



Update on Native and Non-Native Fish Populations

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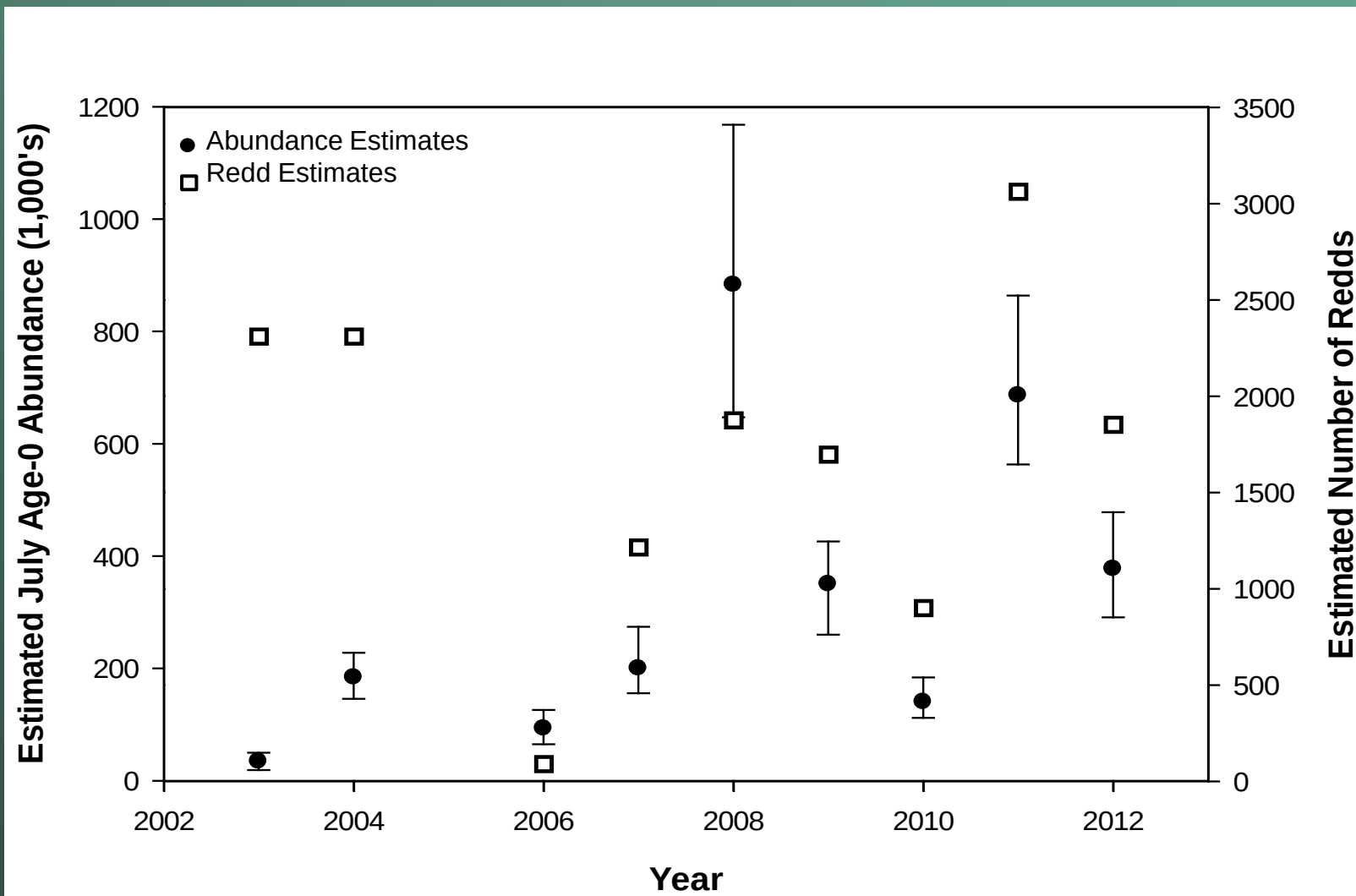
Fish Sampling to Date in 2012

- Spring 2012: RTELSS Sampling in Glen Canyon, Lees Ferry Electrofishing, Mainstem Electrofishing, Natal Origins/Juvenile Chub Monitoring, HBC Monitoring in the Little Colorado River
- Summer 2012: Lees Ferry Electrofishing, Natal Origins/Juvenile Chub Monitoring

