

The Chesapeake Bay has one of the largest sources of Blue Crabs (*Callinectes Sapidus*) in the United States with annual landings between 21-66 million pounds! The economic value ranges from \$24 to \$79 million annually (NOAA, 2000-2016).



Door

Parlor

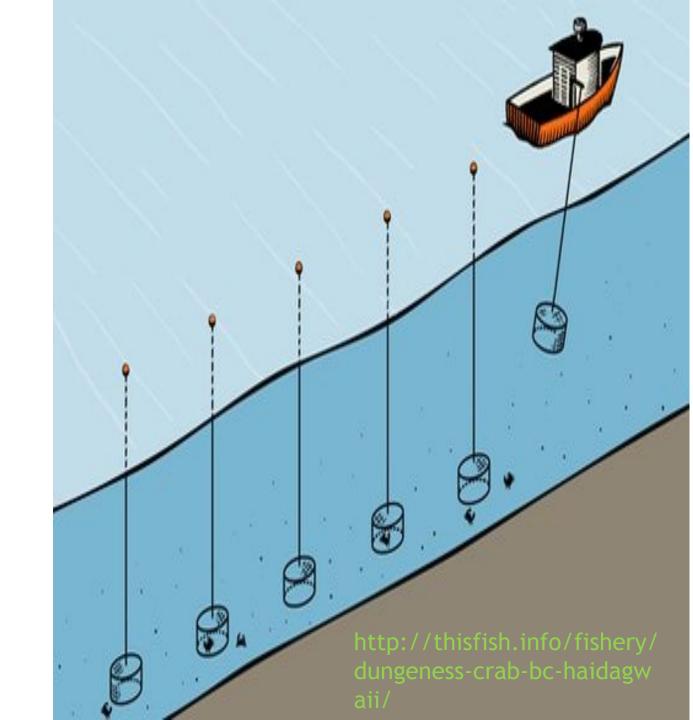
Kitchen

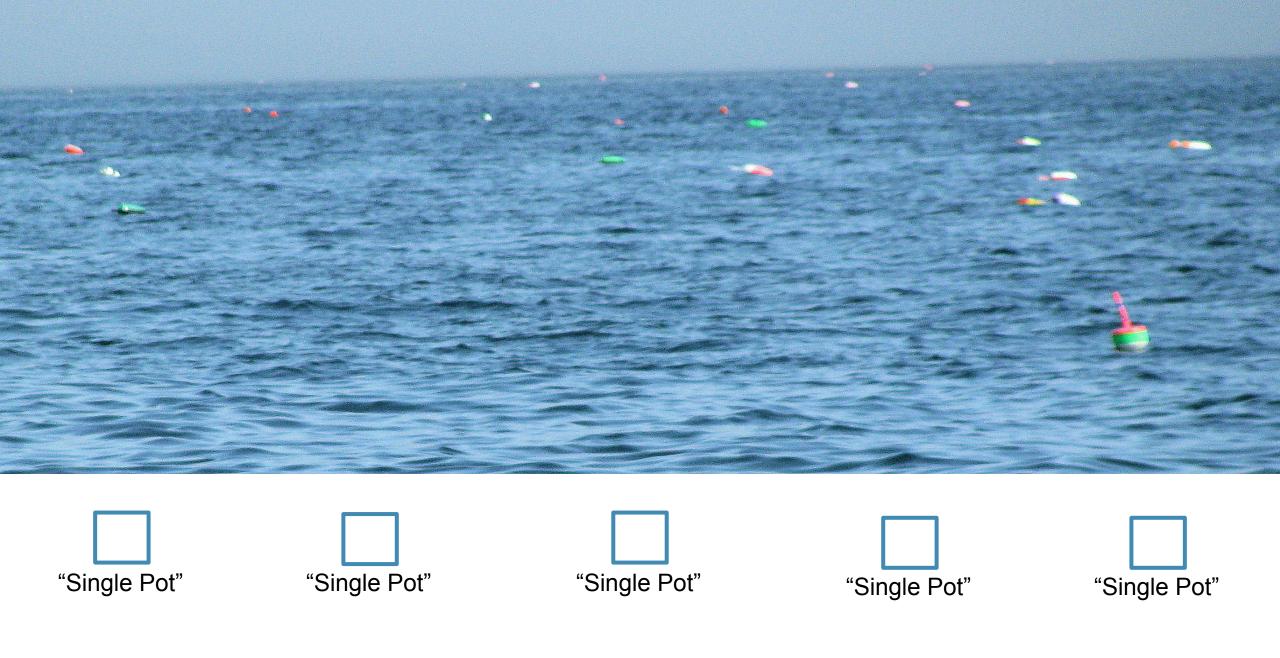
Funnel (with Culling rings)

