



Page Discussion

## Main Page

### Internal Web-Page

Glen Canyon Dam  
Adaptive Management Program

### STAKEHOLDERS CENTRAL



SEDIMENT



FISH



HYDROPOWER



CULTURAL



FOOD BASE



RECREATION



ECOSYSTEM



FISHERY



EXTIRPATED



Science

Administrative History Ad hoc Group

# UPDATE

[www.GCDAMP.com](http://www.GCDAMP.com)

AHAG: Administrative History Ad-Hoc Group  
Technical Work Group Meeting- GCDAMP  
Update: June 26, 2013







- John Jordan
- Shane Capron
- Vineetha Kartha
- Bill Stewart
- Sam Jansen
- Lisa Iams
- Helen Fairley
- Mike Yeatts
- Larry Stevens
- Leslie James
- Chris Hughes
- Charley Bulletts
- Marianne Crawford
- Paul Harms
- Jan Balsom
- Linda Whetton
- Mark Van Vlack
- Jason Thiriot

# What have you done for me lately?



[www.GCDAMP.com](http://www.GCDAMP.com)

## Meetings: Motion from the Feb. AMWG

- March 25th: AHAHG Meeting
- May 3rd: AHAHG Meeting -WebEx

## Notables:

- Add. 1: Link to USBR AMWG web-site and Logo
- Add. 2: Web-site traffic (~5,300) (6,862)
- Add. 3: Calendar addition –Ad-hocs, TWG, AMWG
- Add. 4: Learner's Kit started
- Add. 5: Tribal Monitoring Reports and TEK updated
- Add. 6: Learning Pages- AOP, GTMAX, M319
- Add. 7: History of TWG participants

**Search Reclamation**

 >>

- Upper Colorado Region Home
- Area Offices
- About Us
- Programs & Activities
- Water Operations
- Resources Management
- Adaptive Management**
- Colorado River Storage Project
  - Aspinall Unit
  - Flaming Gorge Dam
  - Glen Canyon Dam
  - Navajo Dam
- Glen Canyon Dam Long-Term Experimental & Management Plan
- High Flow Experimental Releases at Glen Canyon Dam
- Navajo-Gallup Water Supply Project
- San Juan Recovery Implementation

## Glen Canyon Dam Adaptive Management Program

Current Focus	Meeting Information
---------------	---------------------

- Glen Canyon Dam 2012 High Flow Experimental Release
- Glen Canyon Dam Long-Term Experimental and Management Plan Env. Impact Statement
- Environmental Assessment - Nonnative Fish Control Downstream - Glen Canyon Dam
- Environmental Assessment - Development and Implementation of a Protocol for High Flow Experimental Releases from Glen Canyon Dam, Ariz., 2011 through 2020

- AMWG Meeting: Aug. 8 - 9, 2013
- TWG Meeting: June 26, 2013 WebEX

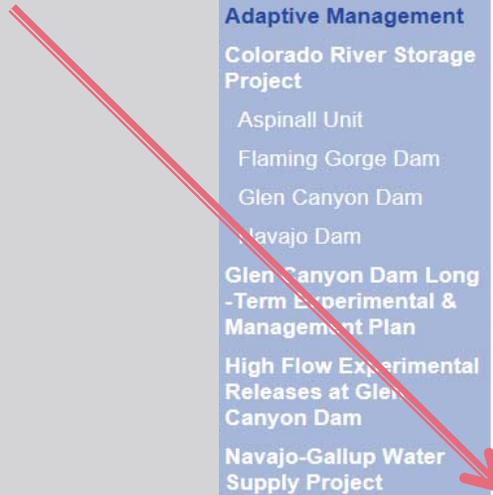


Photo by: Gary Laird

### Links & Related Information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Glen Canyon Dam Adaptive Management Program Outreach Website</li> <li>• Grand Canyon Monitoring and Research Center Website</li> <li>• Glen Canyon Dam Adaptive Management Program <b>WIKI</b> Site</li> </ul> | <ul style="list-style-type: none"> <li>• Desired Future Conditions</li> <li>• Proceedings of the Colorado River Basin Science and Resource Mgmt. Symposium</li> <li>• Final GTMax Model Report with Workshop + Expert Panelist Responses</li> </ul> |
|---|---|

- In**
- ▶ Back
  - ▶ Adap
  - Group
  - ▶ Tech
  - ▶ Mee
  - ▶ Resc
  - ▶ Budg
  - ▶ Conf



# Website LOGO





# AMP WIKI CALENDAR

The screenshot shows a web browser interface for the AMP Wiki calendar. On the left is a sidebar with navigation links like "Main page", "Recent changes", and "Toolbox". The main content area has a header with "Page Discussion" and "Read View source View history". Below that is the title "Calendar" and a navigation bar for "June 2013" with "today" and navigation arrows. The calendar grid shows days from Sunday to Friday. A red arrow from the top-left image points to the event on Monday, June 3rd. The event is a blue dot with the text "(2:00pm) GCMRC Foodb...". Another event on Wednesday, June 26th, is labeled "TWG Meeting".

