

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

---

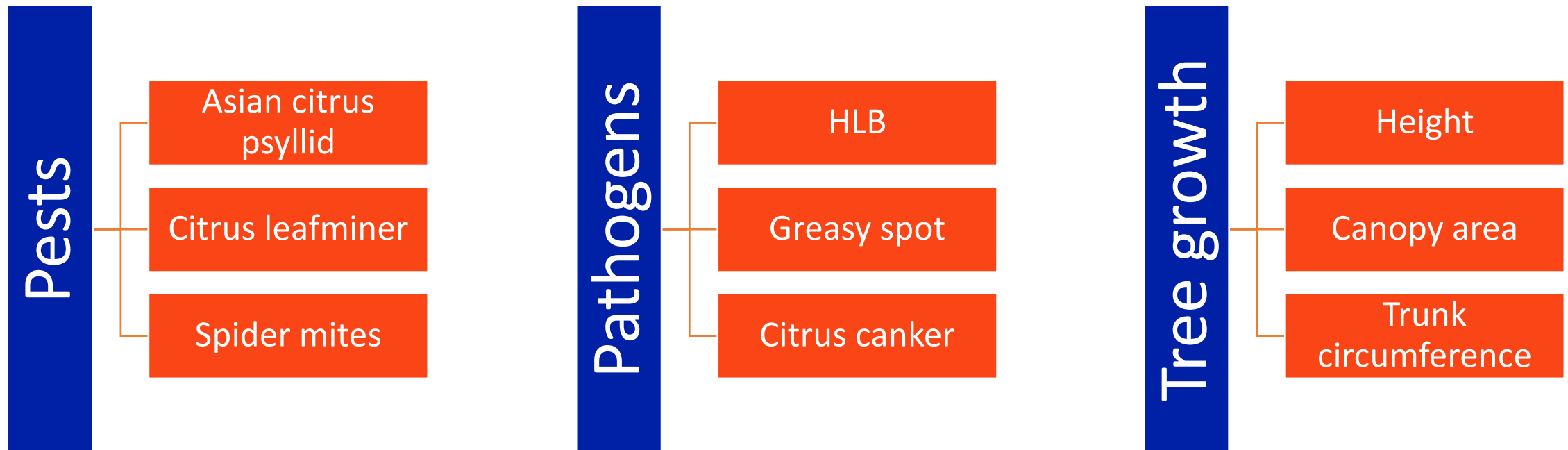
Angela Chuang  
UF/IFAS Citrus Research and Education Center  
June 28, 2023



CITRUS IN THE  
HOME LANDSCAPE

# Overall research goals

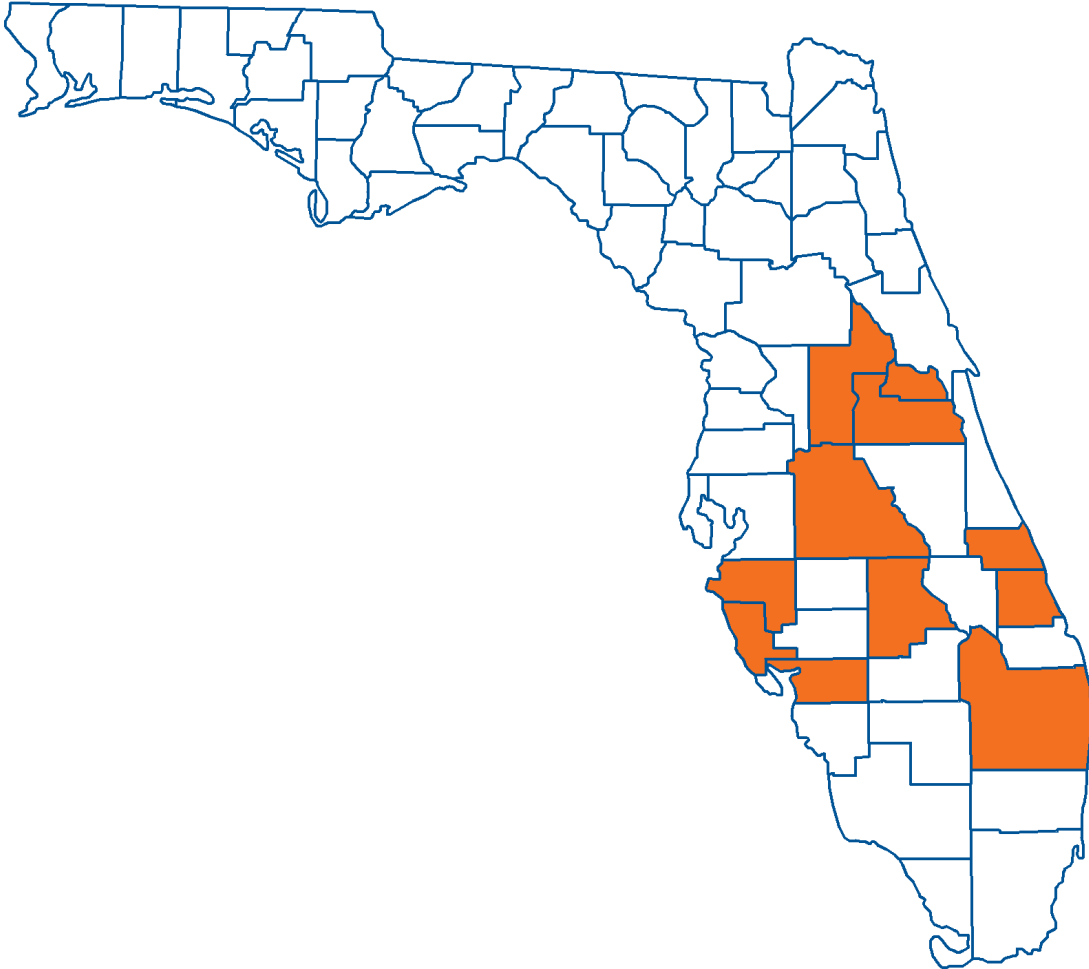
We want to test whether certain tools (kaolin sprays, individual protective covers, reflective donuts) protect young citrus trees from **pests** and **plant pathogens** as well as affect their **growth** compared to standard insecticides



