

Falmouth Flats Fly Fishers

Not fly fishing



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BCF Study by VA Tech

- Dynamics and role of non-native Blue Catfish *Ictalurus furcatus* in Virginia's tidal rivers
- Completed: December 2017
- Nearly 5 years and \$1 million
- Numerous peer-reviewed pubs already





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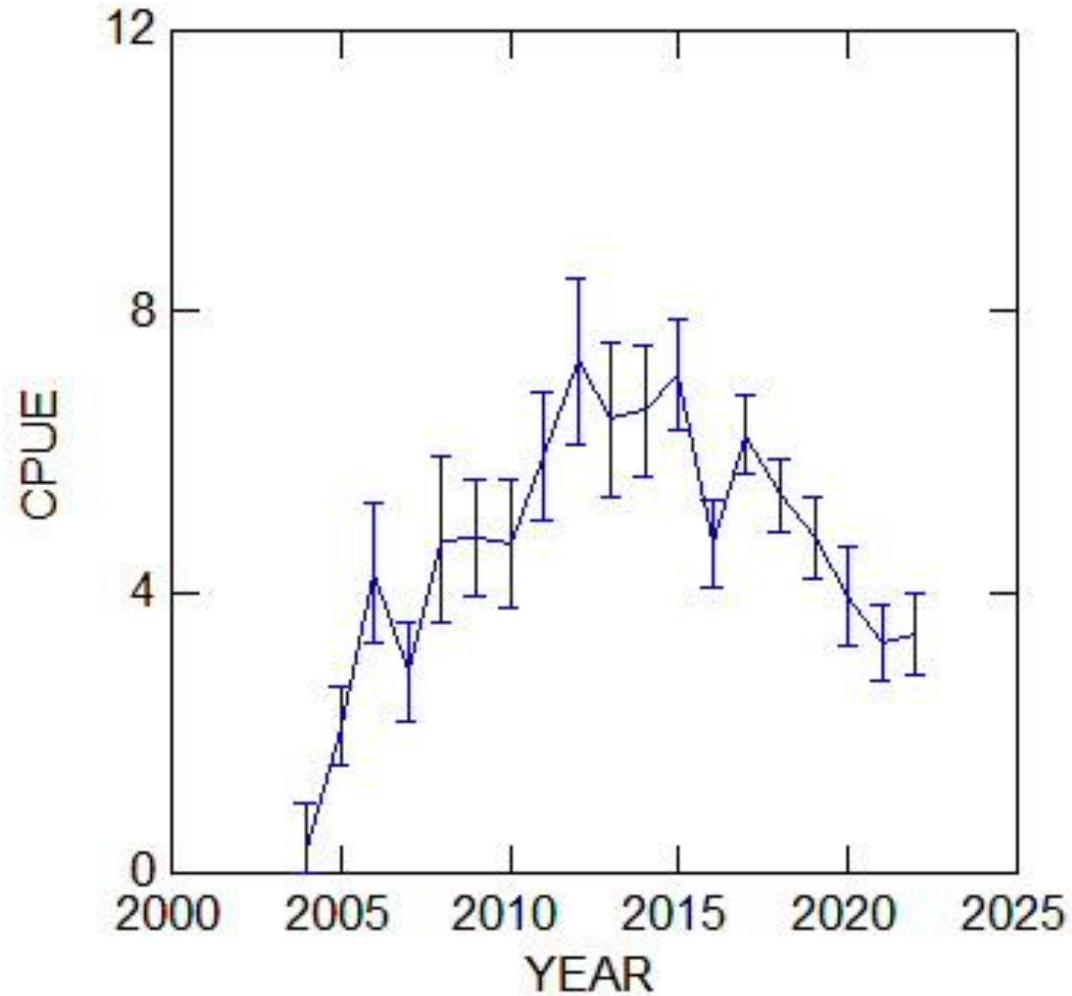
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VIRGINIA CREEPER
POWERFISHING

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POWER
SHALLO

NSH Relative Abundance from Core Creeks (CPUE=fish/hour electrofishing)

