INSECT UPDATE PECAN PRODUCTION MEETINGS



Apurba Barman Will Hudson Andrew Sawyer



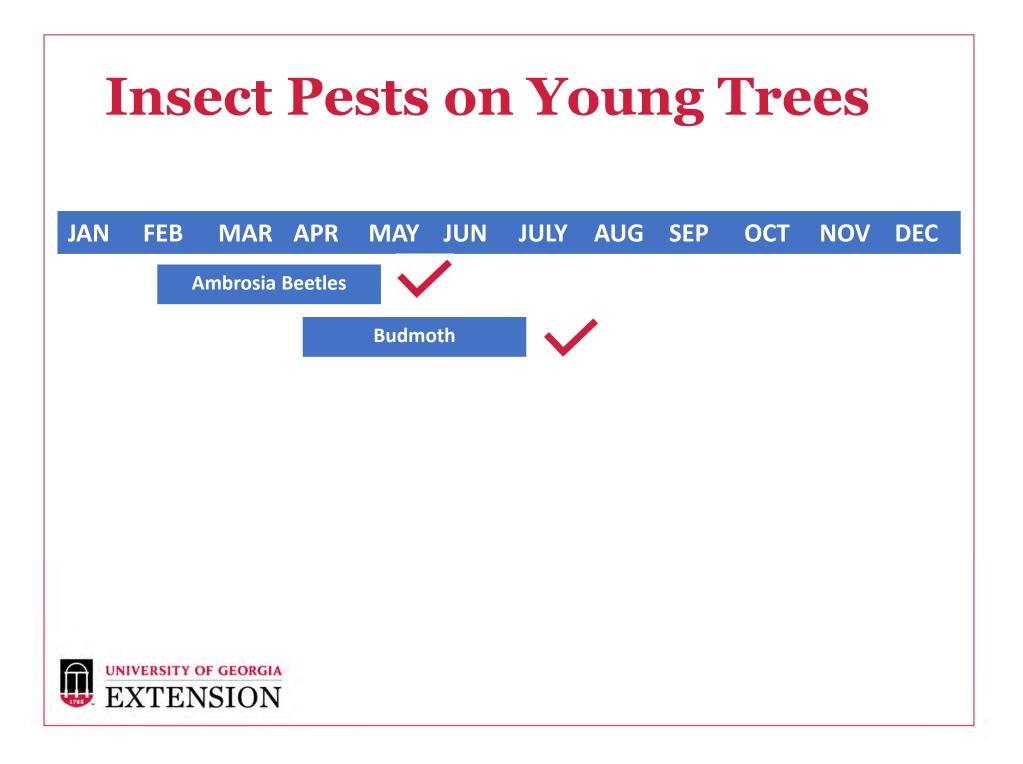
Personal Background

- > Apurba Barman
- Native of India
- Masters (Texas Tech), PhD (Texas A&M)
- Postdoctoral Research (University of Georgia)
- Previous Position: Area IPM Advisor (University of California)
- Pecan Entomologist Position: August 2022









Pecan budmoth







- Feed on leaves, young buds
- Can cause multiple branching
- Timing of spray is important
- Chemical control: Intrepid Edge, Minecto Pro

Monitoring for ambrosia beetles

- > Bolt of wood, drill hole in the middle
- Pour <u>ethanol/denatured alcohol</u>, into the hole
- Plug hole with cork
- Deploy traps along woodlines next to orchards by <u>early Feb</u>
- When attacks are detected, treat infested trees with **pyrethroids** using a hand gun (repeat applications after 7-10 days)





