



Attraction and Effectiveness of Four Commercial Ovitrap *Aedes aegypti* and *Aedes albopictus*

John Smith, Taylor Taylor, and Cami Adams

Sponsor Recognition

- Florida Department of Agriculture and Consumer Services
- Beach Mosquito Control District
- Gorilla Glue, Inc.
- UNIVAR, Inc. & In2Care BV
- Springstar, Inc.
- Biogents AG
- CDC Puerto Rico



Objective

Evaluate efficacy of the BG-GAT, In2Care, CDC-AGO, and Springstar Trap-N-Kill



Aedes aegypti



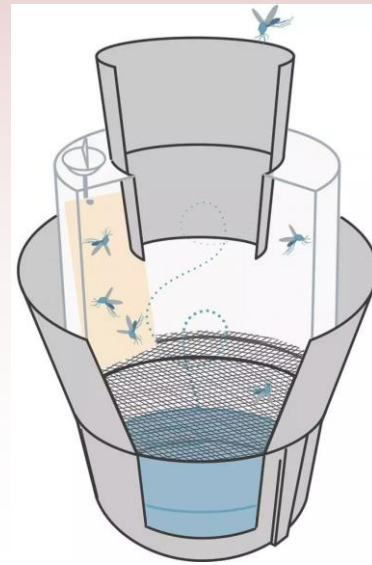
Aedes albopictus

Research Questions

1. How attractive are these ovitraps compared to man-made and natural oviposition sites?
2. How do ovitraps differ in effects on mosquito production?
3. Will mosquitoes auto-disseminate toxicants in ovitraps?



Ovitrap Treatments



Experimental Site



Oviposition Containers



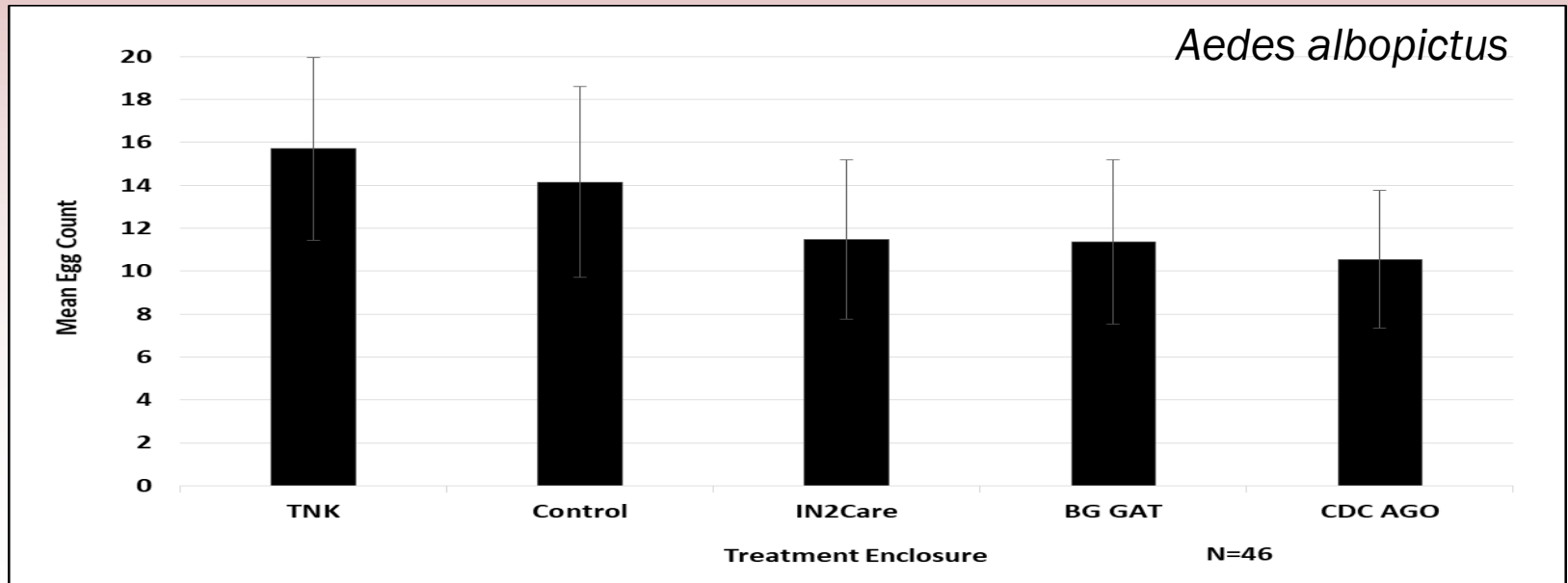
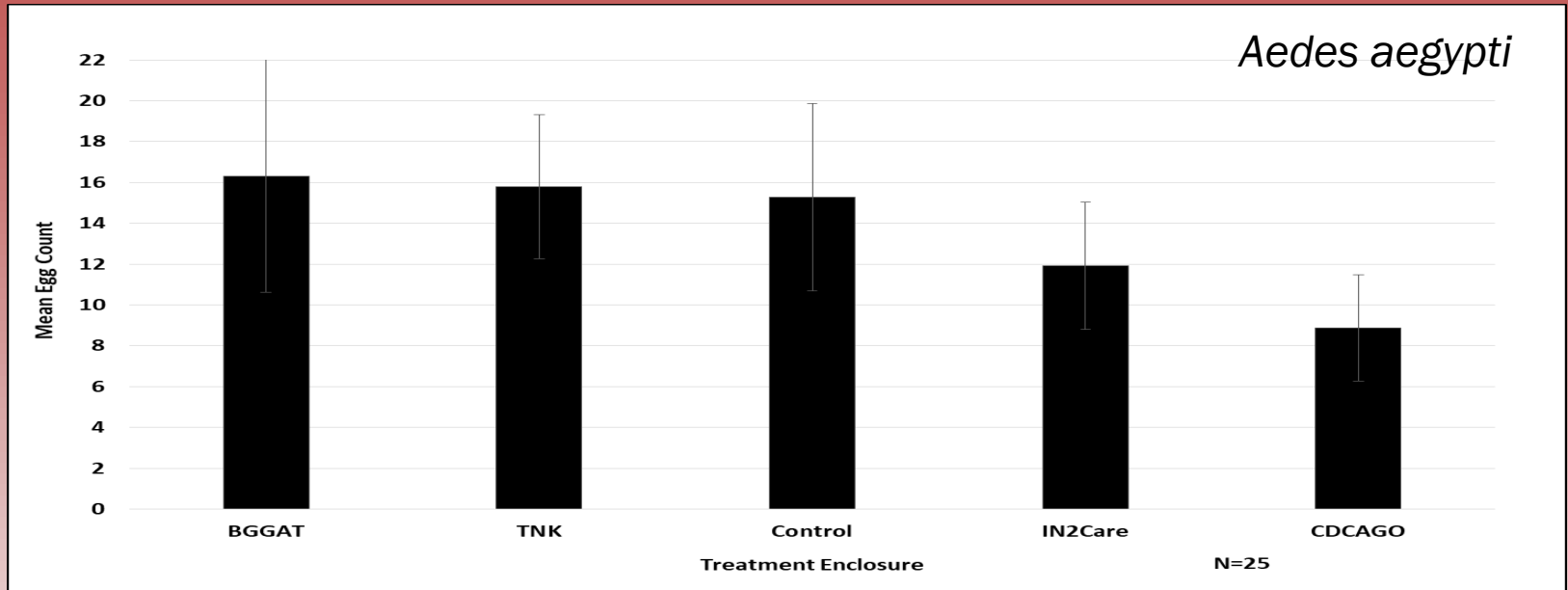
Mosquito Release



