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 $\alpha$-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 $\alpha$-copaene)
  - Unbaited sticky trap (neg. control)

- **Lindgren funnel traps**
  - Manuka lure (Synergy Semiochemicals)
  - Phoebe lure (2nd test only)

- 8-week tests, 5 replicate blocks
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 (≤ 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
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 Research

- Groundnut Ring Spot Virus
- P. ramorum
- Laurel Wilt
- Ug99
- Asian Soybean Rust
- HLB
FY 11 and FY 12 Budgets