

IPM and Regenerative Agriculture

University of Florida, Institute of Food and Agriculture, IPM Florida
 Laboratory- Biological Control Research
<http://www.ipm.ifas.ufl.edu>

1. Use cultural practices

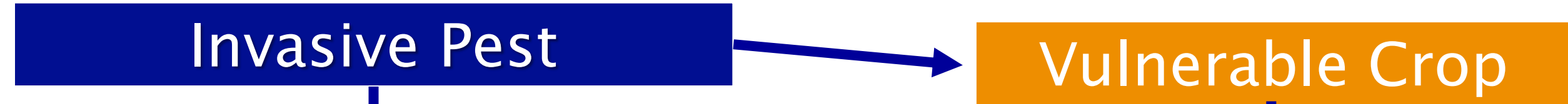
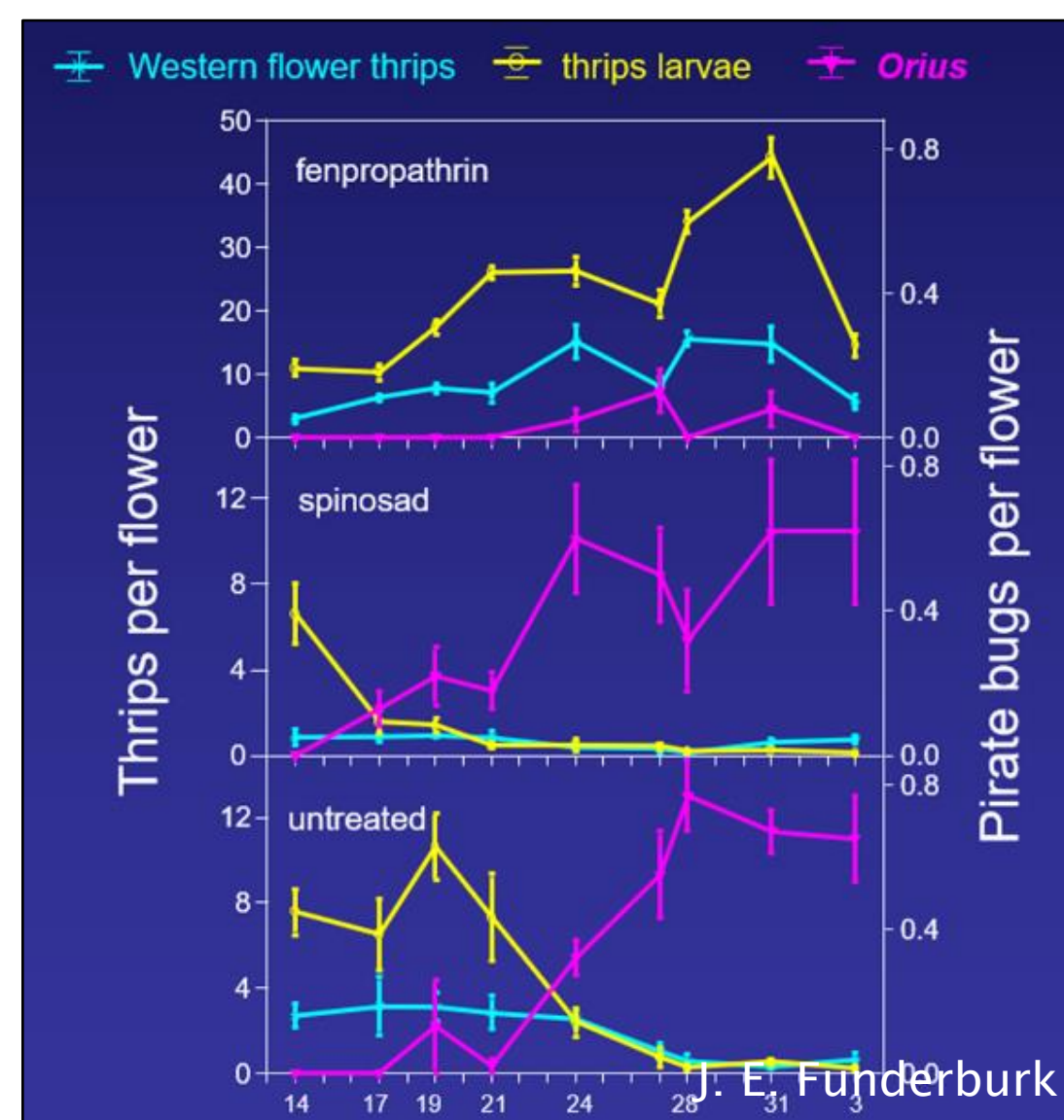


Resistant tomato crop, plastic mulch & sorghum trap crop

2. Scout & ID pests & natural enemies (NEs)



3. Conserve competitors & natural enemies (NEs)



Resistant Crop

Resistant Crop Competitors
 Natural Enemies
 Resistant Varieties

Insecticide Program

- New insecticides
- New formulations
- New Application Methods
- Resistance management

IPM Program

1. Use cultural practices
2. Scout & ID pests & NEs
3. Conserve competitors & NEs
4. Augment natural enemies
5. Use reduced-risk insecticides
6. Establish action thresholds
7. Manage resistance