# Overall research goals

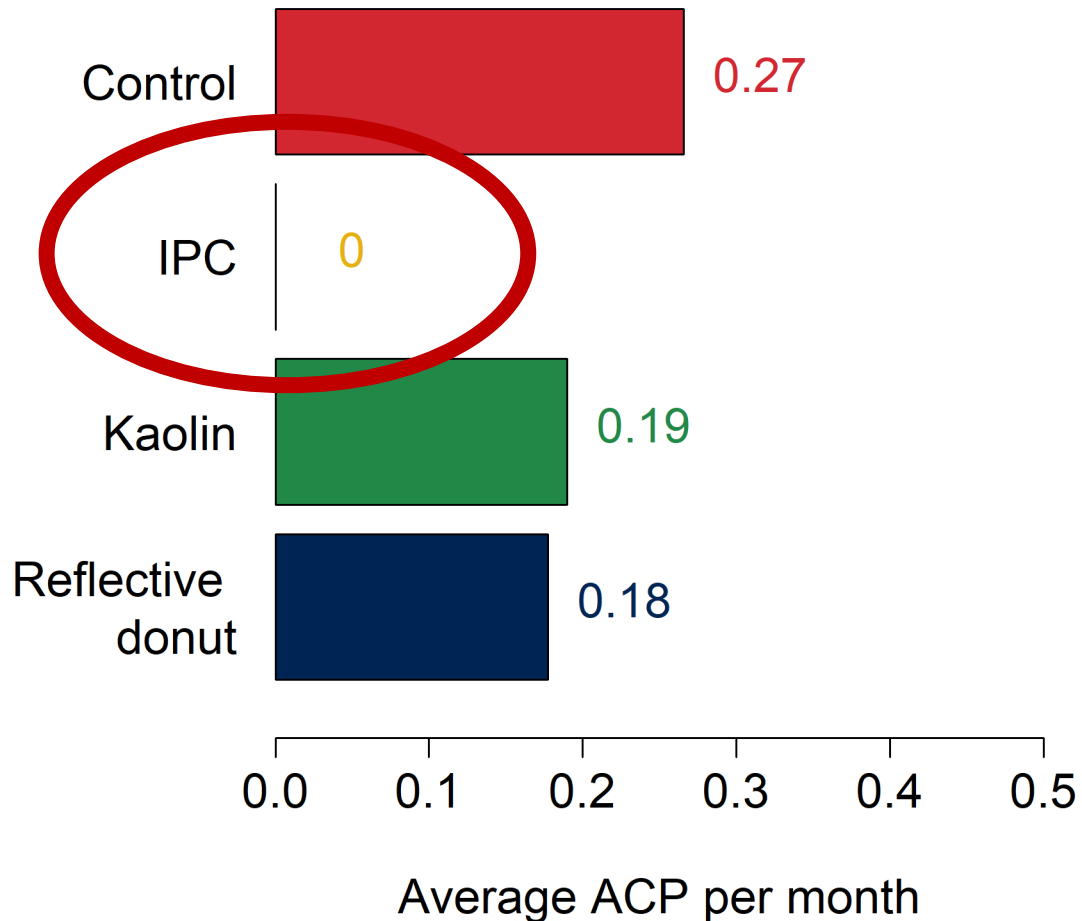
- We have been testing these tools in commercial settings but want to know **how effective they are in residential settings**
- We want to use our results from this study to **give recommendations that homeowners can follow** to successfully grow citrus

