



# Chute Falls Translocation Update

Kirk Young, Dennis Stone, Randy  
VanHaverbeke, Michael Pillow  
USFWS

# Outline

- Translocation Fish Collection Changes
- Chute Falls - Interesting Findings and Manuscript Update
- September Sediment Event



# Little Colorado River

Lower Reach/Atomizer



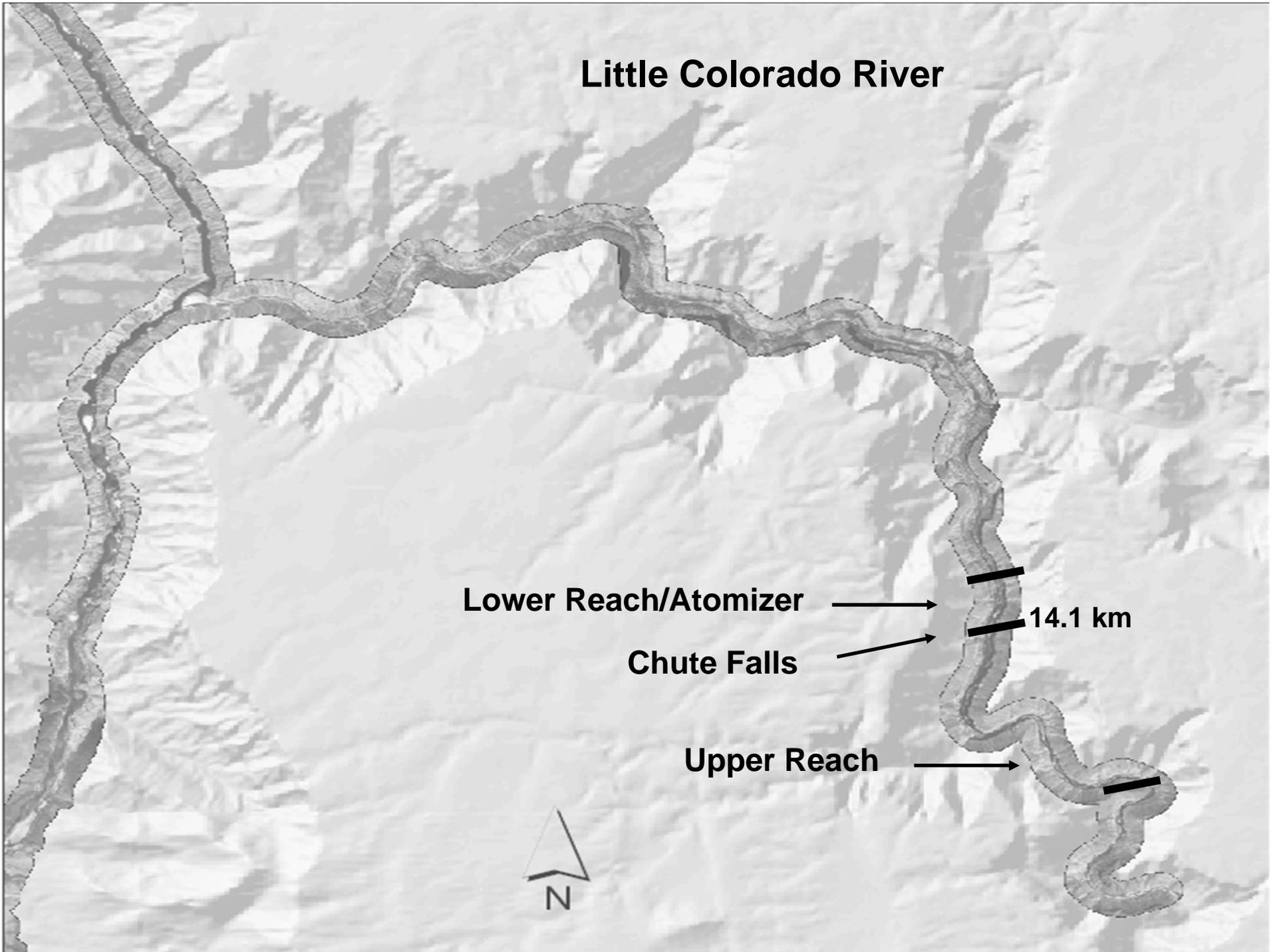
Chute Falls



Upper Reach



14.1 km



## Translocation Fish Collection Changes