UF/IFAS Diagnostic Services
<https://diagnostics.ifas.ufl.edu>

4. Augment natural enemies



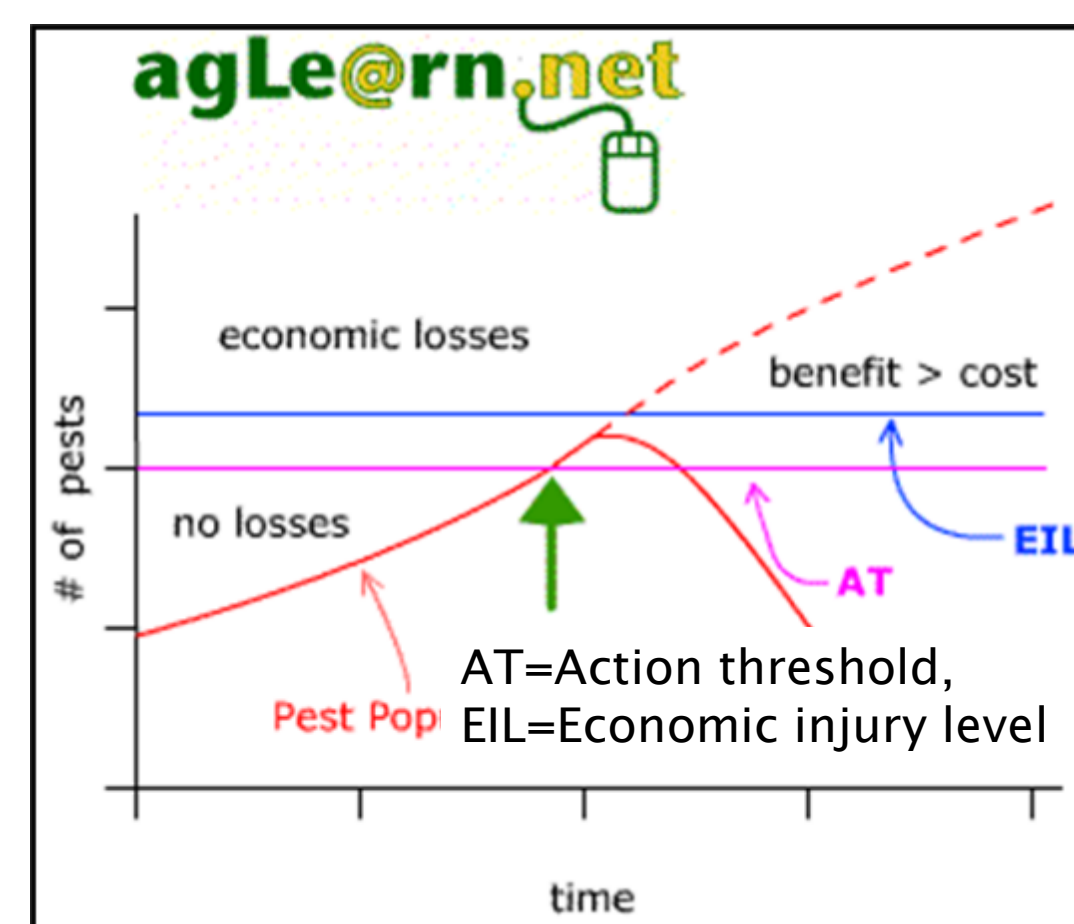
Tamarixia radiata for Asian citrus psyllid

Trichopoda pennipes for stink bugs

5. Use reduced-risk insecticides

Low impact on human health
 Low toxicity to non-targets
 Low groundwater contamination
 Low use rates
 Low pest resistance
 Compatible with IPM

6. Establish action thresholds



7. Manage resistance



Insecticide Resistance Action Committee

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Smart Solutions to Hunger and Poverty

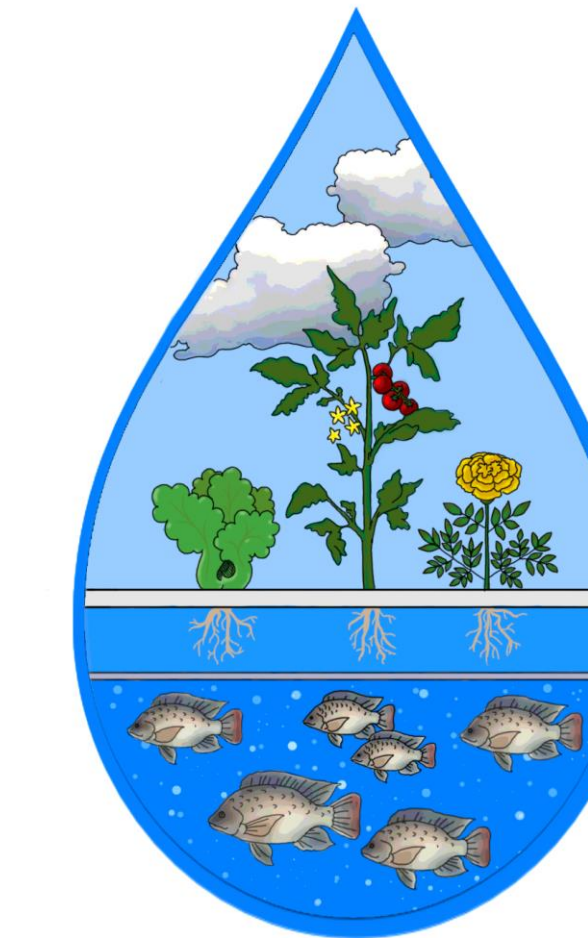


Valencia College Plant Science and Agricultural Technology Program
<https://valenciacollege.edu/future-students/plant-science-and-agricultural-technology-as.php>



- A.S. degree (60 credits)
- Specializations in:
 - Landscape
 - Horticulture
 - Sustainable Agriculture

- Technical Certificates
 - Specialist (12 credits)
 - Professional (18 credits)
 - Technician (30 credits)
 - Stand alone and/or lead up to A.S.



Hands-on training



Courses include:

- Plant Science / Botany
- Entomology
- Plant Pathology
- Soils & Fertilizers
- Sustainable Agriculture
- Hydroponics
- Aquaponics
- Nursery / Greenhouse Ops.

Community projects



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