# 13 participating locations from 11 counties

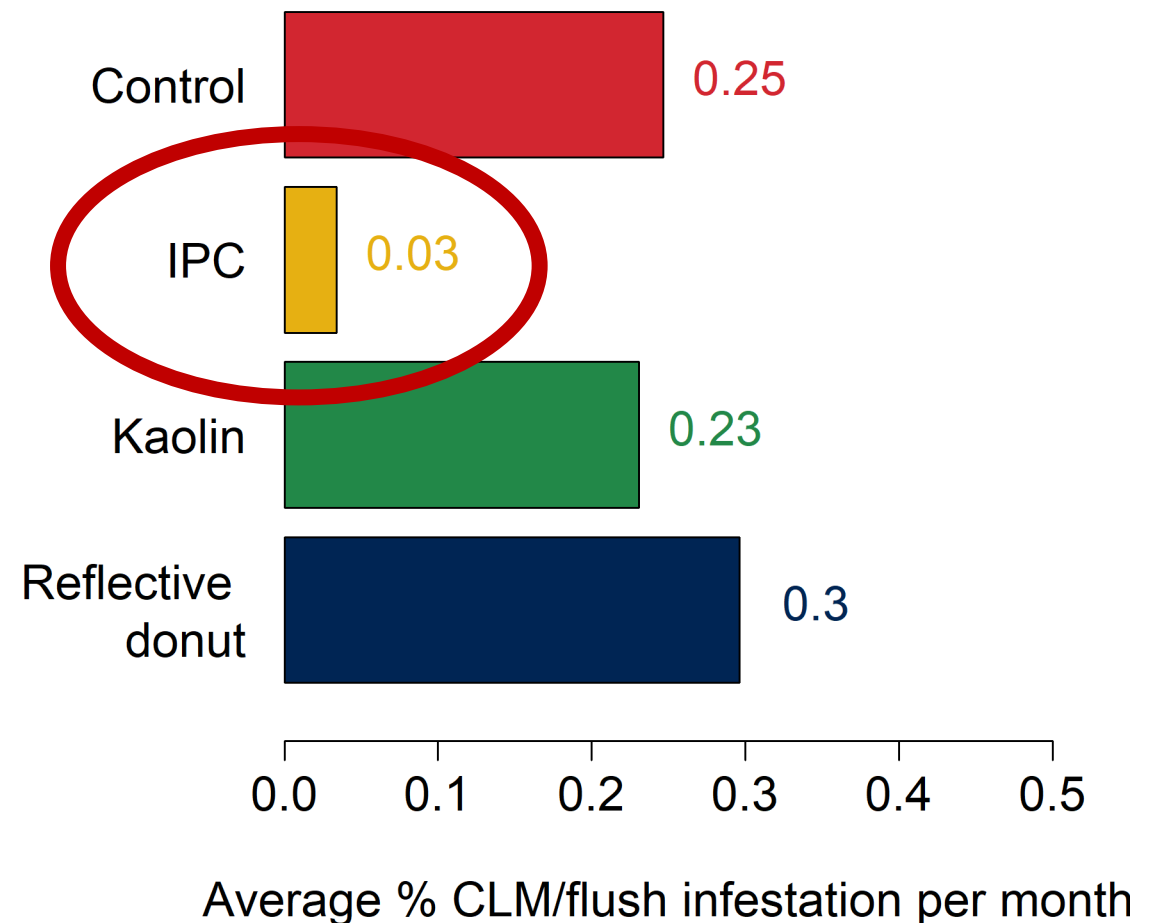
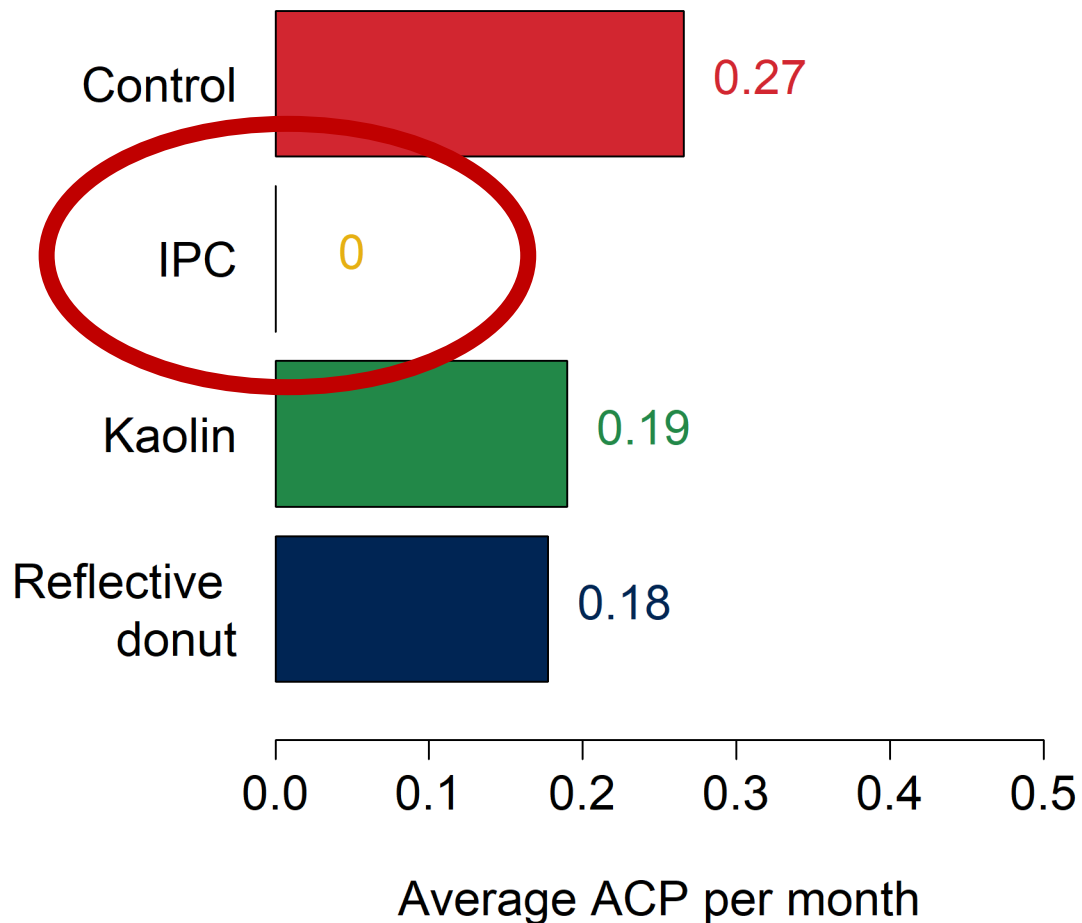