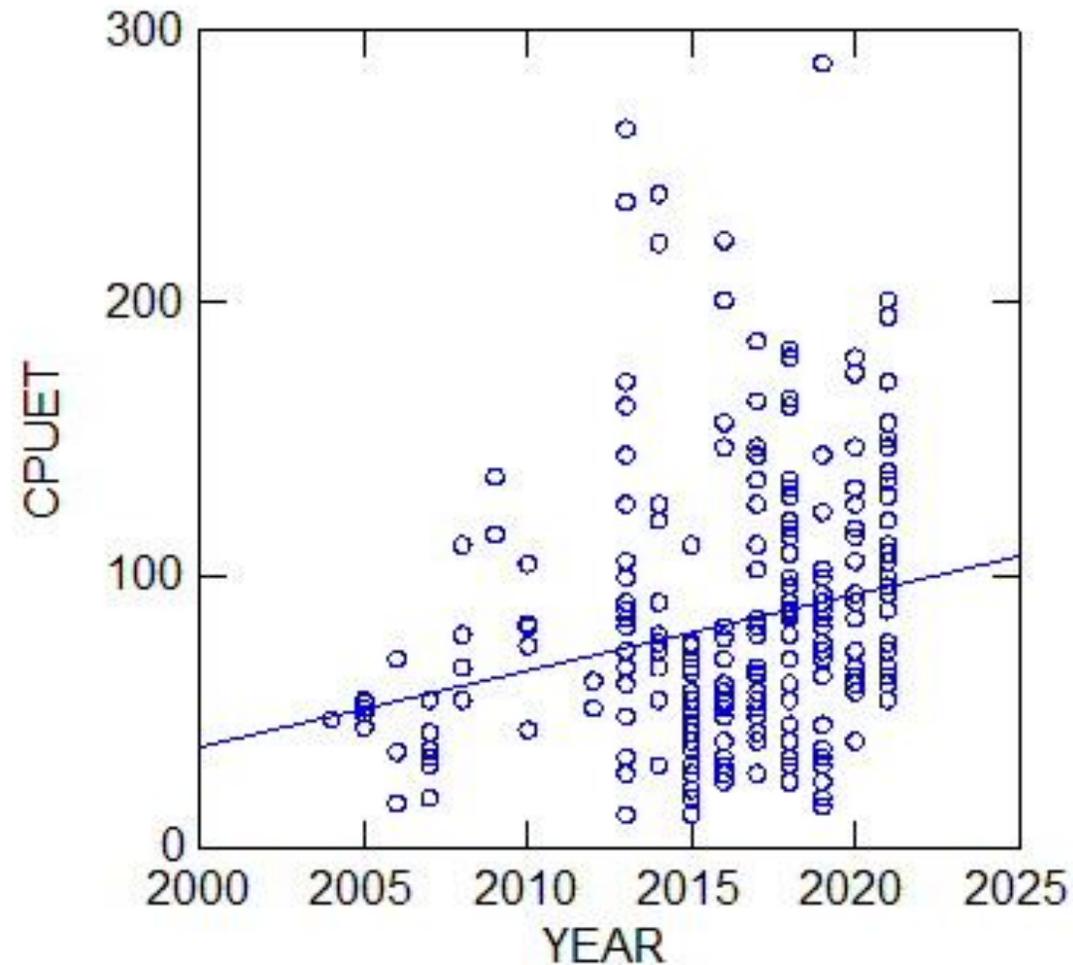


A person wearing a green jacket, white pants, and a white cap is working on a boat deck. They are wearing a brown mesh life vest and black gloves. They are handling a fish in a white container. The background shows the boat's railing and the water.

Tidal Potomac River LMB Annual Survey

- **Virginia tributary Creeks: Little Hunting, Dogue, Pohick and Aquia**
- **April and May: (3) 1200-sec runs each month**

LMB Adult Relative Abundance from VA Potomac River Creeks (CPUE=fish/hr EF)



