

Work Task B4: Southwestern Native Aquatic Resources & Recovery Center at Dexter

FY13 Estimate	FY13 Actual Obligations	Cumulative Expenditures Through FY13	FY14 Approved Estimate	FY15 Proposed Estimate	FY16 Proposed Estimate	FY17 Proposed Estimate
\$250,000	\$247,640.41	\$1,393,149.00	\$250,000	\$250,000	\$255,000	\$260,000

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Start Date: FY05

Expected Duration: FY55

Long-term Goal: Fish augmentation

Conservation Measures: RASU3, RASU4, BONY3, BONY4, and HUCH1.

Location: Off-river, Dexter, New Mexico.

Purpose: Support operation and maintenance at the facility, support maintenance of BONY broodstock, and annually provide RASU and BONY to the LCR MSCP Fish Augmentation Program.

Connections with Other Work Tasks (past and future): This work is related to work tasks B2, B3, and B5, as fish from SNARRC will be delivered to Willow Beach NFH, Achii Hanyo Rearing Station, and Bubbling Ponds State Fish Hatchery. In addition, fish-rearing research activities outlined in C10, C11, C14, and C30 may be conducted at SNARRC.

Project Description: SNARRC is managed and operated by the USFWS. The facility maintains the only broodstock for BONY in the world, and maintains a backup broodstock of RASU. Funds provided will be used to maintain extant broodstock, produce fingerling BONY annually for distribution to other hatcheries and annually rear BONY to 300 mm TL for distribution within reaches 2 through 5.

Previous Activities: Reclamation and the USFWS have past and ongoing interagency agreements to support rearing and research for RASU and BONY at SNARRC. Since the inception of the LCR MSCP through 2012, a total of 3,224 RASU have been stocked into Reach 2, a total of 794 RASU have been stocked into Reach 3, a total of 602 RASU have been stocked into Reach 4, a total of 1,357 BONY have been stocked into Reach 2, a total of 16,701 BONY have been stocked into Reach 3, and a total of 3,751 BONY have been stocked into Reach 4.

FY13 Accomplishments: SNARRC maintained its Class A (pathogen free) disease classification.

BONY. SNARRC staff maintained 1,970 adult BONY broodstock. The stock comprises six year classes of Lake Mohave origin fish. Approximately 33,000 BONY were maintained on station for future stocking into the Lower Colorado River: 9,000 from the 2009 year class, 14,000 from the 2011 year class, and 10,000 from the 2012 year class. Staff from the USFWS hormonally induced and hand-stripped eggs from 26 adult BONY females, producing 400,400 eggs. Approximately 16,000 juvenile BONY were transferred to Achii Hanyo Rearing Station, during 2013. USFWS staff harvested, PIT-tagged, hauled, and stocked a total of 6,318 subadult BONY (300+ mm TL) into Lake Havasu (Reach 3). SNARRC staff continued development of a second BONY broodstock this year, which required the retention of additional BONY for stock rotation. The LCR MSCP did not receive all BONY produced on station in FY13; SNARRC also produces and distributes BONY for other agencies (based on the demand) to meet conservation goals of those programs outside of the LCR MSCP.

RASU. SNARRC staff maintained a refuge stock of 1,150 adult RASU. The broodstock comprises nine year classes of Lake Mohave origin fish. USFWS staff hormonally induced and hand-stripped eggs from 16 adult RASU females, producing 291,200 eggs. Approximately 65,000 RASU larvae were transferred to Bubbling Ponds SFH for grow out and future stocking in the Lower Colorado River. Approximately 24,500 RASU were maintained on station for future stocking into the lower Colorado River: 500 from the 2008-2009 year class, 18,000 from the 2011 year class, and 6,000 from the 2012 year class. No RASU were transferred to SNARRC from Willow Beach NFH due to ongoing quagga mussel issues. No subadult RASU were stocked into the LCR this year.

FY14 Activities: The BONY broodstock will be maintained, and the hatchery will produce approximately 100,000 larvae or fingerling BONY for distribution depending upon various agency requests (including Willow Beach NFH, Achii Hanyo Rearing Station, Lake Mead SFH, and the Bubbling Ponds Research Facility). A new agreement begins in which 6,000-7,000 BONY will be reared to 300 mm TL for distribution within the LCR.

In order to meet production goals for BONY, four new approximately 0.25-acre ponds are being constructed at the facility to expand rearing capabilities. USFWS staff is performing the initial excavation, grading and contouring work, and MSCP will line the ponds and install all the concrete structures. The cost estimate for this work is approximately \$400,000 and was not accounted for under the original approved estimate for FY14. Therefore, obligations will be higher than approved. In order to meet out-year production goals for BONY in FY17, the ponds have to be completed by fall of 2014. Construction is scheduled to commence in March 2014.

Proposed FY15 Activities: The BONY broodstock will be maintained. Up to 100,000 larvae or fingerling BONY will be produced for distribution to the Bubbling Ponds Research Facility, Lake Mead SFH, Willow Beach NFH and Achii Hanyo Rearing Station, and 8,000-10,000 BONY will be reared to 300 mm TL for distribution within reaches 3-5.

Pertinent Reports: Annual administrative reports are available upon request.