Page Discussion Read View source View history

## Calendar

<< June >> today

Events  
June, 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
2	3 • (2:00pm) GCMRC Foodb...	4	5	6	7
9	10	11	12	13	14
16	17 • (9:00am) TWG - Budget...	18	19	20	21
23	24	25	26 • TWG Meeting	27	28



# CULTURAL

- [USGS Cultural Resources Link](#) [USGS Cultural Resources Link](#)



**CULTURAL RESOURCES**--The lower reaches of Glen Canyon and the river corridor through Grand Canyon National Park contain traditional cultural ties to this area. Grand Canyon National Park contains more than 4,000 Native American Tribes claim traditional cultural ties to this area. Grand Canyon National Park contains more than 4,000 the Colorado River. The lower reaches of Glen Canyon contain an additional 55 sites. In addition to archaeological sites, historic properties, as well as biological and physical resources that are of traditional cultural importance to Native American various animal species

TBD (Motions)

TBD (TBD)

## GROUP MEMBERS

[\(CRAHG\) Cultural Resources Ad-Hoc](#)

## News

### Quick Facts

- Bigger sand bars during the windy season in spring provide a source area for sand to blow upslope to cover some archeological sites

### CULTURAL RESOURCES BUDGET

#### Reclamation FY 2013-14 Budget Cultural Program Revised

CULTURAL PROGRAM	FY 12	FY 13	FY 14
Reclamation Administration and Travel	64,226	127,839	131,310
Cultural Program Implementation	519,500	473,908	373,077
<b>Subtotal</b>	<b>\$583,726</b>	<b>\$601,747</b>	<b>\$504,387</b>

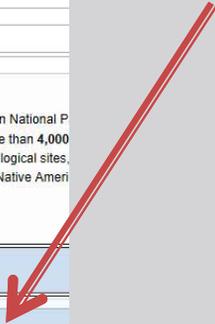
## MONITORING REPORTS

- Paiute 2012 Annual Monitoring Report
- Hopi 2012 Annual Monitoring Report
- Hualapai 2012 Monitoring Report

## Reports and Links

- USBR Presentation to tribes- May 9, 2013: V
- [USGS-GCMRC Cultural Resources Link](#)

## INFORMATION



Updates to Cultural and TEK pages



# Tribal Ecological Knowledge

## Integrating Tribal Ecological Knowledge

"TEK is a cumulative body of knowledge and beliefs, handed down through generations by cultural transmission, about the relationship of living beings (including humans) with one another and with their environment...." - Fikret Berkes



The term Traditional Ecological Knowledge, or TEK, is used to describe the knowledge held by indigenous cultures about their immediate environment and the survival processes that build on that knowledge. Traditional ecological knowledge includes an intimate and detailed knowledge of plants, animals, and natural phenomena, the development and use of appropriate technologies for hunting, fishing, trapping, agriculture, and forestry, and a holistic knowledge, or "world view" which parallels the scientific discipline of ecology (Berkes 1993).

- Tribal Liaison PPT -February 2013 AMWG
- Tribal Liaison PPT -August 2011 AMWG
- HFairley TEK Presentation at TWG- 4-16-2012

### Examples of How TEK has been used effectively

TEK & Endangered Species Conservation - Sarah Rinkivich\_USFWS\_Fe

### TEK Pilot Project

#### 3) Traditional Ecological Knowledge Pilot Project.

- This project would support the development of a pilot TEK project with the tribes for monitoring and/or treatment in the canyons.
- Reclamation and the GCDAMP Tribal Liaisons are currently evaluating TEK proposals submitted by tribes.
- Proposed budget: FY13 develop this project with the tribes \$15,000; FY14 implement the pilot project \$50,000.

AMWG Feb 2013 Meeting- USBR PPT



# GCDAMP Stakeholders List

[Contents](#) [show](#)

Navigation

## FEDERAL AGENCIES

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">Arizona Game and Fish Department</a>	<a href="#">Larry Riley</a>	<a href="#">William Stewart</a> <a href="#">BIO</a>	<a href="#">William Stewart</a> <a href="#">BIO</a>	<a href="#">Vacant</a>	NA
<a href="#">Bureau of Indian Affairs</a>	<a href="#">Amy Heuslein</a>	<a href="#">Garry Cantley</a>	<a href="#">Amy Heuslein</a>	<a href="#">Garry Cantley</a>	NA
<a href="#">Bureau of Reclamation</a>	<a href="#">Ann Gold</a>	<a href="#">Beverley Heffernan</a>	<a href="#">Glen Knowles</a>	<a href="#">Marianne Crawford</a> <a href="#">BIO</a>	NA
<a href="#">National Park Service</a>	<a href="#">David Ueberuaga</a>	<a href="#">Martha Hahn</a>	<b>*GCNP &amp; GCNRA</b>	<b>*GCNP &amp; GCNRA</b>	NA
<a href="#">*National Park Service GCNRA</a>			<a href="#">Chris Hughes</a> <a href="#">BIO</a>	<a href="#">Mark Anderson</a>	NA
<a href="#">*National Park Service GCNP</a>			<a href="#">Jan Balsom</a>	<a href="#">Todd Chaudhry</a>	NA
<a href="#">Fish and Wildlife Service</a>	<a href="#">Janet Bair</a>	<a href="#">Randy VanHaverbeke</a>	<a href="#">Kirk Young</a>	<a href="#">Lesley Fitzpatrick</a>	NA
<a href="#">Western Area Power Administration</a>	<a href="#">VACANT</a>	<a href="#">Shane Capron</a> <a href="#">BIO</a>	<a href="#">Shane Capron</a>	<a href="#">Craig Ellsworth</a>	NA

