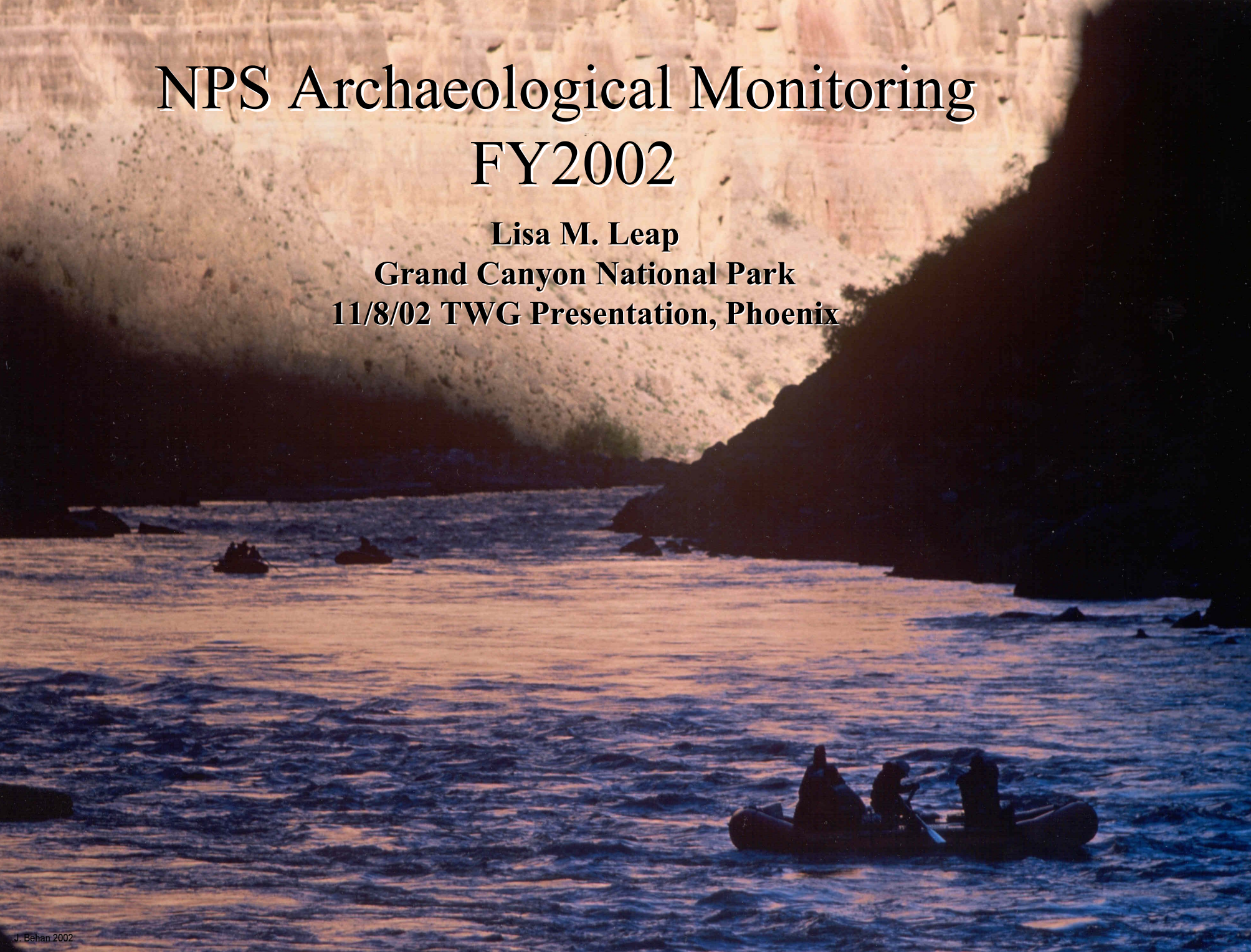


NPS Archaeological Monitoring FY2002

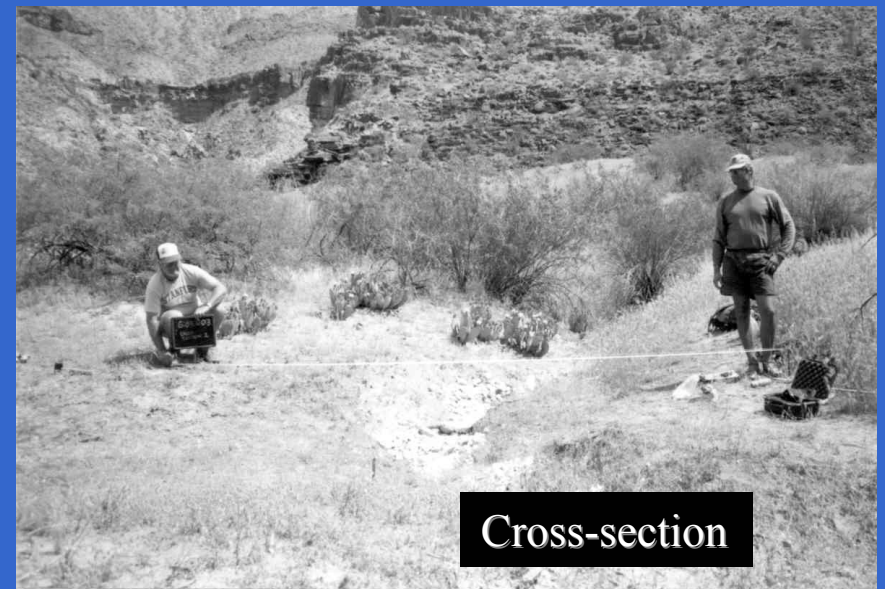