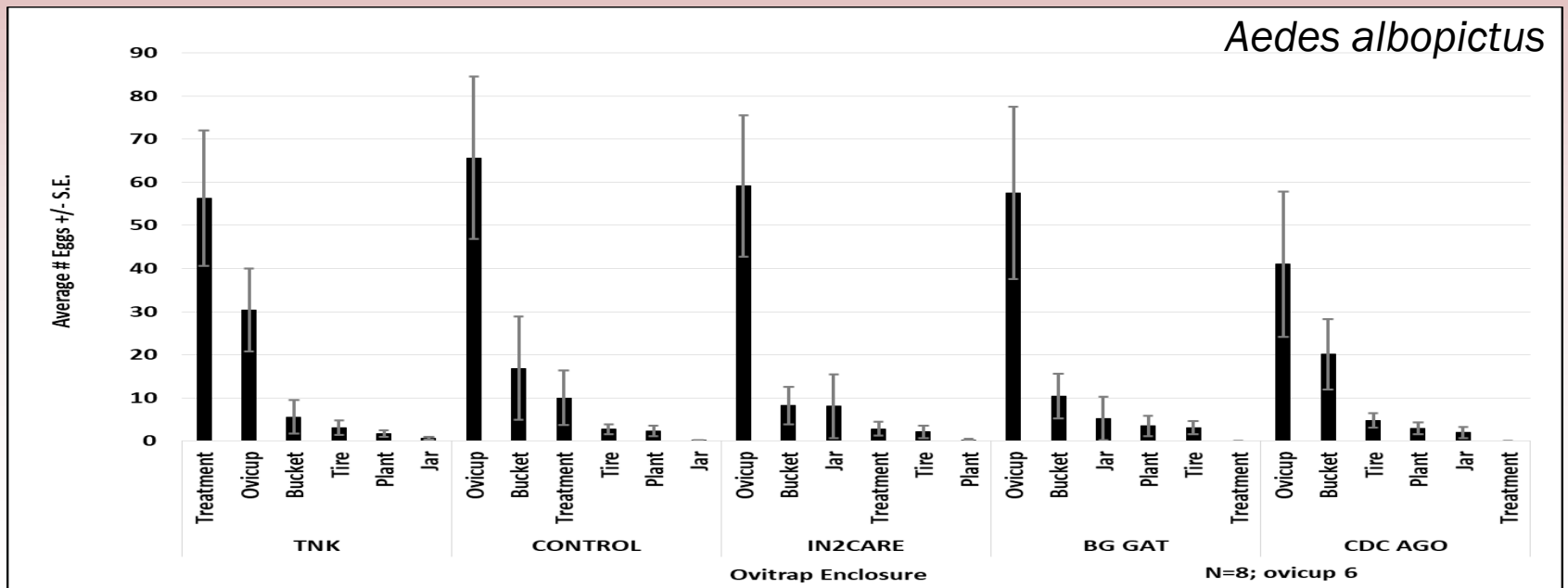
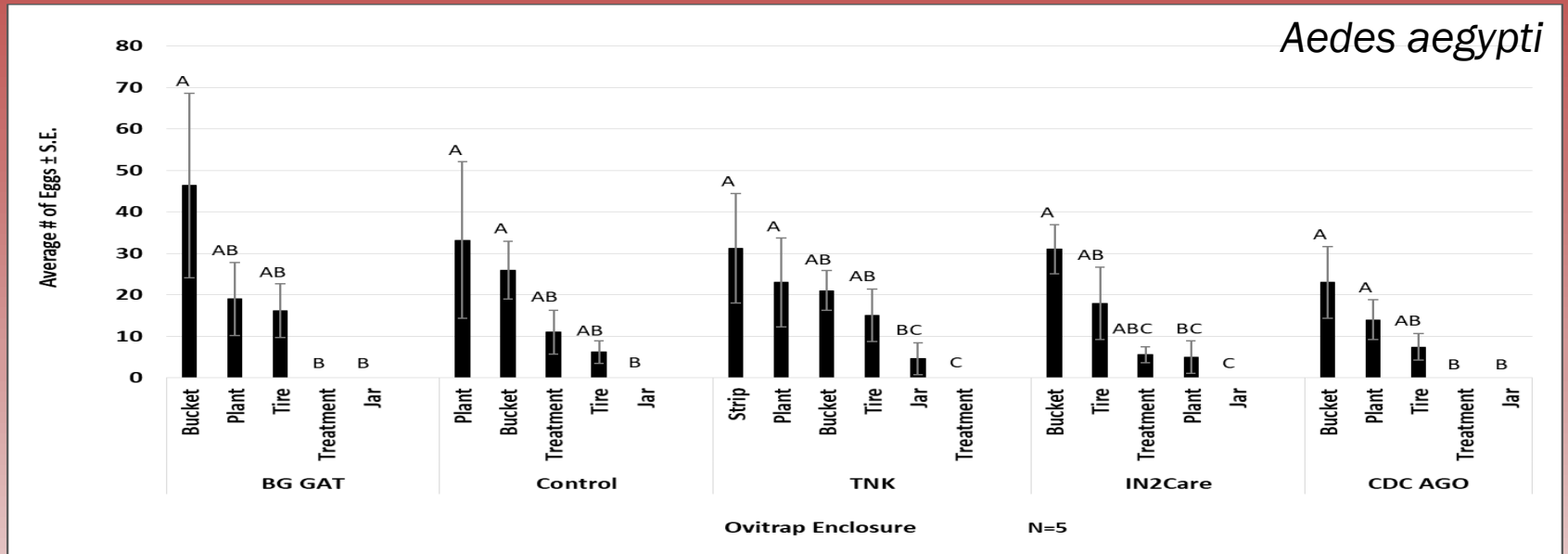
Mosquito Recovery