Lake Anna Striped Bass





Depletion Electrofishing

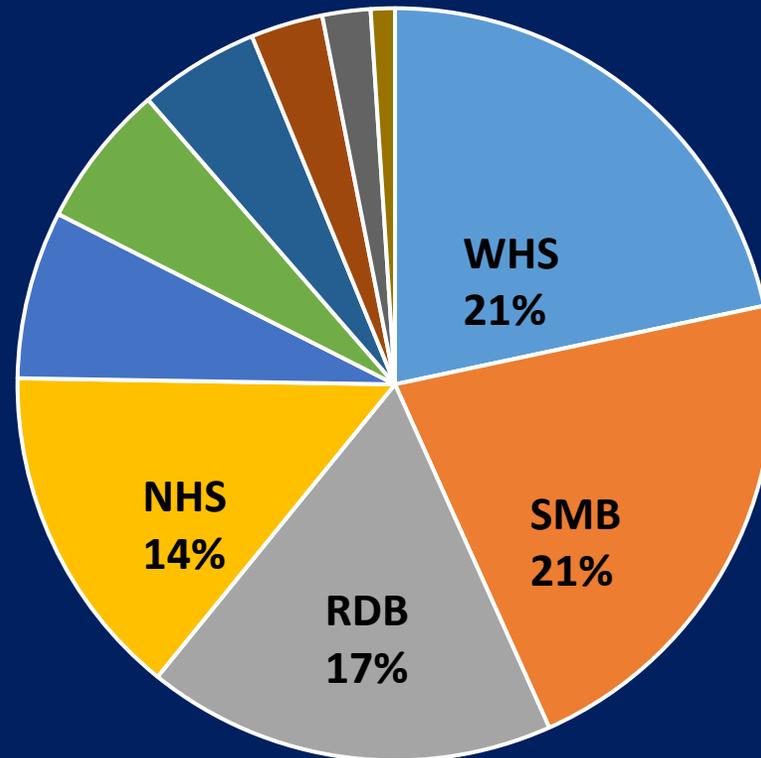


Holding Tanks Between Runs



Rappahannock River Fish Community 2001

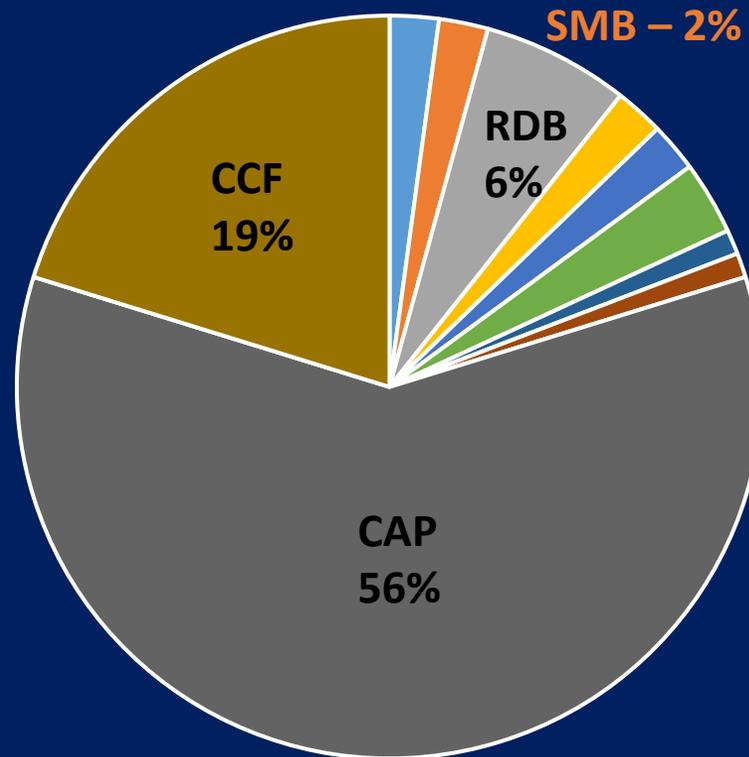
Top Ten Biomass Contributors



