LONG RANGE EXPERIMENTAL PROGRAM

Strategies for Sequencing and Implementation

AMWG Motion Passed April24,2002

- GCDAMP adopt an experimental framework that includes Scenarios 1 through 4 and possibly other scenarios to benefit resources of concern with a twice a year evaluation of data by AMWG
- Implement Scenarios 1,3,or 4, as appropriate in WY2002-2003. Scenario 1 will be implemented in first year fall tributary inputs occur. Scenario 2 will be implemented in the next year that fall tributary inputs occur.

AMWG Motion…Continued

- Initiate all needed activities(consultation[include HBC], compliance, development of a science plan, public outreach, development of a captive breeding population of Grand Canyon Humpback Chub.)

- Direct the GCMRC in consultation with the TWG and SAs ***develop an experimental plan for long-term implementation.*** **(April , 2002)**

Rationale for Long Term Program

- Active Adaptive Management Paradigm
- Thoughtful Development of Treatments
- Adequate Science Planning
- Compliance/ Permitting Work
- SA & Peer Review
- Budget & Fiscal Planning
- Avoid ‘Crisis’ Planning of 2002

Why Now??

Depending on your interpretation of the current EA and FONSI we are somewhere between 15 and 18 months from returning to ROD flows

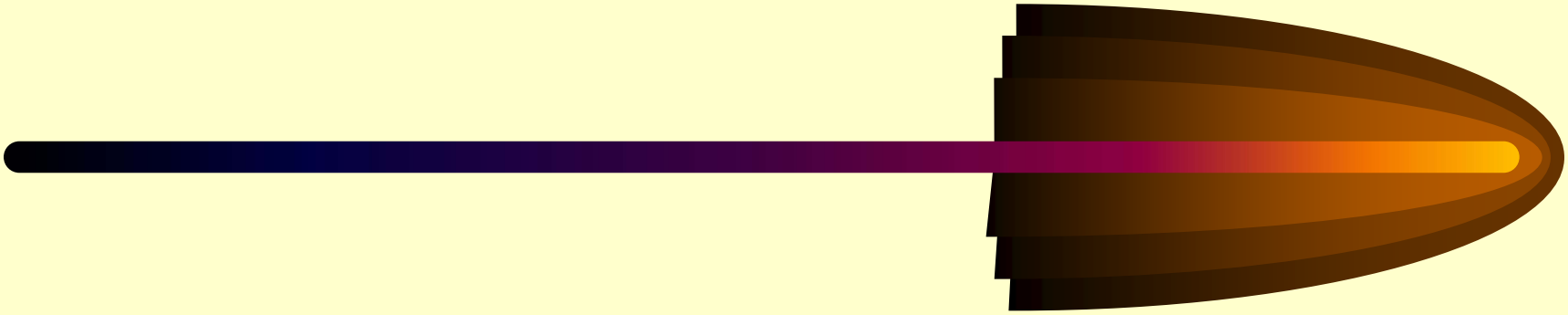

Table 2.4. Experimental Design, Long-Term Sequence of Treatments

Water Year	Fluctuating Flows (Jan Š Mar)	Mechanical Removal (Aug Š Dec)	Stable Fall Flows (Aug Š Dec)	TCD (Future)	BHBF (Jan Š Jul)
WY2002-03	Yes	Yes	Yes	No	?
WY2003-04	Yes	Yes	No	No	?
WY2004-05	No	Yes	Yes	No	?
WY2005-06	No	Yes	No	No	?
WY2006-07	No	No	Yes	No	?
WY2007-08	No	No	No	No	?
WY2008-09	Yes	No	Yes	No	?
WY2009-10	Yes	No	No	No	?
WY2010-11	Yes	Yes	Yes	Yes	?
WY2011-12	Yes	Yes	No	Yes	?
WY2012-13	No	Yes	Yes	Yes	?
WY2013-14	No	Yes	No	Yes	?
WY2014-15	No	No	Yes	Yes	?
WY2015-16	No	No	No	Yes	?
WY2016-17	Yes	No	Yes	Yes	?
WY2017-18	Yes	No	No	Yes	?

Generalized Design of Blocked Treatments

Water Year	Sediment Treatment	Fisheries Treatment	TCD Treatment	Techno-Fixes
1	X	X	-	?
2	X	X	-	?
3	-	X	-	?
4	X	X	-	?
5	X	-	X	?
6	-	-	X	?
?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

How to do it???

- Muddle through
- Use Strategic Planning & Target Setting
- Passive Adaptive Management
  - Small scale opportunistic research & monitoring
- Active Adaptive Management
  - Deliberate Management Policy Experimentation
  - Multi-attribute Stakeholder Based Process

Advantages of Policy Experimentation Using Multi-Attribute Approach

- Full Stakeholder Participation/Interaction
- Utilizes Scientific Information to Inform
- Effective and Well Documented Decision Process in Other Segments of Society
- Provides Thorough But Anonymous Documentation of Process

MULTI-ATTRIBUTE……

- BASED ON EVALUATION CRITERIA
- ALLOWS SIMULTANEOUS CONSIDERATION OF PROBABLE CONSEQUENCES FROM PROPOSED MANAGEMENT ACTIONS ON ALL RESOURCES BY ALL STAKEHOLDERS