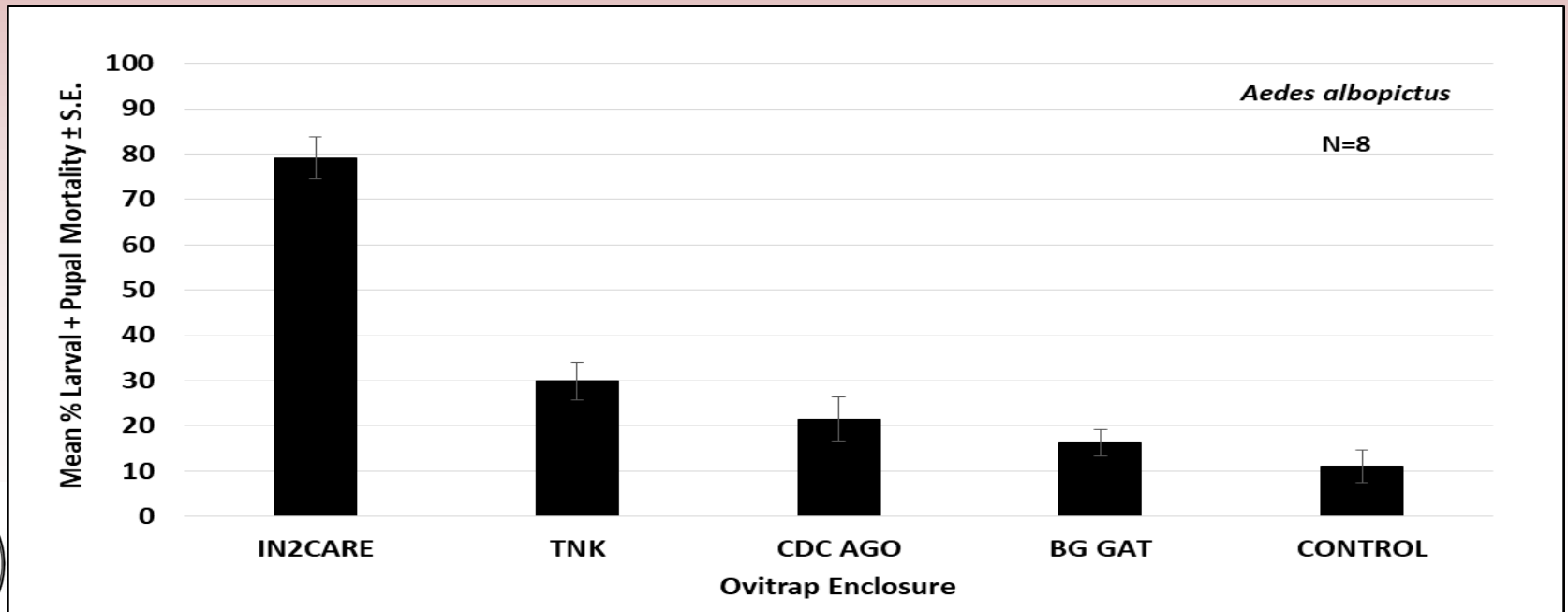
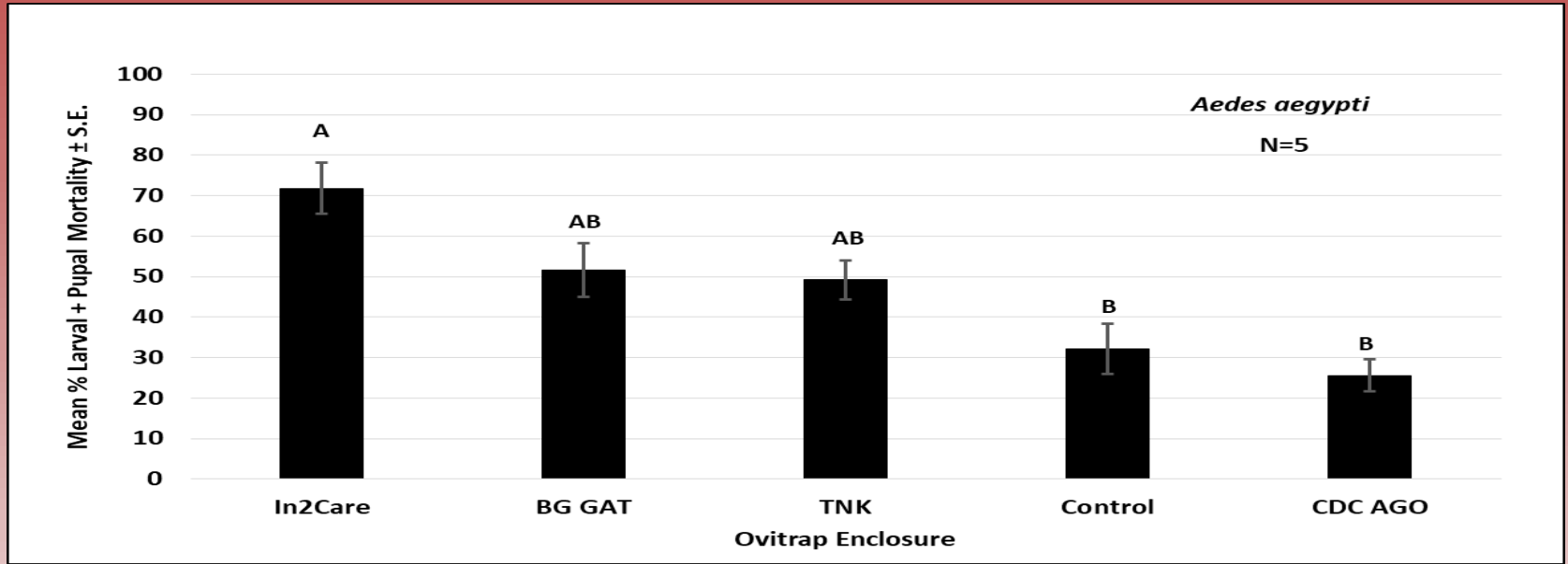
Oviposition Attraction by Treatment



