



Passive "de facto" Management

Cropping system

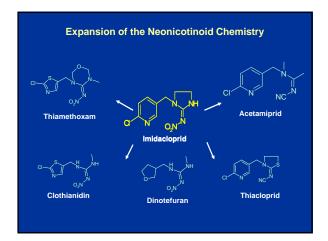
- Large acreages of untreated host plants serve as refugia
- Alfalfa, seed crops, weeds, ornamental landscape

Whitefly biology and ecology

• Polyphagy, mating behavior, and dispersal capability

IPM Practices

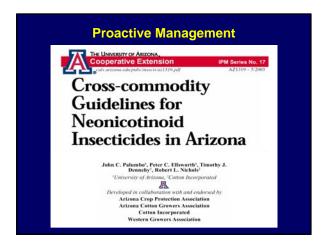
- Limitation and segregation of chemistries
 1 use of imidacloprid in vegetables and melons
 1 use of IGR's in cotton
- Spatial and Temporal Insecticide Rotations
- Exposure to other non-neonicotinoid a.i.s for other pests. (acephate, chlorpyrifos, endosulfan, methomyl)
- Foliar Neonicotinoids (Provado) not used in cotton, Not labeled in melons

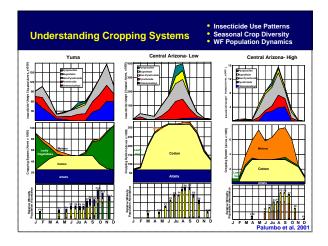


A.I.	Product	Application	Crops Uses
acetamiprid	Assail , Intruder	Foliar	Lettuce, Cole, Cotton
dinotefuran	Venom	Foliar, Soil	All
imidacloprid	Admire, etc.	Soil	Melons, Lettuce, Cole
imidacloprid	Gaucho, etc.	Seed	Cotton
imidacloprid	Provado, etc.	Foliar	Lettuce, Cole (Cotton)
thiamethoxam	Centric	Foliar	Cotton
thiamethoxam	Cruiser	Seed	Cotton
thiamethoxam	Platinum	Soil	Melons

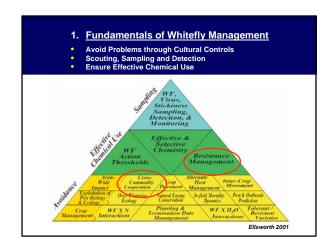
Arizona Cross-Commodity Working Group

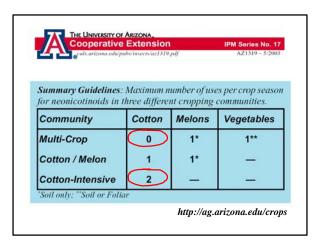
- Arizona Cotton Growers Association
- AZ Cotton Research & Protection Council
- Cotton Incorporated
- Western Growers Association
- Arizona Veg Growers Association
- Yuma Vegetable Shippers Association
- Arizona Crop Protection Association
- Arizona Department of Agriculture
- University of Arizona
- AgriChemical Industry

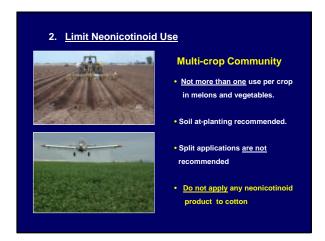


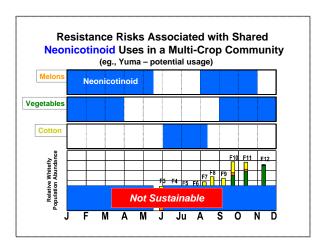


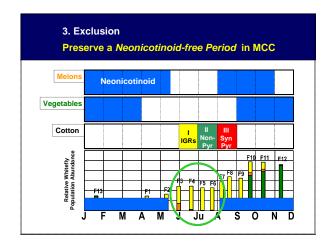


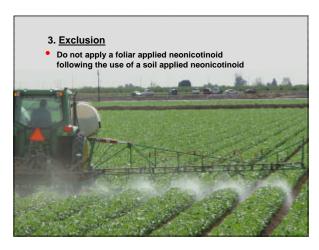




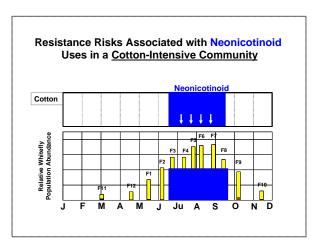


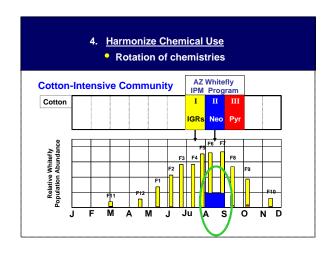


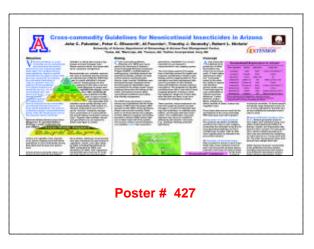


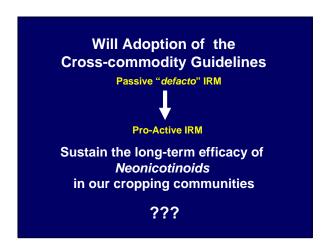


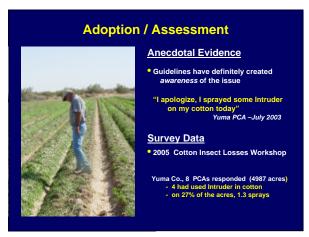


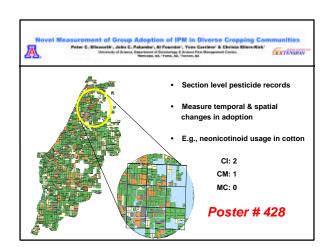


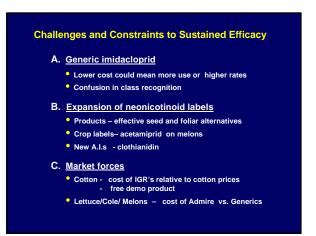












Challenges and Constraints to Sustained Efficacy D. New Chemistry in the Pipeline 1 Trends toward selective chemistries Grower: "Industry always comes through with new technology" Industry: "Resistance is a source of innovation " E. Grower-consultant complacency and apathy "Little Suzy Needs New Shoes" Reduced rates / split (multiple) applications Sloppy soil applications on vegetables and melon