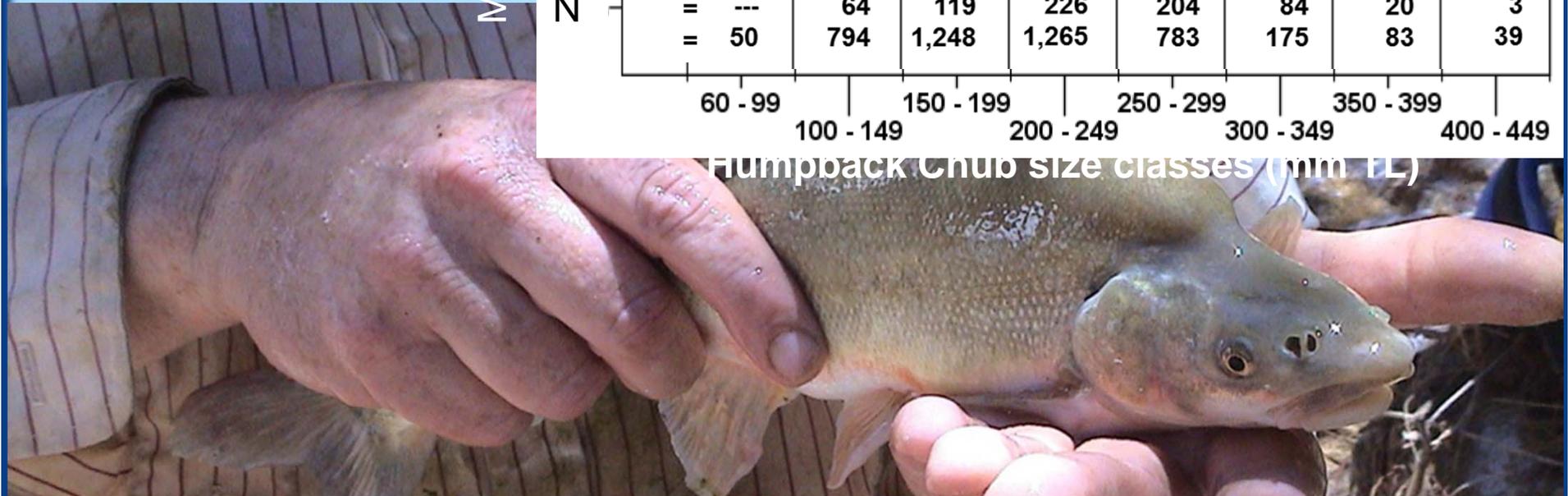
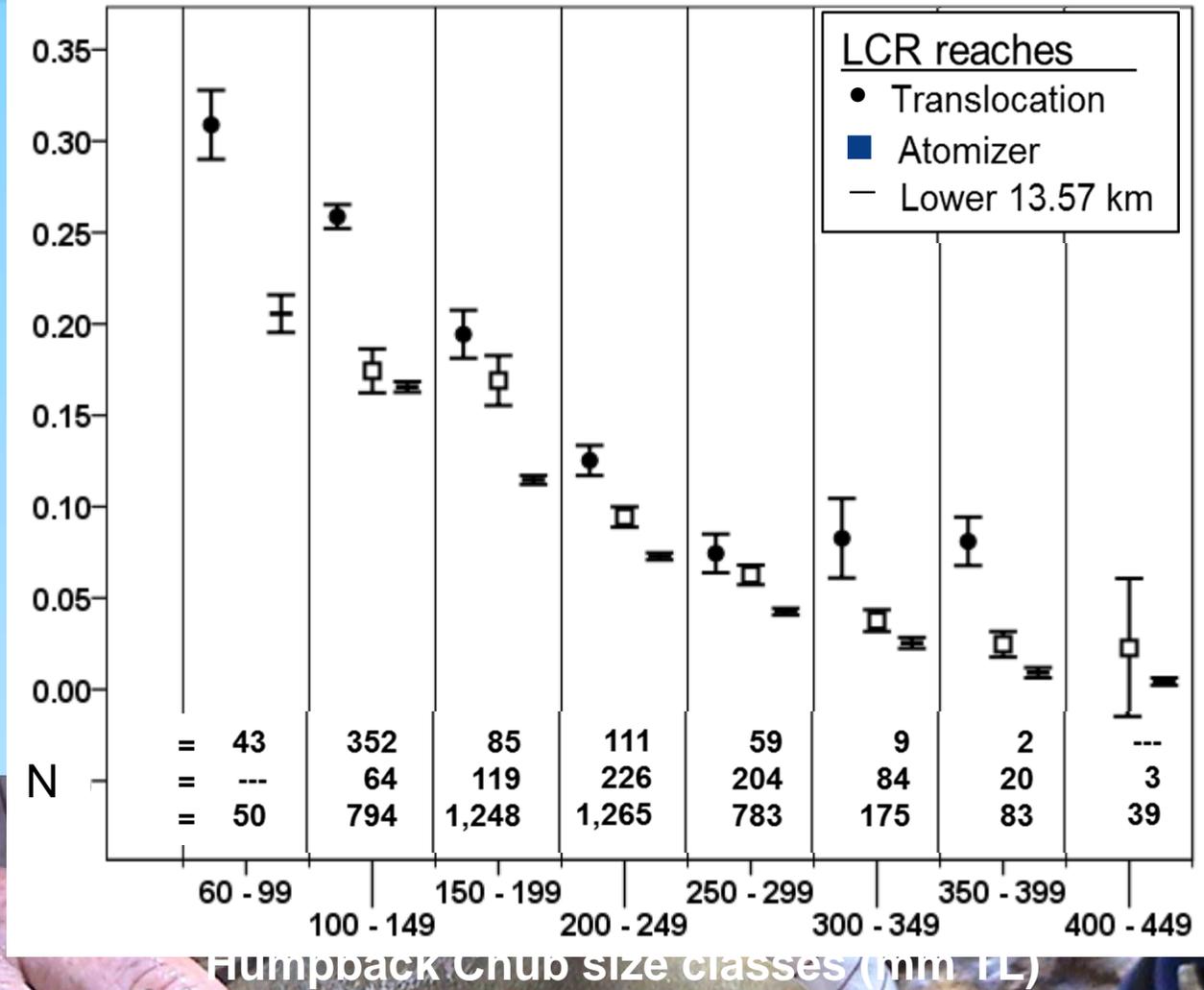
- Larval Collection – May (Hav & Shin)
- YOY Collection – Oct. (Chute)
- July Trans. Effort Eliminated
  - \$\$\$
  - Reduced LCR Traffic



