

Work Task F4: Post-Development Monitoring of Covered Bat Species

FY05 Estimate	FY05 Actual	Cumulative Accomplishment Through FY05	FY06 Approved Estimate	FY07 Proposed Estimate	FY08 Proposed Estimate	FY09 Proposed Estimate
\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$60,000

Contact: Theresa Olson, (702) 293-8127

Start Date: FY07 **Expected Duration:** FY55

Long-term Goal: Post-development monitoring

Conservation Measures: AMM1, MRM1, MRM2, WRBA2, WYBA2, and WYBA3

Location: Beal Lake, Havasu NWR; PVER, California; CVCA, Cibola Nature Trail, Cibola NWR, Cibola, Arizona; Imperial Ponds, Imperial NWR; Arizona, and Pratt Restoration, Yuma, Arizona.

Purpose: Monitor bat use of habitat creation sites to provide data for the adaptive management process and to develop management guidelines for created habitat sites. Pre- and post-development monitoring for the presence/absence of covered bat species will be conducted following a protocol developed in 2006. Information obtained through this Work Task, in conjunction with D9, will help determine the distribution of these species.

Connections to other Work Tasks (past and future): Post-development bat monitoring will be conducted at habitat creation sites listed in Section E. In addition, information obtained from this Work Task may be used to provide data to D9.

Project Description: Indigenous bat species were surveyed annually along the LCR from 2001-2006 by Brown and Berry. Post-development monitoring will utilize a protocol developed in 2006. Acoustic monitoring will be conducted at restoration sites, including CVCA, PVER, Cibola NWR Trail site, and Beal Lake on Havasu NWR. These surveys will utilize either active or stationary Anabat systems to record bat sounds for presence/absence surveys. In some circumstances, capture techniques may be used for those species not readily recorded by the Anabat system. These surveys will provide data on foraging habitat and use by covered species. Reclamation staff will conduct bat surveys before and after habitat creation utilizing Anabat, Sonabat, infrared cameras, stationary detection equipment, and mist netting, where appropriate.

FY05 Accomplishments: This is a new start in FY07.

FY06 Activities: This is a new start in FY07.

Proposed FY07 Activities: Conduct pre- and post-development bat surveys on habitat creation sites, including Beal Lake, Cibola Nature Trail, CVCA, and PVER. Anabat files will be analyzed to determine species richness and abundance at restoration sites.

Pertinent Reports: Restoration Plans will be written for each habitat creation project listed in Section E including a monitoring section. Study design and protocol will be available upon request.