

Glen Canyon Dam Adaptive Management Work Group
Agenda Item Information
May 8th, 2013

Agenda Item

Science Update

Action Requested

None

Presenters

Jack Schmidt, Chief, Grand Canyon Monitoring and Research Center
Scott VanderKooi, acting Deputy Chief and Biology Program Manager, Grand Canyon
Monitoring and Research Center

Previous Action Taken

Monitoring and research work conducted by the GCMRC is described in the FY13/14
Biennial Work Plan.

Relevant Science

Recent progress concerning on-going monitoring and research work in the Colorado River
ecosystem (CRE) will be presented.

A new GCMRC website: <[http://www.gcmrc.gov/discharge qw sediment/](http://www.gcmrc.gov/discharge_qw_sediment/)> makes
discharge, sediment transport, sediment mass balance, and water quality monitoring data
available to all users. This website will facilitate more effective monitoring of sediment
inflows to the CRE during the sediment accumulation periods associated with the High
Flow Experiment (HFE) Protocol.

Continued monitoring of rainbow trout allows preliminary evaluation of the effects of the
November 2012 HFE on the population and condition of trout in Glen Canyon and the
distribution of trout in Marble Canyon.

Background Information



GCMRC Science Update – Biology

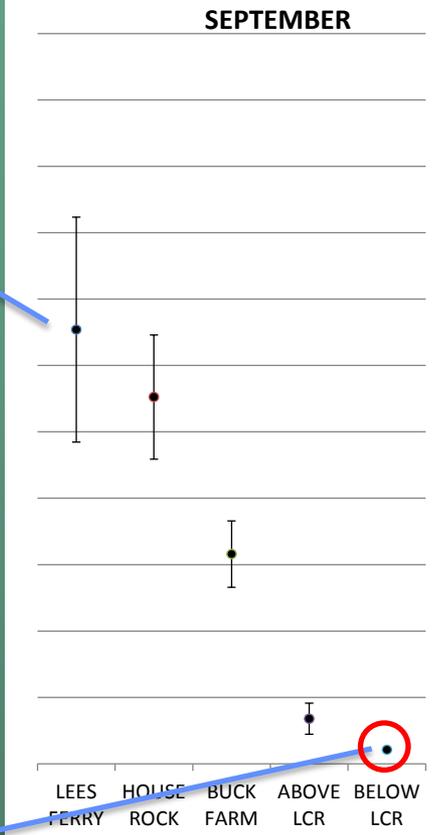
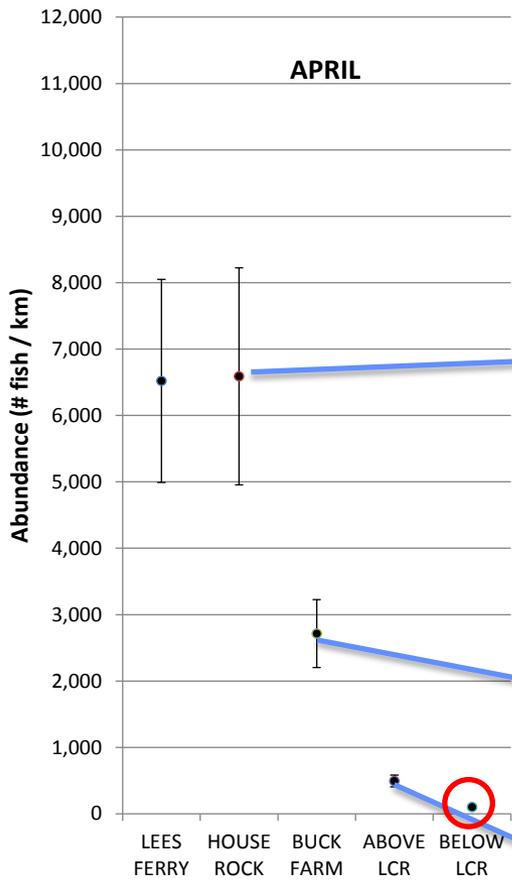
Scott VanderKooi

