Distribution of *Orconectes virginiensis* (Chowanoke Crayfish) in the Chowan and Roanoke River Basins of North Carolina





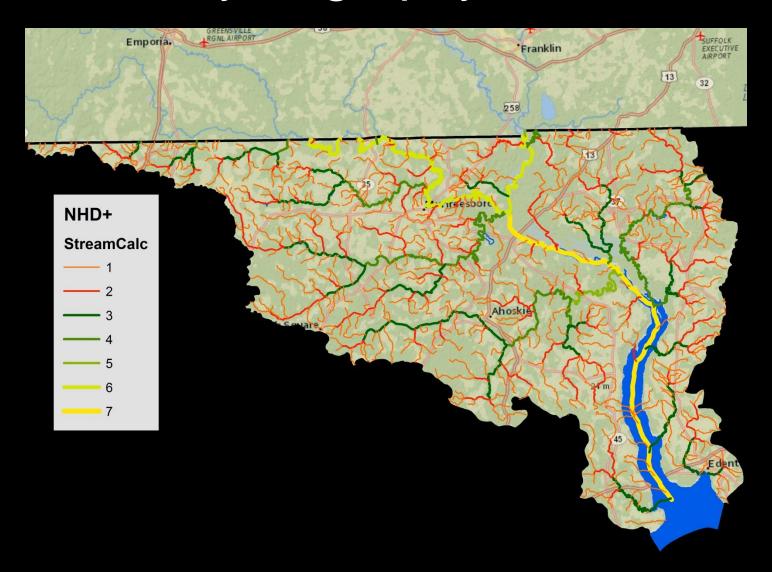
Eastern Region Aquatic Diversity
NC Wildlife Resources Commission