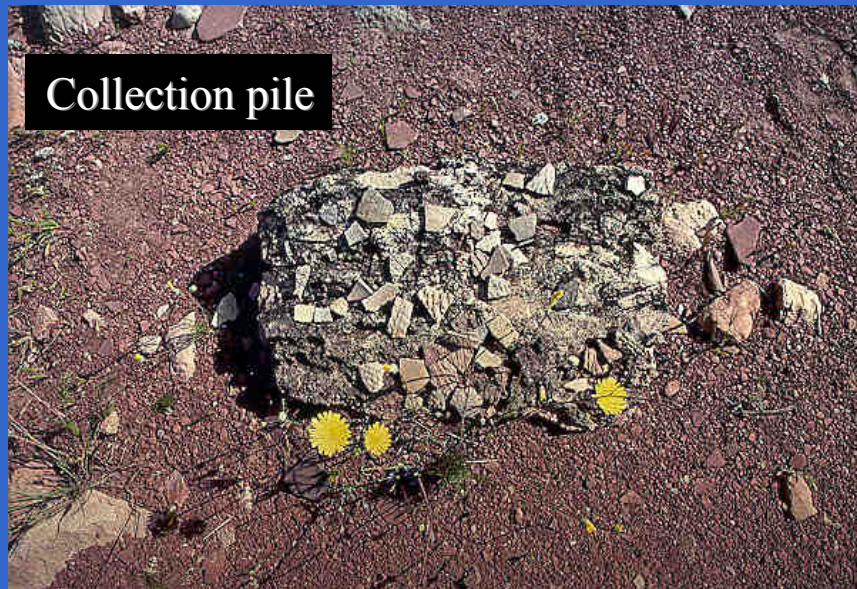
Lisa M. Leap
Grand Canyon National Park
11/8/02 TWG Presentation, Phoenix



