

I. Project Title: Humpback chub population estimate in Desolation/Gray Canyon, Green River, Utah.

II. Principal Investigators:

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III. Project Summary:

The population of humpback chub (*Gila cypha*) in Desolation and Gray canyons (Deso/Gray) is one of the five self-sustaining populations that exist within the upper basin in the Colorado River and Green River sub-basin. This population has been monitored for over 25 years, and the Utah Division of Wildlife Resources (Division) has been responsible for the monitoring since 1985. The Upper Colorado River Recovery Implementation Program amended the recovery plan for humpback chub in 2002 and the approved supplement outlined goals that need to be met for downlisting or delisting to be considered. The recovery goals require that subsequent population estimates for Deso/Gray humpback chub be conducted in two out of every four years. This study, which was a two-year effort, will meet this directive and complete five separate point estimates within an eight-year time period. Information collected previously by the Division-Moab Field Station and recommendations from the U.S. Fish and Wildlife Service population estimate workshops 2002 and 2004 are incorporated into the approach to provide the best opportunity of determining the most accurate and precise estimate for the Deso/Gray humpback chub population.

IV. Study Schedule:

- a. Initial year: 2008
- b. Final year: 2009

V. Relationship to RIPRAP:

General Recovery Program Support Action Plan:
V.A.1. Conduct standardized monitoring program.

VI. Accomplishments of FY 2009 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

Task 1: Complete final report – Humpback chub population estimates and status 2006–07.

A draft report describing the population size and structure of humpback chub in Deso/Gray in 2006–07 has been prepared and is pending further updates. Updates to the report will incorporate sectional population estimates and density estimates; these changes are based on recommendations from the humpback chub population estimate workshop held in 2009. Final writing and analysis will be completed following the 2009 field season according to the current schedule for completion.

VII. Recommendations: No applicable recommendations.

VIII. Project Status: Late and ongoing

The current schedule for completion: Draft report to coordinator by Jan 1, 2010; Peer and Biology Committee review by Jan 15, 2010; and Final report approval by Feb 15, 2010.

IX. FY 2009 Budget Status:

A. Funds provided:	\$ 20,600
B. Funds expended:	\$ 20,600
C. Difference:	\$ 0
D. Percent FY2009 work completed:	100%
E. Recovery Program funds spent for publication charges:	\$ 0

X. Status of data submission: Not applicable

XI. Signed: Paul Badame Date: 11/10/2009