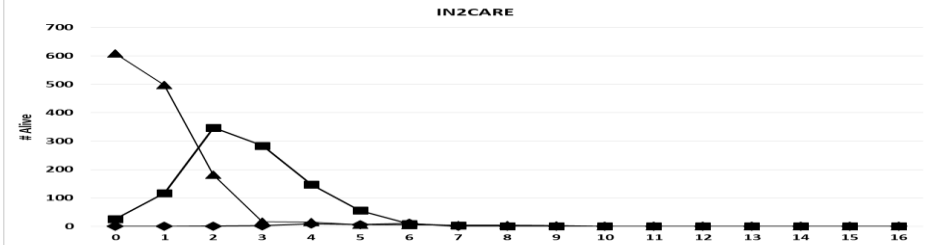
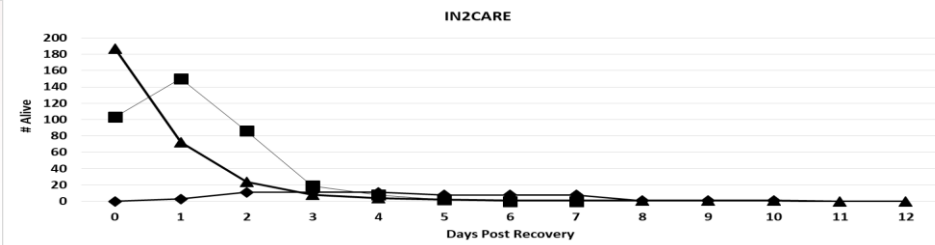
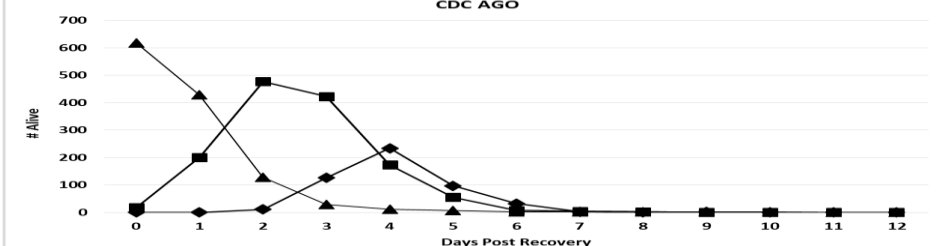
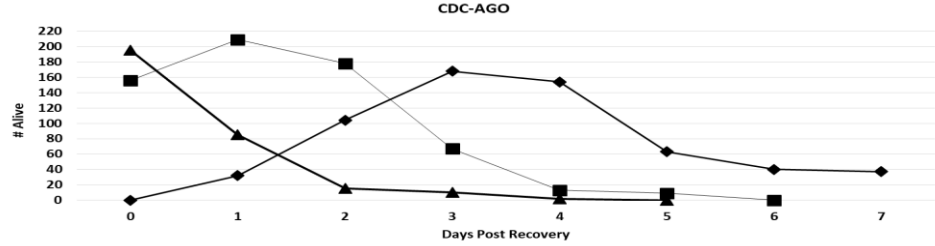
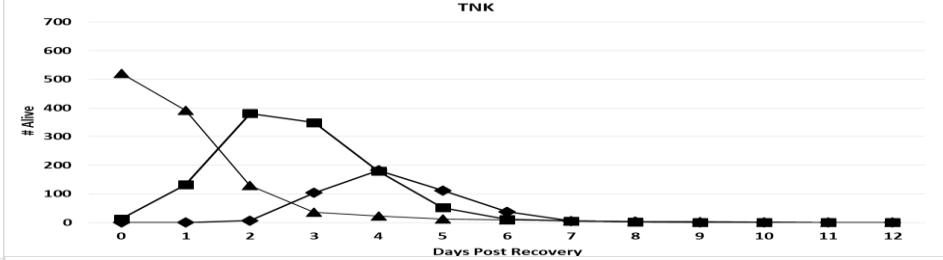