Bait Box

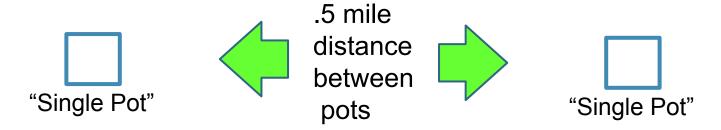
Objectives:

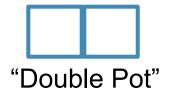
 Estimating what distance do baited Blue Crab pots stop affecting each other





Miller (1990) Brethes et al. (1985) Watson et al. (2009)



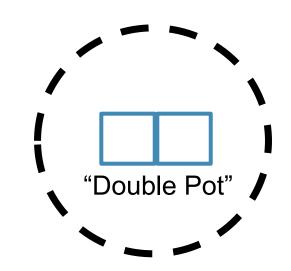




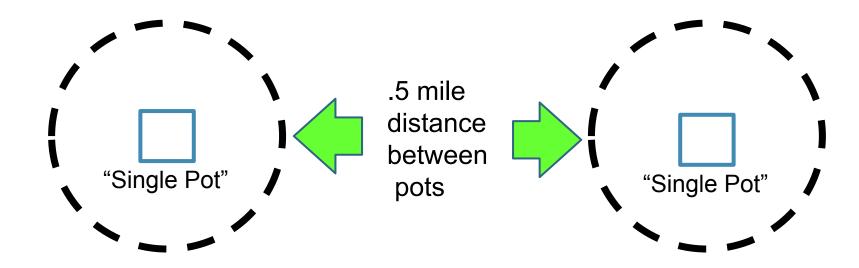


Hypothesis: A

Area of influence:

