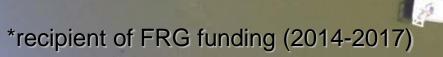
Commercial Low-Frequency Electrofishing for Invasive Catfish

George Trice IV*
Virginia Commercial Fisher

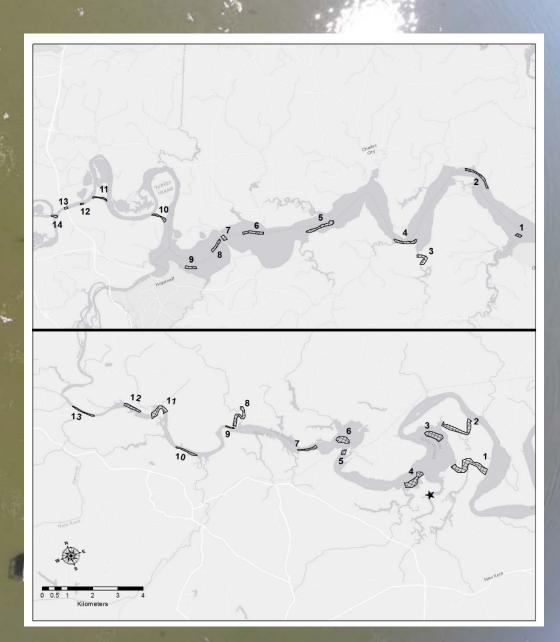
Matt Balazik
William Shuart
Greg Garman
Rice Rivers Center at VCU

Charles Frederickson Virginia Commercial Fisher



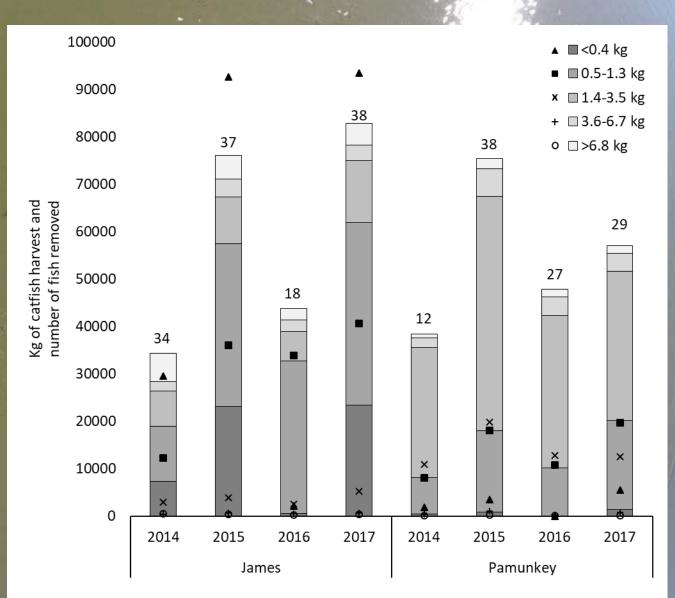
Study Approach (2014-2017)

- 7.5 & 9.0 GPP units(LFEF) fished at 15pps;1 or 2 chase boats
- VCU biologists
 shadowed a random
 subset of trips,
 collecting data
- Occasionally used
 VCU's two SR-16s to
 generate fishery independent data or to
 emulate the fishery
- James (127 trips @ 14 locations)
- Pamunkey (106 trips @13 locations)



Blue Catfish Harvest

- Estimated 485,672 catfish removed
- James358,898
- Pamunkey126,774



Biomass
Removed During
Project
455,651kg
(1,955kg per trip)



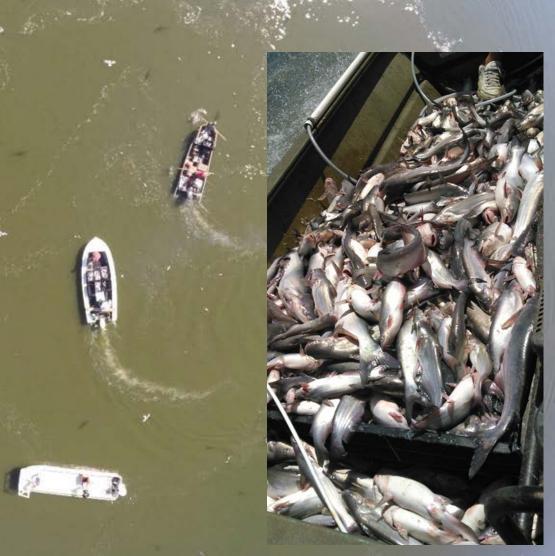
- Flathead catfish ~13,600kg
- Blue catfish ~442,000kg





Future Catfish Plans

- Continue analysis of 2014-2017 datasets; other data
 - Drone video and Al
 - Bycatch data from Sturgeon
 - Gill nets/trawling over 7 years
 - James, Potomac, Rapp
 - >200K fish; 40-70% were BCF
- Participate in 2020 LFEF fishery as cooperating researchers with commercial fishers
- New collaboration with USGS researchers
- Start new project in 2021 on Roanoke River, NC



Acknowledgements

- FisheryResourceGrants toTrice (VIMS)
- VMRC USFWS VDGIF