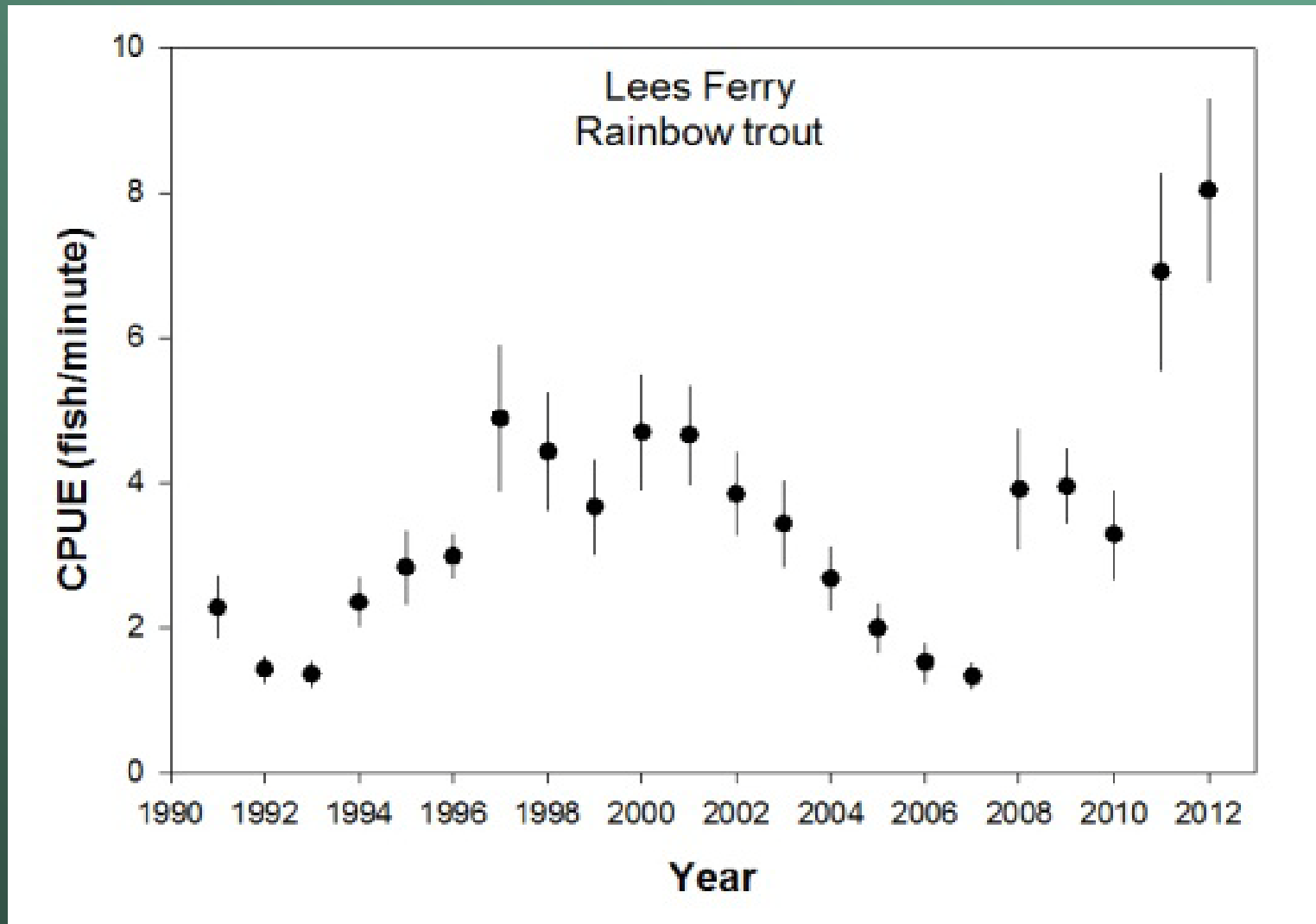




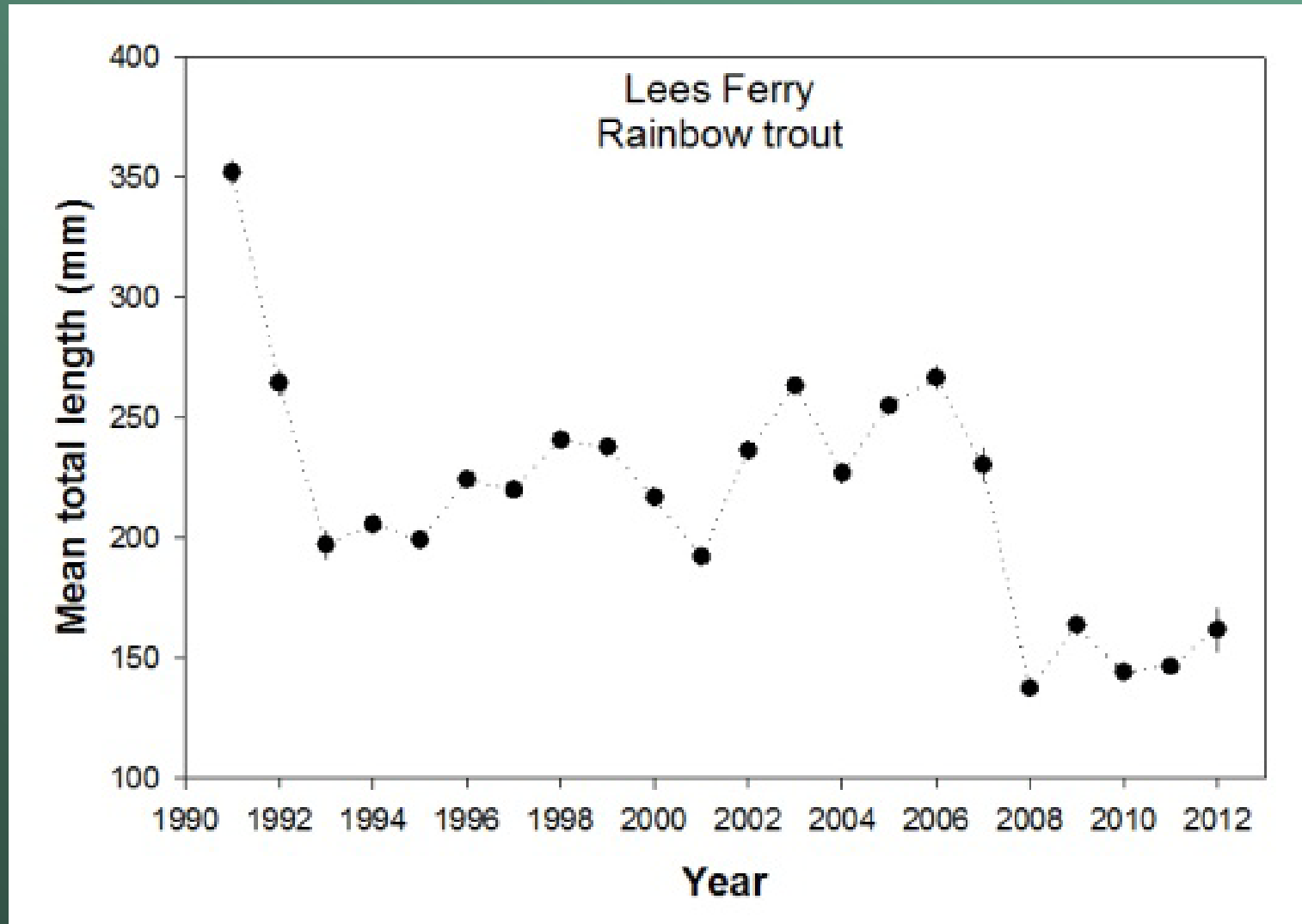
RTELSS Sampling in Glen Canyon



