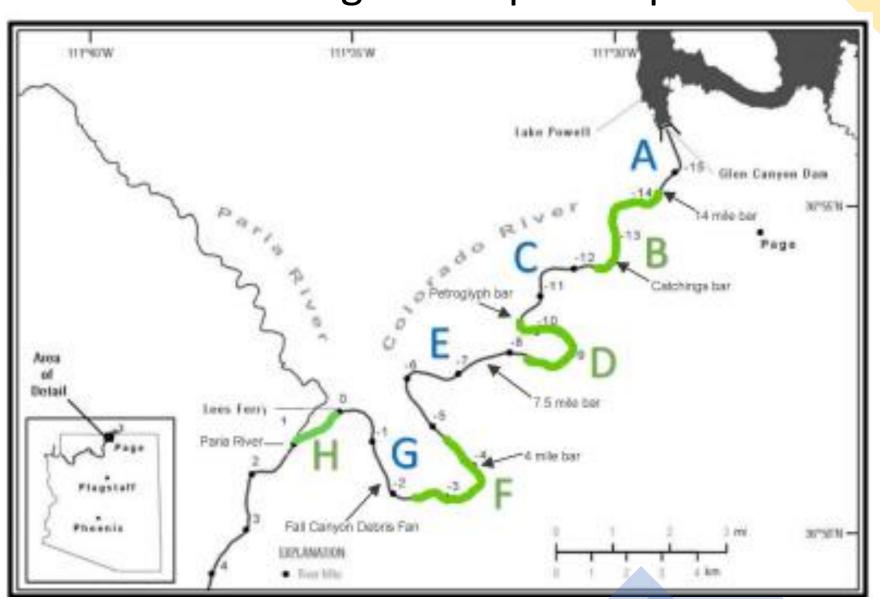
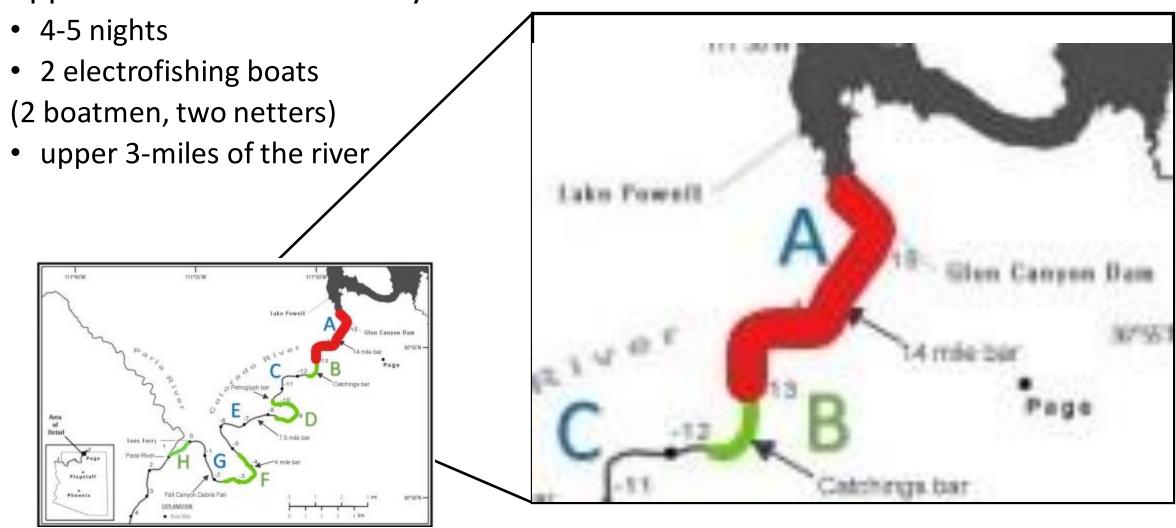
Glen Canyon National Recreation Area 2023 Monitoring and Rapid Response Plans



Pre- and Post- HFE Electrofishing

Objective - to determine current distribution and densities of SMB and GSF in upper reaches of Glen Canyon before and after an HFE.