Remedial Actions in FY02

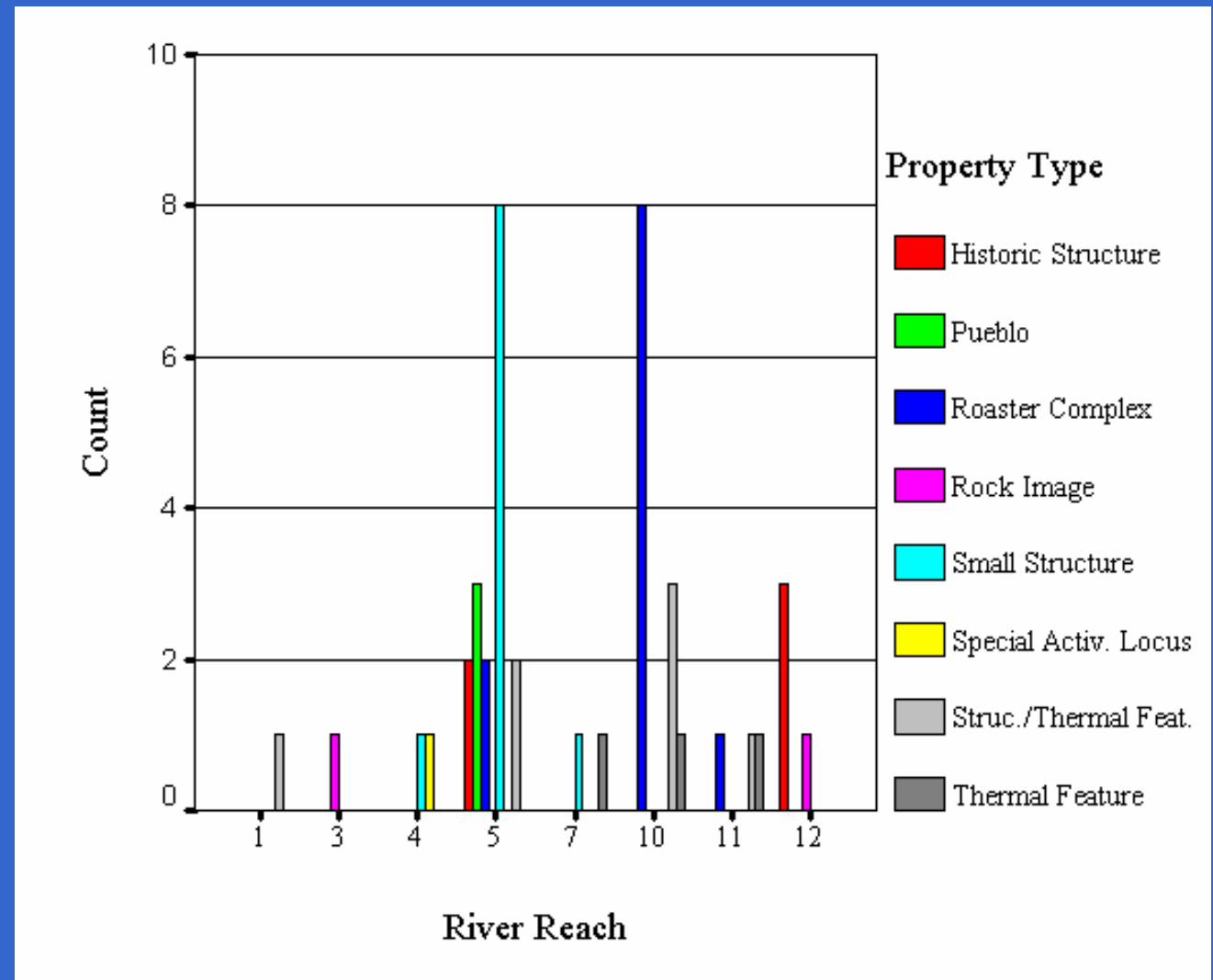
➤ *5 River Trips*

- 3 Cooperative River Trips (funded through NPS and outfitters).
- 1 Grand Canyon Monitoring and Research Center Trip (funded through GCMRC).
- 1 NPS Archaeology Monitoring Trip (funded through Reclamation)