Lees Ferry Electrofishing (AZG&F)

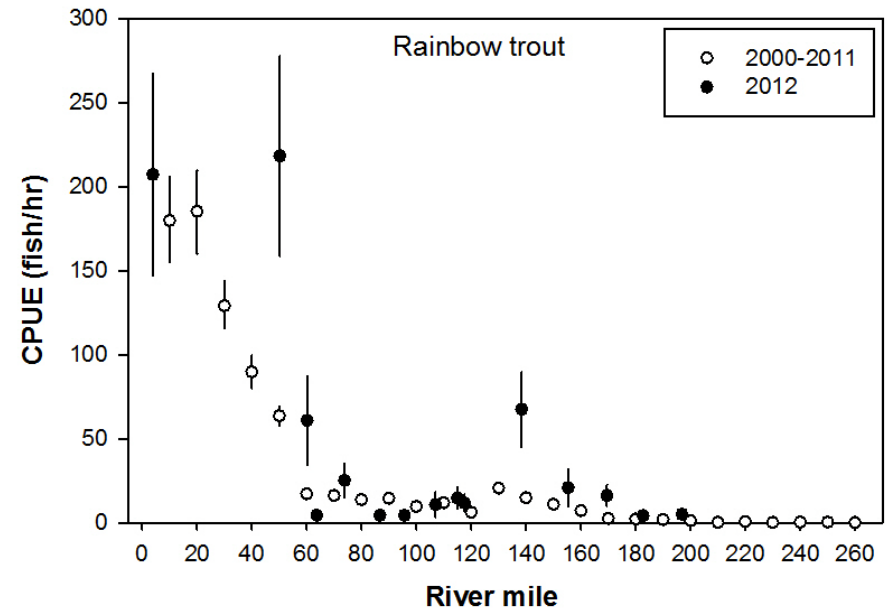
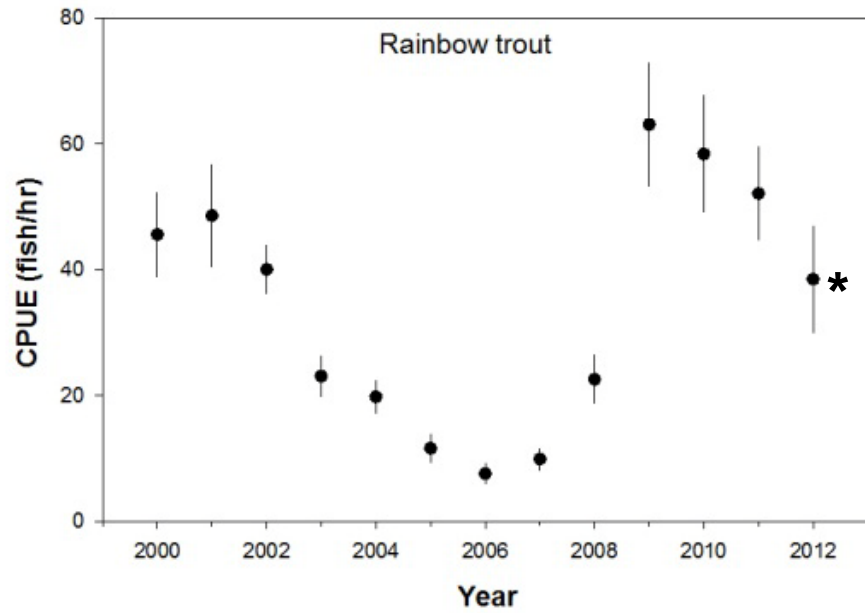