Netting

- 4 mainstem regions (approximately 5.2 miles each)
 - 250 m sections

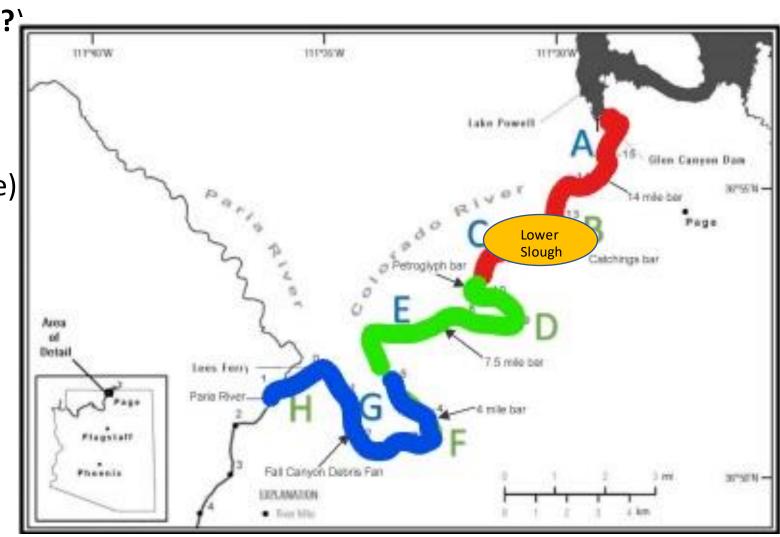
• Each region sampled every 2 weeks (4 large fyke nets; 4 small fyke nets; 10 baited

hoop nets, limited gill nets?

• 1 backwater region

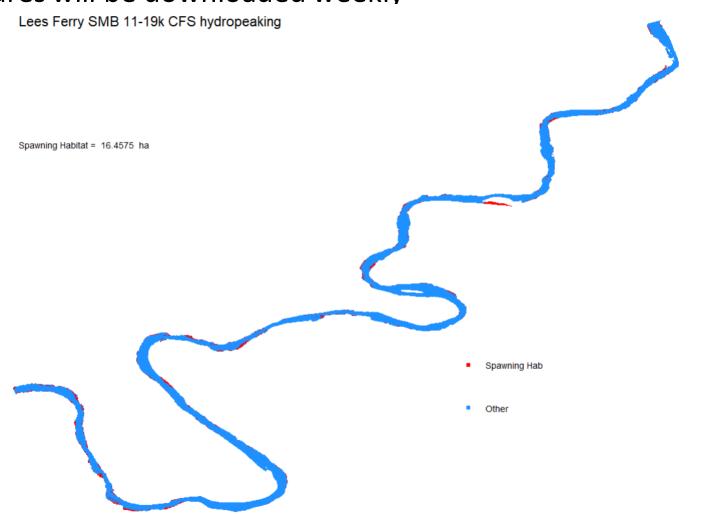
• (Lower Slough @ -12 mile)

Sampled every 2 week
 (4 large fyke nets; 4 small fyke)



Snorkel Surveys

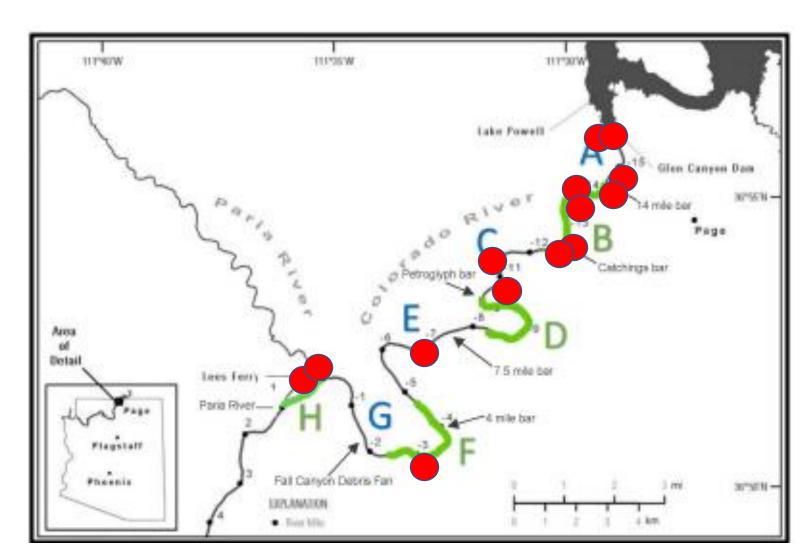
Conduct snorkel surveys in areas of suitable SMB spawning habitat using maps provided by USGS. Snorkel surveys will begin when river water temperatures increase to 14°C and above. Slough temperatures will be downloaded weekly



Map provided by USGS Drew Eppehimer

Electrofishing

- Boat electrofishing
 - nonnative fish hotspots (Once every two week, ~ 14 sites)
 - Lower slough once each week
 - high SMB density areas as identified last fall by our rapid response efforts.
 - increase sampling with warmer water temperatures



Rapid Response

Electrofishing - GLCA and GRCA is working on a Task Agreement/Contract for boatmen (and possibly field assistance) to assist with a 8-16 week electrofishing Rapid Response (September/October)

- Will look at a boat electrofishing Rapid Response effort of entire Glen Canyon Reach
- Chemical Treatment-Purchase of Supplies
 - Targeted backwater areas
 For example Lower and Upper Slough

