

Presentation to TWG Meeting on
Development of Socioeconomic
Information Needs and Program
Elements

by

Socioeconomic AD Hoc Group
Science Advisors Coordinator

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Phoenix, AZ

Charge to SEAHG

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- **Complete draft of Socioeconomic INs**
- **Review draft INs with TWG in October**
- **Prepare final list of SE INs by 10/31/2011 (Nov. 2, 2011)**
- **Nov/Dec: Finalize SE Program elements related to INs**
- **January: At TWG meeting provide SE proposed program for TWG review and approval**

Activities Included in 10/7/2011 SEAHG Report on Specification of SE Program Information Needs and Program Elements

- SEAHG development of Table 3 (INs and program elements)
- SIAHG development of appendix A (Recreational INs)
- SEAHG development of Appendix B (Hydropower INs)

SEAHG Members

- Cliff Barrett
- Shane Capron
- Jerry Lee Cox
- Helen Fairley
- Leslie James
- Don Ostler
- Clayton Palmer
- David Slick
- Jason Thiriot
- Dave Garrett; Co-Chair
- David Harpman; Co-Chair

Recreation Information Needs

- RIN 1 What is the total market and non-market value of the recreational use of the Colorado River ecosystem downstream from Glen Canyon Dam?
- RIN 2 What is the current total annual market value of the Lees Ferry trout fishery to the regional community? What are its components; i.e., hotel and restaurant, guides, retail purchases, etc. and what are its non-market values?
- RIN 3 What is the current total annual market value of Lees Ferry recreational boating industry, and what are its non-market values?
- RIN 4 How have total annual use and market values for the Lees Ferry trout fishery and recreational boating changed in the pre-and post – rod periods?

Recreation Information Needs

- ④ RIN 5 Do Lees Ferry recreational boaters and sports fishers express a significant difference in willingness to pay under differing flow conditions?
- ④ RIN 6 How has demand for Lees Ferry and Grand Canyon recreational boating (including rafting to Lake Mead) and Lees Ferry sport fishing changed over the pre-and post-rod periods?
- ④ RIN 7 How has crowding, camp size, multiple campsites in an area, etc. affected the Grand Canyon recreation experience and expressed market and non-market values
- ④ RIN 9 How does the social benefit of the Lees Ferry trout fishery differ for walk-in only and boating anglers?

HYDROPOWER INFORMATION NEEDS

- HIN 1. Determine and track the impacts to federal hydropower consumers from implementation of Record of Decision dam operations and segregate those effects from other causes such as changes in the power market.
- HIN 2 What would be the biophysical effects (list) on the Colorado River ecosystem and marketable capacity and energy of increasing the daily fluctuation limit?
- HIN 3 What would be the biophysical effects (list) on the Colorado River ecosystem and marketable capacity and energy of increasing the up ramp and down ramp limit?
- HIN 4 What would be the biophysical effects on the Colorado River ecosystem and marketable capacity and energy of raising the maximum power plant flow limit above 25,000 cfs?
- HIN 5 What would be the biophysical effects (list) on the Colorado River ecosystem and marketable capacity and energy of lowering the minimum flow limit below 5,000 cfs?

HYDROPOWER INFORMATION NEEDS

- HIN 7 What are the projected costs to federal hydropower customers associated with the various alternative flow regimes
- HIN 8 Develop rapid response capability with models to evaluate impacts of alternative proposed flow scenarios on all resources
- HIN 9 Develop total market and non-market impacts on upper basin water users from proposed alternative dam operations
- HIN 10 What are the socioeconomic benefits and costs of Glen Canyon Dam operations and experiments to tribal communities?
- HIN 11 Define the base case for power generation for change case analysis?

HYDROPOWER INFORMATION NEEDS

- HIN 12 What are the market impacts of flow regimes on costs to federal hydropower customers relative to Pre-Rod?
- HIN 13 What are the non-market impacts of various flow regimes on federal hydropower customers relative to Pre-Rod?
- HIN 20 Are there non-market values associated with Glen Canyon electrical power, and if so specify and determine these values
- HIN 21 Are there non-market values associated with water released through Glen Canyon Dam, and if so specify and determine these values

Cultural Information Needs

- CRIN₁ What are traditionally important resources, and locations for each tribe and other groups
- CRIN₂ What is the baseline measure for resource integrity of cultural resources?

Questions to INs

- HIN 14 What is the total economic impact to upper basin water users from changes to power generation from base case?
- CRIN 4 What are the market and non-market values of hydropower generation from HFEs to tribal communities?
- CRIN 5 What are non use and non-market values for different cultural resources from tribal perspective
- GIN 1 Determine impacts on marketed hydropower and recreation values of alternative flow scenarios with real time models to support decision making