Charlotte  
Highlands  
Indian River  
Lake  
Manatee  
Orange  
Palm Beach (2 locations)  
Polk  
Sarasota  
St. Lucie  
Seminole (2 locations)

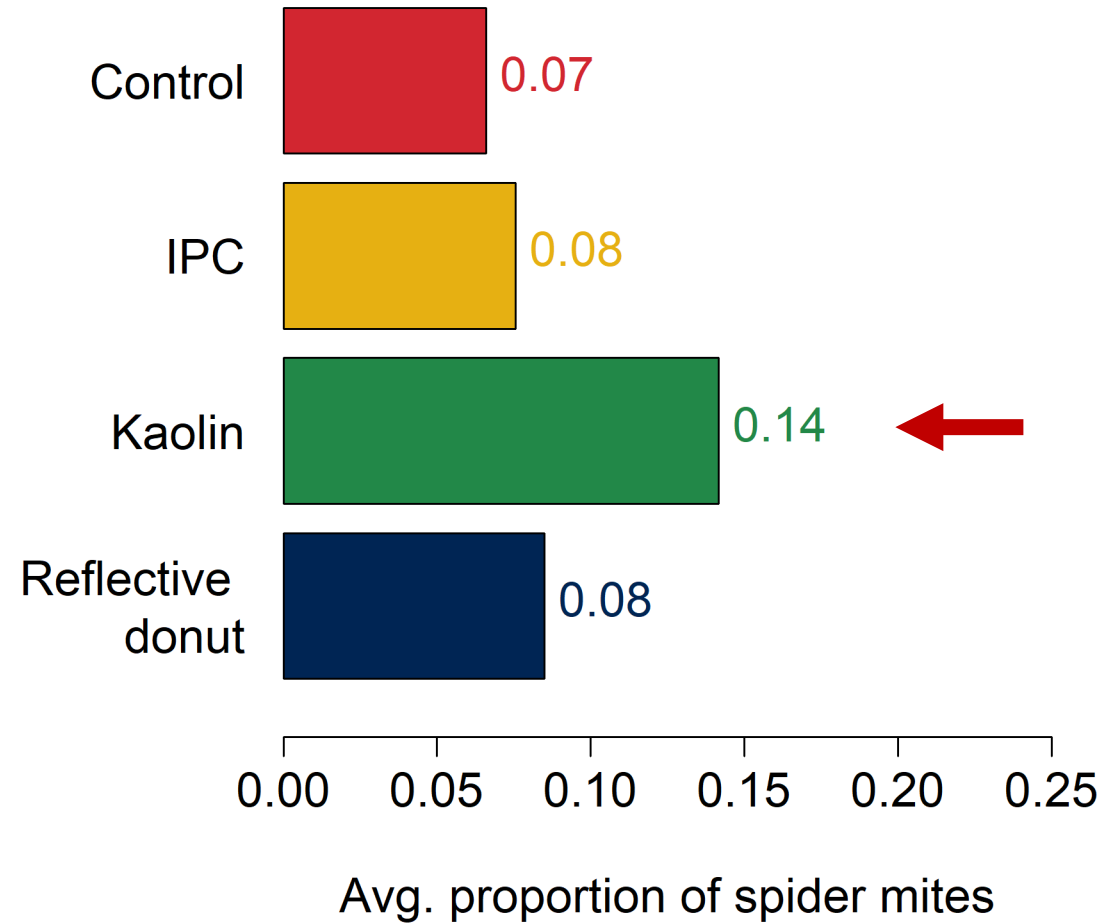
# Individual protective covers (IPCs) protect trees from adult psyllids and citrus leafminers



