

FY 2012 Budget Briefing
GCMRC's Proposed Changes

Glen Canyon Dam Adaptive Management
Workgroup Meeting

August 24, 2011

Grand Canyon Monitoring and
Research Center – USGS

Review May 3 & Aug 5, 2011 Memos

- Embraced Concept of the 4 DFCs + Adaptive Management Support
- Ensured Work Plan Elements Related to DOI Priorities
- Considered 24 Recommendations from TWG's March 2011 Meeting
- Anticipated Support Needs for Experiment & Compliance (10-yr)
- Monitoring & Research of HBC Translocation in LCR - Continued
- Completion of Near shore Ecology Study through 2012
- Provision of Science to Support LTEMP – EIS Efforts in 2012
- Expand GCMRC General Capabilities in Economics (Term Hire)

Priorities & Budget Limitations

Some Areas Where GCMRC identified Increased Needs:

EXP Management & Monitoring Needs in DFC #1

Expanded Capability in Economics in DFCs #s 3 & 4

Expand Ecosystem Modeling to Terrestrial Areas

Support 2012 Science Symposium

In Light of Limited Available Funding

Increasing Needs Resulted in

Initially Proposed Decreases in Other DFC Elements & Adaptive Management Program Support:

Downsize Ground-Based “LiDAR” Use – (Glen Canyon Only)

Reduce Terrestrial Vegetation Monitoring

Less Support for Integrated Imagery Analysis (DASA staff reduced)

GCMRC Travel Support for AMWG/TWG Meetings

Less Support for Science Advisors role in GCDAMP (mostly reviews)

DFC #1 Elements Up \$300,000

Desired Future Condition 1: Colorado River Ecosystem

Proposed Changes

- Endangered species/native fish monitoring and research is increased by \$258K
- Support for experimental nonnative fish control trips in Grand Canyon is increased by \$130K (*if needed on basis of compliance*)
- Funding for continued monitoring of the Lees Ferry fishery is decreased slightly \$7.5K
- Support for ongoing quality-of-water and sediment monitoring is decreased slightly \$48K
- Food web monitoring is increased by \$73K
- Vegetation monitoring is decreased by \$76K

Overall Financial Impact of Proposed Changes: The proposed budget increases expenditures \$300K, from \$5.9M to \$6.2M.