Lees Ferry Electrofishing (AZG&F)





Mainstem Electrofishing (AZG&F)

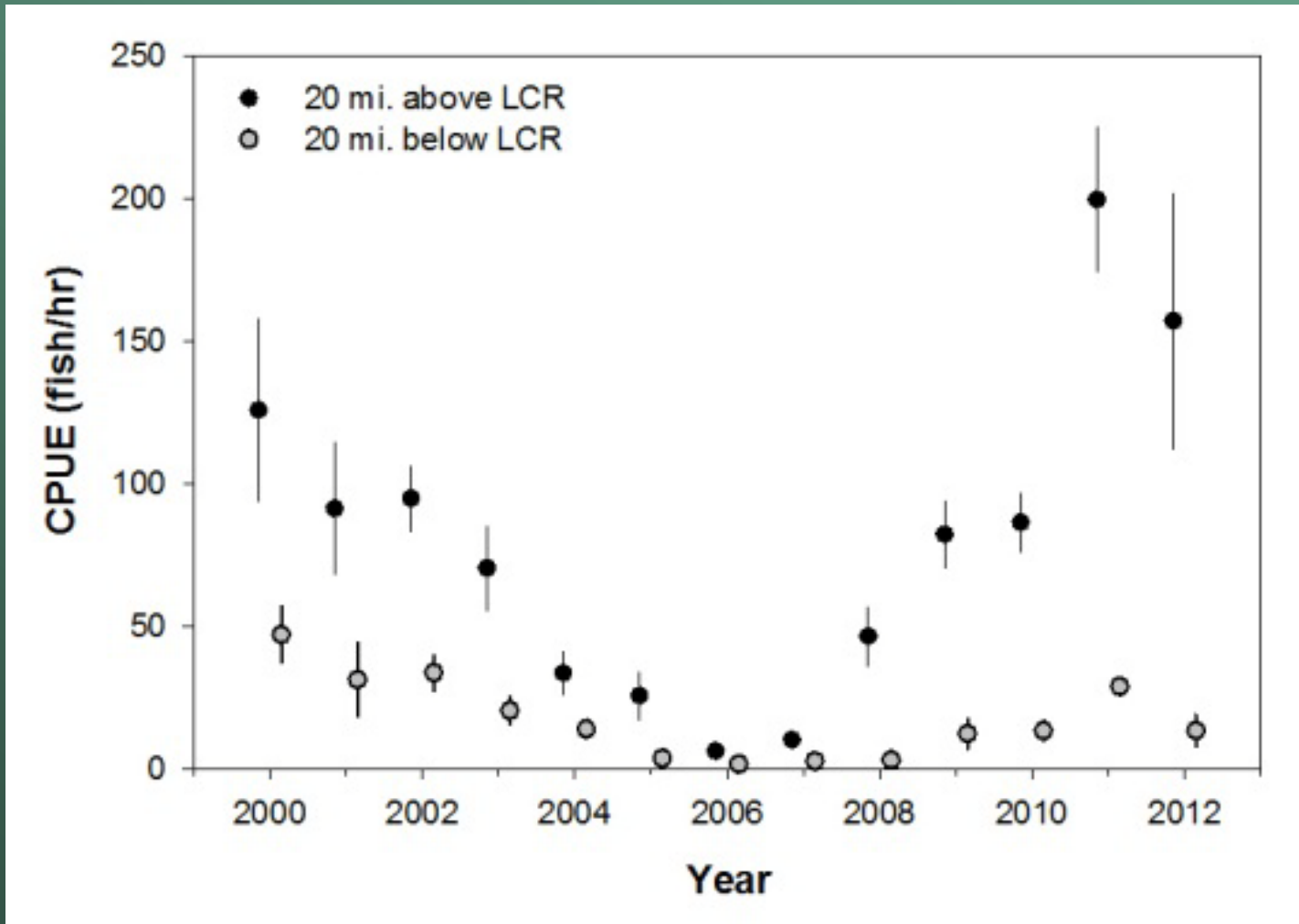


(*Does not include data downstream of Diamond Creek)

