

- I. Project Title: Geomorphology Work
- II. Bureau of Reclamation Agreement Number(s): N/A
- III. Principal Investigator(s): Jana Mohrman
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- IV. Abstract: Refining flow recommendations and channel monitoring is becoming increasingly important as the Recovery Program moves from a research-oriented program to implementing flow protection through projects such as coordinated reservoir operations, re-operation of dams, instream flow protection, and levee removal. To ensure that future geomorphology and channel monitoring projects are designed properly, the Recovery Program established a peer review process/panel.

In 2015 a Peak Flow Technical Supplement draft report of up-to-date techniques to evaluate the health of river geomorphology as it relates to flow recommendations was reviewed and rewritten. It is in its final stage of review and will be sent out to the Management Committee again.

Committee members:

Kirk LaGory	Chairman (Argonne Labs)	Tom Pitts	(Water Users)
Jack Schmidt	(USGS)	Tom Chart	(PDO)
Toby Minear	(USGS)	Paul Grams	(USGS)
John Pitlick	(CU)	Jana Mohrman	(FWS)
Cory Williams	(USGS)	David Lytle	(USGS)
David Topping	(USGS)		

- V. Study Schedule: A Peak Flow Technical Supplement report is being reviewed by the Biology and Water Acquisition committees describing up-to-date methods to collect data for monitoring and detecting the health of river geomorphology. These techniques will be applied in the future to evaluate flow recommendations in the rivers as needed.
- VI. Relationship to RIPRAP: General Recovery Program Support Action Plan I. Provide and Protect Instream Flows
- VII. Accomplishment of FY 2015 Tasks and Deliverables:

The Peak Flow Technical Supplement report received comments from the Biology (BC) and Water Acquisition (WAC) committees. It ranks major stream reaches that need evaluation and describes a collection of up-to-date methods to collect data for monitoring and detecting the health of river geomorphology. It was revised by Kirk LaGory and is being reviewed in the Program Directors Office.

VIII. Additional noteworthy observations: None.

IX. Recommendations:

The Peak Flow Technical Supplement draft report was presented to the WAC, BC, and MC and comments collected. In the fall of 2015 Kirk LaGory made revisions it is being reviewed by the Program Directors Office and it. Once finalized it will be reviewed and incorporated into the RIPRAP. It offers a range of study approaches and prioritizes river reaches to evaluate the peak flow aspects of the Program's flow recommendations. The concepts are being considered in existing study plans for the Green River and Gunnison and Colorado Rivers.

2015 runoff conditions in the Gunnison River were Moderately Dry with a peak target of ~5000 cfs for 1 day this did not trigger another year of hydrophone work. The Technical Supplement suggested establishing an embeddedness study on the lower Gunnison River and the 15-Mile Reach. The Program is awaiting the results of ~10 years of embeddedness data Doug Osmundson collected on the mainstem of the Colorado River to hear what he recommends. John Pitlick said results can be biased depending on the investigator.

X. Project Status: The Technical Supplement is being considered for use in the Gunnison and Green River evaluations.

XI. FY 2015 Budget Status

A. Funds provided: up to \$10,000 in Section 7 funds/year
B. Funds expended: \$0
C. Difference: Not applicable

XII. Status of Data Submission (Where applicable): N/A

XIII. Signed: Jana Mohrman 11/2/2015
Principal Investigator Date