

# Experimental Flows Status Update

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AMWG Meeting, January 28-29.  
Phoenix AZ

## Biological Resources



# Update on projects since January 1, 2003

- Projects Started
- Preliminary Results



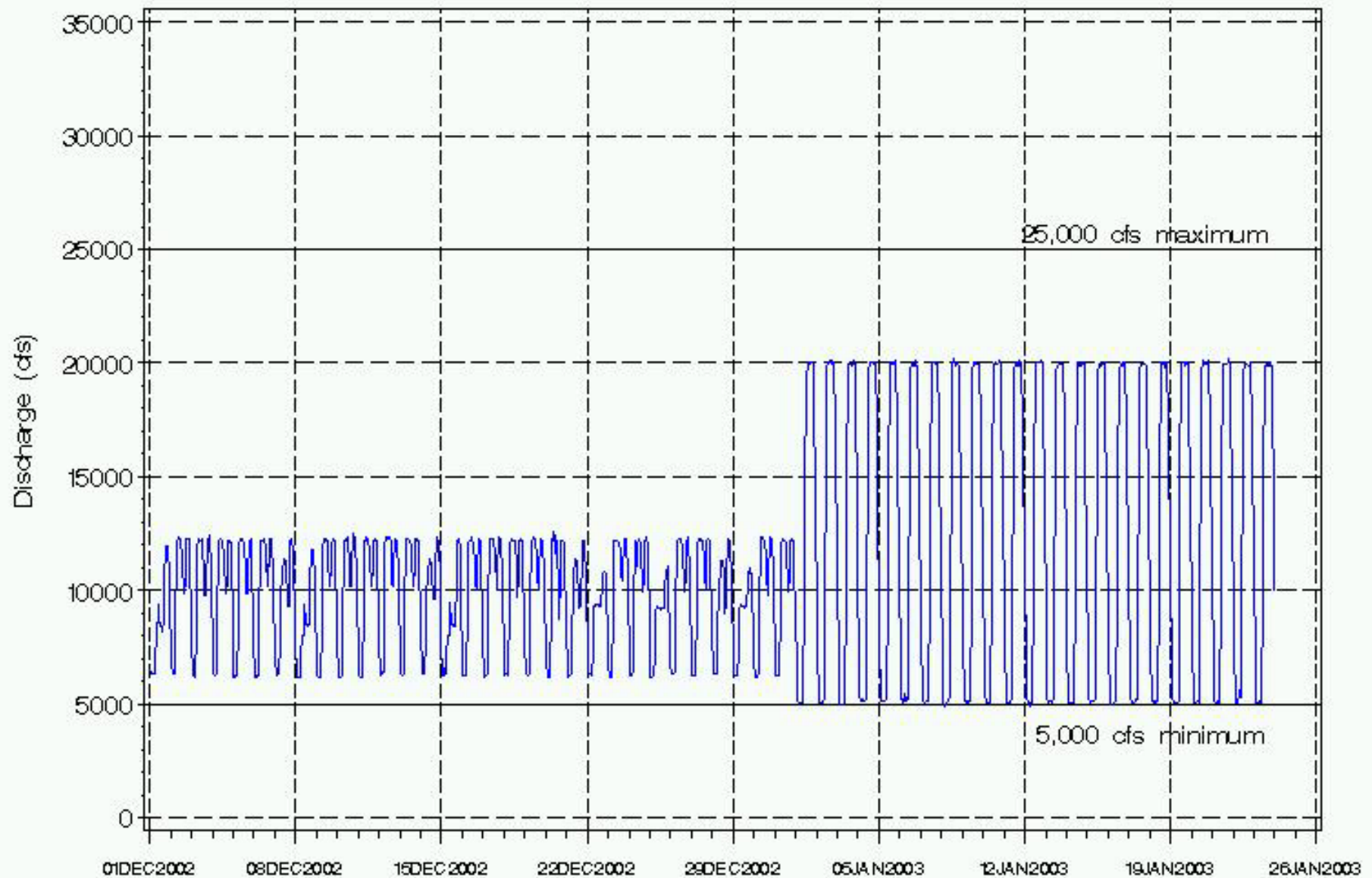


# Projects Started

- Rainbow Trout Stranding at Lees Ferry-EcoPlan Research, Inc
- Mechanical Removal of Non-natives in LCR reach-USGS (GCMRC)
- Food base Impacts of Fluctuating Flows in Glen Canyon-NAU
- Early Life Stage Mortality & Spawning Redd Distribution-Lees Ferry, Ecometric Research, Inc.
- Beneficial Use of Non-native fishes