□ WHS □ SMB □ RDB □ NHS □ AME □ FAF □ ROB □ SHR □ YEB □ BUC

Rappahannock River Fish Community 2010

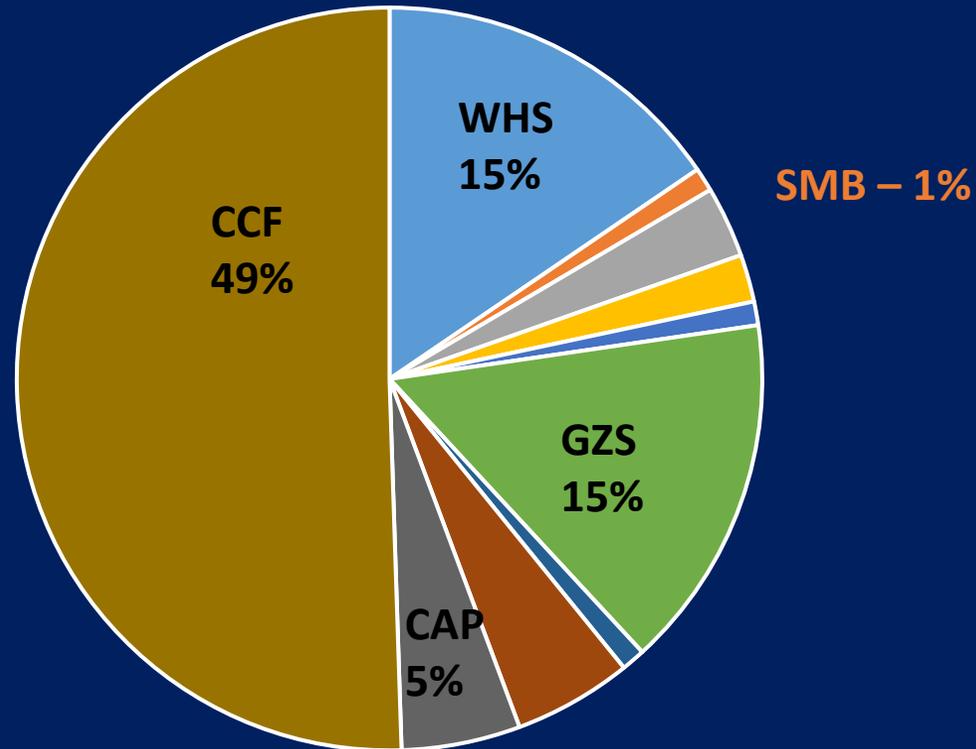
Top Ten Biomass Contributors



BCF SMB RDB NHS AME GZS LMB SHR CAP CCF

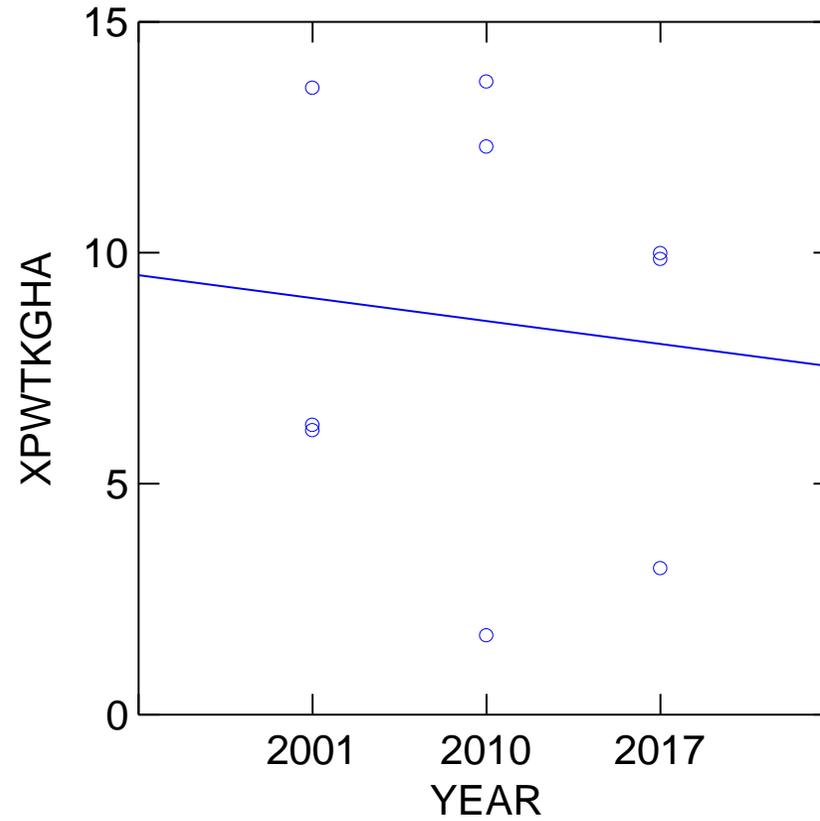
