

Work Task C48: Genetic Characterization of RASU Brood Stock at Dexter NFH

FY09 Estimates	FY09 Actual	Cumulative Accomplishment Through FY09	FY10 Approved Estimate	FY11 Proposed Estimate	FY12 Proposed Estimate	FY13 Proposed Estimate
\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0

Contact: Jeff Lantow, (702) 293-8557, jlantow@usbr.gov

Start Date: FY11

Expected Duration: FY12

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

Conservation Measures: RASU3, RASU4

Location: Off site, Dexter NFH

Purpose: To genetically assess RASU captive brood stock.

Connections with Other Work Tasks (past and future): B2, B4, B5, B10, C10, and C31.

Project Description: This two-year study will compare the genetic diversity of captive RASU brood stock and the source stock at Lake Mohave. Dexter NFH maintains three different stocks of RASU that originated from Lake Mohave. These stocks will be assessed for genetic similarity and compared to wild stocks from the lake. Information from captive stocks held at Ouray NFH and Grand Valley Endangered Fish Facility will also be included in the comparison. Levels of inbreeding, allelic diversity, and statistical measures used to identify genetic divergence will be calculated.

Previous Activities: This effort builds upon research from B4, B10, C11, and C31.

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

FY10 Activities: The study design for this new FY11 start will be developed under C11. Site visits to Dexter 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 RASU stocks at Dexter NFH. Results will be compared to genetic information of parents and data will be evaluated and reported.

Pertinent Reports: N/A