Crayfish Collections

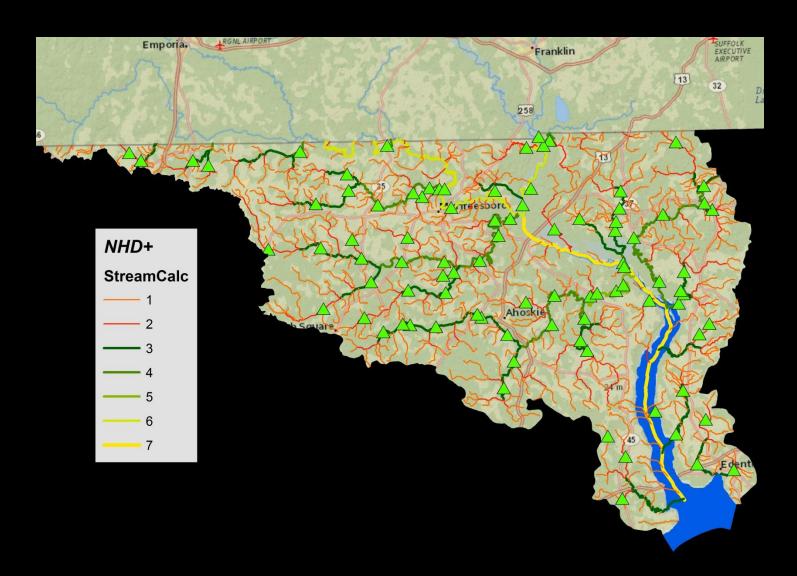


National Hydrography Dataset Plus



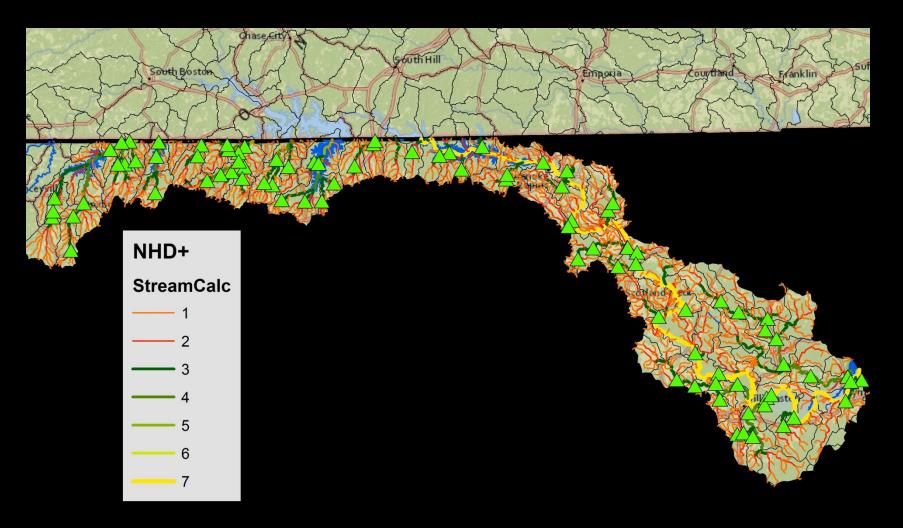


Chowan River Basin





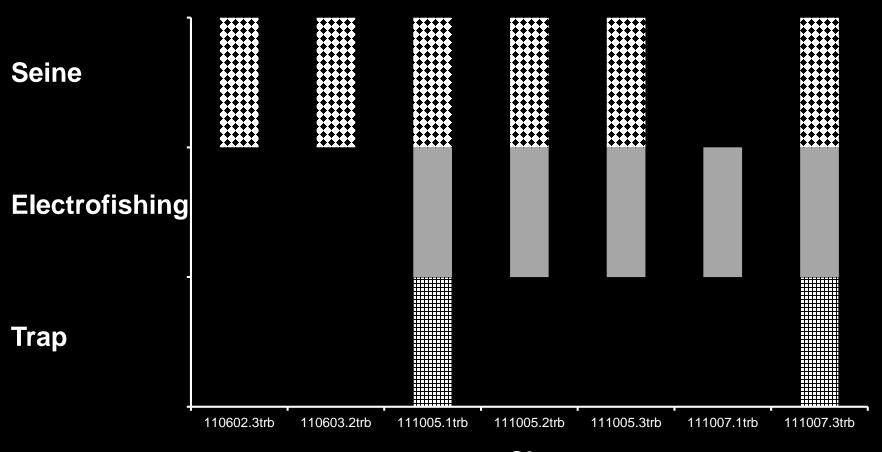
Roanoke River Basin







Gear Comparison









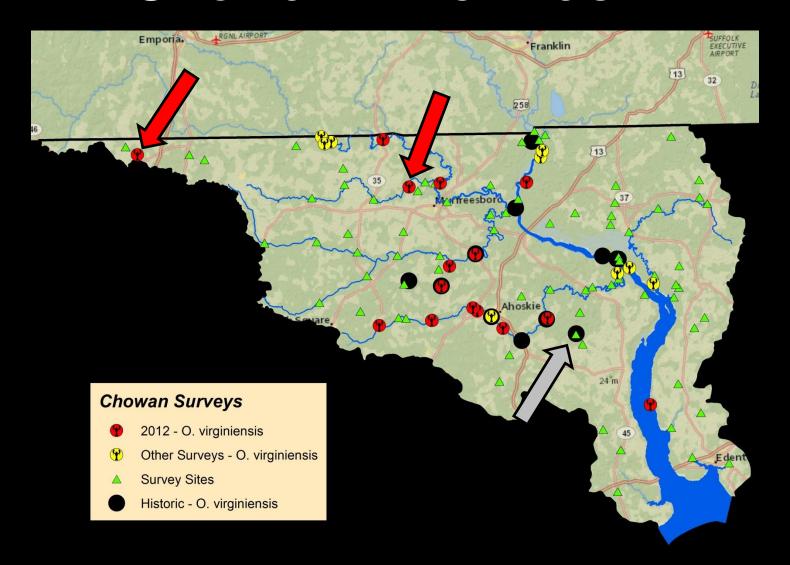


➤8 species CHO ROA (2,966 crayfish)

Cambarus davidi		X
 Cambarus diogenes 	X*	X*
 Cambarus species C. 	X*	X*
 Fallicambarus fodiens 	X	X*
 Orconectes virginiensis 	X	X
 Orconectes virilis 		X*
 Procambarus acutus 	X*	X*
 Procambarus clarkii 	X*	X



Chowan River Basin

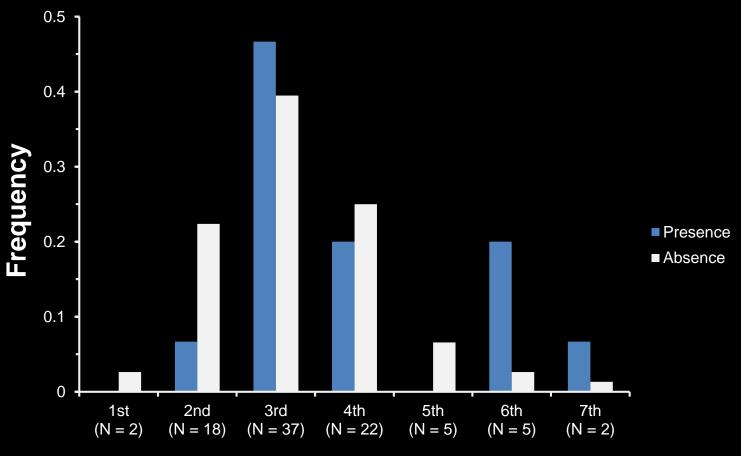




- Chowan River Basin
 - Crayfish at 66 of 91 sites (73%)
 - O. virginiensis at 15 of 91 sites (16%)
 - O. virginiensis in 7 of 45 waterways (15%)
 - Concentrated in six areas:
 - Ahoskie Creek / Wiccacon River
 - Beaverpond Creek
 - Chowan River (>25 rkm)
 - Potecasi and Cutawhiskie creeks
 - Kirbys Creek
 - Meherrin River (>70 rkm)