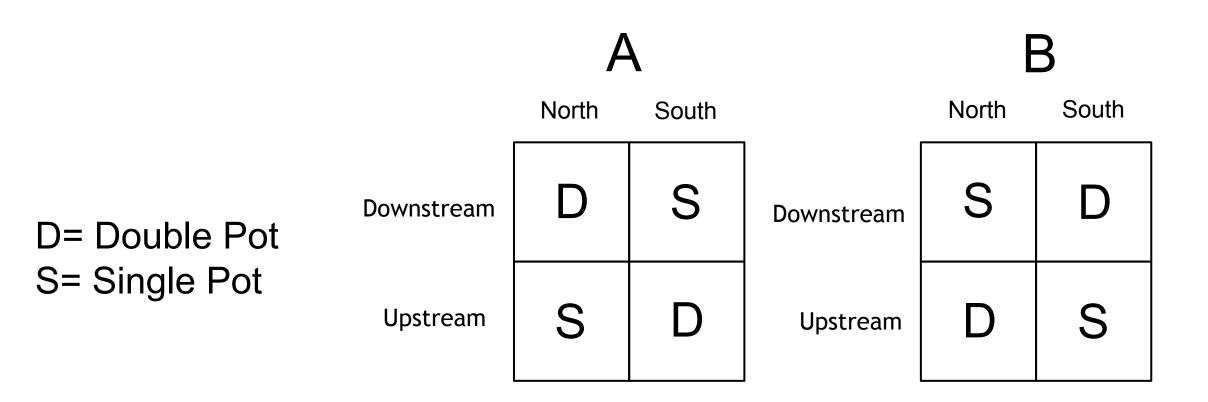


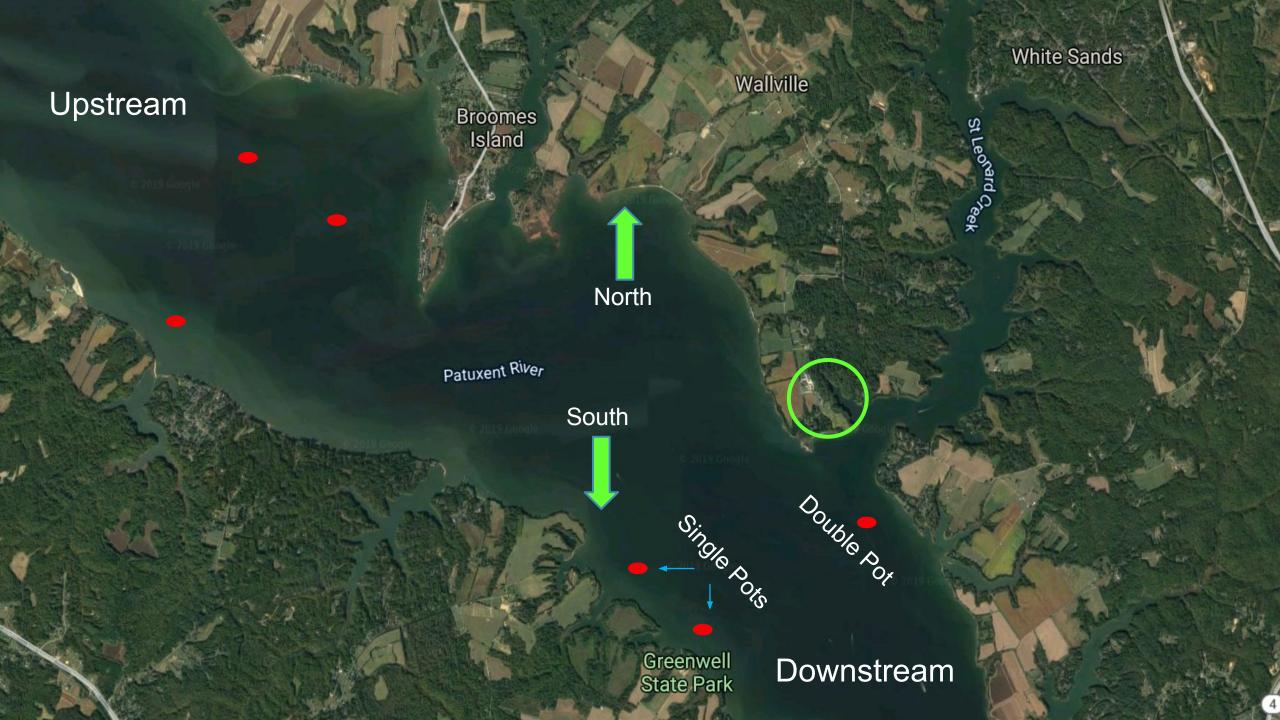




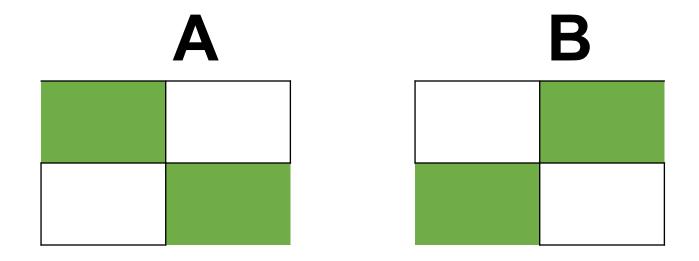
Hypothesis: B "Double Pot" .5 mile distance between "Single Pot" "Single Pot" pots

Replicated 2x2 Latin Square Design



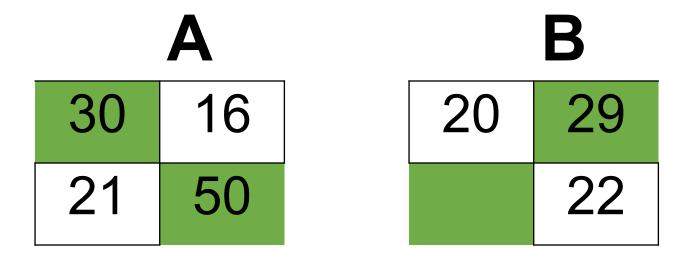


Preliminary Analysis Results



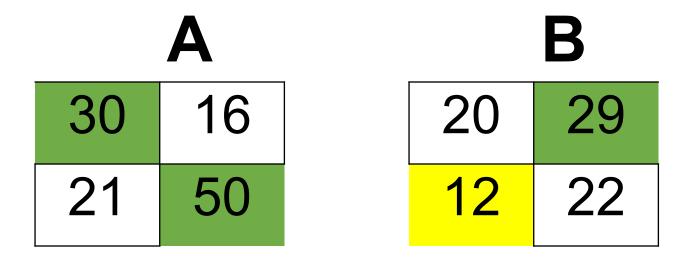
Single Pots Totaled Catch= Unite Double Pots Totaled Catch= White

