



Ten Projects Funded in 2010 Collaborative between ARS and Universities

Wheat and Barley Stem Rust (5)
Asian Soybean Rust (2)
Laurel Wilt (2)
Powell Butte Cyst Nematode (1)

Initial Field Tests (Fall 2009)

- Questions
 - RAB preference among 3 avocado races?
 - Is α-copaene the primary attractant?
 - Is manuka lure competitive with wood from host trees?
- Sticky traps stapled to wood bolts
 - 3 races of avocado (W, G, M)
 - Lychee (non-host, high in α-copaer
 - Unbaited sticky trap (neg. control)
- Lindgren funnel traps
 - Manuka lure (Synergy Semiochemic
 - Phoebe lure (2nd test only)
- 8-week tests, 5 replicate blocks





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Laboratory Bioassays (Spring 2010)

- Evaluated behavioral responses of RAB to the same treatments used in 2009 field tests
- Collab. with Jorge Peña (UF, Homestead) and John Capinera (UF, Gainesville) – UF lab colony
- Bioassay 1
 2-Choice Test: Avocado vs. Lychee
 - Rectangular bin, bolts at opposite ends
 - 20 female RAB (\leq 3 d post-eclosion) placed in center
 - Recorded # RAB on each bolt after 1, 2, 4, 8 and 24 hr
 - Recorded # RAB boring and location on bolt (cut end or bark)
 - Replicated 5x



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Screening Wheat and Barley for UG99 Resistance in Kenya



Priorities

 Stakeholders
 Crop producers
 Crop germplasm committees
 USDA, APHIS
 USDA, ARS, Office of Pest Management Policy

ARS Base-Funded Resarch

- Groundnut Ring Spot Virus
- P. ramorum
- Laurel Wilt
- Ug99
- Asian Soybean Rust
- HLB

FY 11 and FY 12 Budgets