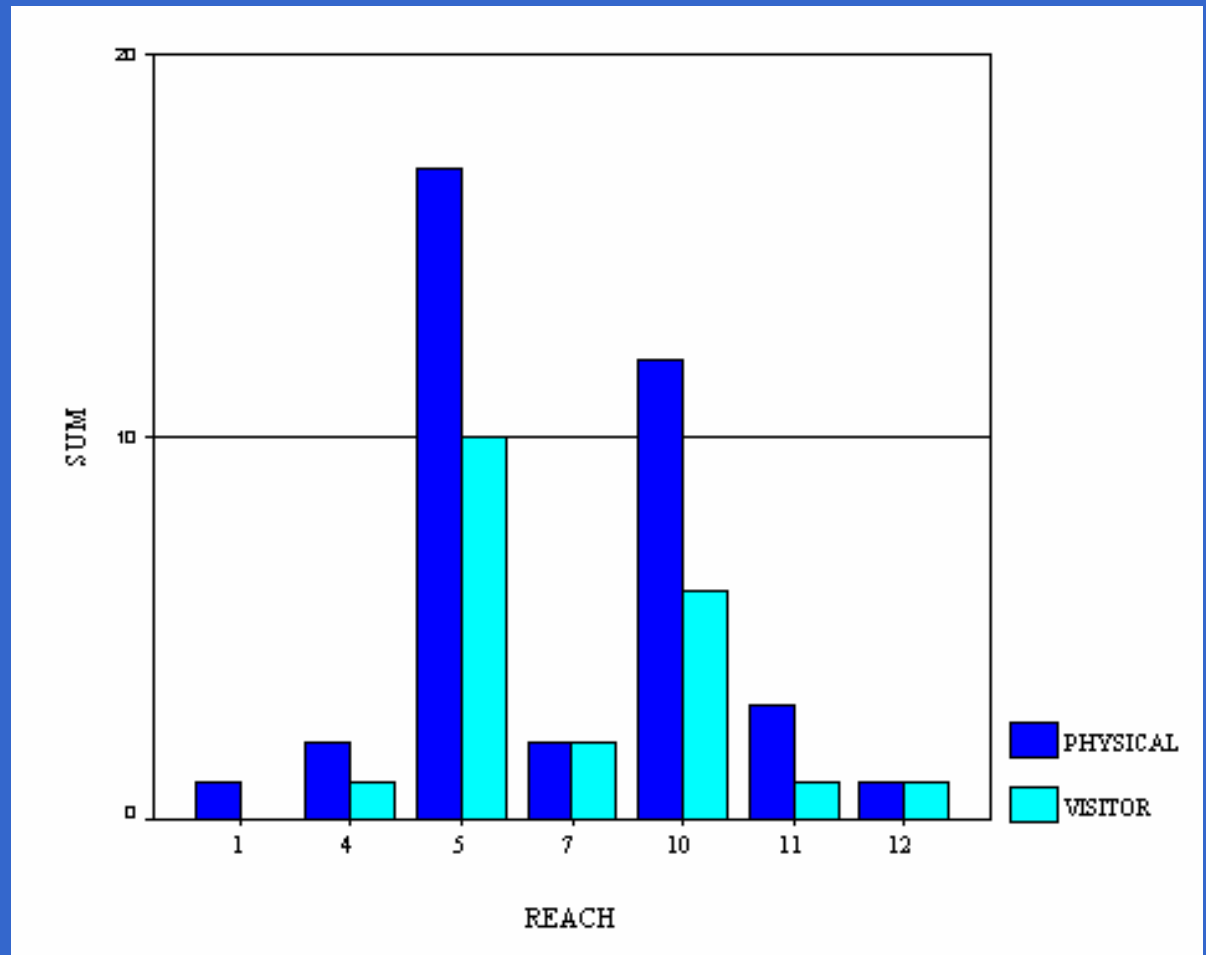
➤ 42 Sites Monitored in FY2002

- Sites with structures (pueblo, small structure, historic structure, or structure with thermal feature) comprise 60% of the sample.
- Roasting/thermal features or complexes comprise 33% of the sample



