

## Work Task C35: Western Red Bat and Western Yellow Bat Roosting Characteristics Study

FY10 Estimates	FY10 Actual	Cumulative Accomplishment Through FY10	FY11 Approved Estimate	FY12 Proposed Estimate	FY13 Proposed Estimate	FY14 Proposed Estimate
\$50,000	\$33,949.46	\$33,949.46	\$150,000	\$175,000	\$150,000	\$0

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**Start Date:** FY10

**Expected Duration:** FY13

**Long-term Goal:** To determine roosting characteristics for the western red bat and western yellow bat.

**Conservation Measures:** MRM1 (WRBA, WYBA).

**Location:** Within the LCR MSCP project boundary, Bill Williams River NWR, and possibly other riparian areas where western red bats and/or western yellow bats are known to occur.

**Purpose:** To better define roosting characteristics for the two species using radio telemetry.

**Connections with Other Work Tasks (past and future):** Work tasks D9 and F4 determine the distribution of each species and determine areas in which to capture the target species.

**Project Description:** Radio transmitters will be attached to both western red bats and western yellow bats. These bats will then be tracked to their roosting sites (in trees) during the day to pinpoint their roosting locations. Vegetation measurements will be collected at both known roost sites as well as random non-use sites to determine whether these bat species have specific roosting characteristics. These data will be used to design habitat creation projects for these species. Few western red bats have been captured within the LCR MSCP program area. It may be necessary to include other riparian areas in the study in order to increase sample size.

**Previous Activities:** Capture locations for this study were determined by activities associated with D9 and F4.

**FY10 Accomplishments:** Preliminary mist-netting was conducted to determine likely areas where red and yellow bats could be captured both on the LCR and elsewhere. Equipment was purchased for the project.

**FY11 Activities:** The first year of the study will be implemented and an annual report will be written. Several areas will be mist-netted to obtain red and yellow bats for placement of transmitters throughout the summer and during late winter. Vegetation data will be collected at day roosts and analysis will be conducted to determine roosting characteristics.

**Proposed FY12 Activities:** The second year of the study will begin and additional red and yellow bats will be captured in order to achieve a statistically robust sample size. Vegetation data will again be collected and analyzed. If sample size is achieved, a final report will be submitted. If more bats are needed, the project may be extended to FY13.

**Pertinent Reports:** The study plan is available upon request.