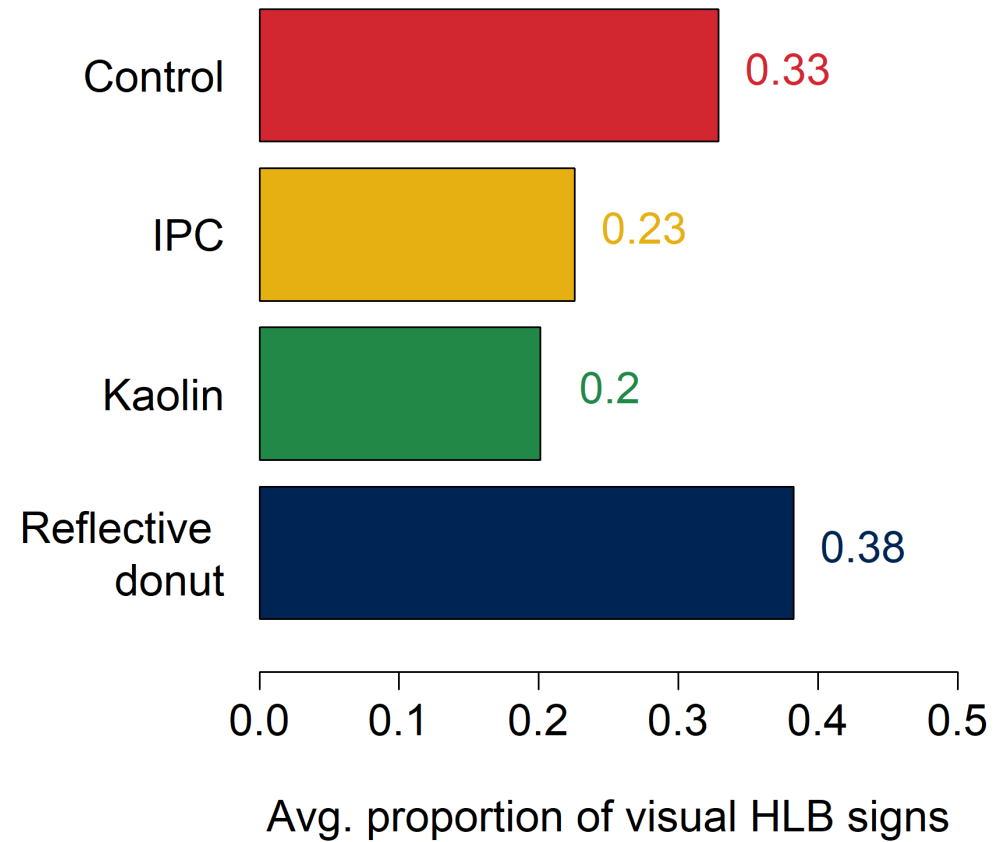
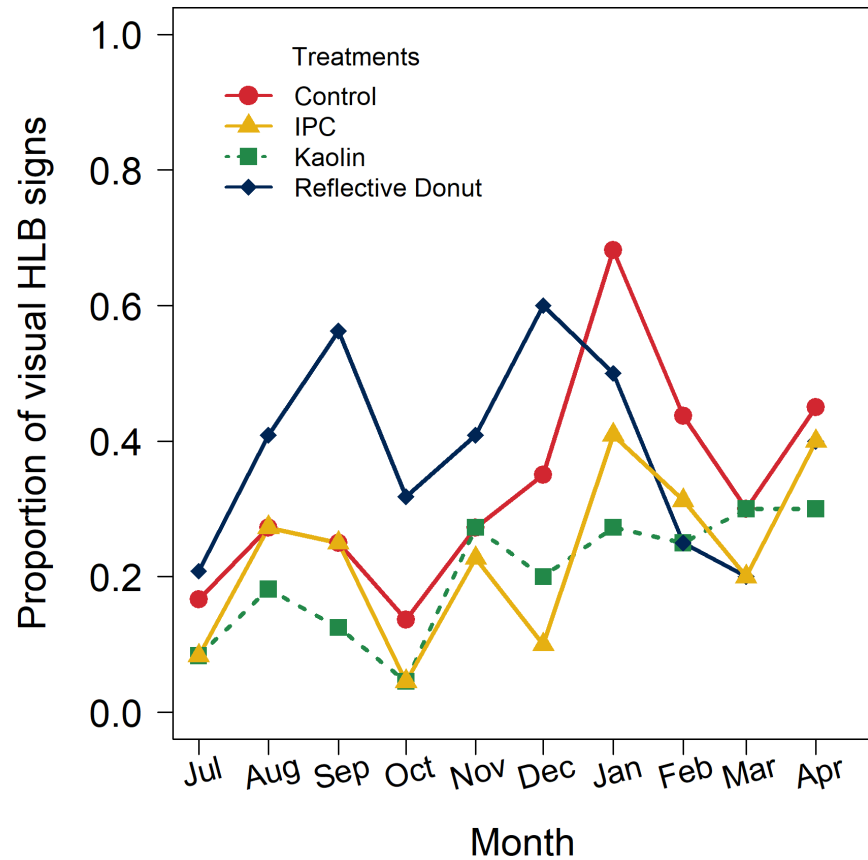
# Individual protective covers (IPCs) protect trees from adult psyllids and citrus leafminers



