

# Doctor of Plant Medicine Students: Helping to Deliver IPM to Diverse Clientele

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Doctor of Plant Medicine Student; IPM Florida

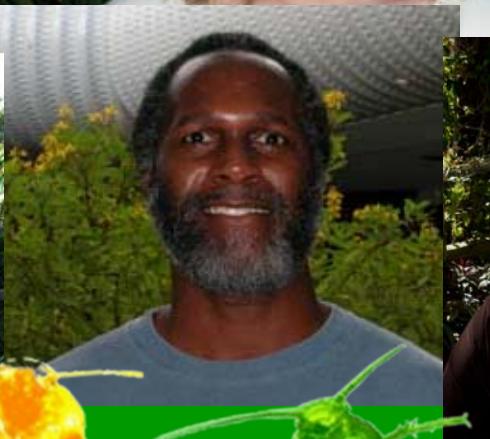


# Florida is DIVERSE...

- Three distinct climatic zones
- US leading producer of Vegetables, Turf, Ornamentals, Citrus, Beef.
- Burgeoning greenhouse production industry
- Sentinel state— Port of entry for countless pests, diseases, and exotic weeds



**IPM Florida** provides statewide, interdisciplinary and inter-unit coordination and assistance for UF, IFAS integrated pest management research, extension and education faculty



# Diverse Clientele

- Extension agents & specialists
- Agricultural producers
- Governmental institutions
- Professional societies
- Public



# IPM Florida ~ Building Through Partnerships

- Partnerships
- Synergy
- Opportunity
- Ownership
- Program recognition



# Delivery

- Extension meetings
- Scientific meetings
- Consultation
- Website
- Publications



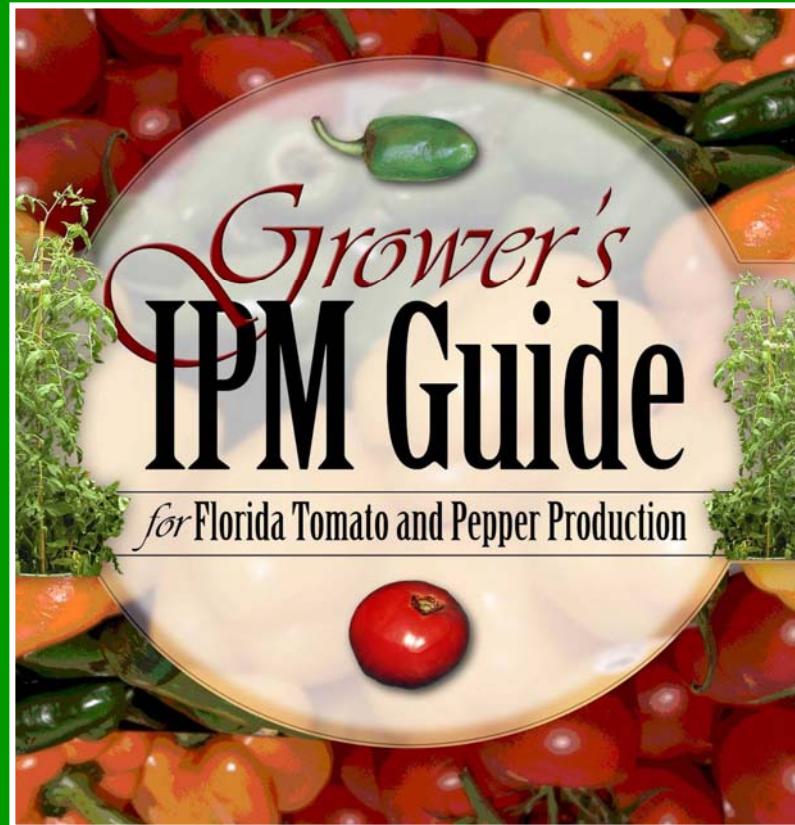
# My experience as a Plant Medicine Student delivering IPM

- Developing an IPM Tool for Florida Vegetable growers.
- Developing a state-wide IPM grants program



# Developing a Management Guide

- I. Collaborative*
- II. Comprehensive*
- III. Creative: a model for future UF/IFAS IPM Guides*