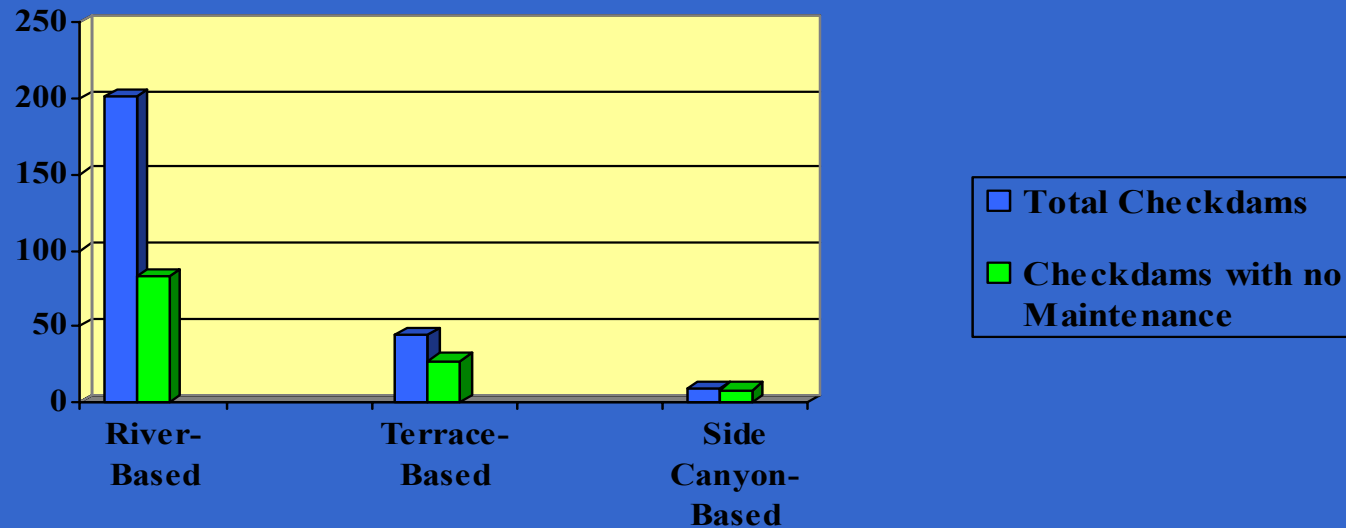
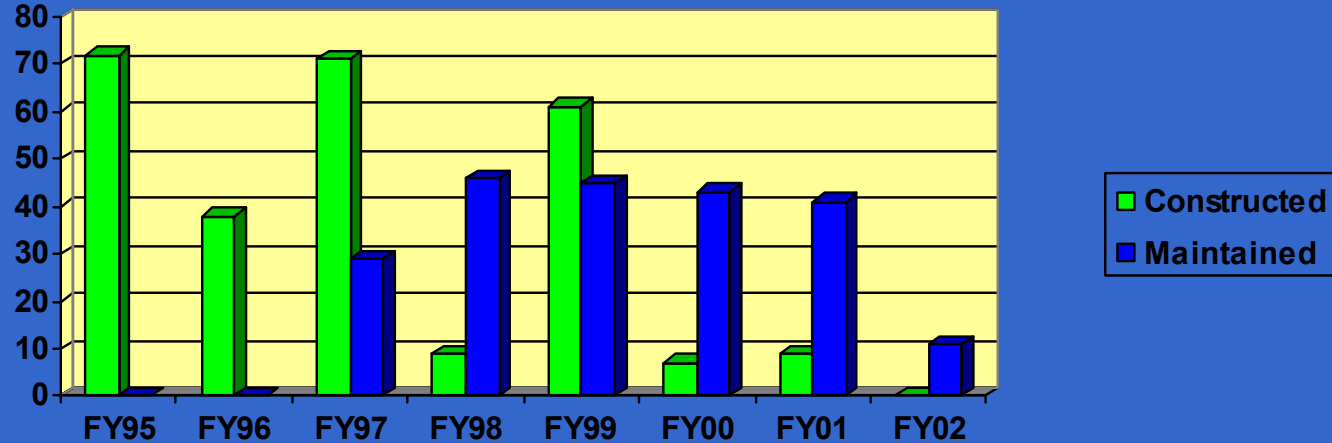
➤ *Summary of Impacts to Cultural Sites*

- Physical impacts observed at 92% of the sampled sites.
- Visitor impacts observed at 55% of the sampled sites.
- Physical impact frequency exceeds visitor impact frequency in reaches 4, 5, 10, and 11.