• *\*Specific to Technical Work Group*

## State Agencies (Colorado Basin States)

### STATE AGENCIES

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">State of Arizona</a> <a href="#">ADWR</a>	<a href="#">Perri Benemelis</a>	<a href="#">Vacant</a>	<a href="#">Vineetha Kartha</a> <a href="#">BIO</a>	<a href="#">Evelyn Erlandsen</a>	NA
<a href="#">State of California</a> <a href="#">CWRB</a>	<a href="#">Vacant</a>	<a href="#">Chris Harris</a>	<a href="#">Chris Harris</a>	<a href="#">TBD</a>	NA
<a href="#">State of Colorado</a> <a href="#">CWRB</a>	<a href="#">Jennifer Gimbel</a>	<a href="#">Ted Kowalski</a>	<a href="#">Ted Kowalski</a>	<a href="#">Randy Seaholm</a>	NA
<a href="#">State of Nevada</a> <a href="#">CRC</a>	<a href="#">Jayne Harkins</a>	<a href="#">Jason Thiriot</a> <a href="#">BIO</a>	<a href="#">Jason Thiriot</a> <a href="#">BIO</a>	<a href="#">McClain Peterson</a>	NA
<a href="#">State of New Mexico</a> <a href="#">NMISC</a>	<a href="#">Estevan Lopez</a>	<a href="#">Don Ostler</a>	<a href="#">Paul Harms</a>	<a href="#">Don Ostler</a>	NA
<a href="#">State of Utah</a> <a href="#">UDWR</a>	<a href="#">Dennis Strong</a>	<a href="#">Robert King</a>	<a href="#">Robert King</a>	<a href="#">N/A</a>	NA
<a href="#">State of Wyoming</a> <a href="#">WY</a>	<a href="#">John Shields</a>	<a href="#">Don Ostler</a>	<a href="#">John Shields</a>	<a href="#">Don Ostler</a>	NA
<a href="#">*Upper Basin Colorado River Commission</a>			<a href="#">Don Ostler</a>	<a href="#">N/A</a>	NA

• *\* Specific to Technical Work Group*

## Native American Tribes

### NATIVE AMERICAN TRIBES

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">Navajo Nation</a>	<a href="#">Frederick White</a>	<a href="#">Alan Downer</a>	<a href="#">Tony Joe</a>	<a href="#">N/A</a>	<a href="#">2nd Alt - Tony Joe</a>
<a href="#">Hopi Tribe</a>	<a href="#">Leigh Kuwanwisilwma</a>	<a href="#">Michael Yeatts</a> <a href="#">BIO</a>	<a href="#">Michael Yeatts</a> <a href="#">BIO</a>	<a href="#">N/A</a>	NA
<a href="#">Hualapai Tribe</a>	<a href="#">Loretta Jackson-Kelly</a>	<a href="#">Kerry Christensen</a>	<a href="#">Kerry Christensen</a>	<a href="#">Loretta Jackson-Kelly</a>	NA
<a href="#">So. Paiute Consortium</a>	<a href="#">Charley Bullets</a> <a href="#">BIO</a>	<a href="#">LeAnn Skrzynski</a>	<a href="#">Charley Bullets</a> <a href="#">BIO</a>	<a href="#">LeAnn Skrzynski</a>	NA
<a href="#">Pueblo of Zuni</a>	<a href="#">Arden Kucate</a>	<a href="#">Kurt Dongoske</a>	<a href="#">Kurt Dongoske</a>	<a href="#">N/A</a>	NA

## Environmental Groups

### ENVIRONMENTAL GROUPS

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">Grand Canyon Trust</a>	<a href="#">Nikolai Lash</a>	<a href="#">Vacant</a>	<a href="#">Nikolai Lash</a>	<a href="#">Kevin Dahl</a>	<a href="#">2nd Alt Meghan Trubee</a>
<a href="#">Grand Canyon Wildlands Council</a>	<a href="#">Larry Stevens</a> <a href="#">BIO</a>	<a href="#">Vacant</a>	<a href="#">Larry Stevens</a> <a href="#">BIO</a>	<a href="#">N/A</a>	NA

## Recreational Interests

### RECREATIONAL INTERESTS

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">Federation of Fly Fishers</a>	<a href="#">John Jordan</a> <a href="#">BIO</a>	<a href="#">Gerald Myers</a>	<a href="#">Gerald Myers</a>	<a href="#">John Hamil</a>	NA
<a href="#">Grand Canyon River Guides</a>	<a href="#">Sam Jansen</a> <a href="#">BIO</a>	<a href="#">Jerry Cox</a>	<a href="#">Jerry Cox</a>	<a href="#">Sam Jansen</a> <a href="#">BIO</a>	NA