# Developing a Management Guide

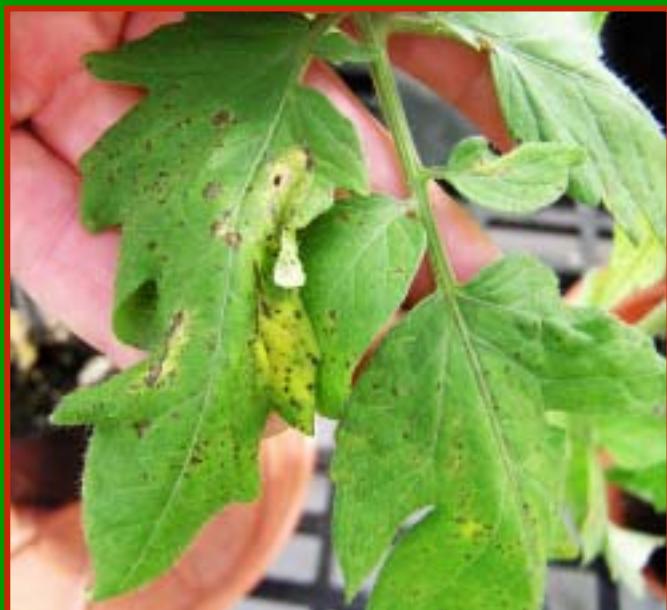
## **I. COLLABORATIVE:**

**Partnered with Industry representatives, growers, and crop advisors to determine the needs of Florida's Tomato & Pepper Producers.**

# **Grower's IPM Guide for Florida Tomato & Pepper Production**

## **SURVEY OF GROWER NEEDS**

- *Options for reducing pest management costs & risks*
- *Information on conserving natural enemies*
- *Practices for preventing crop threatening pests & diseases*
- *Resistance management techniques*
- *Assistance in establishing accurate damage thresholds*
- *Alternatives for Methyl Bromide*
- *A comprehensive resource for making pest management decisions*



## ***II. Collaborative***

- **Linked Extension Specialists, Researchers and County Agents across disciplines throughout the University.**
- **Developed Table of Contents.**
- **Selected chapter editors & teams of expert authors.**



# *Grower's Guide for Florida Tomato & Pepper Production*

## ***I. COMPREHENSIVE:***

- Chapter 1. IPM in Florida
- Chapter 2. Production
- Chapter 3. Soil & Nutrient Management
- Chapter 4. Pest Management
- Chapter 5. Disease Management
- Chapter 6. Weed Management
- Chapter 7. Biological Control
- Chapter 8. Cultural Control
- Chapter 9. Chemical Control

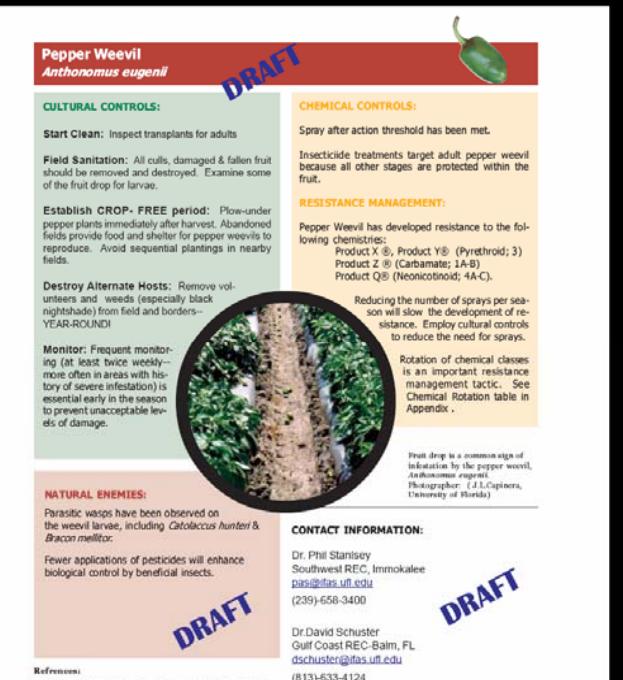
# III. Creative: a model for future IPM Guides

- Template system for authors

- High quality, new photographs, DDIS

- Pocket field guide & IPM Screen Saver

- Self-assessment tool to be a foundation for eco-labeling



# The UF, IFAS IPM Grants Program: Linking Extension Specialists and Agents



A brochure for the UF/IFAS Biological Control Brain Bowl. It features a central graphic of a fly over a bowl of cereal, with the text 'The Biological Control Brain Bowl is intended to inform the public that biological control is often the most efficient method for managing invasive plants and insects.' Below this, it says 'Students representing Indian River, St. Lucie and Okeechobee counties will participate in the Biological Control Brain Bowl 2005.' The brochure also includes a photo of the UF/IFAS Biological General Research and Containment Laboratory, logos for the Pelican Island Audubon Society and IPM (Integrated Pest Management) Florida, and the slogan 'TRUGREEN ChemLawn Your lawn means more.' at the bottom.



❧ In two years UF IFAS IPM grants have awarded nearly \$200,000 and funded 40 IPM projects across the state of Florida.

❧ Proposal requests range between \$1,000-\$10,000

❧ The average award is \$5,000

*Photos by Eric Zamora & Robyn Koestoyo*

# National IPM Objectives

*Projects must satisfy at least one of the following national IPM objectives:*

1. Safeguard human health and the environment
2. Show benefits achieved through IPM strategies or technologies
3. Disseminate IPM knowledge
4. Enhance stakeholder collaboration.

