

Work Task C47: Genetic Monitoring and Management of Recruitment in Bonytail Rearing Ponds

FY09 Estimates	FY09 Actual	Cumulative Accomplishment Through FY09	FY10 Approved Estimate	FY11 Proposed Estimate	FY12 Proposed Estimate	FY13 Proposed Estimate
\$0	\$0	\$0	\$0	\$220,000	\$250,000	\$250,000

Contact: Ty Wolters, (702) 293-8463, twolters@usbr.gov

Start Date: FY11

Expected Duration: FY13

Long-term Goal: To maintain an effective fish augmentation program.

Conservation Measures: BONY3, BONY4, and BONY5

Location: Off-site rearing stations (Dexter and Uvalde NFHs)

Purpose: To assess the effects of volunteer spawning by BONY in holding ponds on the genetic integrity of the population, and on the goals of the captive management plan for this species.

Connections with Other Work Tasks (past and future): This work is related to B2, B4, B10, and C11.

Project Description: This three-year study will characterize the genetic diversity of volunteer-spawned BONY in ponds at Dexter NFH and Uvalde NFH and compare this population to the founder population of BONY brood stock at Dexter. This project will determine average diversity of pond recruitment. The final year will assess the utility of using a biological control (piscivorous fish) to reduce or eliminate inadvertent spawns in grow-out ponds.

Previous Activities: This effort builds upon research conducted under B4, B10, and C11.

FY09 Accomplishments: None; this is a new start in FY11.

FY10 Activities: The study design for this new FY11 start will be developed under C10 and C11. Site visits to Dexter and Uvalde will be carried out to meet with principals and establish protocols.

Proposed FY11 Activities: The first year of the study will measure and record genetic diversity of BONY recruits in holding ponds. Results will be compared to genetic information from parents and data will be evaluated and reported.

Pertinent Reports: N/A