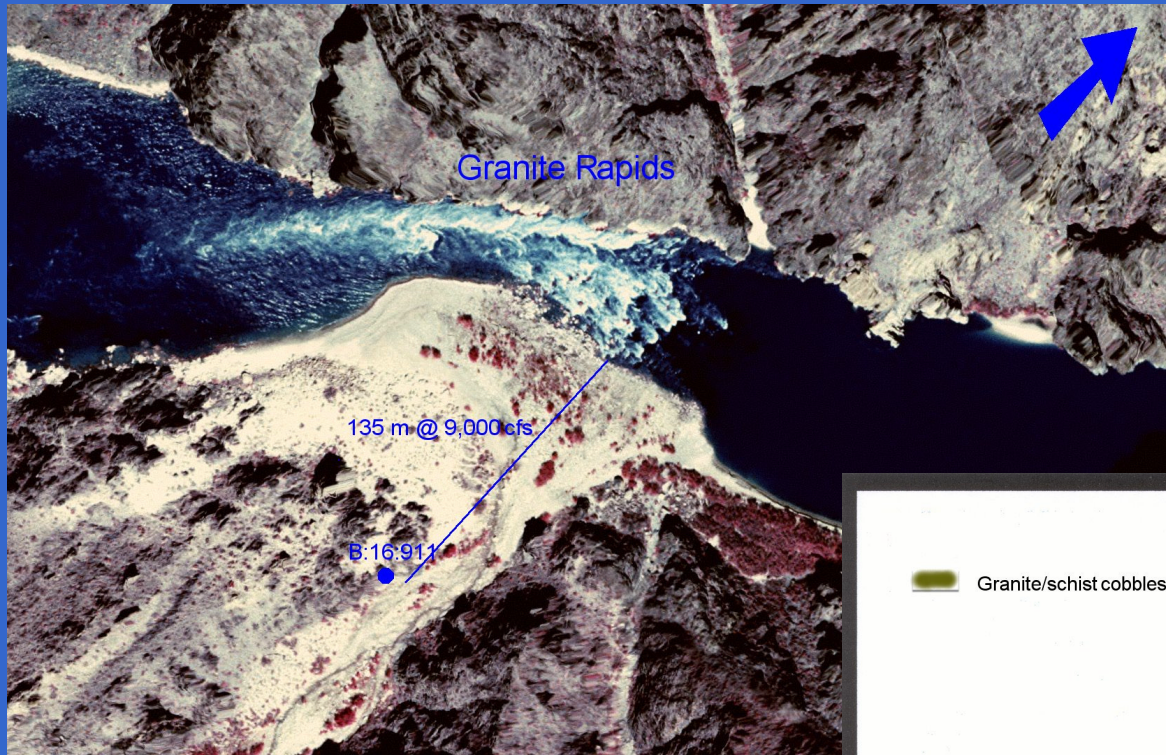


➤ *Checkdam Updates*

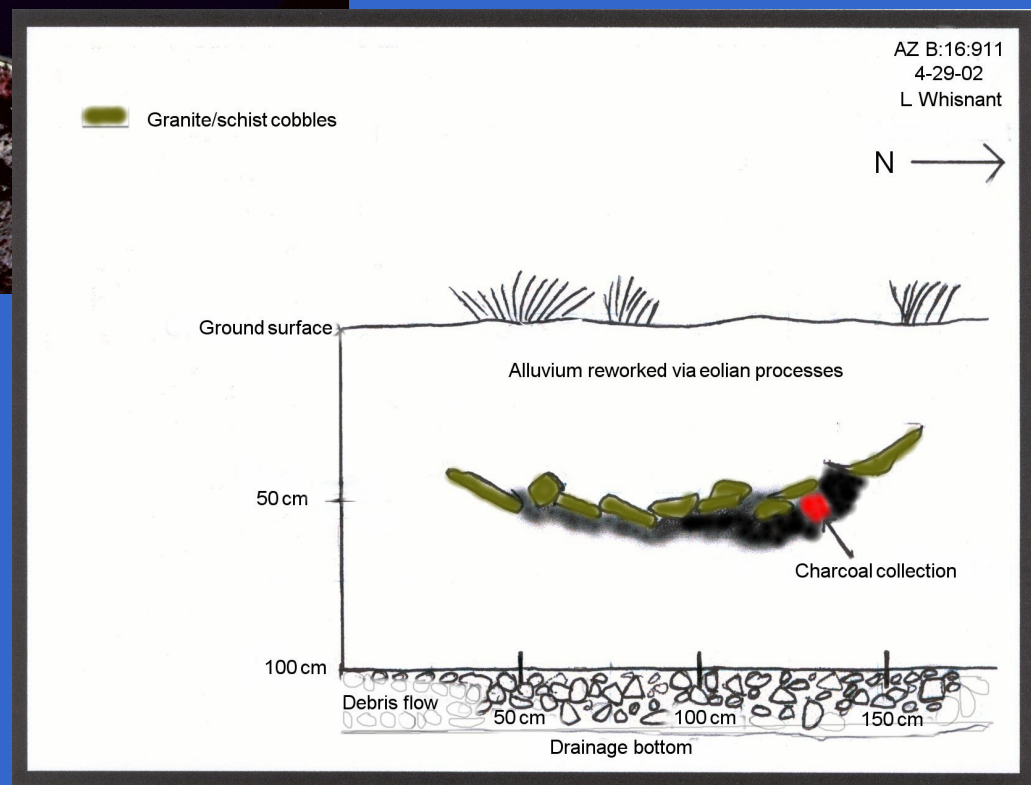
- 254 checkdams -- construction verses maintenance.
- Since initial construction 119 (47%) have required no maintenance.
- Maintenance is mainly on on river-based drainages.