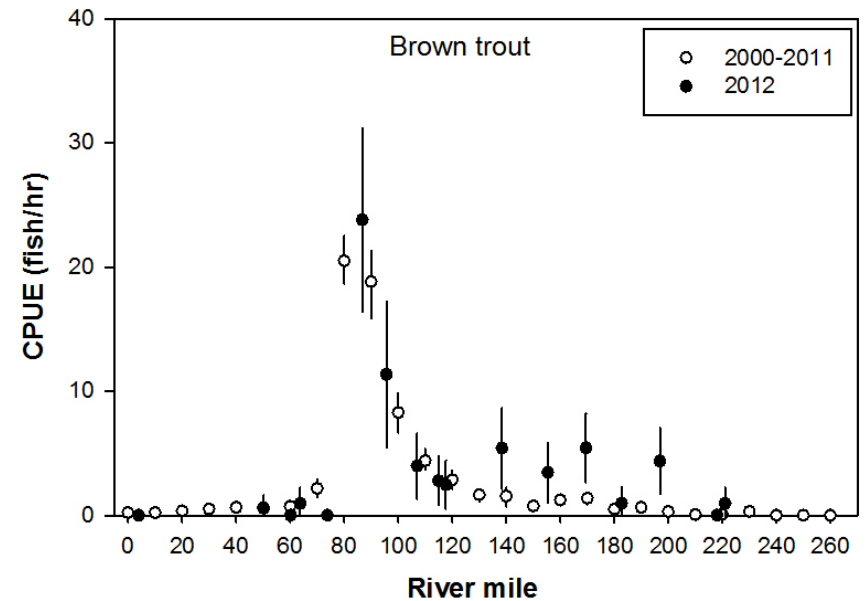
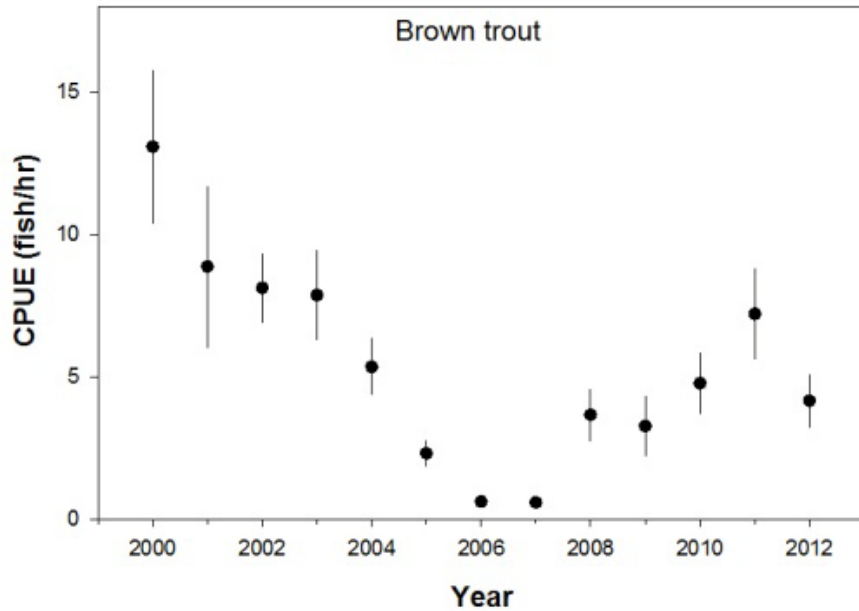


Photo: George Andrejko

Mainstem Electrofishing (AZG&F)



Mainstem Electrofishing (AZG&F)



