Work Task G1: Data Management

FY08 Estimates	FY08 Actual	Cumulative Accomplishment Through FY08	FY09 Approved Estimate	FY10 Proposed Estimate	FY11 Proposed Estimate	FY12 Proposed Estimate
$450,000	$145,357.59	$621,808.59	$450,000	$650,000	$950,000	$950,000

Contact: Jeremy Dandron, (702) 293-8378, jdandron@usbr.gov

Start Date: FY07

Expected Duration: FY55

Long-term Goal: Data management will be an ongoing task for the species research, system monitoring, habitat creation, post-development monitoring, and habitat maintenance programs.

Conservation Measures: All

Location: System-wide.

Purpose: Develop and maintain an accessible, multi-disciplinary, spatially referenced, relational database to consolidate, organize, document, store, and distribute scientific information related to the LCR MSCP.

Connections with Other Work Tasks (past and future): Database management is integral in the successful completion of work tasks undertaken for Fish Augmentation (Section B), Species Research (Section C), System Monitoring (Section D), Habitat Creation (Section E), Post-Development Monitoring (Section F), Adaptive Management (Section G), and Habitat Maintenance (Section H).

Project Description: To fully implement the LCR MSCP, a database management system is being developed to manage data collected through the species research, system monitoring, habitat creation, post-development monitoring, adaptive management, and habitat maintenance programs. Database design, initial implementation, and maintenance are funded through this work task.

Previous Activities: All RASU and BONY tagging and stocking data have been included in the Lower Colorado River Native Fishes database maintained by ASU in Tempe, Arizona. Arizona State University received a federal grant in FY04 to continue this work for 4 years. Reclamation accounted for these funds in its request for financial credit. The grant provides funds to support this work through FY07.

The LCR MSCP Database Management Framework Requirements Analysis was completed in FY06, which outlined several options for implementing an accessible, multi-disciplinary,

spatially referenced, relational database to consolidate, organize, document, store, and distribute scientific information related to the LCR MSCP. This analysis will be used to develop the implementation strategy for the LCR MSCP database management system.

FY08 Accomplishments: Maintanance and modifications were made to document/calendar management system in tailoring it to the current needs of the LCR MSCP SharePoint architecture.

All tagging and stocking data for RASU and BONY was provided to ASU for inclusion into the Lower Colorado River Native Fishes database.

FY09 Activities: Database design and implementation of a centralized DBMS will continue in an annually phase approach for all project and species databases. A pilot project will be conducted to design and develope high priority wildlife, project management and administrative SharePoint interface modules. Additional hardward will be purchased to increase data storage for the implementation of the centralized database. The intranet/document/calendar management system will be maintained and modified, tailoring it to the future needs of the LCR MSCP. A centralized project management solution will be designed, developed and tested for LCR MSCP project management needs. Redesign new internet website to increase and development of a webmap interface will increase functionality and userability for public and partner access. Design and development of website architecture, webmap interface and template design will begin. Design and develop remote sensing data collection for integrety and security of data. The native fishes database will continue to be maintained by ASU until the LCR MSCP database is fully functional. Annual cost for management of the fishery database is estimated to be $110,000 per year.

Proposed FY10 Activities: Database design and implementation of a centralized DBMS will continue in a annually phase approach for all project and species databases. The pilot project will be concluded and additional design and development will begin on high priority wildlife, project management and administrative SharePoint interface modules. The design and development of a geo-document webmap interface will begin. The geo-document interface will allow SharePoint users to view documents from a geospatial webmap. The intranet/document/calendar management system will be maintained and modified, tailoring it to the future needs of the LCR MSCP. The new internet website and webmap interface will be implemented, maintained and updated to increased functionality and userability for public and partner access. Updated geospatial imagery will be acquired and implimented for internet and intranet use. The pilot implimentation of the remote sensing data collection unit will be begin.

Pertinent Reports: *Draft LCR MSCP Database Management Framework Requirements Analysis* is available upon request from the LCR MSCP.