water last winter and conditioned for the spring spawning season as were all our brooders. The HBC are mixed with roundtail chubs (RTC) and will be separated at a later date. As space became available during the summer of 2008 the HBC were move outside into a 12 foot round tank and are doing great. Although we have not inventoried them recently, they appear to be averaging between 3 and 4 inches.

IV. Study Schedule:

On going

V. Relationship to RIPRAP:

## General Recovery Program Support Action Plan

IV Manage genetic integrity and augment or restore populations

IV.A.

IV.A.4.

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IV.A.4

IV.C. Operate and maintain facilities

## VI. Accomplishment of FY 2008 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

The Native Aquatic Species Restoration Facility (NASRF) received approximately 5000 bonytail (BYT) fry in May 2007 and 10,000 fry on 5/06/06 from Dexter NM but did not receive any BYT fry from Dexter in 2005 or 2008. We will request BYT in 2009. There was adequate survival from the 2003 and 2004 year classes to cover the 2005 stocking schedule and most of the 2006 schedule. Currently on inventory at NASRF are approximately 2500 BYT (8/lb) from 2006 and 6000 BYT (25/lb) from year class 2007. During 2008 NASRF stocked 4181 (62.7/lb and 3.76") BYT into Butch Craig Pond, and 4900 (5.22/lb and 8.6") into Echo Park making the grand total of 9081 stocked by NASRF in 2008. Also 3244 (3.12/lb and 10.22") were stocked into Colorado River #1 on 11/14/08.

There were no apparent diseases problems at the TSJC ponds or at NASRF in 2005, 2006, 2007 or 2008. The efforts to exclude tilapia from the TSJC ponds worked again this year. Tilapia appeared to have been the primary vectors of pathogens in 2003. The problem during 2006 was bird predation on the fish over-wintered at the TSJC ponds. There was considerable reproduction at the TSJC ponds during 2007 but not much during 2008.

The NASRF received 10,000 Colorado Pikeminnow (CPM) fry from Dexter NM on 6/03/04. We did not receive CPM fry from Dexter in 2005, 2006, 2007 or 2008. There was adequate survival from the 2003 and 2004 year classes to cover the 2005 stocking schedule and the 7508 CPM remaining on station during 2006 were stocked into the San Juan drainage. The NASRF currently has only two CPM on station for display purposes.

We received a mix of HBC and RTC fingerlings (209) in 2007 and currently have 200 on station. They are doing great at the hatchery and will be separated once they develop distinguishing characteristics.

Fish losses at NASRF and TSJC during the year were due to moving, lethal sampling for fish health inspection, and predation. Constructions of the 20 small ponds have begun

and hope to conclude by April of 2009. A portion of these new ponds will be used for BYT production and should eliminate the need to lease the TSJC ponds near Hooper beyond 2009. The DOW currently has a one year lease agreement with TSJC expiring in 2009. After the lease expires with TSJC, the DOW will not likely renew the agreement; we anticipate that the total production for BYT and any request for HBC will be met at NASRF.

Fish Stocked from NASRF as Of September 30, 2008

Species	Year Class 2004	Year Class 2006	Year Class 2007	Total	Destination
BYT (YOY)			4181		Butch Craig Pond
BYT	1458	3442		4900	Green River Echo Park
				<i>9081 TOTAL</i>	

*BYT stocked from TSJC on 11/14/08 to Colorado River #1: 3244 (3.12/lb and 10.22")*

Fish remaining on station as of September 30, 2008

Species	YEAR CLASS	NUMBER	SIZE	POND/ TANK #
BYT	<i>2006 and YOY 2008 at TSJC few, less than 300</i>			
BYT	2006	2500	8/LB	POND 3 NASRF
BYT	2007	6000	25/LB	POND 2 NASRF
RBS	2001	10	0.6/LB	POND 2 NASRF
HBC	2007	200	3 -4"	TANK OO/ NASRF

VII. Recommendations:

Continue culturing bonytail and humpback chubs at NASRF to meet the stocking needs of Colorado. PIT tag bonytail for spring and fall stocking.

VIII. Project Status:

On going fish culture.

IX. FY 2005 Budget Status

Feed	3265.20
Equipment maintenance and repair	3149.72
Travel/Training/Phone	875.49
Stocking-vehicle use/maintenance	5773.40
Utilities	23374.35
Building/Grounds	4100.00
Discharge chlorine	4920.00
TSJC lease	18077.50
TSJC utilities	3104.07
TSJC travel	2000.00
TSJC pond improvements	0
Miscellaneous equipment/rental	0
Labor	44364.42
Pond construction	
Total	113004.15

X. Status of Data Submission (Where applicable):

XI. Signed: K. David Schnoor 15 December 2008  
Principal Investigator Date