## Federal Power Purchase Contractors

### FEDERAL POWER PURCHASE CONTRACTORS

STAKE HOLDER	AMWG Member	AMWG Alt	TWG Member	TWG Alt	Other Links
<a href="#">Colorado River Energy Distributors Association</a> <a href="#">C-REDA</a>	<a href="#">Leslie James</a> <a href="#">BIO</a>	<a href="#">William Davis</a>	<a href="#">William Davis</a>	<a href="#">Leslie James</a> <a href="#">BIO</a>	NA
<a href="#">Utah Associated Municipal Power Systems</a> <a href="#">UAMPS</a>	<a href="#">Ted Rampton</a>	<a href="#">Clifford Barrett</a>	<a href="#">Cliff Barrett</a>	<a href="#">N/A</a>	NA

# ADDITIONS



## Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Question Poll](#)

## Toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

**Sam Jansen- BIO PAGE**

**TWG BIO SUMMARY**

Sam Jansen (Grand Canyon River Guides)

- began his Grand Canyon career as a Hydrologic Technician for the U.S. Geological Survey in 1990. During the Glen Canyon Environmental Study (GCES), from 1992 to 1996, he worked as a Hydrologist on sediment transport and other projects in the Canyon. He became a Grand Canyon river guide in 1993 and started working full seasons, April through October, in 1996.
- Sam has come to know the twists and turns of the Colorado River, and its beaches and side canyons, very well. He has also spent a part of each summer guiding on wilderness rivers in Alaska, and has boated a variety of rivers in Washington, Idaho, California and Arizona.
- Sam is a past president and board member of Grand Canyon River Guides, a non-profit organization dedicated to protecting the Grand Canyon and helping people have the best possible river experience.
- Sam has filled the off-river seasons with work as a computer programmer, database developer, and ski patroller. He graduated from the Zaki Gordon Institute for Independent Filmmaking in 2006 and is currently a documentary filmmaker specializing in movies that explore the spaces where the natural world meets human history and politics. Sam studied Creative Writing and Geology at the Massachusetts Institute of Technology and the University of Arizona, and received a bachelor of science degree in Geosciences from the University of Arizona.
- **Last Updated-Additional Bio, March 22, 2013**
- Sam Jansen (Grand Canyon River Guides).
- Sam's been the AMWG representative for GCRG since February of 2010.
- Grand Canyon River Guides is a non-profit organization dedicated to protecting the Grand Canyon and helping people have the best possible river experience. Sam was president of GCRG from 9/07-8/09 and a member of the board for two years before that.
- Sam has been a guide in the Grand Canyon since 1993. He currently rows boats for Canyon Explorations/Expeditions, and has at times worked for Grand Canyon Youth and OARS.
- Sam is also a long-time Alaska river guide, mostly working on the Alsek and Tathshenshi Rivers for Mountain Travel Sobek.
- Sam began his Grand Canyon career as a Hydrologic Technician for the U.S. Geological Survey in 1990. He worked as a Hydrologist on sediment transport studies and other projects in the canyon and elsewhere in Arizona from 1992 to 1996.
- Over the years, Sam has filled the off-river seasons with work as a computer programmer, database developer, and ski patroller. He graduated from the where the natural world meets human history and politics. His company is Rocketbox Productions, LLC.
- Sam grew up in Flagstaff, Arizona. He studied creative writing and geology at the Massachusetts Institute of Technology and the University of Arizona at

**Start Date with the Grand Canyon River Guides**

- 1993 (20 Yrs.)

**Stakeholder Page- Nevada**

Under Construction

**What Should Other Stakeholders Know About US?**

1. Southern Nevada is 80% contingent on the Colorado River. Our water portfolio is not very diversified.
2. Our community has made significant conservation achievements.
3. Our community lead the nation in population growth for many years.
4. CRC's energy portfolio only consists of 5-7% CHP/Glen Canyon hydropower-- the majority is Hoover, Parker-Davis power.

**Southern Nevada's water portfolio**

- **Q: What is the CRC (SNWA connection)?** A: The CRC is a State authorized agency responsible for securing and protecting Nevada's rights and interests in the Colorado River and in electric power generated by the river. The SNWA is political subdivision of the State of Nevada and is responsible for addressing Southern Nevada's water needs on a regional basis. The CRC and the SNWA work cooperatively to effectively manage Colorado River water resources for the State of Nevada and water users in Southern Nevada.
- **Q: What environmental programs is CRC involved in?** A: CCA/CAAP and the LC/MSCP.
- **Q: What are the Nevada's total interests in the Program?** A:
- **Q: What are the Recreation Interests in the Program?** A:
- **Q: How many people does the CRC provide water for? Hydropower?** A:
- **February 2010- AMWG- Stakeholder's Perspective- State of Nevada**
  - [State of Nevada Link](#)
  - [Misconceptions of Nevada Water Use](#)