Preliminary Analysis Results



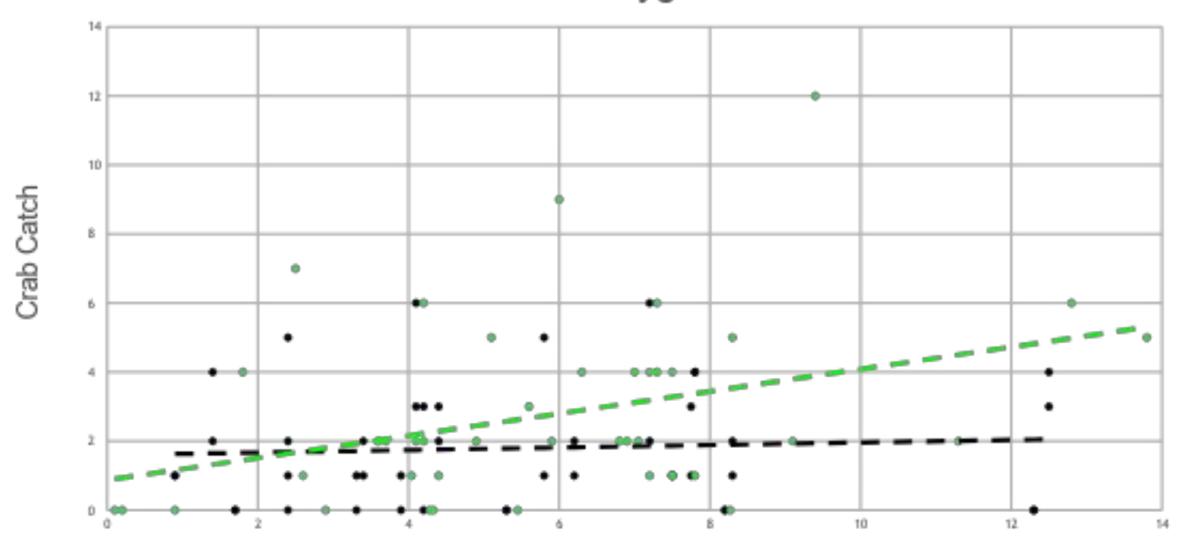
Single Pots Totaled Catch= United Double Pots Totaled Catch= White

Preliminary Analysis Results



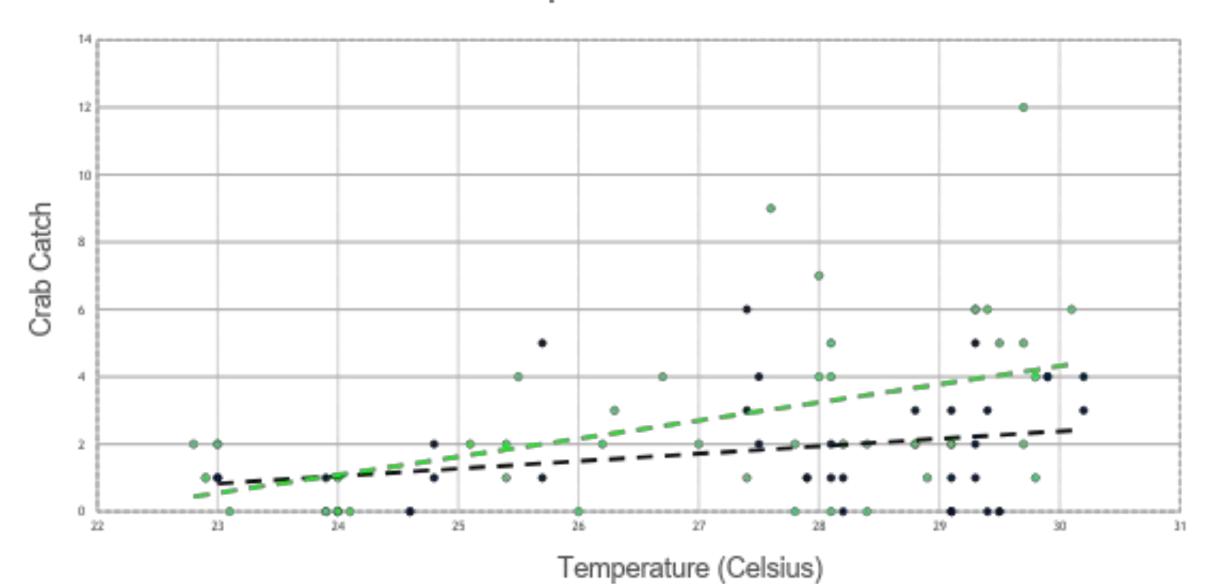
Single Pots Totaled Catch= Unite Double Pots Totaled Catch= White

Potential Dissolved Oxygen Effect on Catch



Dissolved Oxygen

Potential Temperature Effect on Catch



The Next Steps:

- Start "Phase 2" which would be asking the question "What is the distance that baited Blue Crab pots stop affecting each other?"
- Improve the experiment's design
- Measure commercial watermen buoy distances on Chesapeake Bay









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- Maya



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