# Kaolin trees had spider mites more often

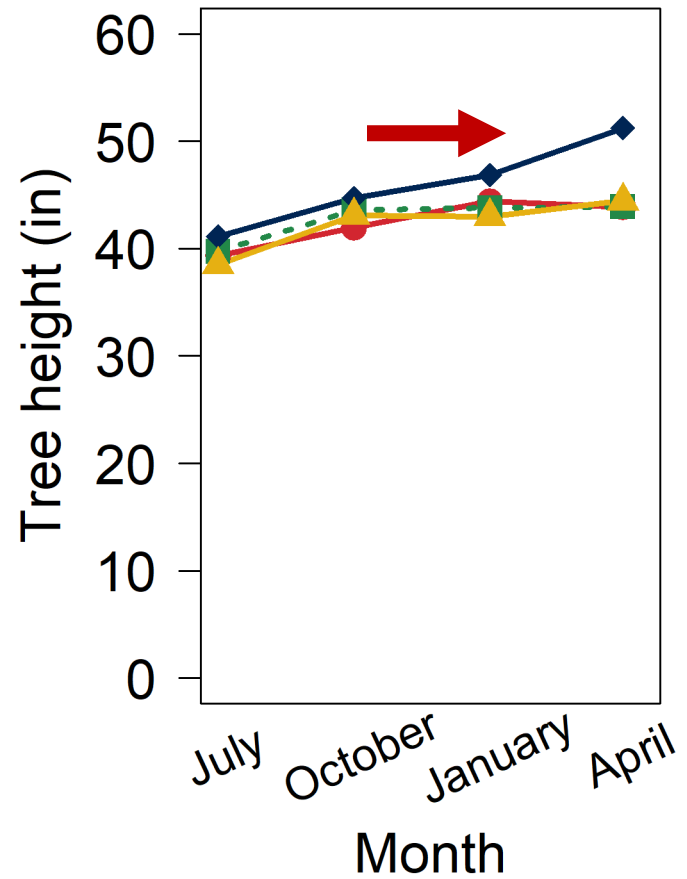
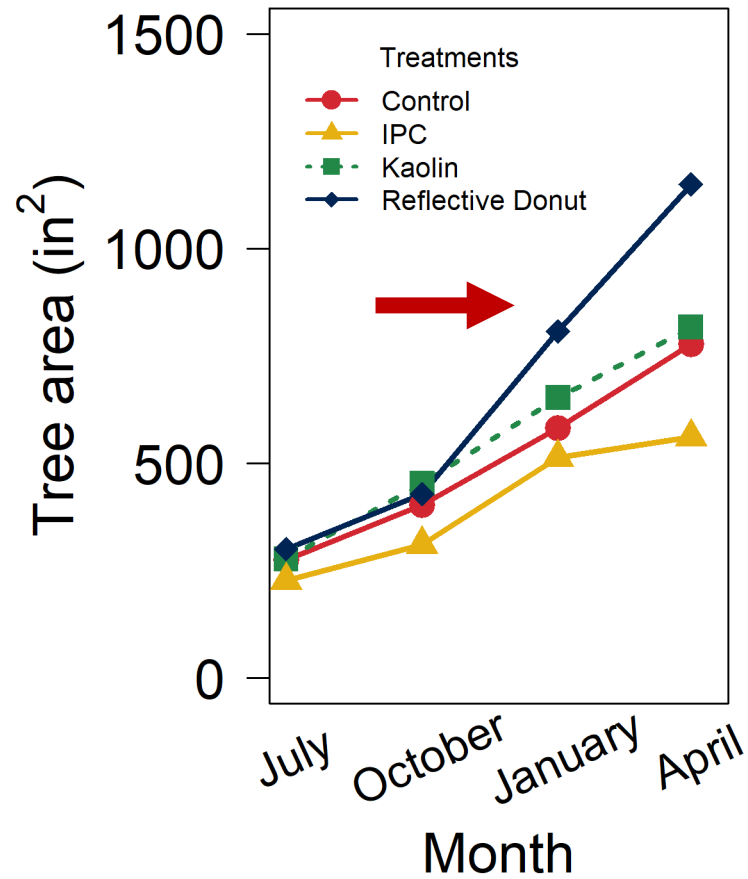