Natal Origins – Rainbow Trout Data

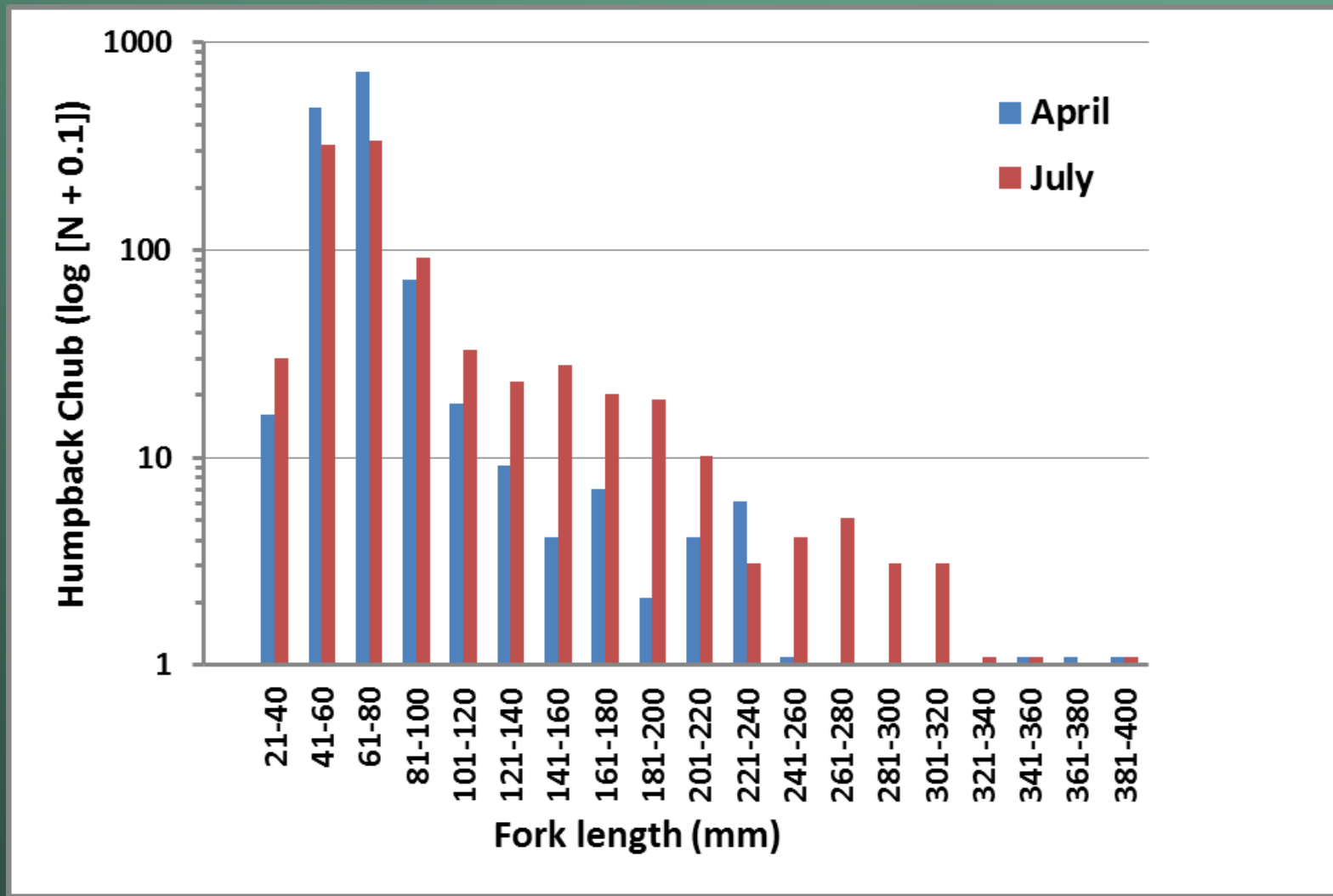
Reach	April, 2012			July, 2012		
	Catch	pCap	N/km	Catch	pCap	N/km
I (Lees Ferry)	4,421	0.08	6,952	4,405	0.04*	14,213*
II (~ 20 Mile)	3,945	0.07	6,852	3,961	0.1	3,860
III (~ 40 mile)	2,689	0.13	2,313	2,730	0.14	2,375
IVa (Upstream LCR)	376	0.21	352	428	0.19	479
IVb (Downstream LCR)	55	0.17	90	99	0.21	98
Total	11,486			11,623		

(*Estimates of pCap and density affected by equipment issues)



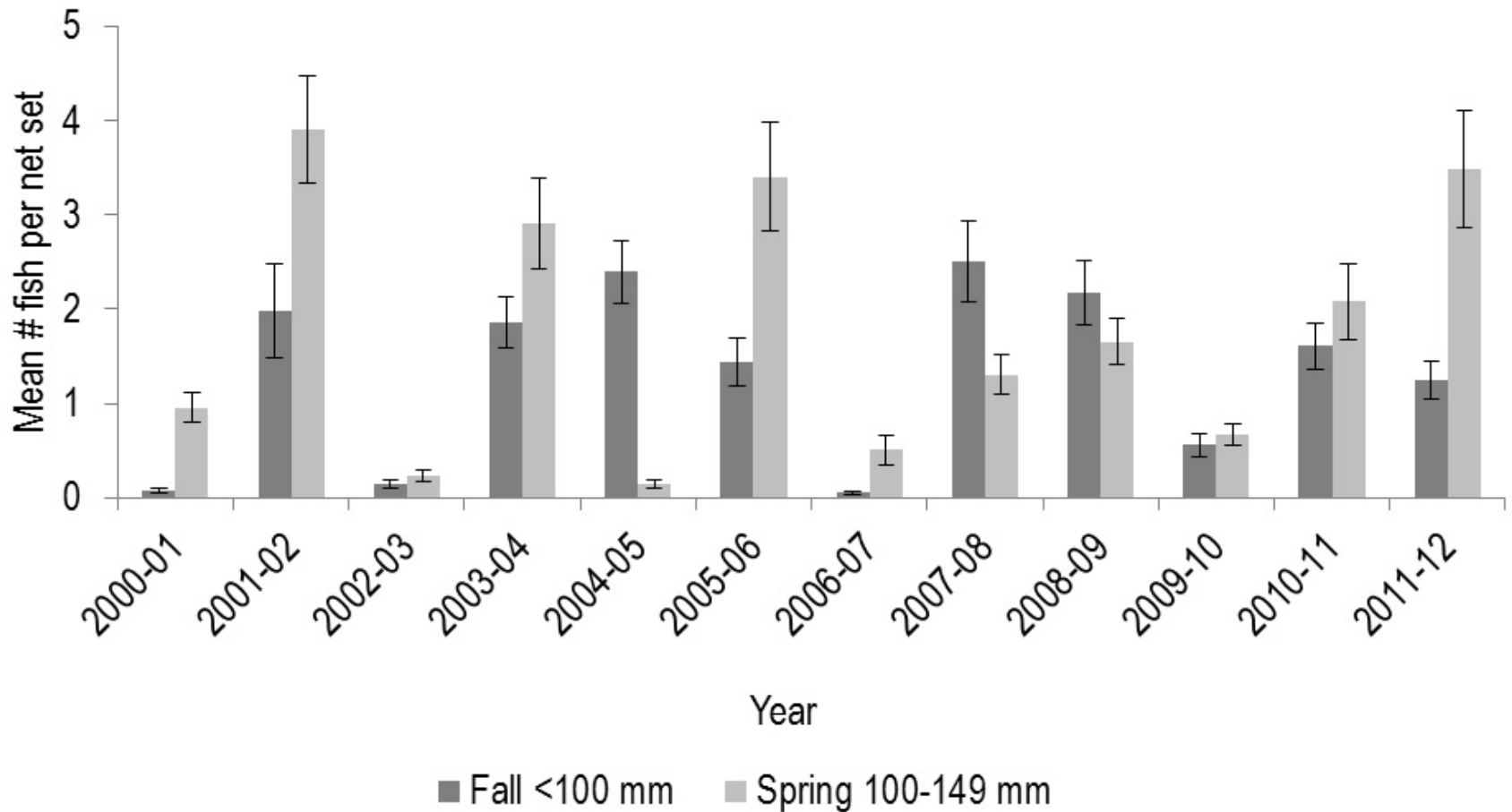
(Preliminary Data from Korman et al. 2012, Unpublished)