# Interesting Findings

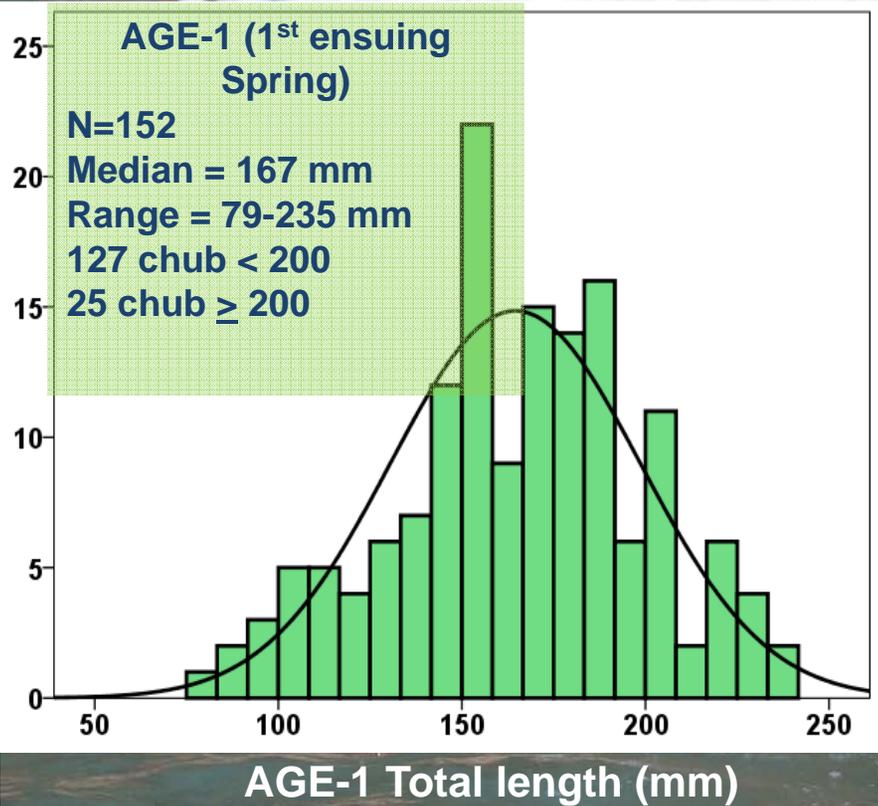
## ■ Growth

Mean growth rates  $\pm$  2 SE (mm/day)



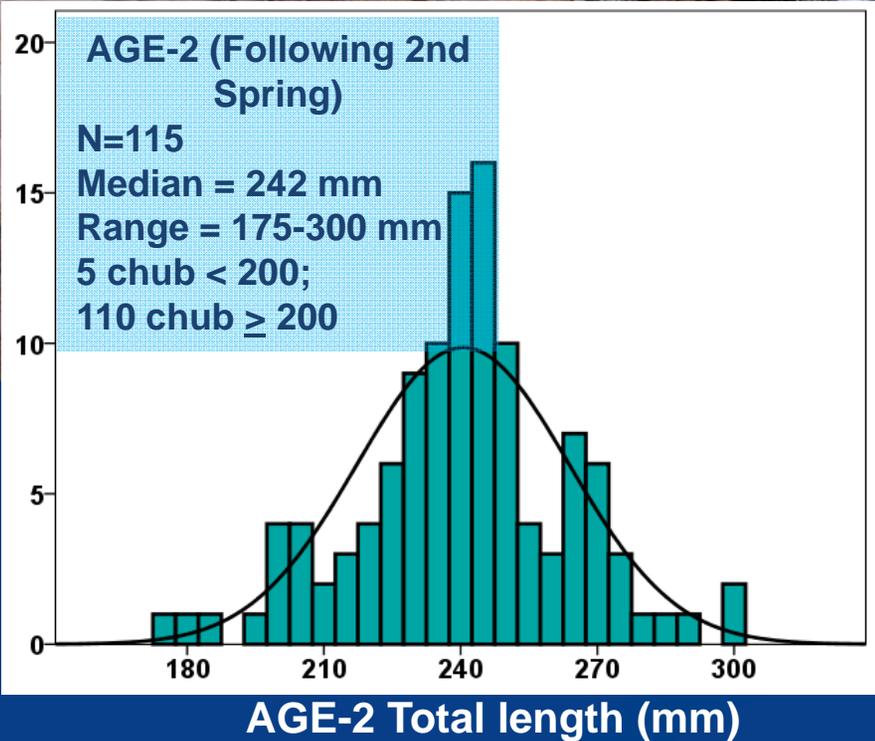
## Growth cont.

By the 1<sup>st</sup> ensuing spring since being released **16% of age-1** chub had achieved adulthood ( $\geq 200$  mm TL)!



## Growth cont.

By the 2nd ensuing spring since being released **96% of age-2 chub** had achieved adulthood.



Manuscript Soon!?

## **September Sediment Event (25 Sep 2014)**

- **Highest turbidity reading of 415 daily measurements (189,696 NTU)**
- **Water settled in 5-gallon buckets resulted in only 2 inches of water (only 1/7 of each bucket)**
- **Hoop nets buried**
- **HBC, SPD, BHS, FMS, CRP, CCF shifted to shoreline in respiratory distress**
- **A few HBC, BHS, SPD and many CRP were known to have died**
- **Native fish catches were relatively good the next trip!**

# Thank You

