

# “Giant African Land Snail and Plant Nurseries”

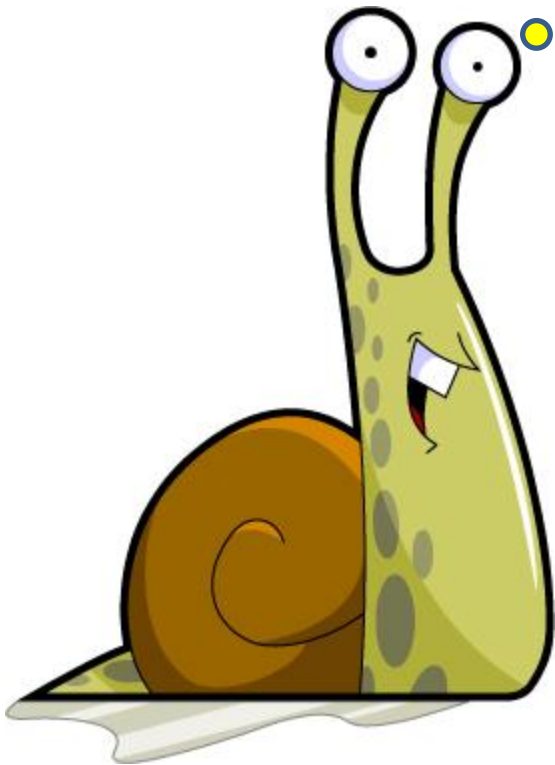


**E. Vanessa Campoverde, Ms.**  
Commercial Ornamental Extension Agent  
UF-Miami Dade County Extension

November 14, 2011

## New Pest in Miami Dade County:





**My next trip  
will be to  
Miami !**



**WHY IS SO IMPORTANT ???**

## Plant Pathogens

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- *Phytophthora palmivora* (in black pepper, betel pepper, coconut, papaya), *P. colocasiae* (in taro) and *P. parasitica* (in eggplant and tangerine)

## Human pathogens

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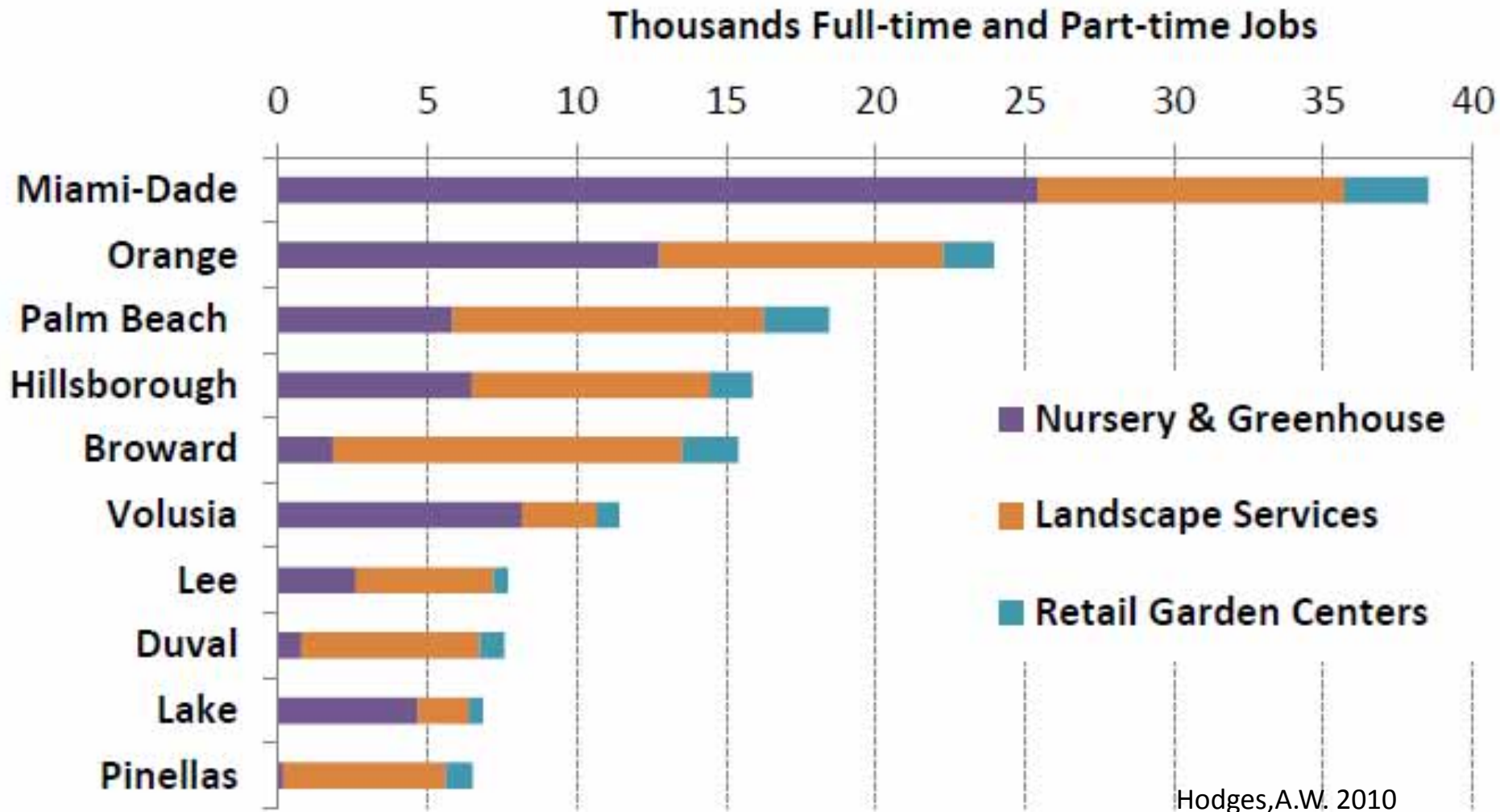
- Vector of nematode causing meningitis