Flatheaded appletree borer







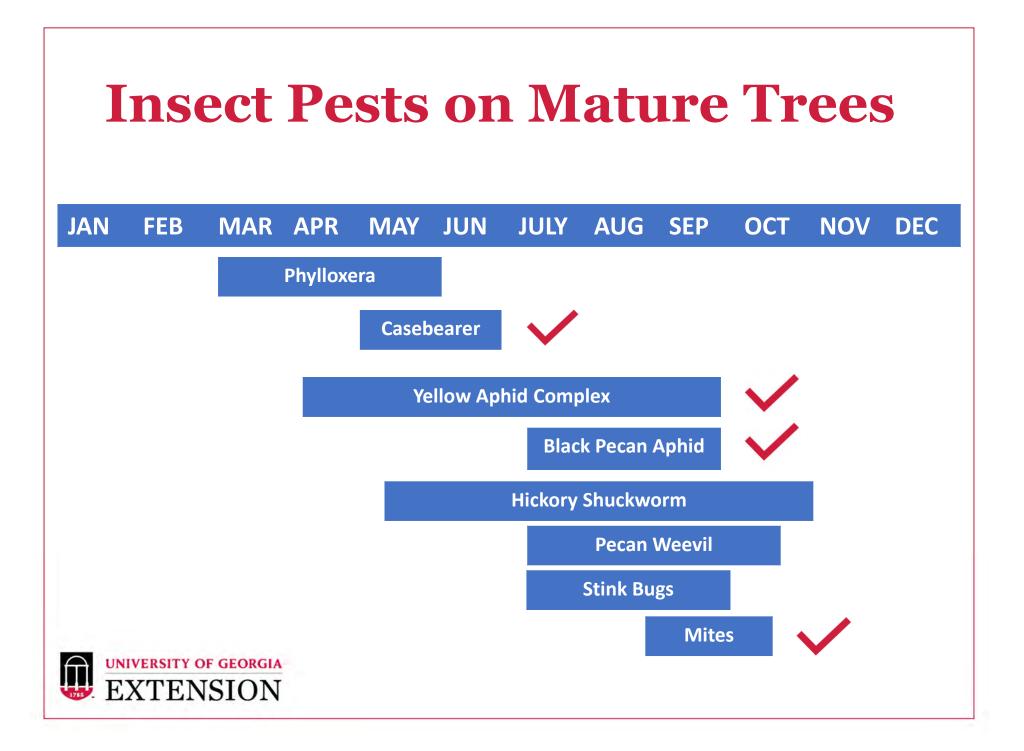
Not widespread in pecan orchards
 Eggs are laid in cracks or injured bark
 Larvae make galleries and feed on sapwood (phloem)

Flatheaded appletree borer



Sign of attack- "wet spots", bark splitting
Can happen to older trees as well
Pyrethroid, imidacloprid spray

EXTENSION



Pecan Nut Casebearer

- Egg laying occur in mid-May
- Time application before larvae start feeding inside the nut (monitor for adult emergence)
- During heavy crop load, serve as a natural thinning mechanism
- Management options:
 - Intrepid, Intrepid Edge and Dimilin







Yellow Aphid Complex

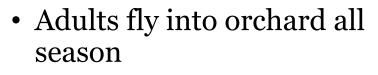






Black Pecan Aphid





- Feeding causes chlorosis and leaflets drop prematurely
- Threshold is 15% of terminals with >1 OR presence of immatures
- Sumner, Gloria Grande, Schley, Caddo.....





Aphid Summary

- **1. <u>Don't use</u>** any broad spectrum insecticides
- 2. Ignore yellow aphids
- 3. Ignore black aphids before June

Sumner/Gloria Grande/Schley/Caddo

- 1. Apply imidacloprid via drip in early/mid June OR Pro Gibb 3x, every 10 days, starting July
- 2. If black aphids flare up in 3-4 wks, apply Closer, Carbine, PQZ, Safina -- *ROTATE*
- 3. Use Nexter late season if needed for black aphids when mites build





Pecan Leaf Scorch Mite





- ➤ Make sure if this is mite or something else
- Mostly seen around August/September
- ➢ Favorable condition: dry and dust
- ➢ Found more in lower and inner canopy
- THRESHOLD: <u>start</u> to see damage and there are 40-50 mites per leaflet, spray.
- ≻ CONTROL
 - Abamectin (label)
 Acramite (24 oz)
 - > Envidor (18 oz)
 - ≻ Nexter (7.5 17 oz)
 - > Magister (36 oz)
 - Portal (2 pt)

Acknowledgements

- Pecan Growers
- UGA Pecan Team
- UGA County Agents



Georgia Pecan Commodity Commission