DFC #2 Element Down \$267,000

Desired Future Condition 2: Cultural Resources

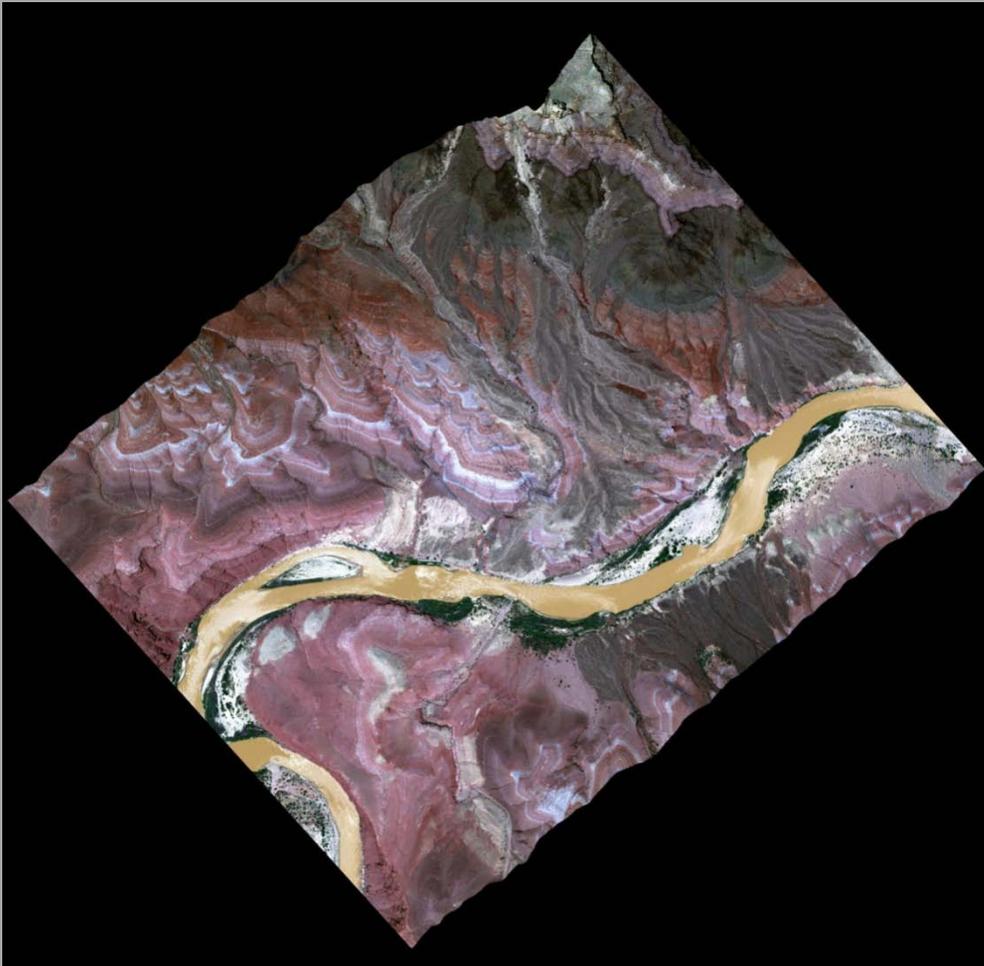
Proposed Changes

- Implementation of originally approved GCMRC-based archaeological site monitoring with ground-based LiDAR continues only in Glen Canyon reach
- 2012 Focus of Site Monitoring – Complete Evaluation of Remote Imagery as Monitoring Tool (collaboration with NPS)

Overall Financial Impact of Proposed Changes: The proposed budget decreases expenditures from \$1M to \$760K – program reductions were tied to budget limitations & priorities, as well as all 3 criteria by which changes are to be proposed

DFC #2 & DASA Remote Imagery

FY2012 Focus – Evaluation of Airborne Imagery for NPS Monitoring



GRCA National Park & GCMRC

Aerial Reconnaissance

Identify Areas of Change w.r.t.

“New Sand Deposition / Erosion”

“Gullying, Fluvial/Aeolian Sand”

“ID New Areas for Monitoring -

- Beyond Current 125 Sites”

DFC #3 Elements Up \$81,000

Desired Future Condition 2: Recreation

Proposed Changes

- Lees Ferry recreation values research is increased by \$81K
- Support for campsite monitoring is decreased by \$8K
- Stable support for completing the campsite GIS atlas
- As Recommended by BAHG - Restored Funds for “Adopt-A-Beach” (*\$8K derived from GCMRC’s AMWG/TWG travel*)

Overall Financial Impact of Proposed Changes: The proposed budget increases expenditures from \$106K to \$187K.

DFC #4 Elements Up \$80,000

Desired Future Condition 2: **Hydropower**

Proposed Changes

- Overall, the budget is increased by \$80K in order to partially support a position to coordinate hydropower-related economic studies managed by GCMRC

Overall Financial Impact of Proposed Changes: The proposed budget increases expenditures \$80K, from \$20K to \$100K.

