

## Work Task C58: Investigating Shoreline Habitat Cover for BONY

FY11 Estimates	FY11 Actual Obligations	Cumulative Expenditures Through FY11	FY12 Approved Estimate	FY13 Proposed Estimate	FY14 Proposed Estimate	FY15 Proposed Estimate
\$0	\$0	\$0	\$0	\$75,000	\$60,000	\$60,000

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**Start Date:** FY13

**Expected Duration:** FY15

**Long-term Goal:** To provide qualitative measurements when constructing riprap shoreline habitat for BONY.

**Conservation Measures:** BONY 5

**Location:** Reach 3 and 4, Achii Hanyo Native Fish Facility, Parker Dam Pond, and Cibola High Levee Pond.

**Purpose:** To determine size and depth preference of cavity cover in riprap shoreline habitat for BONY.

**Connections with Other Work Tasks (past and future):** BONY used in this study would be provided through Willow Beach National Fish Hatchery (B2), Achii Hanyo Rearing Station (B3) and Dexter National Fish Hatchery (B4), and Role of Artificial Habitat in Survival of RASU and BONY (C41), the scope of work will be developed under BONY Rearing Studies (C11).

**Project Description:** Bonytail have been documented using open water and shoreline cover in Lake Mohave backwater ponds and at Cibola High Levee. Currently the Role of Artificial Habitat in Survival of RASU and BONY (C41) is being investigated for open water. This work task is designed to investigate shoreline habitat, specifically cavities within rip-rap shorelines, for BONY at multiple life stages. Substrate measurements will be taken from the rip-rap shoreline at Cibola High Levee Pond to provide length, width, and depth measurements of the cavities. Cavities of multiple size and depth will be created and BONY preference will be tested at Achii Hanyo Rearing Facility. Investigation of preferred water depth of these cavities is to be completed at Parker Dam Pond. Results may facilitate the design and development of rip-rap shorelines for LCR MSCP backwater habitats.

**Previous Activities:** This effort builds upon research conducted under Bonytail Rearing Studies (C11).

**FY11 Accomplishments:** This is a new start for FY13.

**FY12 Activities:** A study design is being developed under Bonytail Rearing Studies (C11).

**Proposed FY13 Activities:** Rip-rap shoreline substrate data will be collected from Cibola High Levee Pond. Cavity structures will be designed to investigate cavity opening and depth preference in multiple life stages of BONY.

**Pertinent Reports:** N/A