Rappahannock River Fish Community 2017

Top Ten Biomass Contributors

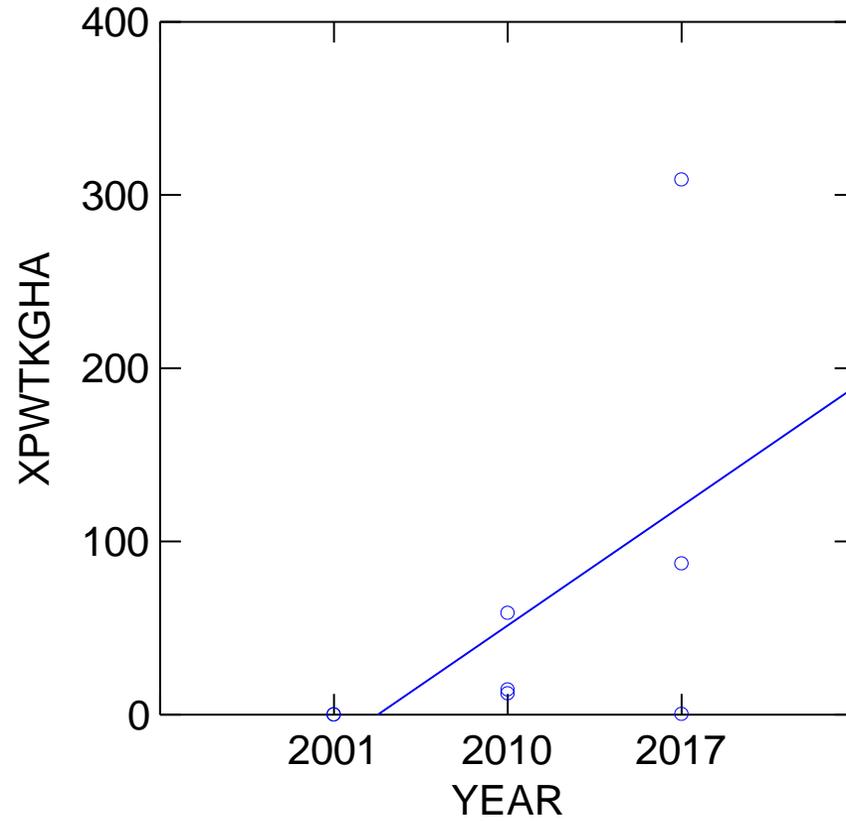


■ WHS ■ SMB ■ RDB ■ NHS ■ BLG ■ GZS ■ BLC ■ SHR ■ CAP ■ CCF

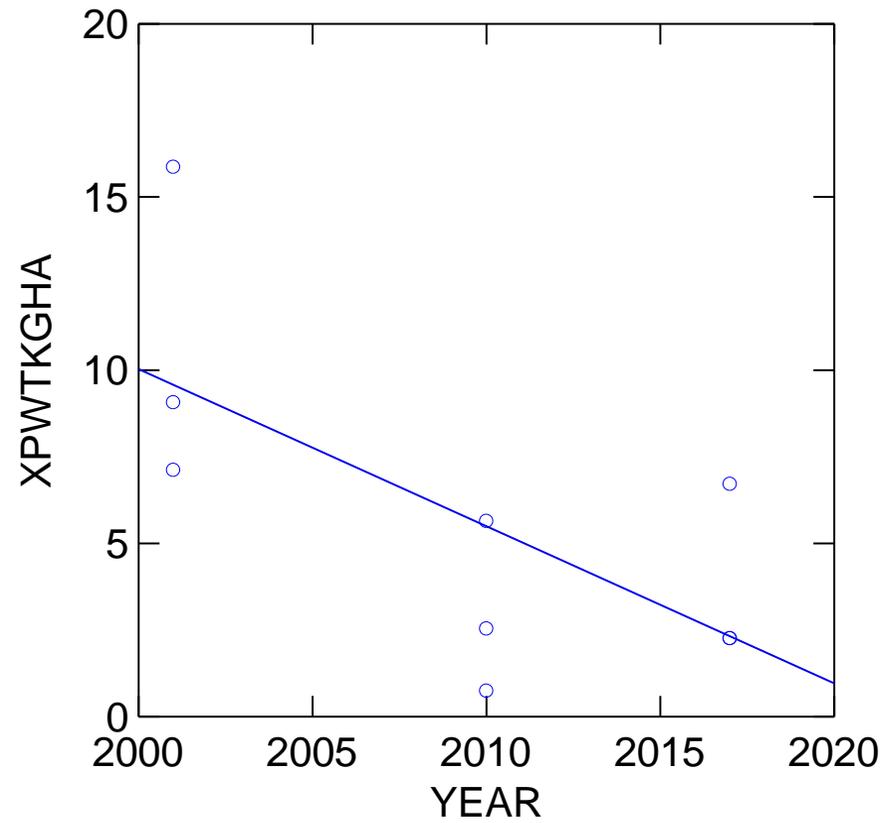
Rappahannock River Redbreast Sunfish Biomass