**Southern Nevada's water portfolio**

**SNWA Nevada Indoor water use**

**Las Vegas Review Journal**

**Colorado River Drought- Nevada Perspective- JZandall**

**10/2014 CRC- Stakeholder perspective- SScan**

**Conservation by year**

## AUDIO Sound Bytes-- TESTING

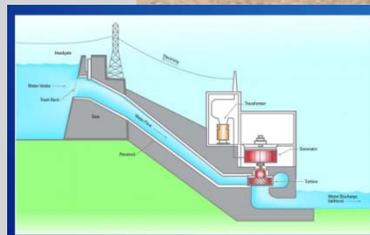
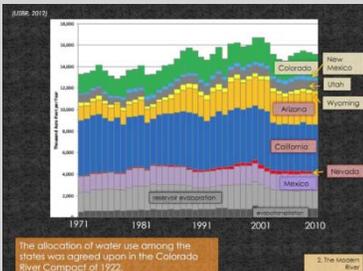
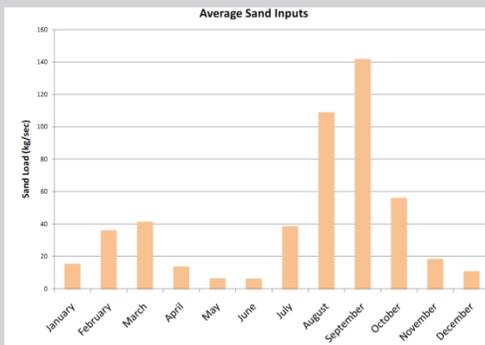
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Humpback Chub	<a href="#">AUDIO</a>	<a href="#">Script</a>		
Kanab Ambersnail	<a href="#">AUDIO</a>	<a href="#">Script</a>		
Southwestern Willow Flycatcher	<a href="#">AUDIO</a>	<a href="#">Script</a>		
Razorback Sucker	<a href="#">AUDIO</a>	<a href="#">Script</a>		
Bonytail Chub				
Colorado Pikeminnow				
LCR Spinedace				
Roundtail Chub				
Northern Leopard Frog				
Lowland Leopard Frog				



# Various people are now uploading

## 1. ADDED

- Pictures
- Links
- Presentations
- Reports





# MAPS Gallery

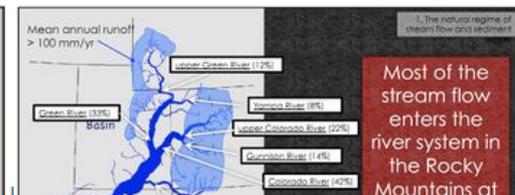
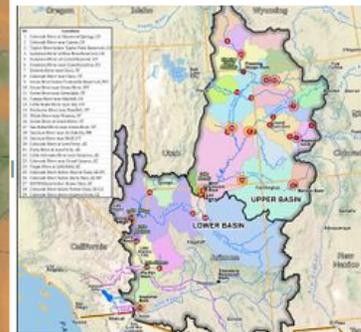
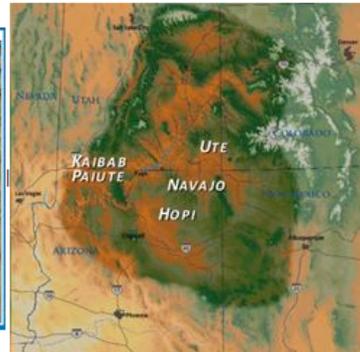
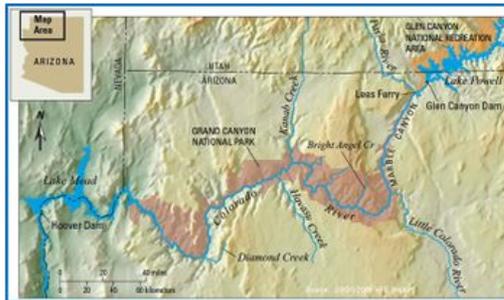
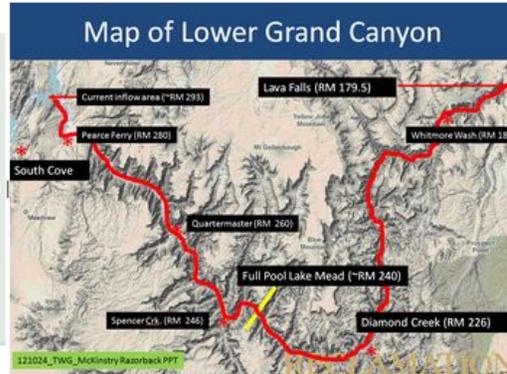
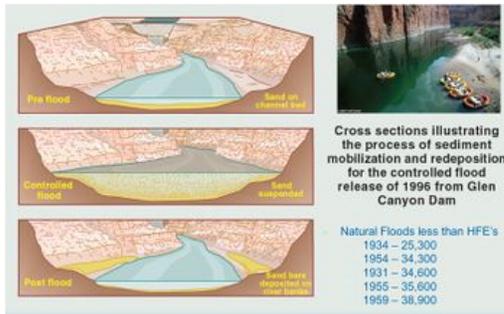
## DIAGRAMS

Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Question Poll](#)

Toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)



# RECREATION PAGE



Navigation

[Main page](#)  
[Recent changes](#)  
[Random page](#)  
[Question Poll](#)

Toolbox

[What links here](#)  
[Related changes](#)  
[Upload file](#)  
[Special pages](#)  
[Printable version](#)  
[Permanent link](#)

Jthiriot [My talk](#) [My preferences](#)

Page [Discussion](#)

Read

[Edit](#)

[View history](#)

## RECREATION

### Recreation Types in GCDAMP Planning Area

- [RAFTING--](#) | [HIKING--](#) | [FISHING--](#) | [CAMPING--](#) | [BOATING--](#) | [KAYAKING](#)



- More than 20,000 rafters run the river each year.
- According to the *Basin Study* (2012)] results suggested that ecological and **recreational** metrics were amongst the most vulnerable to future conditions...[Sou

# RECREATION PAGE

## continued



Page [Discussion](#)

[Read](#) [Edit](#) [View history](#)

## Rafting Folder

*Data Source: Sam Jansen\_April 25, 2013* Also refer to Links on NPS information on whitewater-rafting [NPS Information on Whitewater-rafting](#)

### Recreation and the AMP: Grand Canyon River Running [\[edit\]](#)

- **OVERVIEW** A river trip through the Grand Canyon is a unique and special experience. It can be a life-changing event, full of grandeur, wonder, new challengers, profound encounters and tiny moments of joy. It's a time of self exploration and bonding with family and friends.

