

Work Task C14: Humpback Chub Program Support

FY11 Estimate	FY11 Actual Obligations	Cumulative Expenditures Through FY11	FY12 Approved Estimate	FY13 Proposed Estimate	FY14 Proposed Estimate	FY15 Proposed Estimate
\$75,000	\$71,883.70	\$202,501.52	\$11,000	\$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 Dexter NFH.

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: As recommended by the Glen Canyon Dam AMP, funds were provided to USFWS at Willow Beach NFH in FY06 to support care of HUCH from the Little Colorado River that were held on station. To reduce administrative costs, funds were provided for a three-year period (FY06-08) at \$10,000 per year. During calendar year 2008, the LCR MSCP agreed to provide additional funds for the development of a refugia broodstock for HUCH. The agreement was in place for FY09-FY11. This increased funding effort between FY09 and FY11 along with the baseline funding levels between FY06-08 means that approximately half of the original \$5,000,000 commitment to this work task has been spent.

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 Dexter NFH. Through the end of 2010, 657 HUCH have been brought on station for establishing the (500-1000) refuge population at Dexter. Dexter staff completed the draft USFWS *Genetic Management Plan for Captive and Translocated Endangered Humpback Chub* in the Lower Colorado River Basin.

FY11 Accomplishments: This marks the third year of a three-year agreement to develop a refuge population/captive broodstock of Grand Canyon HUCH at the Dexter National Fish Hatchery and Technology Center, in Dexter, New Mexico. Dexter received 500 young of the year HUCH collected from the Little Colorado River, Grand Canyon. Following a quarantine period, 200 fish were added to the captive broodstock and 300 will be translocated into Havasu Creek in spring 2012. In 2011 Dexter successfully maintained 857 HUCH; 277 (2008 year class), 205 (2009 year class), 175 (2010 year class), and 200 (2011 year class). Acute toxicity tests were conducted on HUCH larvae and juveniles to determine median lethal concentration (LC50) of potassium chloride.

FY12 Activities: Options for allocation of the remaining funds are being considered and a decision will be made this fiscal year. Development of the refuge population/captive broodstock for HUCH at Dexter NFH will continue. Dexter will receive 200 HUCH for grow out, tagging, and incorporation into the captive stock. A total of 300 HUCH will be translocated into Havasu Creek in spring 2012.

Dexter staff will also evaluate and refine fish culture, marking, and transport methodologies for wild-caught HUCH.

Proposed FY13 Activities: Continue support for HUCH conservation in coordination with USFWS and Glen Canyon AMP. The goal is to achieve 1,000 individuals in the refuge population at Dexter.

Pertinent Reports: The scope of work is available upon request. Annual reports from each year will be posted to the LCR MSCP website.