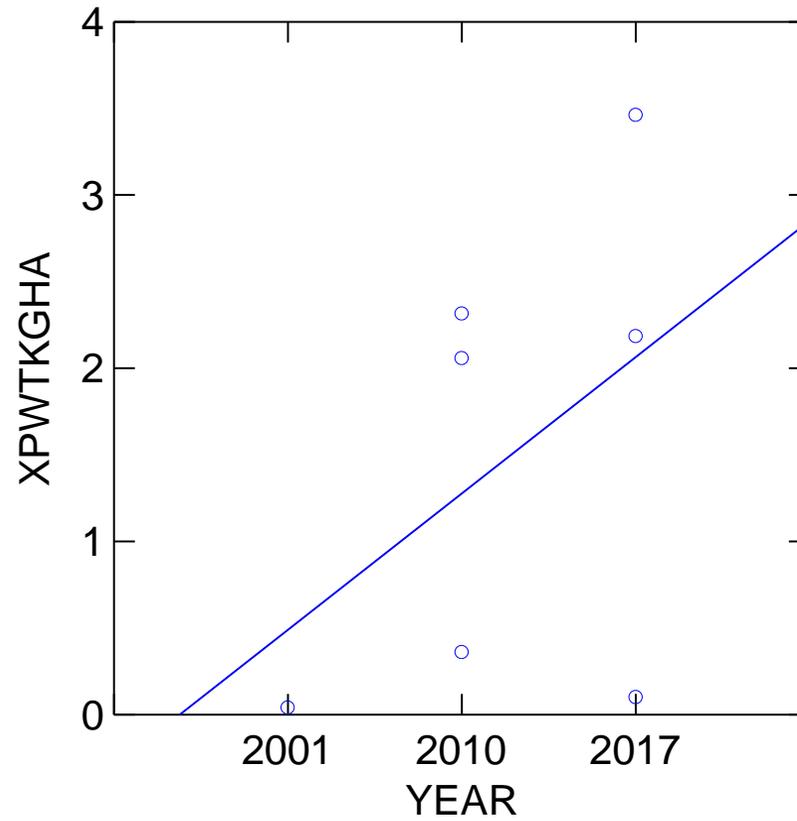
Rappahannock River Channel Catfish Biomass