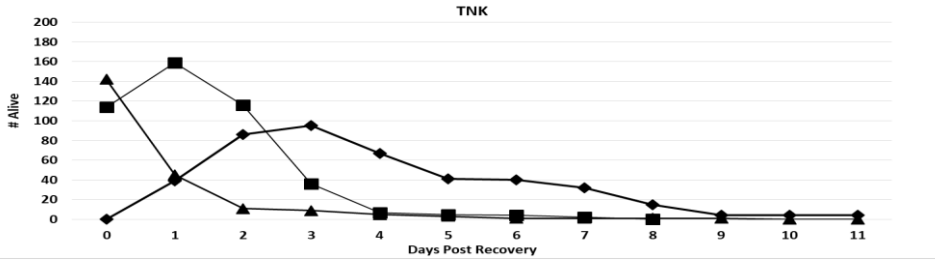
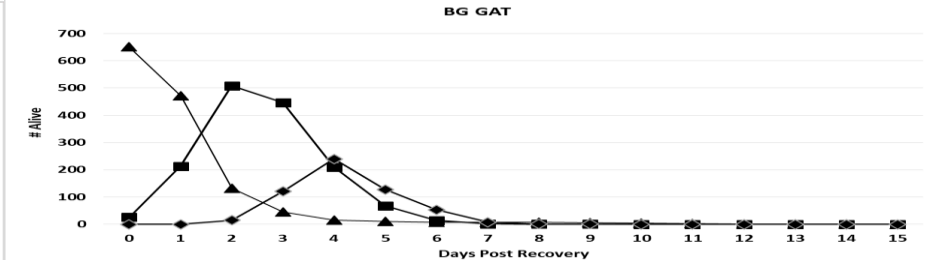
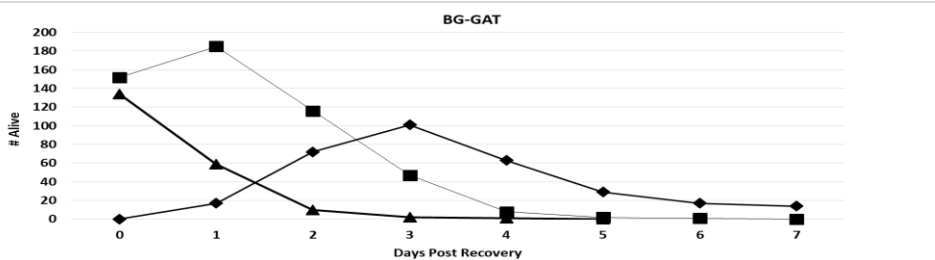
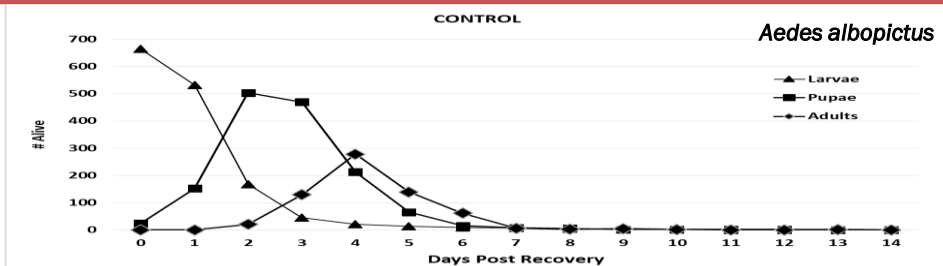
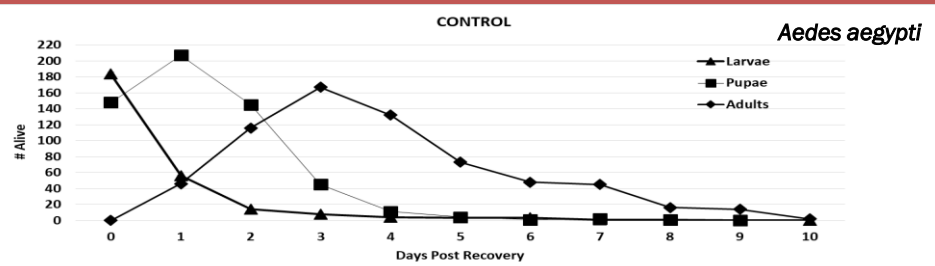
Oviposition Attraction by Container



