

Work Task C14: Humpback Chub Program Support

FY14 Estimate	FY14 Actual Obligations	Cumulative Expenditures Through FY14	FY15 Approved Estimate	FY16 Proposed Estimate	FY17 Proposed Estimate	FY18 Proposed Estimate
\$57,000	\$1,949.93	\$287,899.90	\$57,000	\$57,000	\$57,000	\$57,000

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Start Date: FY05

Expected Duration: FY55

Long-Term Goal: Support humpback chub conservation

Conservation Measures: HUCH1

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

Purpose: To provide support to the Glen Canyon Dam AMP for conservation of humpback chub

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

Project Description: A total of \$500,000 over the life of the LCR MSCP (50 years) will be provided for the Glen Canyon Dam AMP, or other programs approved by the USFWS, to support implementation of planned, but unfunded, humpback chub conservation measures.

Previous Activities: In support of the Glen Canyon Dam AMP, funds were provided to the USFWS at the Willow Beach NFH in FY06 for the care of humpback chub 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 3 years (FY06–08). During calendar year 2008, additional funds were provided under the LCR MSCP for the development of a refugia broodstock for humpback chub. The agreement for broodstock development was in place for FY09–11. The increased funding for broodstock development in addition to the previous support means that approximately one-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 managers of the Glen Canyon Dam AMP, in agreement with the USFWS, identify appropriate maintenance activities or research needs for the funds.

Young-of-the-year fish were transferred from the Little Colorado River to the Bubbling Ponds Fish Hatchery. The fish were treated for parasites and held in quarantine for 30 days, then transferred to the SNARRC. Through the end of 2012, 1,032 humpback chub have been brought on station for establishing the (500–1,000) refuge population at the SNARRC.

A refuge population/captive broodstock of Grand Canyon humpback chub has been established at the SNARRC. In 2014, the SNARRC successfully maintained 1,024 humpback chub from the Little Colorado River, Grand Canyon. This included 274 of the 2008 year class, 202 of the 2009 year class, 174 of the 2010 year class, 200 of the 2011 year class, and 174 of the 2012 year class. The overall survival for the year was 99.2%.

FY14 Accomplishments: No research or support needs were identified for FY14. Expenditures in FY14 were limited to administrative charges.

FY15 Activities: Options for allocation of the remaining funds are being considered. Possible activities could include maintenance of the refuge population/captive broodstock for humpback chub at the SNARRC.

Proposed FY16 Activities: Support will continue for humpback chub 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: The USFWS report titled *Genetic Management Plan for Captive and Translocated Endangered Humpback Chub in the Lower Colorado River Basin* has been completed and will be available on the LCR MSCP Web site. Progress reports are available upon request.