Science Support Down \$223,000

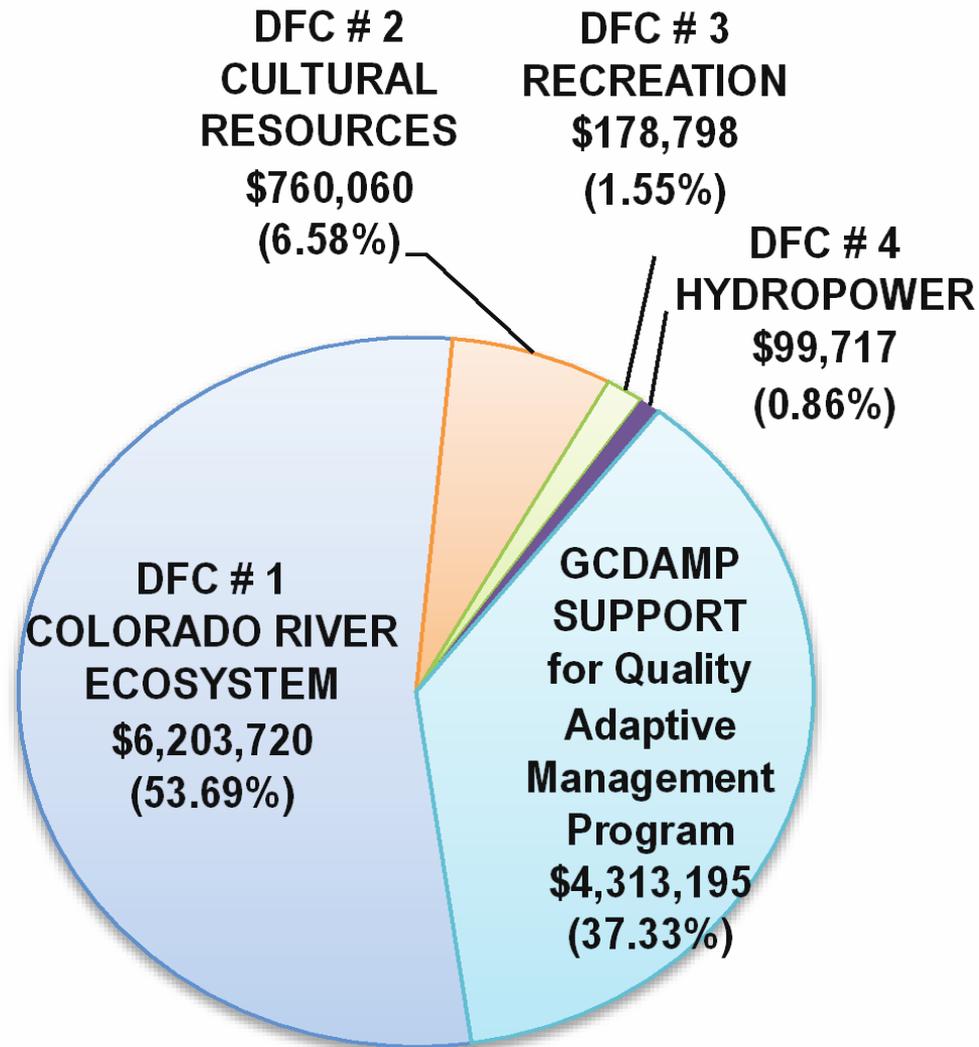
Maintain Quality Adaptive Management: General Science Support