Mainstem Juvenile Chub Monitoring

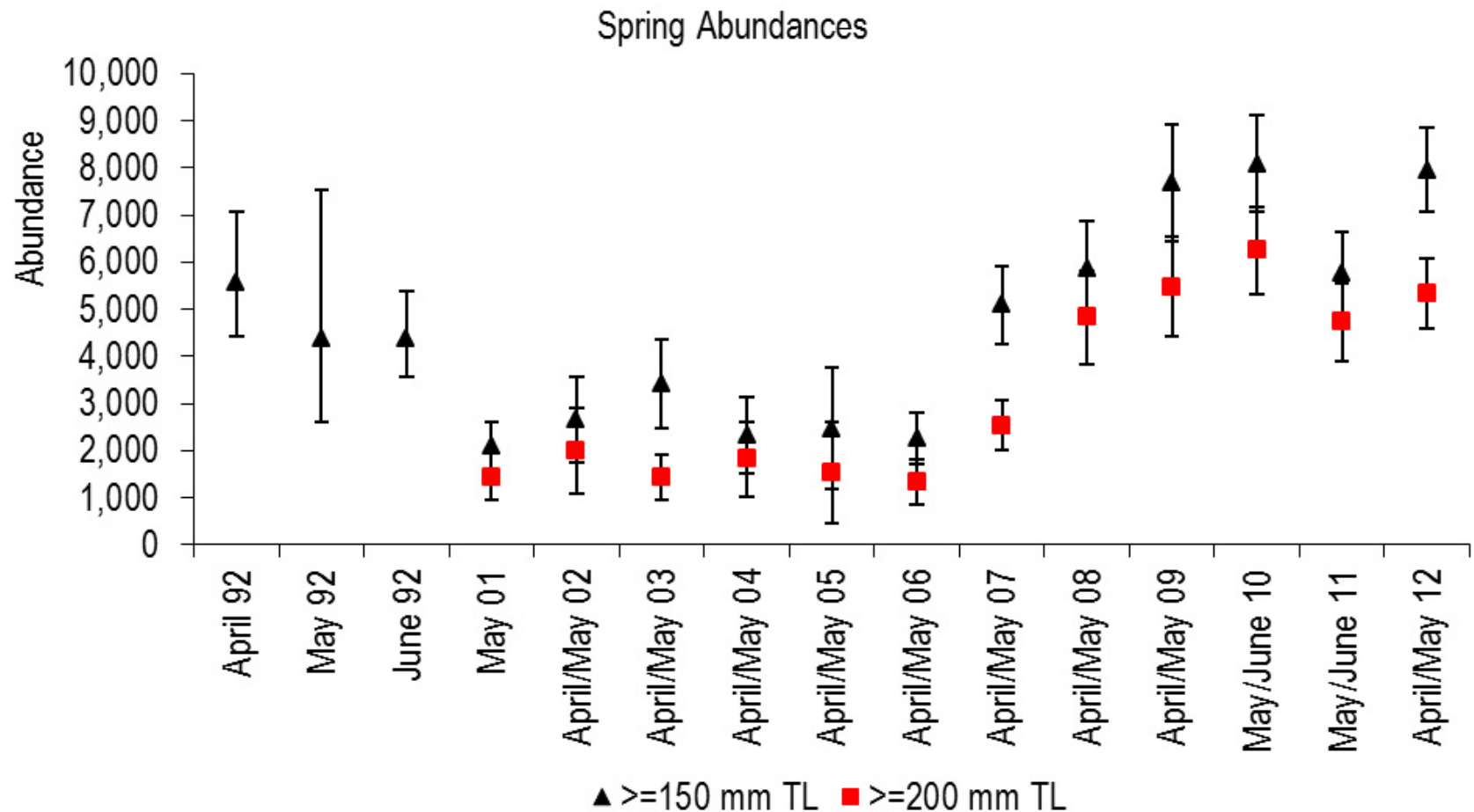




Fall & Spring Juvenile HBC Catches in the Little Colorado River (USFWS)



Spring HBC Abundance Estimates in the Little Colorado River (USFWS)



Length Structured Mark-Recapture Model (LSMR) Update

Preliminary Findings:

- Growth increment data suggest increases in growth rates since ~ 2001.
- Trends in abundance between LSMR and ASMR are similar for fish > 150 mm.
- Greater uncertainty in abundance estimates (as expected) using a length-based model.
- Greater recruitment variability in length-based model.

