

I. Project Title: **JW Mumma Native Aquatic Species Restoration Facility Operation and Maintenance - 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 (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 and 2007 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 or 2007.

The NASRF did receive small humpback chubs (HBC) in 2007 and we are currently holding them in two round tanks in building II. The HBC are mixed with roundtail chubs (RTC) and will be separated at a later date.

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.C. Operate and maintain facilities

IV.C.4. Mumma

VI. Accomplishment of FY 2007 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. 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 1698 BYT (6.75/lb) from 2004 year class, approximately 9950 BYT (8.26/lb) from year class 2006 and approximately 5500 BYT (149/lb) from year class 2007. During 2007 NASRF stocked 2900 BYT into Colorado River #1 and 2730 into Echo Park making the grand total of 5630 stocked by NASRF this year.

There were no apparent diseases problems at the TSJC ponds or at NASRF in 2005, 2006 or 2007. 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 again this year and approximately 4181 YOY will be stocked out in November 2007.

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 or 2007. 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 a few CPM on station for display purposes.

We received a mix of HBC and RTC fingerlings (209) this fall and currently have 202 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. NASRF is scheduled to have 20 small ponds constructed on site this fall. 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 2008. The DOW currently has a two year lease agreement with TSJC expiring in 2008. 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 and TSJC as Of September 30, 2007

Species	Year Class 2003	Year Class 2004	Year Class 2006	Total
BYT	337	4962	331	5630

Fish Stocked from NASRF and TSJC as Of September 30, 2007

(By year class, Grow out site and Destination)

Species	Year Class 2003	Year Class 2004	Year Class 2006	Total	Destination
BYT	337/NASRF	300 W/GREY 2263 TSJC P1		2900	COLORADO RIVER #1
BYT		1892 E/ GREY 507 W/ GREY	331 NASRF POND#3	2730	GREEN RIVER ECHO PARK

Fish remaining on station as of September 30, 2007

Species	YEAR CLASS	NUMBER	SIZE	POND/ TANK #
BYT	2004	156	5/LB	BLUE POLY TNK/TSJC
BYT	2004	1542	7/LB	WEST GREY/NASRF
BYT	2006	1500	5/LB	EAST GREY/ NASRF
BYT	2006	6083	10/LB	POND 1 NASRF
BYT	2006	2367	8/LB	POND 3 NASRF
BYT	2007	5500	149/LB	POND 2 NASRF

***BYT 2007 4000+/- 120/LB POND 1 TSJC
(NATURAL REPRODUCTION IN POND PARENTS YEAR CLASS 2004)**

RBS	2001	10	0.6/LB	POND 1 NASRF
HBC	2007	202	160/lb	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	2877.35
Equipment maintenance and repair	5324.49
Travel/Training/Phone	875.49
Stocking-vehicle use/maintenance	5773.40
Utilities	18318.46
Building/Grounds	2098.00
Discharge chlorine	4356.00
TSJC lease	19536.00
TSJC utilities	1056.91
TSJC travel	1710.19
TSJC pond improvements	0
Miscellaneous equipment/rental	1250.00
Labor	38848.00
Pond construction	
Total	102,024.29

X. Status of Data Submission (Where applicable):

XI. Signed: K. David Schnoor 26 November 2007
Principal Investigator Date