Those who haven't yet had the chance to flowat the river first hand often have a number of questions about what it's like, and why we should care so much about taking care of the place. I've tried to answer a few of those questions here.

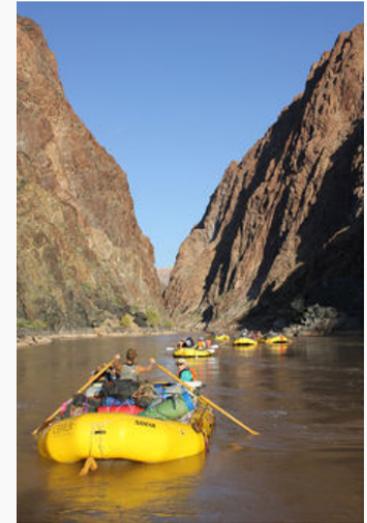
- **QUESTION: How many people raft down the river per year?**

About 22,000 people travel the Colorado River through the Grand Canyon each year. About half of these travelers go on commercial trips, and about half on private trips. A commercial trip is one where an outfitter is hired, and the outfitter provides professional guides, food, boats, and all the other necessities. A private trip is a shared expense, do-it-yourself expedition. River access is controlled by the National Park Service. Private trip permits are given out through a weighted lottery. The park service used to use a straightforward, first come first serve waiting list, but that list grew to be more than 12 years long. There are sixteen commercial river outfitters listed on the Grand Canyon River Outfitters Association web page. They offer trip lengths from 2 to 18 days, with a variety of motor, oar, and paddle powered craft to choose from.

- **QUESTION: What's the history of river running in the Grand Canyon?**

River runners in the canyon tend to think of John Wesley Powell as the man who started it all. He and his crew of nine ran the first (known) river trip through the canyon in 1869. This was a government sponsored trip of science and exploration. The Grand Canyon was the last big patch of unknown, unmapped land in the lower 48 states. Powell and his men actually ran from the

### Granite Gorge- Sam Jansen





## GCDAMP Representatives- History

- Original AMWG Charter was signed on Jan 15, 1997 by Bruce Babbitt and filed on Feb 4, 1997.
- Listed below are the secretaries who have served while the AMWG has been in existence:
  1. Bruce Babbitt 1993-2001
  2. Gale A. Norton 2001-2006
  3. Dirk Kempthorne 2006-2009
  4. Ken Salazar 2009-April 2013
  5. Sally Jewel April 2013 -

Here is complete list of past DOI secretaries: [Past DOI Secretaries](#)

### SECRETARY'S DESIGNEE APPOINTMENTS

#### Adaptive Management Work Group

Secretary's Designee	Official Title	Dates of Service	Notes
<b>Stephen Magnussen</b>	Director, Operations for USVR in Wash, DC	Jul 1, 1997 - Feb. 8, 2002	TBD
<b>Mike Gabaldon</b>	Director, Policy, Management, and Technical Services in Washington DC	Feb. 8, 2002 - Mar. 21, 2006	TBD
<b>Mark Limbaugh</b>	Asst. Secretary - Water and Science	Mar. 21, 2006- July 17, 2007	TBD
<b>Brenda Burman</b>	Deputy Asst. Secretary - Water		
<b>Kameran Onley</b>	Acting Asst. Secretary - Water		
<b>Anne Castle</b>	Assistant Secretary - Water		

### HISTORICAL RECORD of CHAIRPERSONS

#### Adaptive Management Work Group

CHAIR PERSON	ENTITY	YEAR	TIME FRAME	NOTES
<b>Bruce Moore</b>	USBR	1997	10/1/96 - 9/30/97	N/A
<b>Robert A. Winfree</b>	NPS	1998	10/1/97 - 9/30/98	Operating Procedures signed May 13, 1998
<b>Bruce Moore</b>	USBR	1999	2/18/99 - 3/16/99	N/A
<b>Bill Persons</b>	AGFD	1999	4/10/99 - 7/20/99	Operating Procedures signed June 21, 1999
<b>Rick Johnson</b>	SW Rivers	2000	10/1/99 - 9/30/00	Operating Procedures signed September 7, 2001
<b>Rick Johnson</b>	SW Rivers	2001	10/1/00 - 9/30/01	N/A
<b>Kurt Dongoske</b>	Hopi	2002	10/1/01 - 9/30/02	N/A
<b>Kurt Dongoske</b>	Hopi	2003	10/1/02 - 9/30/03	N/A
<b>Norm Henderson</b>	NPS	2004	10/1/03 - 9/30/04	N/A
<b>Norm Henderson</b>	NPS	2005	10/1/04 - 9/30/05	N/A
<b>Kurt Dongoske</b>	CREDA	2006	10/1/05 - 9/30/08	N/A
<b>Shane Capron</b>	WAPA	2009	10/1/08 - 9/30/12	N/A
<b>John Jordan</b>	USBR	2013	10/24/12 - 9/30/13	N/A