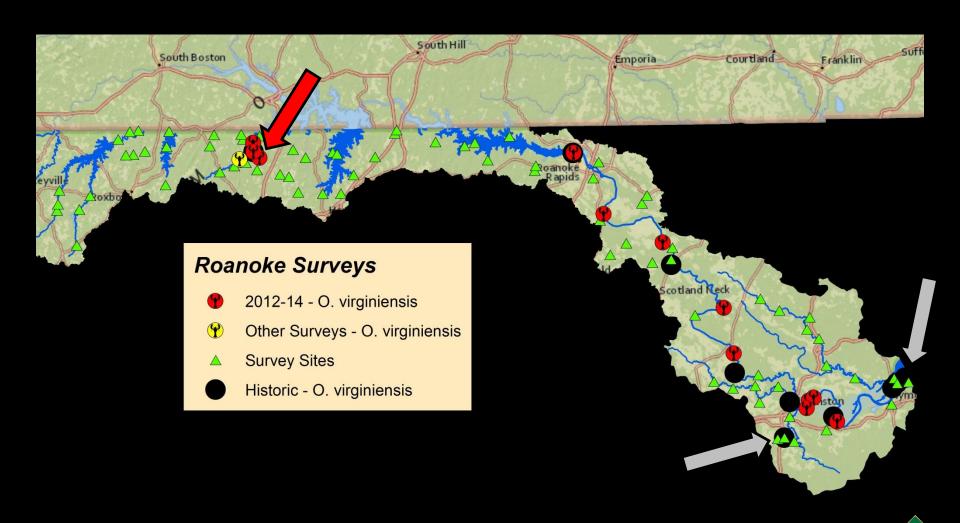
Chowan



NHD+ Stream Order



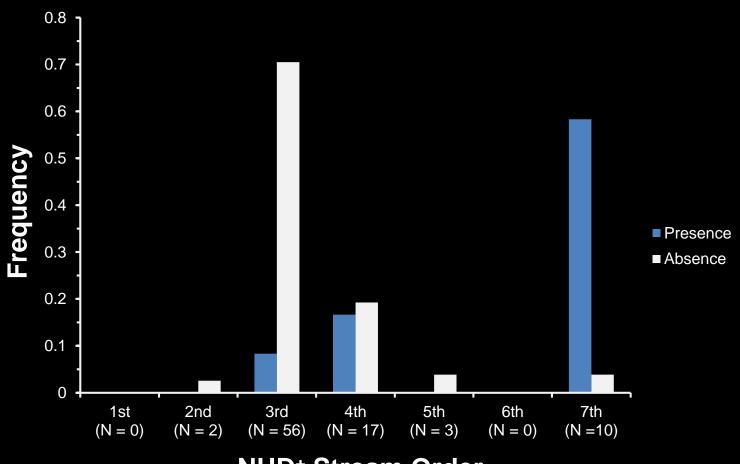
Roanoke River Basin



- Roanoke River Basin
 - Crayfish at 81 of 91 sites (90%)
 - O. virginiensis at 12 of 90 sites (13%)
 - O. virginiensis in 5 of 52 waterways (10%)
 - Concentrated in two areas:
 - Roanoke River
 - Grassy/Little Grassy creeks

