

Work Task C46: Physiological Response in BONY and RASU to Transport Stress

FY09 Estimates	FY09 Actual	Cumulative Accomplishment Through FY09	FY10 Approved Estimate	FY11 Proposed Estimate	FY12 Proposed Estimate	FY13 Proposed Estimate
\$0	\$0	\$0	\$0	\$120,000	\$120,000	\$70,000

Contact: Andrea Montony, (702) 293-8203, amontony@usbr.gov

Start Date: FY11

Expected Duration: FY13

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

Conservation Measures: BONY3, BONY4, BONY5, RASU3, RASU4, and RASU6

Location: Fish stocking sites in reaches 2 and 3; Dexter NFH and Uvalde NFH

Purpose: To assess effects of hauling and transport on RASU and BONY.

Connections with Other Work Tasks (past and future): B4, B10, C10, and C11.

Project Description: This three-year study will characterize the physiological stress response of BONY and RASU before, during, and after transport from Dexter NFH and Uvalde NFH to stocking sites along reaches 2 and 3 of the LCR. Results from the first year will be used to develop and test revised hauling procedures to minimize stress.

Previous Activities: This effort builds upon research conducted under C10 and C11.

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

FY10 Activities: The study design for this new FY11 start will be developed under C10 and C11. Site visits to Dexter and Uvalde will be carried out to meet with principals and establish protocols.

Proposed FY11 Activities: The first year of the study will measure and record levels of blood plasma cortisol, glucose, osmolality, and chloride levels in RASU and BONY before, during, and after hauling from the hatchery to the LCR. Subsamples of fish from each haul will be held at stocking sites to evaluate post-stocking mortality. Results will be evaluated and used to design the second year of the study.

Pertinent Reports: N/A