

Work Task C14: Humpback Chub Program Support

FY12 Estimate	FY12 Actual Obligations	Cumulative Expenditures Through FY12	FY13 Approved Estimate	FY14 Proposed Estimate	FY15 Proposed Estimate	FY16 Proposed Estimate
\$11,000	\$71,167.73	\$214,744.93	\$57,000	\$57,000	\$57,000	\$57,000

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Start Date: FY05

Expected Duration: FY55

Long-term Goal: Support HUCH conservation.

Conservation Measures: HUCH1.

Location: Grand Canyon, Arizona; Willow Beach, Arizona; Dexter, New Mexico.

Purpose: Provide support to the Glen Canyon Dam AMP for conservation of HUCH.

Connections with Other Work Tasks (past and future): This work is connected to B2 and B4, as money will be transferred to USFWS through an agreement for activities at Willow Beach NFH and SNARRC.

Project Description: The LCR MSCP will provide a total of \$500,000 over the life of the program (50 years) to the Glen Canyon Dam AMP, or other entities approved by USFWS, to support implementation of planned, but unfunded HUCH conservation measures.

Previous Activities: In support of the Glen Canyon Dam AMP, funds were provided to USFWS at Willow Beach NFH in FY06 for the care of HUCH from the Little Colorado River being held on station. In an effort to reduce administrative costs and optimize planning, the USFWS requested funding of \$10,000 per year for three years (FY06-08). During calendar year 2008, the LCR MSCP agreed to provide additional funds for the development of a refugia broodstock for HUCH. The agreement for broodstock development was in place for FY09-FY11. The increased funding for broodstock development in addition to the previous support means that approximately half of the original \$500,000 commitment to this work task has been spent. The remaining funds in this work task will likely be allocated when the Glen Canyon Dam AMP, in agreement with the USFWS develop constructive uses of the funds.

Young-of-year fish were transferred from the Little Colorado River to Arizona Game and Fish's Bubbling Ponds Hatchery. The fish were treated for parasites and held in quarantine for 30 days, then transferred to SNARRC. Through the end of 2011, 857 HUCH have been brought on station for establishing the (500-1000) refuge population at

SNARRC. SNARRC staff completed the draft USFWS Genetic Management Plan for Captive and Translocated Endangered Humpback Chub in the Lower Colorado River Basin.

FY12 Accomplishments: The original three-year agreement was extended one year to complete a refuge population/captive broodstock of Grand Canyon HUCH at the SNARRC. SNARRC received 180 young of the year HUCH collected from the Little Colorado River, Grand Canyon. Following a quarantine period, 175 fish were added to the captive broodstock. In 2012, SNARRC successfully maintained 1,032 HUCH: 277 from the 2008 year class, 205 from the 2009 year class, 175 from the 2010 year class, 200 from the 2011 year class, and 175 from the 2012 year class.

FY13 Activities: Options for allocation of the remaining funds are being considered. Maintenance of the refuge population/captive broodstock for HUCH at SNARRC will continue. SNARRC staff will also evaluate and refine fish culture, marking, and transport methodologies for wild-caught HUCH.

Proposed FY14 Activities: Support will continue for HUCH conservation in coordination with the USFWS and the Glen Canyon AMP. Remaining funds will be spent according to research needs as agreed to among all cooperating agencies.

Pertinent Reports: Progress reports are available upon request.