➤ *New Site Discovered via Monitoring*

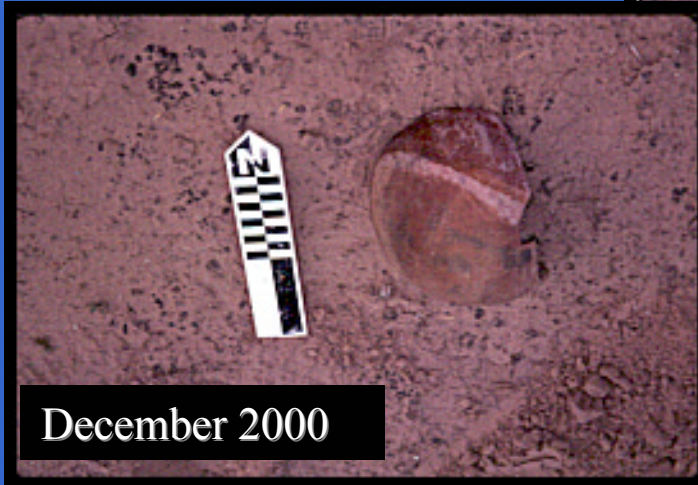


Shallow roasting
feature (pit)



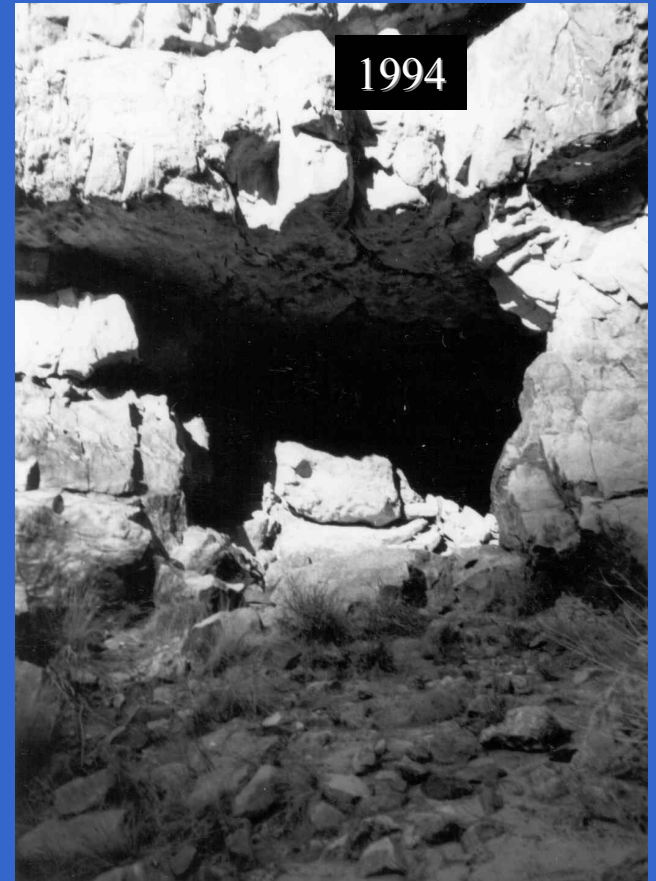
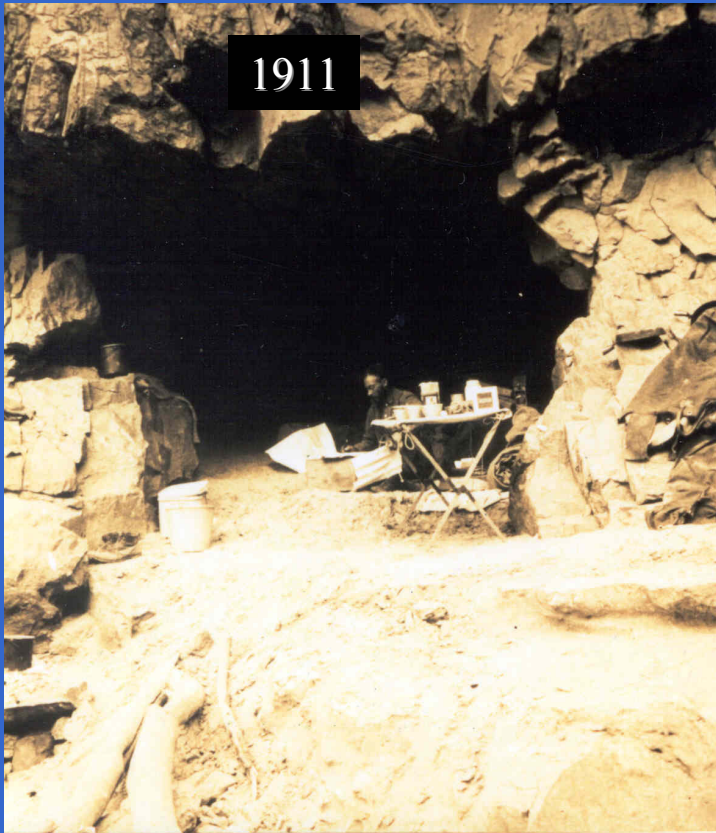
➤ *Exposed Burial*