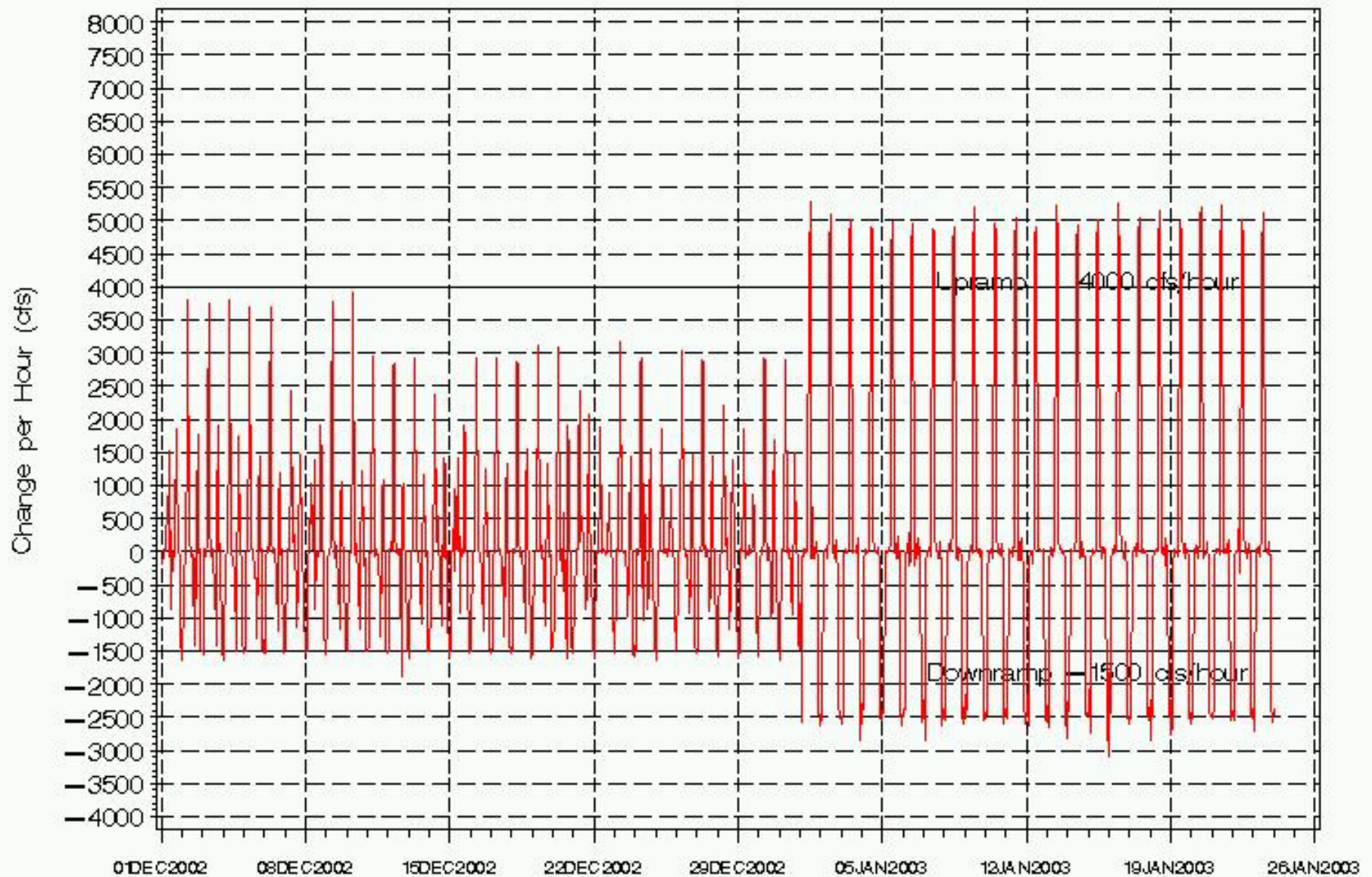
# Glen Canyon Dam Powerplant Releases

December 2002 to February 2003



# Glen Canyon Dam Ramping Rates

December 2002 to February 2003



# Monitoring of Rainbow Trout Stranding at Lees Ferry

- Weekly observation trips from Dam to Lees Ferry
  - ◆ Week One - No Stranding Observed
  - ◆ Week Two - 1 dead RBT, 2 RBT observed attempting to spawn
  - ◆ Week Three - 2 dead male RBT, ~ 100 observed in stranding pool

# EcoPlan Photos of Stranding Areas



# Mechanical Removal of RBT in LCR Reach

- **First Removal Trip-January 15-31**
  - ◆ 8 boats and 20 people
  - ◆ Informational Flyer at Lees Ferry
- **Non-Native Fish Removed**
  - ◆ 3,600 fish after 5 depletions (95% RBT, 5% BT, 5% Carp)
- **Native Fish Captured**
  - ◆ catch of HBC in hoop nets (15 juveniles), 10 each adults and juveniles in electrofishing
  - ◆ 40-50 FMS in electrofishing
  - ◆ 5 native mortalities, 2 dace, 1 FMS (190mm), 2 HBC 70-90mm
    - ★ 4/5 on second night-holding tank problems now corrected



# Food base Impacts of Fluctuating Flows in Glen Canyon

- Three Sites, 18 benthic samples per site and 6 drift samples
- Two Trips Complete-Dec & Jan
- Preliminary evidence suggest reduction in benthos Dec to Jan

# Early Life Stage Mortality and Spawning Redd Distribution- Lees Ferry

- Preliminary Observation Trip  
January 22-23
  - ◆ No Results To Date
- Collecting & Mapping Trips  
Planned Monthly, February-May
- Report by July AMWG Meeting

# Beneficial Use of Non-Native Fish

- Tribal Participation in Mechanical Removal Trips
  - ◆ Hualapai Member on Current Trip
  - ◆ All Tribes Plan to Participate
- First Delivery of Fish to Hualapai Tribe will be Friday January 31, 2003
  - ◆ Cultural Resources Program at Hualapai
  - ◆ Approximately Twenty 15-gallon barrels of “fertilizer” (1 ton)
  - ◆ Several Tribal Gardens

# Next Steps

- Continue Projects Underway
- Begin Analyses of Diet and Incidence of Predation
- Routine Lees Ferry & Downstream Fisheries Monitoring
- LCR Humpback Chub Monitoring
- **Report to AMWG in July, 2003**