# People & Communities

## Projects & Partners

- School IPM
- Landscape Maintenance Training
- Residential Termite Monitoring
- Mosquito Abatement
- Florida Yards & Neighborhoods
- Master Gardeners
- IPM Education & Training
- Mole Cricket Biological Control





# The Biological Control Brain Bowl

## 2004-2005 & 2005-2006

William Overholt, Ron Cave,  
Robin Koestoyo, Dan  
Culbert, Ed Skvarch , Ken  
Gioeli, Christine Kelly-  
Begazo & Roxanne  
Rutledge

Photos provided by Robyn  
Koestoyo



# Mosquito Control

M.A.S.H.

**Mosquito Abatement for Safety & Health  
Volunteers Training & Support**

2004-2005

Ralph Mitchell

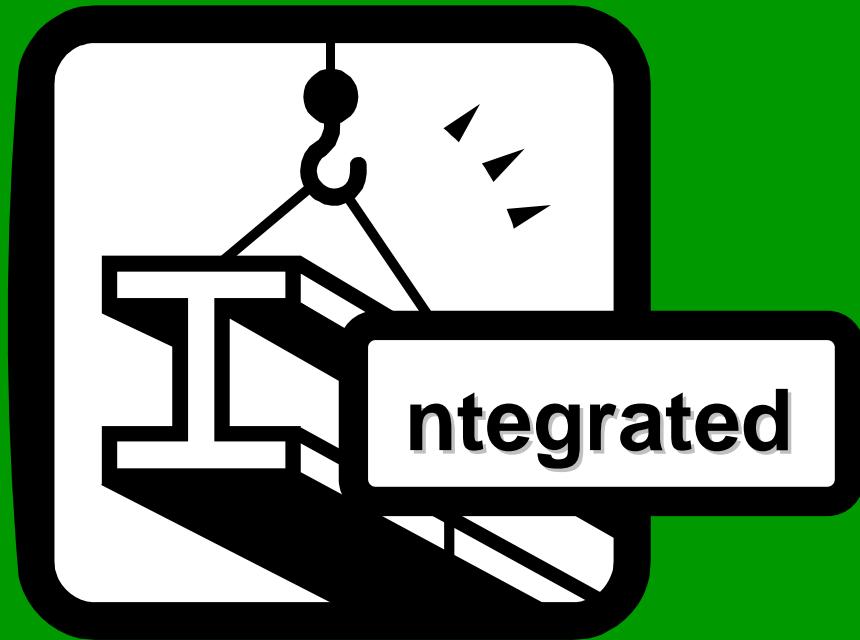
**Chemical Control of Mosquitoes: A Guide to  
Understanding the Safety, Mode of Action,  
and Proper Timing of Application of the  
Products used in Mosquito Control**

2004-2005

Roxanne Rutledge-Connelly

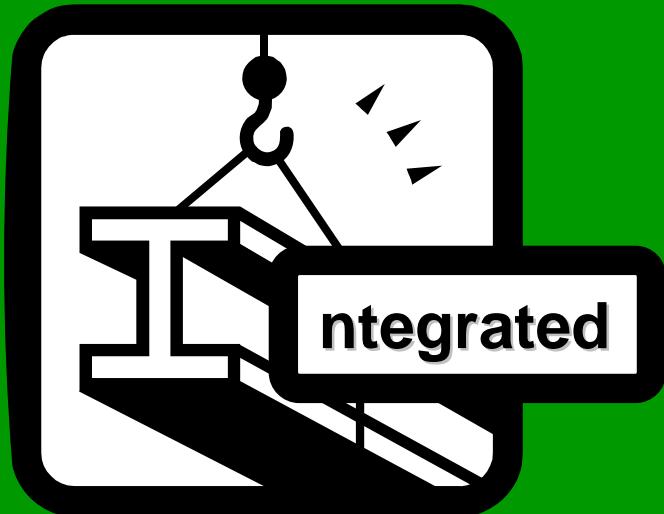
# IPM Florida ... at your service

- ❖ IPM Florida connected agents and researchers together who were working on similar projects for collaboration.
- ❖ IPM Florida staff assisted agents & researchers with proposals and projects.
- ❖ Visit the IPM Florida website for more IPM grant ideas. <http://ifas.ufl.edu>



# IPM & DPM

- *To make whole by bringing all parts together.*



# Doctor of Plant Medicine students are trained to:

- Approach plant health from multiple angles.
- Employ multiple techniques to manage problems.

*To make whole by bringing all parts together. . .*

**DPM professionals are well suited to deliver IPM into the hands of diverse clientele.**

1. Multi-lingual: *Fluency in the language & concepts of multiple disciplines.*
2. Applied Science: *Bringing research into the hands of those that can use it!*