GCDAMP History PAGE

# DASHBOARD CONCEPT



- The dashboard idea is nothing new, and is utilized by companies and businesses all the time
- How nice would it be to find out the mass sediment balance, the current science trips/projects, the lake levels, the snowpack, the latest news stories, the status of the guiding documents, hydropower unit availability, rafting, fishing info???
  - (With much of the inputs automated)
  - The Dashboard can automatically search out, and pull information from existing web-sites and trusted reports and display the information/ graphs on one page. (front and back)
- One click of the button and bam... all the latest and greatest GCDAMP related info on a printable page.
- \*Still in protocol form, but you get the idea...



# GCDAMP SUMMARY--- DASHBOARD Technical Work Group- AHAHG

Provide quick insight to the status of the Colorado River as it applies to the Glen Canyon Dam Adaptive Management Program.



## SCIENCE

1. GCMRC- LIDAR over-flight mapping of the river\_ May 2013
2. PIUTE-CULTURAL RESOURCES MONITORING: May 30- June 7
3. GCMRC- LCR Aquatic Foodbase/Water Quality Monitoring\_ 5-Jun 11-Jun
4. GCMRC- LCR HBC Chute Falls monitoring\_ 11-Jun 19-Jun
5. NAVAJO- CULTURAL RESOURCES MONITORING: June 14-23

### Change in Sand Mass

- Zero Bias Value: 190 Metric Tons
- Upper Uncertainty Bound: 870 Metric Tons
- Lower Uncertainty Bound: -500 Metric Tons

## BACKGROUND

### RECREATION-

- Boat Season: Motorized boats currently allowed on river. (May)

### GUIDING DOCUMENTS-

- 2013 is year 2 of 10 for HFE protocol EA (2020)
- 2013 is year 2 of 10 for NN Fish Control EA (2020)
- 2013 is year 1 of 5 for Mexico to store water in U.S. reservoirs-- Minute 319

### WATER-

1. Ave. water Temperature = 55 degrees
2. Monthly Release = 8,000 cfs
3. Water Year Release: 8.23 MAF
4. HFE Scheduled: No

- Water quality= normal
- CRSS: Lake Mead level predicted to be 1085' March 2015.
- Forecasting: 55% chance of 8.23 for water year 2014. (Kgrantz-5-30-2013)
- Forecasting: 45% chance of 7.48 for water year 2014. (Kgrantz-5-30-2013)
- The observed unregulated inflow into Lake Powell for MAY was 48% of average
- Forecasted unregulated inflows in Lake Powell:
  - June: 45% of average, July 29% of average, August 32% of average

## HYDROPOWER

- For the month of May, 6 of the 8 units are available at GCD
- Unit 6 scheduled outage estimated return on-line = ~ September 2014
- Objective 2
- Objective 3

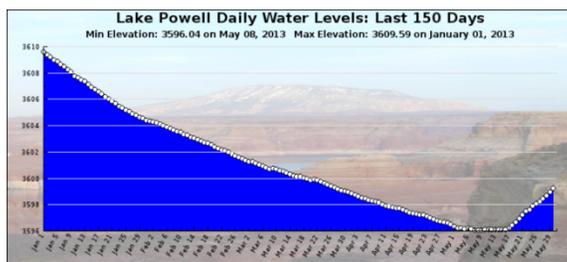
## FISH

- Pop Estimate for HBC: Between 9,000 -12,000 (GCMRC 2013)
- Pop Estimate for RSBU:
- RBT Fishing @ Lees Ferry as of 6-7-2013 = Excellent  
As of 6-7-2013

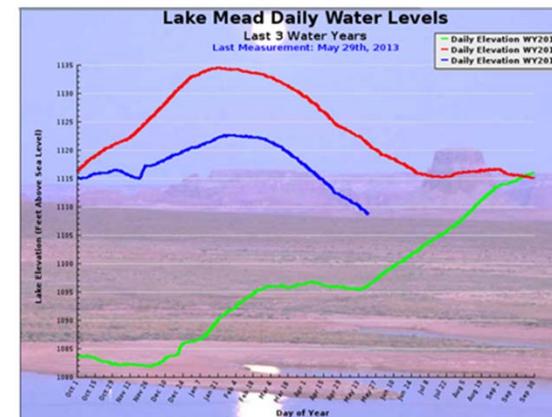
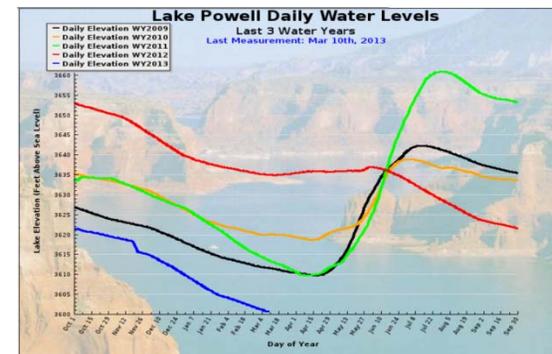