# Visual signs of HLB are variable but more common in control and reflective donut trees

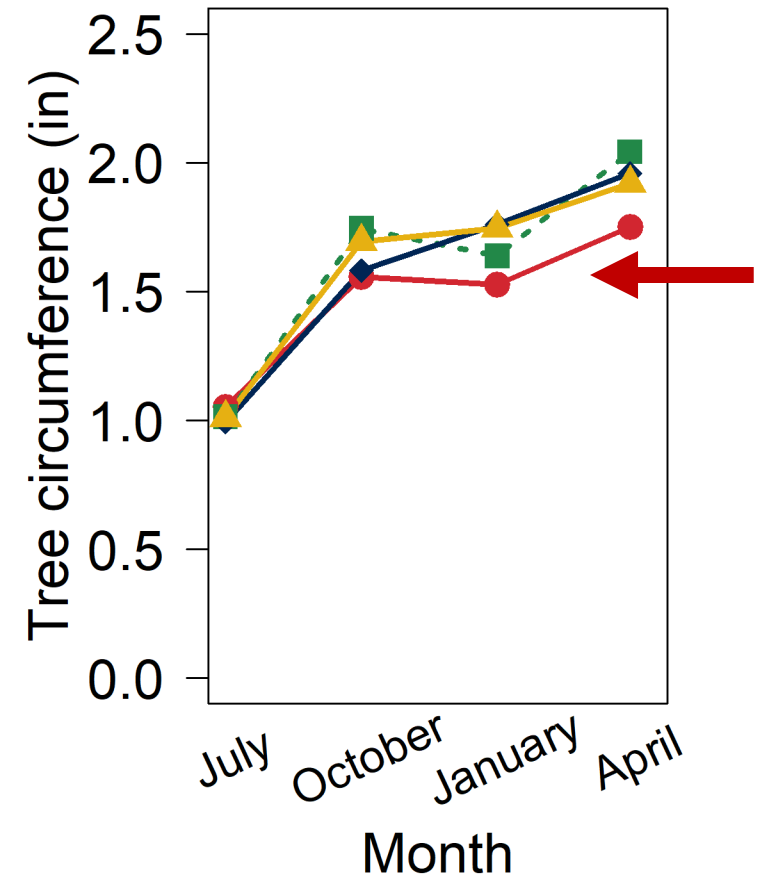
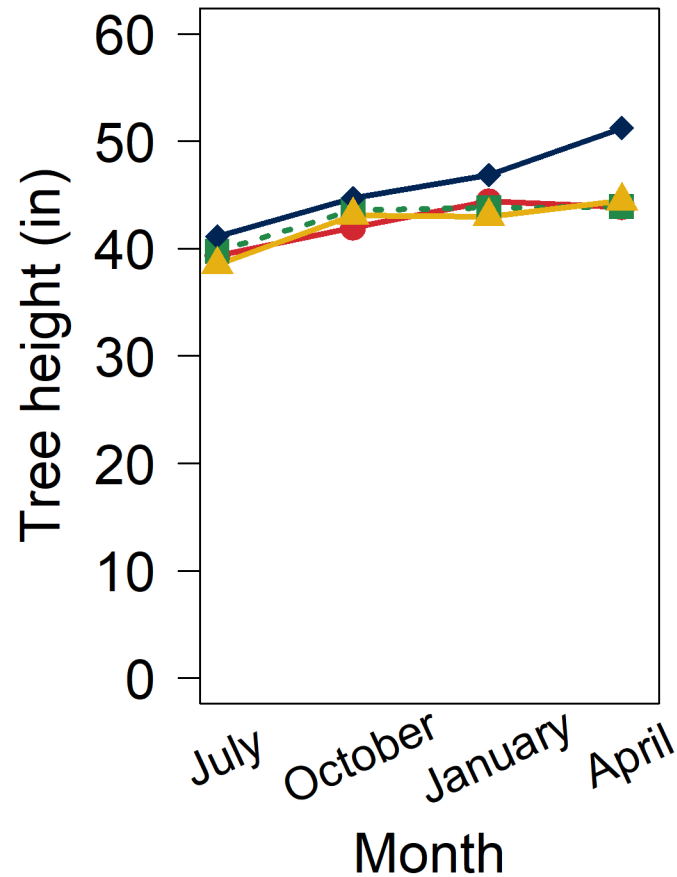
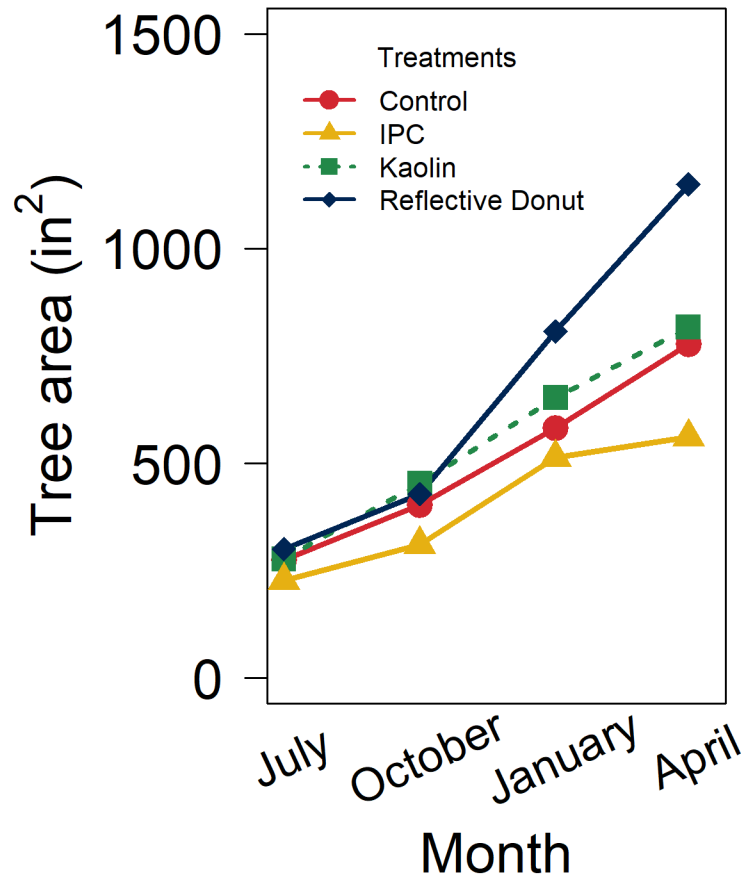




# Reflective donut trees had greater area and height



# 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!



CITRUS IN THE  
HOME LANDSCAPE