

Overview of the “Next Steps” in the Experimental Planning Process – Embracing the “Hybrid” Approach

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Milestones – Points along the Path of the GCDAMP – Pausing to Assess the State of Knowledge on Experimental Treatments

Knowledge About

- **Certainties/uncertainties related to:**
 - **Flow Treatments** [MLFF, LSSF, BHBF, HMF, ExpFF, plus prior Glen Canyon Dam operations since 1963, where abundant historical data are available for evaluation....]
 - **External Flow Treatments** [Implemented operationally at other facilities where learning may be transferred to GCDAMP]
 - **Non-Flow Treatments** [Mechanical Removal, HBC translocation in the LCR, etc.]

Questions – How do we Evaluate when are we done with Experimental Research?

- **Are there Experimental Treatments** - for which there is sufficient cause/effect certainty to move the activity from Experimentation to ongoing management action to achieve resource objectives?
- **Experimental Design** - Can we resolve the next logical steps in resolving treatments that are still so **uncertain** that experimentation is needed for effective and efficient “Learning” to identify options for management?
- **Laboratory Experiments** – What is the role of highly controlled experiments conducted in the laboratory?
- **Modeling** – What is the role/utility of modeling in the evaluation & planning process [what is our predictive skill currently & how can we build on our existing **Conceptual Model (GCM)**]?

SCHEDULE: Summer/Fall 2005

- **Knowledge Assessment Workshops I & II** – May 18-19 & July 5-8, 2005, **GETTING A HANDLE ON WHERE WE ARE EXPERIMENTALLY!** Draft EXP Design by Aug. 2005 for review and comment by TWG at fall 2005 meeting(s)
- **Peer Review and Information Transfer** – Science & Manager interactions about the proposed EXP design (GCMRC Science Symposium Day #2, Oct. 26, 2005)
- **Approval/Recommendation** – GCD AMP approval (Jan 2006)
- **GCMRC Strategic Science Plan** – Experimental actions implemented in WY/FY2007 & beyond... (Phase V)

SCHEDULE: May 18-19, 2005

Workshop I

- **Overview of Hydropower and Experimentation**
- **Fisheries Science Updates**
- **Overview on the State of Knowledge w.r.t. Food Web of CRE**
- **Discussion about the concept of “Sideboards” in the planning process?**

Proposed Agenda: July 6-8, 2005

Knowledge Assessment Workshop II

**Flagstaff Field Center – USGS
2255 N. Gemini Drive**

July 5, 2005

**Travel Day & Various Ad hoc meetings 1300-
1700 at USGS facilities**

**1730 – 0800 – Scientists & Managers Meet for
Dinner and AEM Mixer at Beaver Street
Brewery**

Proposed Agenda: July 5-8, 2005

Knowledge Assessment Workshop II

July 6th – 0830 – 1730

LF Stranding Studies under EFF in 2003-2004 (Davis, 30-min)

Lake Powell QW (Vernieu, 45-min)

Overview of TCD Literature – What's in Writing? (Kubly, 45-min)

BREAK (1030-1045)

TCD Case Study I - Flaming Gorge (Vincent, 45-min)

TCD Case Study II – Shasta Project (TBD, 45-min)

Overview - Landscape Modeling & TCDs (Stevens, 15-min)

LUNCH (on own 1200-1300)

Native Fish Treatments in the Upper CR? (Valdez, 30-min)

Rainbow Trout Studies below Lees Ferry (Rogers, 30-min)

Parasites and Diseases? (Ward, 30-min)

Downstream Movement by LF Rainbow Trout? (Korman, 30-min)

**Summary & Discussions on Fisheries & Aquatic Knowledge (facilitator:
Korman, 60-min)**

**Strategic Experimental Design Options for Fish and Food Web (Korman,
90-min)**

Proposed Agenda: July 5-8, 2005

Knowledge Assessment Workshop II

July 7th (0800 – 1700, facilitator, Korman)

Historic Sand-Storage Changes (Schmidt, 30-min)

Sand Mass Balance (Topping, 30-min)

Downstream Quality-of-Water (Wright, 30-min)

Overview on Modeling Status (Wiele and Korman, 30-min)

Socio-Cultural Resource Issues (Fairley, 30-min)

BREAK (1030 – 1045)

NPS Cultural Resource Monitoring Results (Balsom, 25-min)

Cultural Aeolian Process Studies (Draut, 25-min)

Camping Area Changes (Kaplinski, 25-min)

Recreation Resources (Harpman, 20-min)

Overview of Afternoon Work Session (Korman, 10-min)

LUNCH (on own 1230 – 1400)

Experimental Design Breakouts/Discussions (1400-1700)
(Facilitators: Korman, Ralston, Kubly and Melis)

Proposed Agenda: July 6-8, 2005

Knowledge Assessment Workshop II

Flagstaff Field Center – USGS
2255 N. Gemini Drive

July 8th – 0800 - 1200

**Experimental Design Discussion Toward a Draft Plan:
Getting it Done! (Facilitator: Korman)**

LUNCH (on own)

Departures