## DETAILS

Lake Powell	3598	48% Full	May 27, 2013
Lake Mead	1108	48% Full	May 27, 2013
Reservoirs above Lake Powell	78%	Last Year: 82%	May 27, 2013
Total System Storage	32.28 MAF	Last Year: 62%	May 27, 2013
Total Precipitation			
Snowpack	56% of average		May 27, 2013
Day 240 Of 365	66% through water year		May 27, 2013



## LAKE LEVELS



## NEWS

- MAY 9\_ National Park Service announces availability of Comprehensive Fish Management Plan EA- NPS
- MAY 23\_ Feds find Quagga Mussels at Lake Powell\_ Herald Extra
- MAY 23\_ Global Warming: USGS study shows 20% decline in Rocky Mountain snow cover since 1980.
- MAY 28\_ Amphibians disappearing at alarming rate\_ Yahoo
- MAY 28\_ Future of Colorado River on agenda in San Diego\_ Yahoo

## ADDITIONAL

- Next Meeting: TWG: June 26 AMWG: Aug 7-9
- TBD
- QUICK FACT: 85% of the water that feeds the Colorado River water system comes from the snowpack that accumulates on the western slope of the Rocky Mountains of WY, UT, NM, CO.

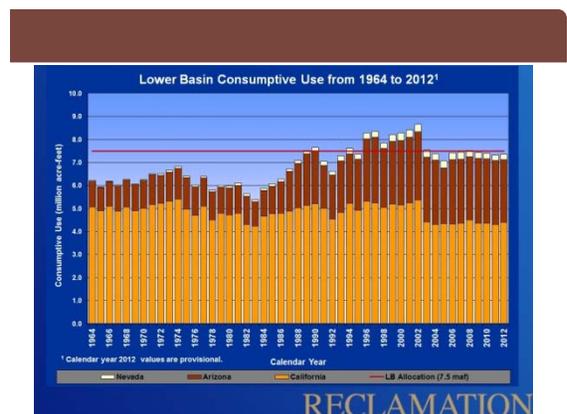
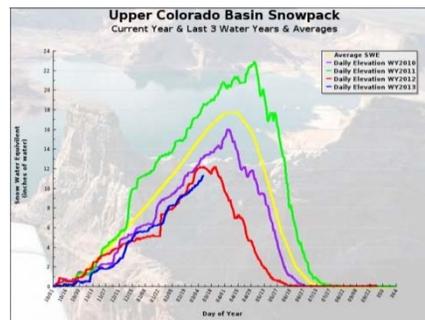
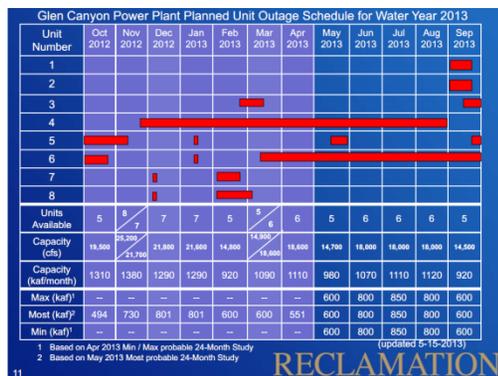


# GCDAMP SUMMARY--- DASHBOARD Technical Work Group- AHAHG

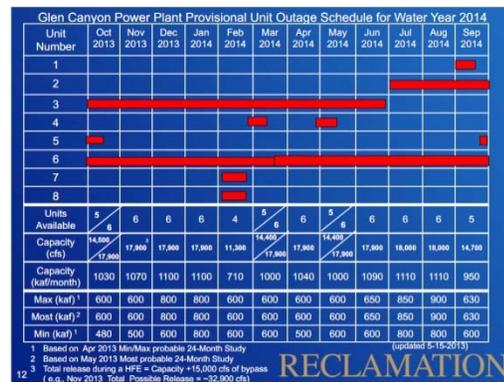
Provide quick insight to the status of the Colorado River as it applies to the Glen Canyon Dam Adaptive Management Program.



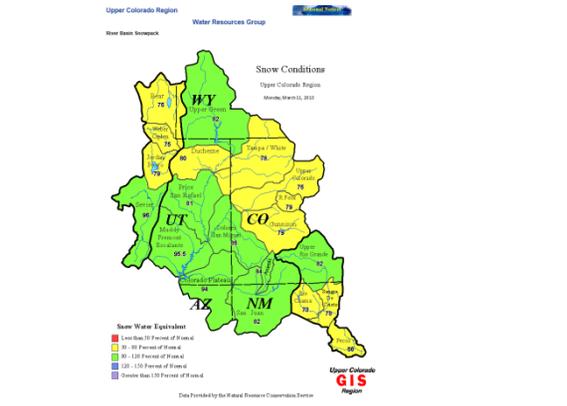
## HYDROPOWER AND WATER



## SEDIMENT MODEL



## HYDROGRAPH



- USBR
- Summit-tech
- GCMRC
- USGS

# STEPS Going Forward

[www.GCDAMP.com](http://www.GCDAMP.com)

- 1: Start to prioritize recommendations from the Administrative Prospectus
  - Consider budget type implications
- 2: Keep adding to the WIKI
- 3: January 2014 TWG

\*Still have a long way to go, but we now have a start.