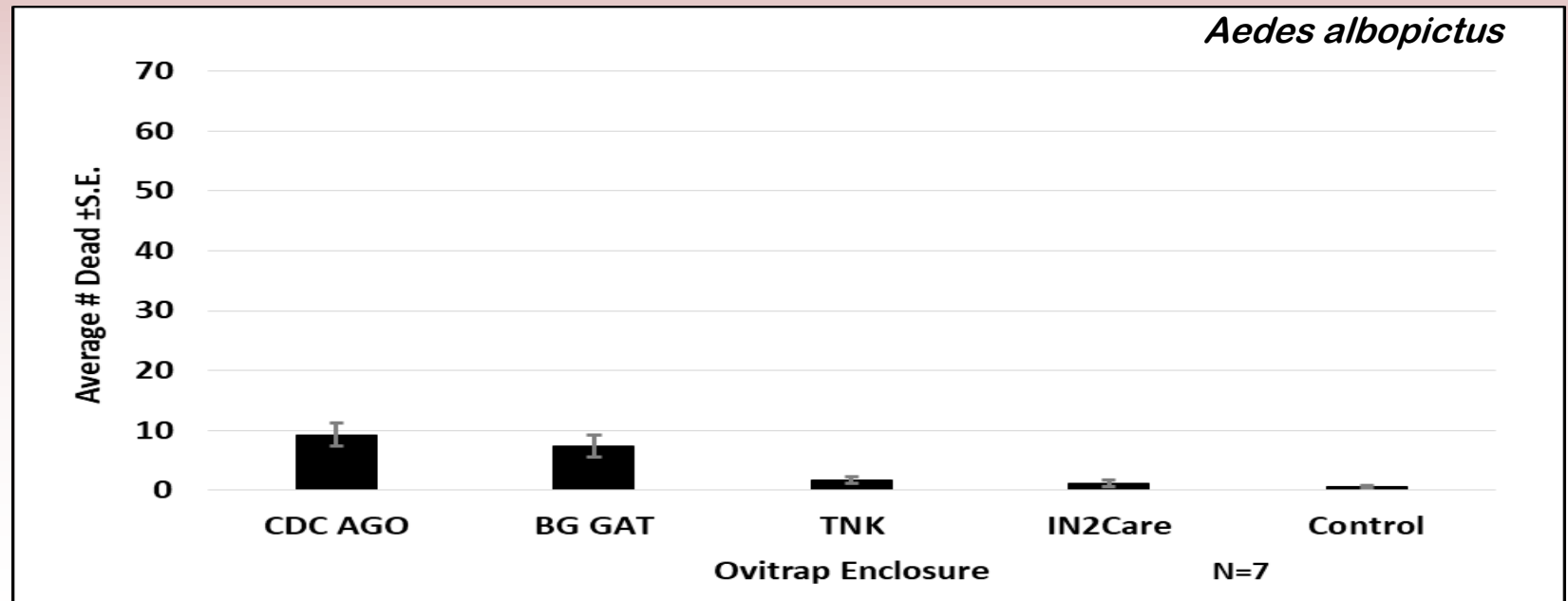
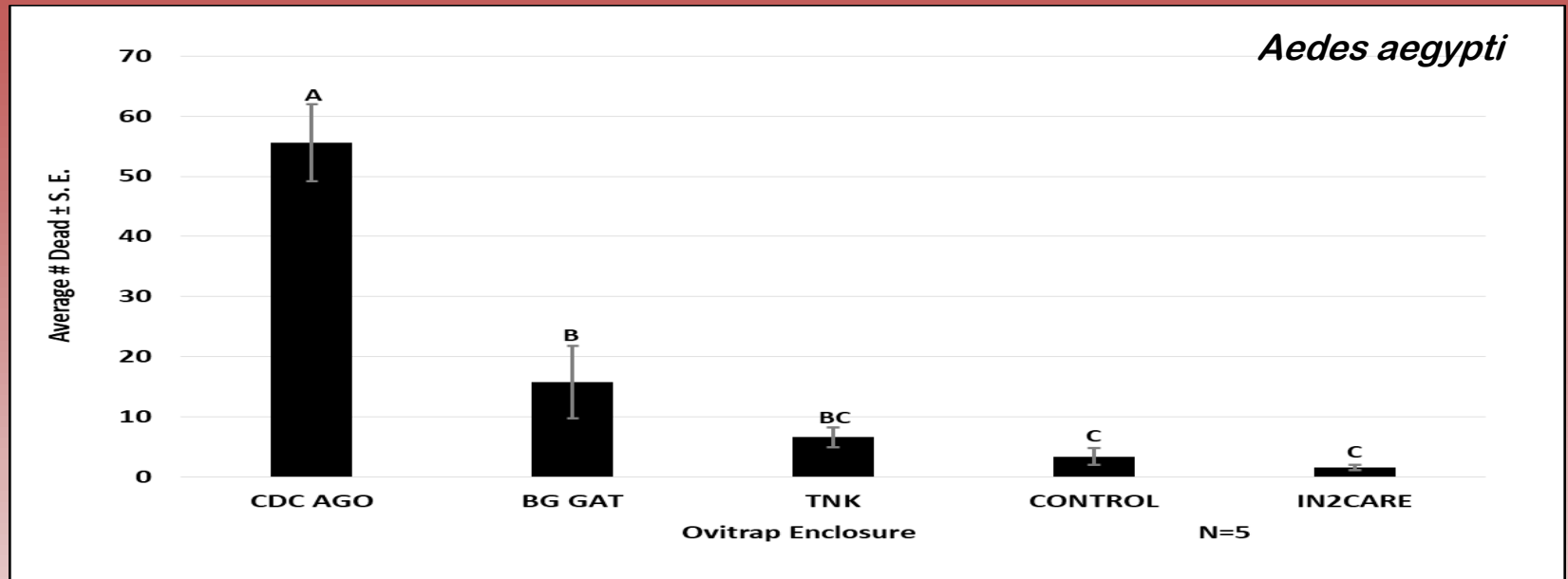
Larval + Pupal Mortality by Treatment Enclosure