Proposed Changes

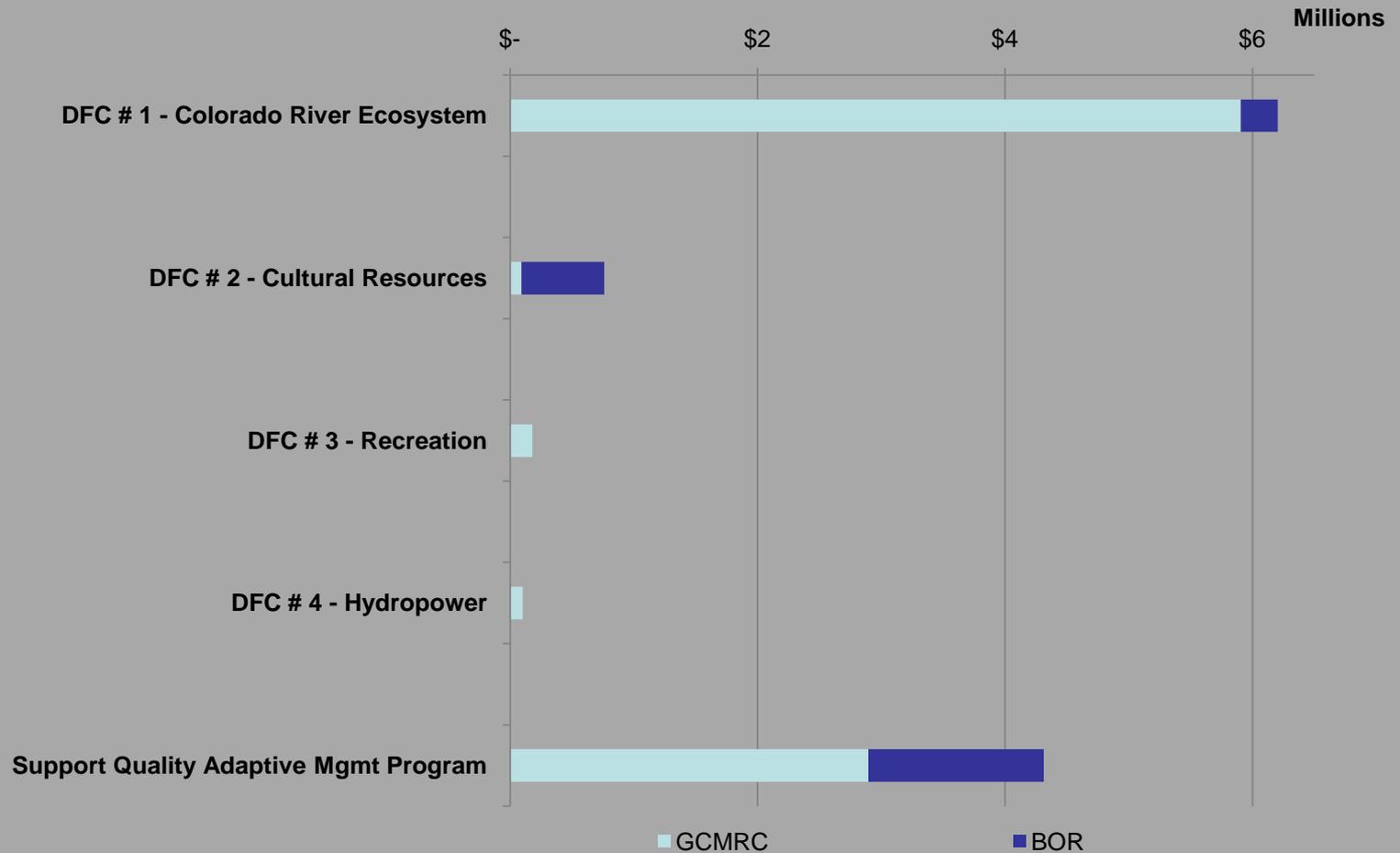
- Integrated Imagery Analysis (DASA) is reduced by \$168K
- Science planning (decision support) and implementation is increased by \$74K
- Support for independent review was reduced by \$84K [BUT then, increased by \$92K to maintain & increase SAs (SCORE, Ecosystem Modeling and Science Symposium were all reduced to accomplish this)]
- Support for Reclamation and GCMRC science leadership, support, and administrative activities is decreased by \$144K

Financial Impact of Proposed Changes: The proposed budget decreases expenditures from \$4.5M to ~\$4.3M.

Proposed FY2012 Budget



Relative Proportion of GCMRC Funds



TWG/BAHG - GCMRC Changes

- Restored “Adopt-A-Beach” funds (~8K)
- Agreed that EXP project Funds Remain in EXP Account until needed
- Maintain & Increase Support for Science Advisors (\$214K)