

## Work Task G5: Conceptual Ecological Models

FY14 Estimate	FY14 Actual Obligations	Cumulative Expenditures Through FY14	FY15 Approved Estimate	FY16 Proposed Estimate	FY17 Proposed Estimate	FY18 Proposed Estimate
\$0	\$0	\$0	\$0	\$60,000	\$20,000	\$10,000

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**Start Date:** FY16

**Expected Duration:** FY55

**Long-Term Goal:** Species research and monitoring

**Conservation Measures:** MRM1, MRM2, MRM3, CLRA1, CLRA2, WIFL1, WIFL2, BONY2, RASU2, WRBA1, WRBA2, WYBA1, WYBA3, DPMO1, CRCR1, CRCR2, YHCR1, YHCR2, LEBI1, BLRA1, BLRA2, YBCU1, YBCU2, ELOW1, GIFL1, GIWO1, VEFL1, BEVI1, YWAR1, SUTA1, FLSU1, MNSW1, MNSW2, CLNB1, CLNB2, PTBB1, PTBB2, CRTO1, CRTO2, CRTO3, LLFR1, LLFR2, and LLFR3

**Location:** System-wide, Arizona, California, Nevada

**Purpose:** To assess and organize existing knowledge on each LCR MSCP covered and evaluation species to determine research, monitoring, and habitat requirements for current and future fish augmentation, research, monitoring, and habitat creation projects

**Connections with Other Work Tasks (Past and Future):** Previous work was done through Work Tasks C3, G3, and G4. Information collected under this work task is currently being used to develop future work tasks and research projects, design monitoring programs and habitat creation projects, and to implement the adaptive management process. Information from this work task will be used under Fish Augmentation (Section B), Species Research (Section C), System Monitoring (Section D), Conservation Area Development and Management (Section E), and Post-Development Monitoring (Section F).

**Project Description:** To successfully create and manage habitats for LCR MSCP covered species, CEMs are being developed to better direct research and monitoring efforts as well as direct management.

CEMs integrate and organize existing knowledge concerning: (1) what is known about an ecological resource, with what certainty, and the sources of this information; (2) critical areas of uncertain or conflicting science that demand

resolution to better guide management planning and action; (3) crucial attributes to use while monitoring system conditions and predicting the effects of experiments, management actions, and other potential agents of change; and (4) how the characteristics of the resource are expected to change as a result of altering its shaping/controlling factors, including those resulting from management actions.

**Previous Activities:** This is a new start in FY16.

**FY14 Accomplishments:** This is a new start in FY16.

**FY15 Activities:** This is a new start in FY16.

**Proposed FY16 Activities:** The information previously reported under Work Task C3 will be reported here. Development of CEMs under Work Tasks G3 and G4 will be moved and also reported here in FY16.

Development of CEMs for the evaluation species will begin in FY16.

**Pertinent Reports:** N/A