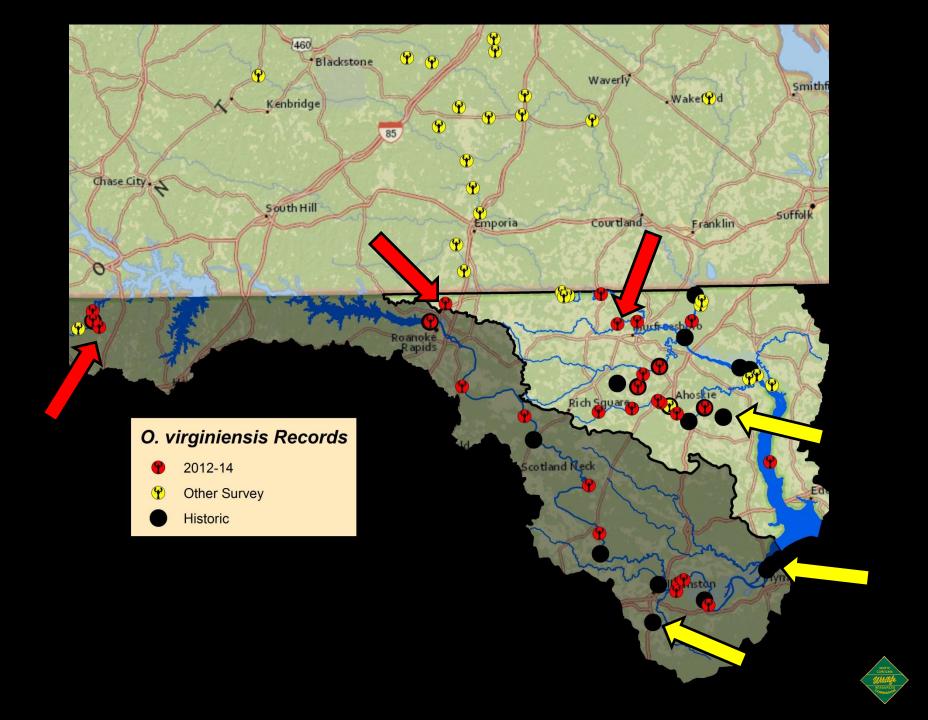


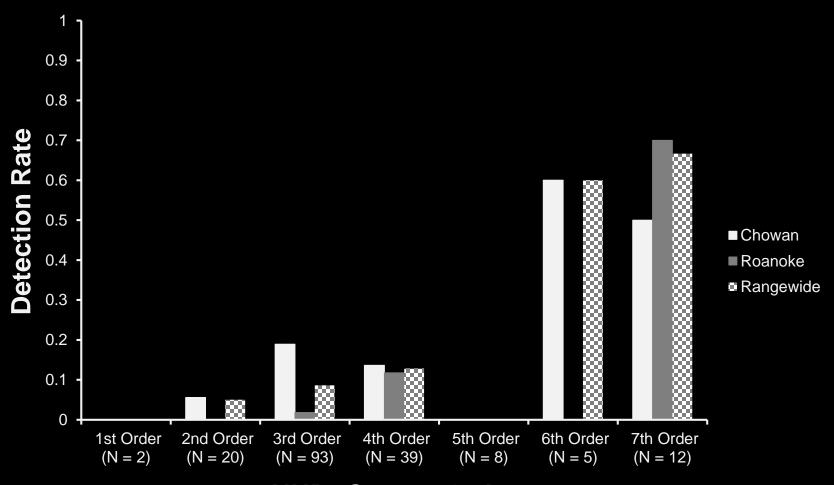
Roanoke



NHD+ Stream Order



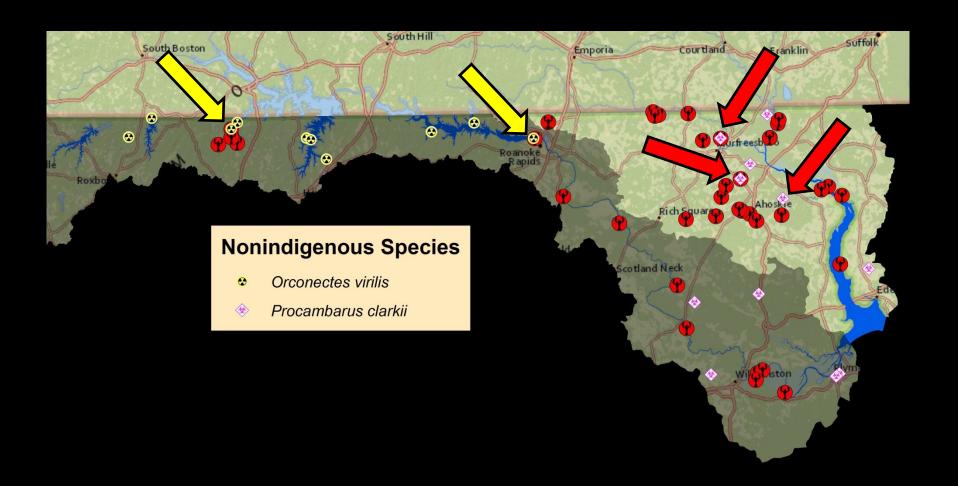








Threats





Summary

- Crayfish at 147 of 181 sites (81%)
- > 246 O. virginiensis collected
- O. virginiensis at 27 of 181 sites (15%)
 - Catch rate for 9 O. virginiensis per site
- ➤ O. virginiensis in 12 of 97 waterways (12%)
 - Restricted to mainstem rivers and major tributaries











The End