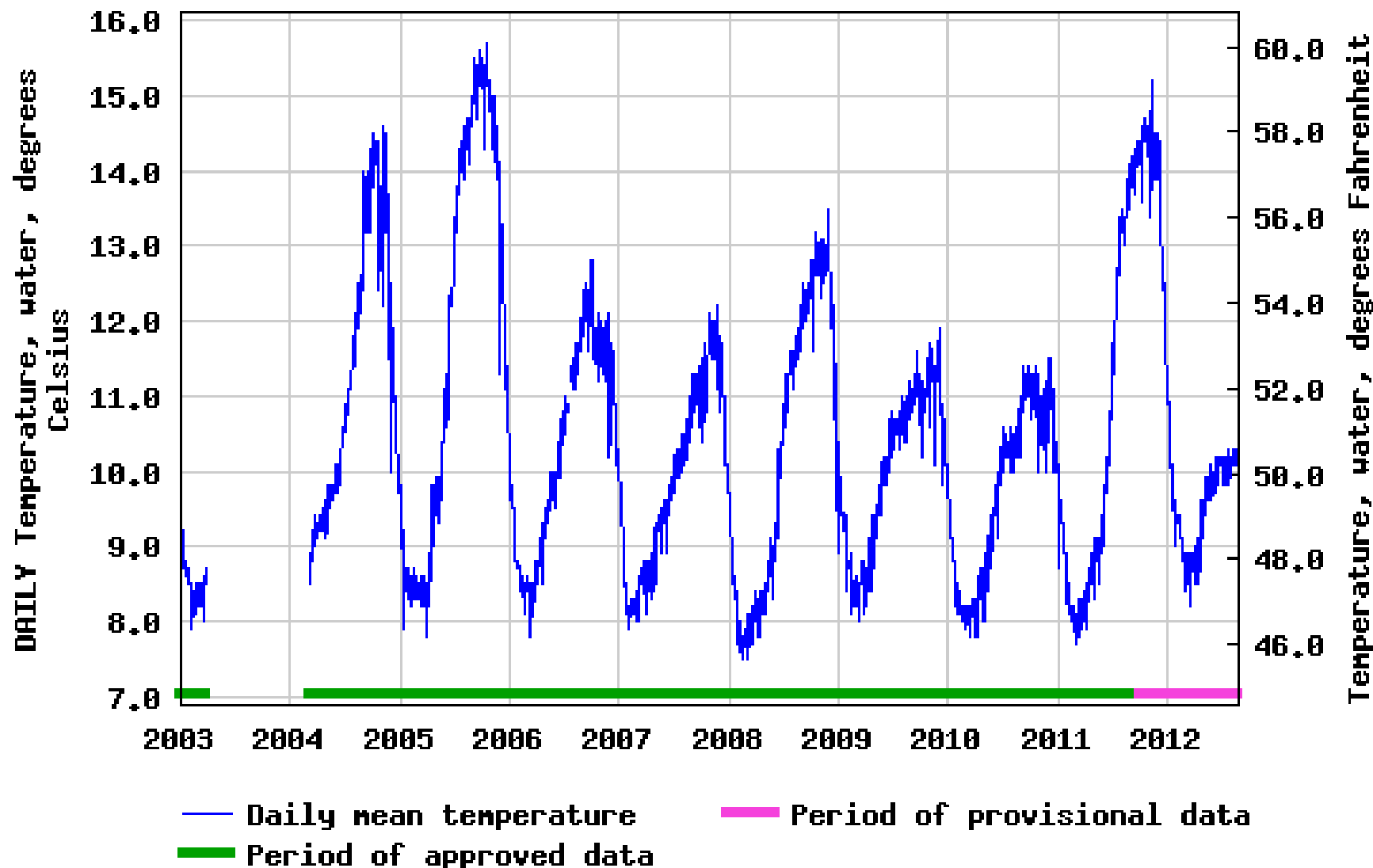
Acknowledgements

- Aaron Bunch – AG&FD
- Randy Van Haverbeke – USFWS
- Josh Korman – Ecometric
- Steve Martell – UBC
- Luke Avery, Bill Persons, David Ward,
Charles Yackulic, Mike Yard – USGS-GCMRC

Questions?



USGS 09380000 COLORADO RIVER AT LEES FERRY, AZ



Mean monthly water temperature at RM 61, 2000-2011 (USGS data)