- Vessels indicate Puebloan ancestry dating circa AD 1175.



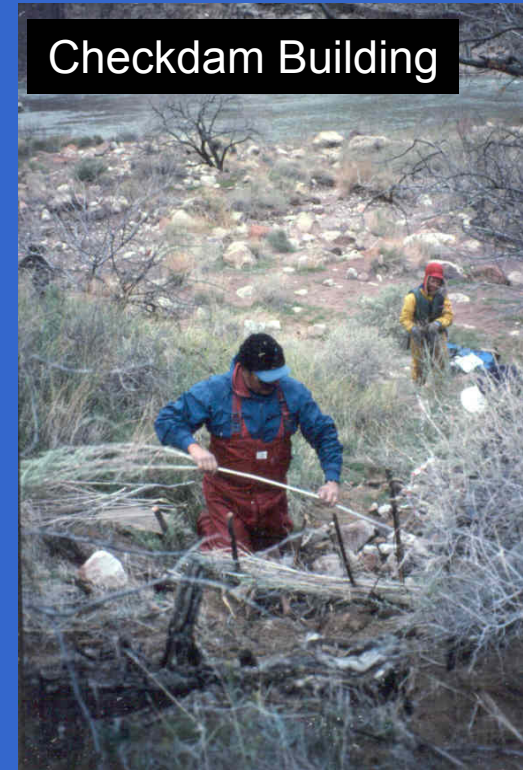
Other Activities

- *Photographs to Determine Geomorphological Processes -- NAU*
- *CDROM Project -- NAU*
- *Database Improvements -- NAU*



Work Proposed for FY2003

- *92 sites are scheduled for monitoring.*
- *105 remedial actions are recommended with some sites having multiple recommendations.*
 - Preservation Treatment (74 sites For checkdams, planting vegetation, trailwork, and other preservation work)
 - Recovery Treatment (31 sites for data recovery)



➤ *River Trip Participation (5 trips)*

- 2 CRF trips sponsored by NPS and commercial outfitters.
- 1 trip sponsored by the Arizona Water Protection agency, GRCA, and the Grand Canyon Wildlands Council
- 1 GCMRC sponsored trip
- 1 NPS trip funded through BOR
- There are other trips that we may accompany but are not scheduled formally (i.e., tribal trips and other research trips).



➤ *Laboratory Work*

- Application testing, data migration/cleaning, data documentation, and design modification.



- Two excavation reports by NAU.
- Digital site map images
- Plot archaeological sites on orthophotos.

➤ *Educational Outreach*

- Cultural resource orientations for researchers
- Checkdam research with the Arizona Department of Water Resources and the Arizona Water Protection



- Guides Training Seminar
- Grand Canyon Field Institute
- Colorado River Management Plan