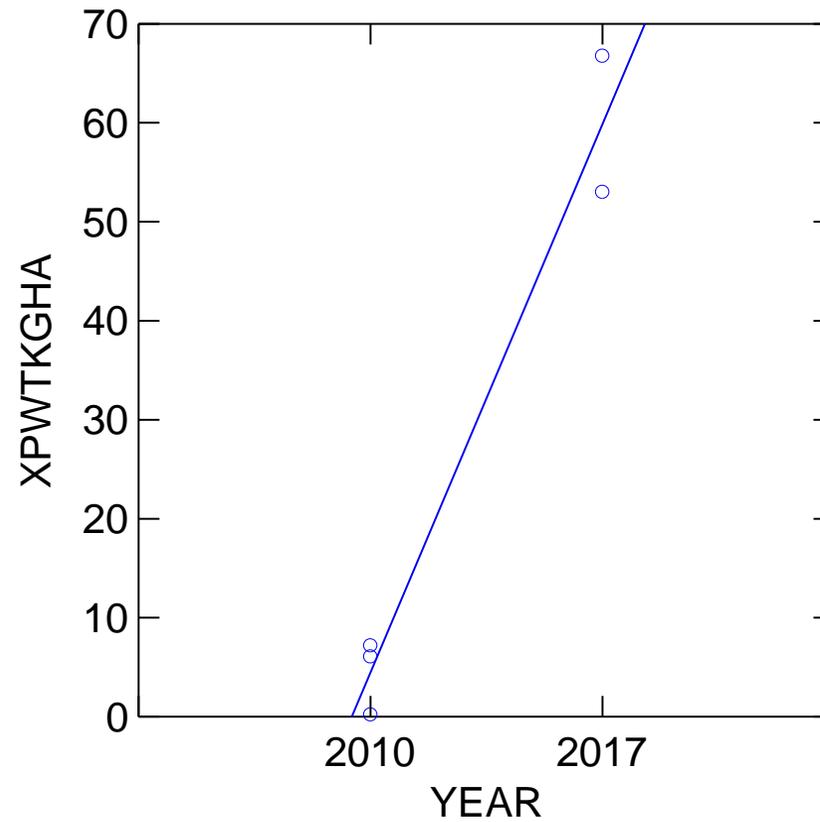
Rappahannock River Smallmouth Bass Biomass



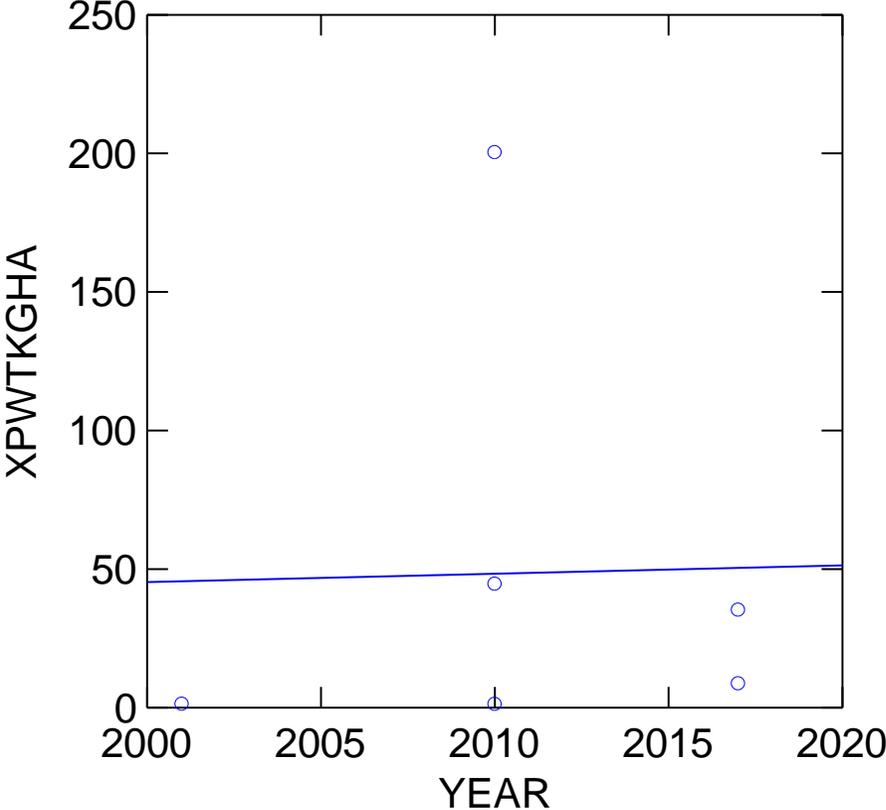
Rappahannock River Largemouth Bass Biomass



Rappahannock River Gizzard Shad Biomass



Rappahannock River Common Carp Biomass



Possible reasons for shifts (besides dam gone)

- Variable recruitment
- Habitat changes (*Hydrilla*)
- Sample site substitution
- Low sample size (number of sites)