I’ve provided the bug counts and tree measurements, what does it mean?

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Overall research goals

We want to test whether certain tools (kaolin sprays, individual protective covers, reflective donuts) protect young citrus trees from pests and plant pathogens as well as affect their growth compared to standard insecticides.

- **Pests**
  - Asian citrus psyllid
  - Citrus leafminer
  - Spider mites

- **Pathogens**
  - HLB
  - Greasy spot
  - Citrus canker

- **Tree growth**
  - Height
  - Canopy area
  - Trunk circumference
Overall research goals

• We have been testing these tools in commercial settings but want to know how effective they are in residential settings

• We want to use our results from this study to give recommendations that homeowners can follow to successfully grow citrus
13 participating locations from 11 counties

Charlotte
Highlands
Indian River
Lake
Manatee
Orange
Palm Beach (2 locations)
Polk
Sarasota
St. Lucie
Seminole (2 locations)
Individual protective covers (IPCs) protect trees from adult psyllids and citrus leafminers.
Individual protective covers (IPCs) protect trees from adult psyllids and citrus leafminers
Kaolin trees had spider mites more often

- Control: 0.07
- IPC: 0.08
- Kaolin: 0.14
- Reflective donut: 0.08

Avg. proportion of spider mites
Visual signs of HLB are variable but more common in control and reflective donut trees.
Reflective donut trees had greater area and height.
Control trees had a lower tree trunk girth
Overall findings and conclusions

• Individual protective covers may protect young citrus trees from major pests (Asian citrus psyllids and citrus leafminer), but not spider mites
• IPC and kaolin trees seem to have fewer visual signs of HLB/stress
• Trees with reflective donuts grow faster
• Data from Year 2 will give us a clearer picture of how our treatments affect our trees
• We are gaining valuable data from your contributions- so thank you for all that you are doing!
Any questions?

Thank you!