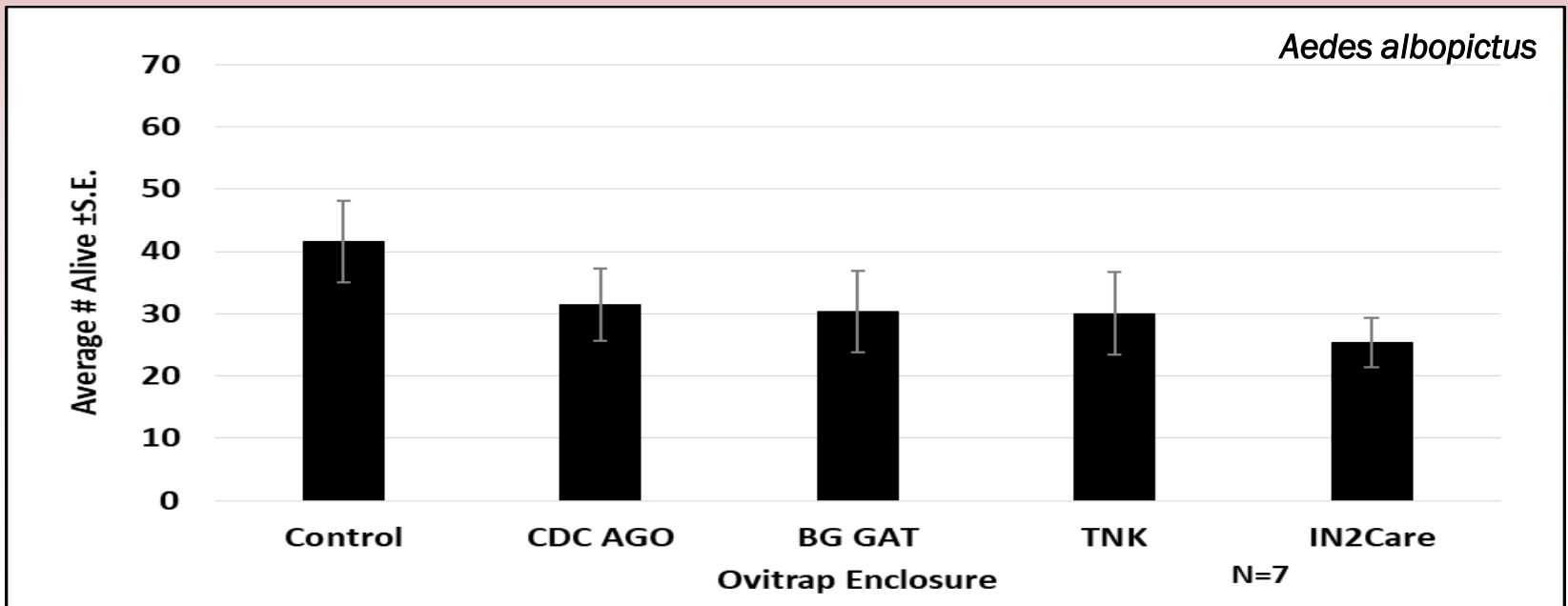
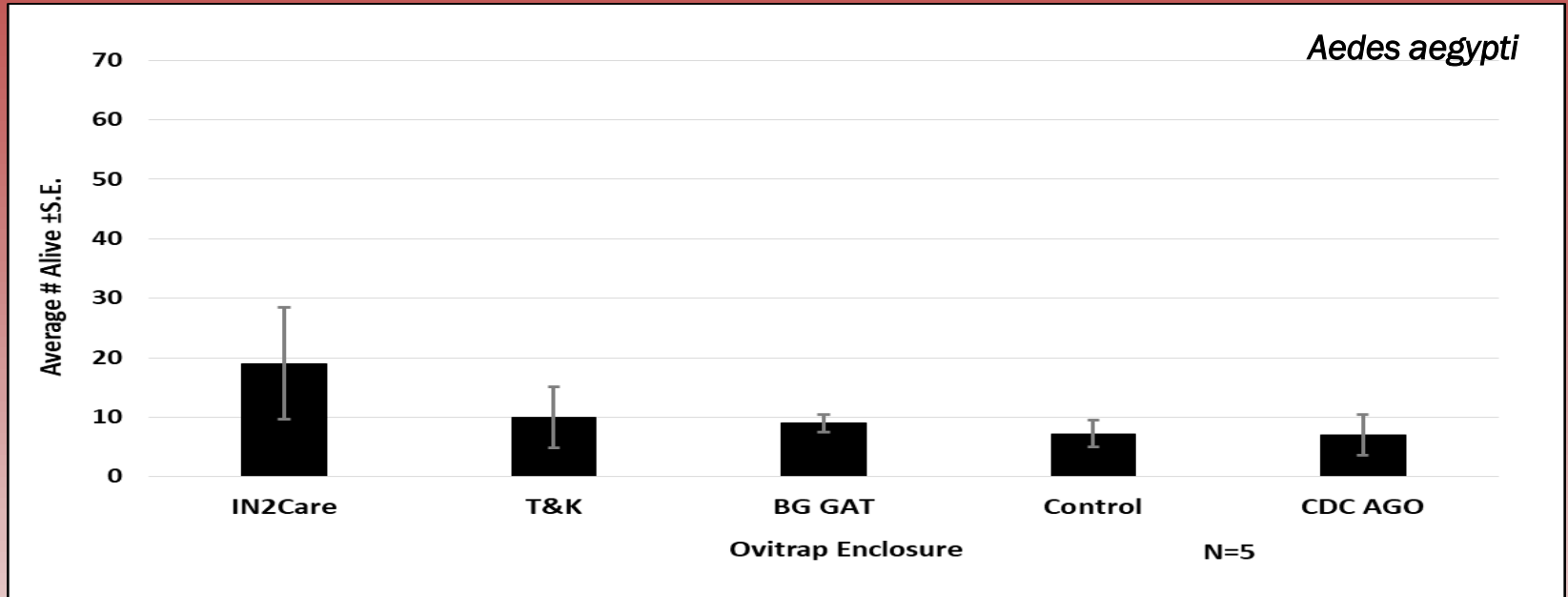
Larval, Pupal, and Adult Survival by Ovitrap Enclosure



Adult Mortality by Ovitrap Enclosure



Adult Survival by Ovitrap Enclosure



Conclusions

1. There was no significant difference in oviposition attraction among the five ovitrap enclosures.
2. The greatest larval and pupal mortality occurred in the In2Care enclosure.
3. The In2Care was the only ovitrap that significantly reduced mosquito production. This was attributed to autodissemination of pyriproxyfen.
4. The CDC-AGO consistently trapped on average more than 50% of the released gravid *Ae. aegypti*.



Questions?

Dr. John P. Smith

jsmith@pc.fsu.edu