Southwest Biological Science Center

Grand Canyon Monitoring and Research Center

Rainbow Trout Natal Origins: Glen Canyon and Marble Canyon



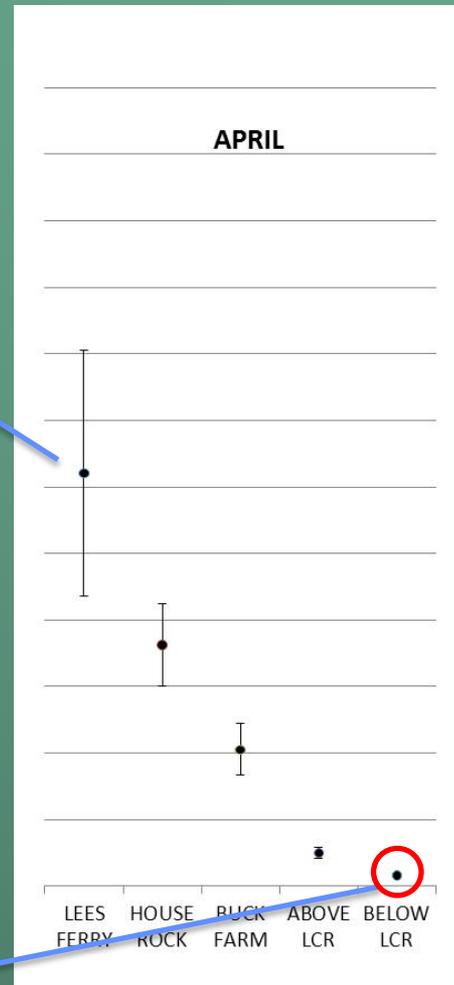
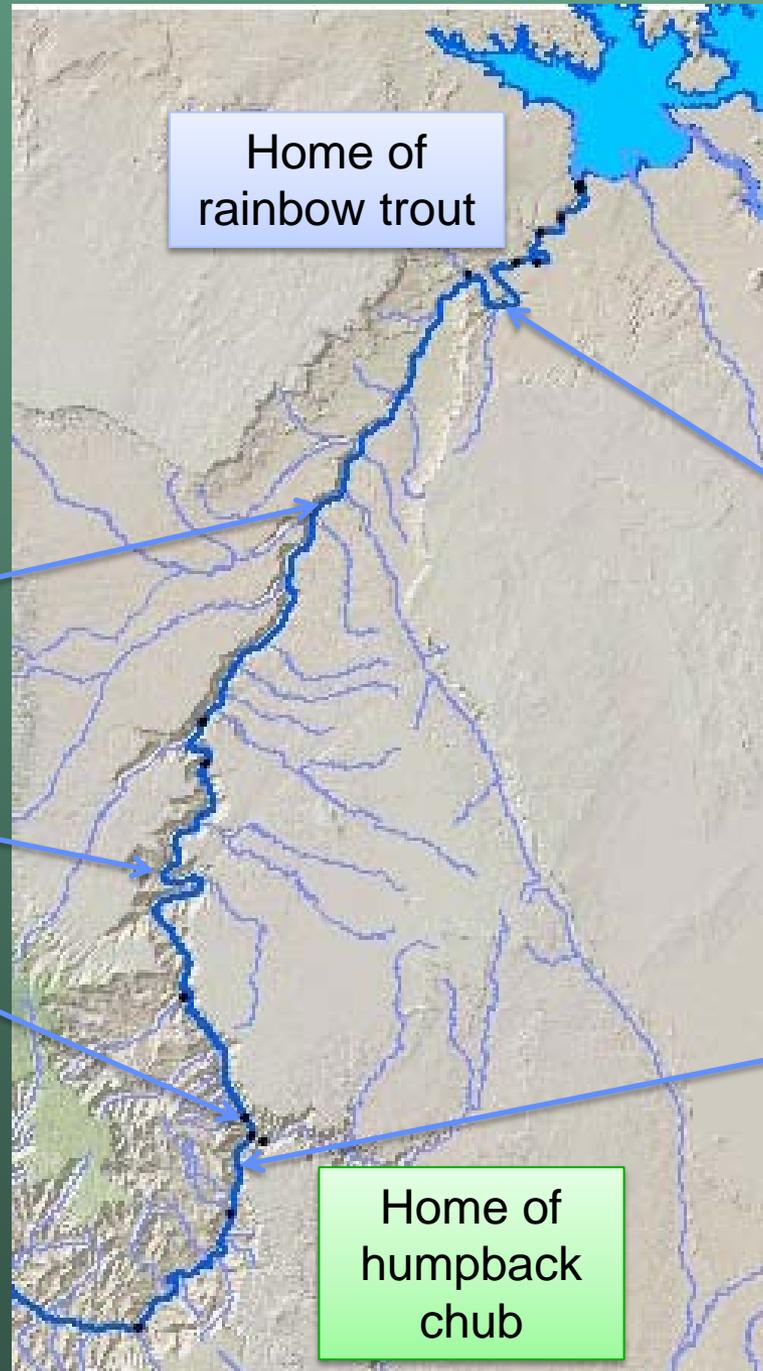
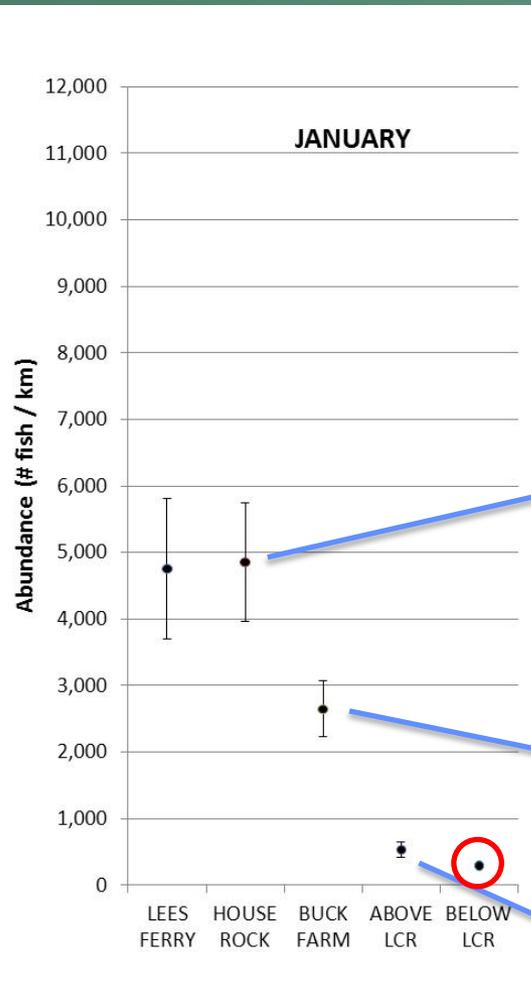


Korman and Yard 2013, unpubl. 2012 sampling data



Home of humpback chub

2012: Rainbow trout populations very high in the upstream third of Marble Canyon, but very low where humpback chub live



Korman and Yard 2013, unpubl. 2013 sampling data



Home of humpback chub

2013: Pattern continues, rainbow trout populations very high upstream, but very low where humpback chub live



Age-0 Rainbow Trout Movement in Glen Canyon: October to December 2012