## Native snails

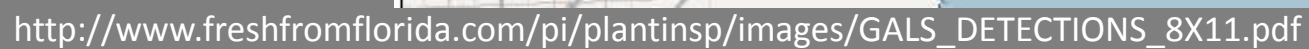
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- Native snail populations are likely to be affected by control efforts aimed at the invasive species

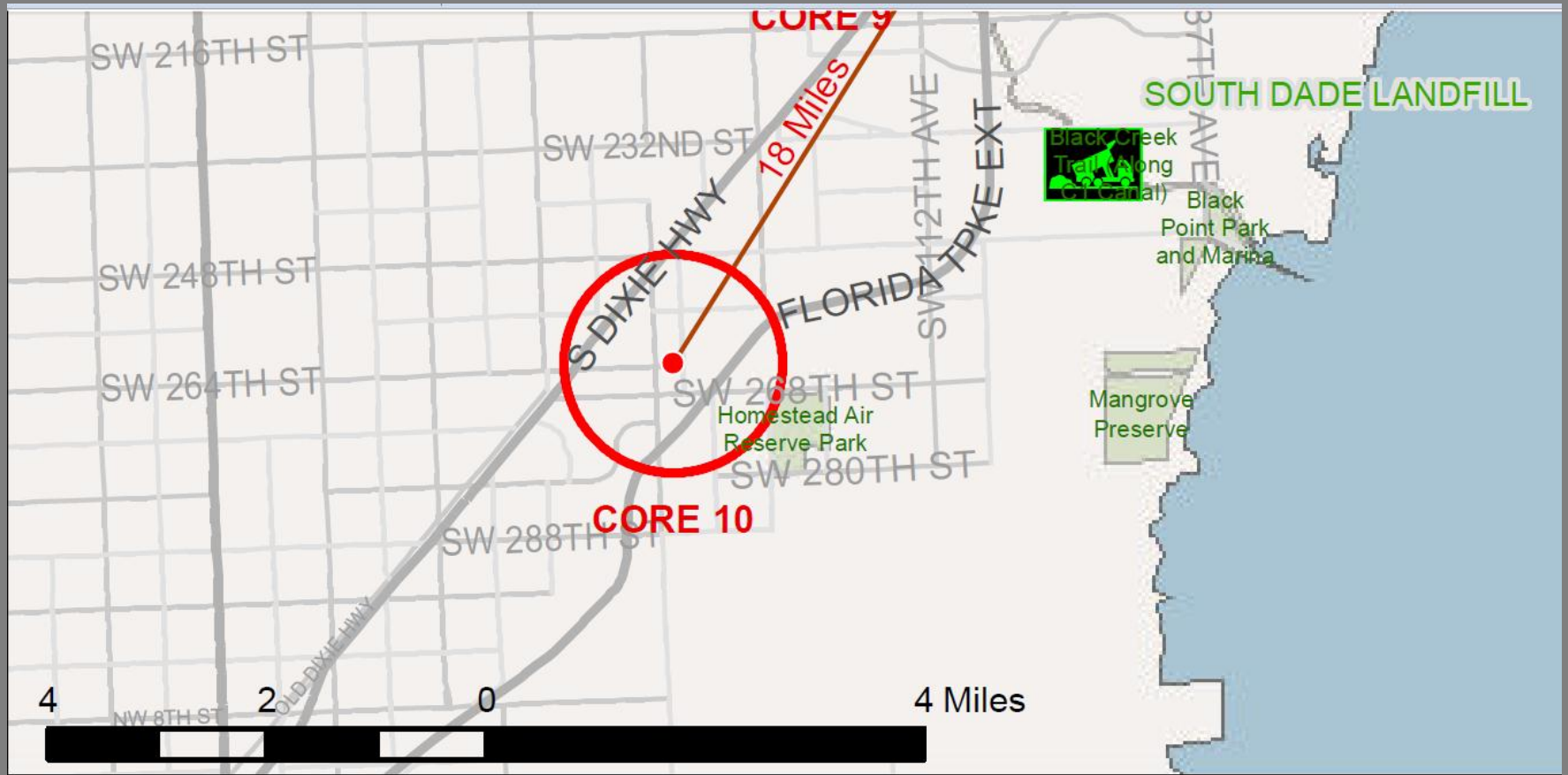
# Employment Impact of Horticulture Industry in counties: 2010









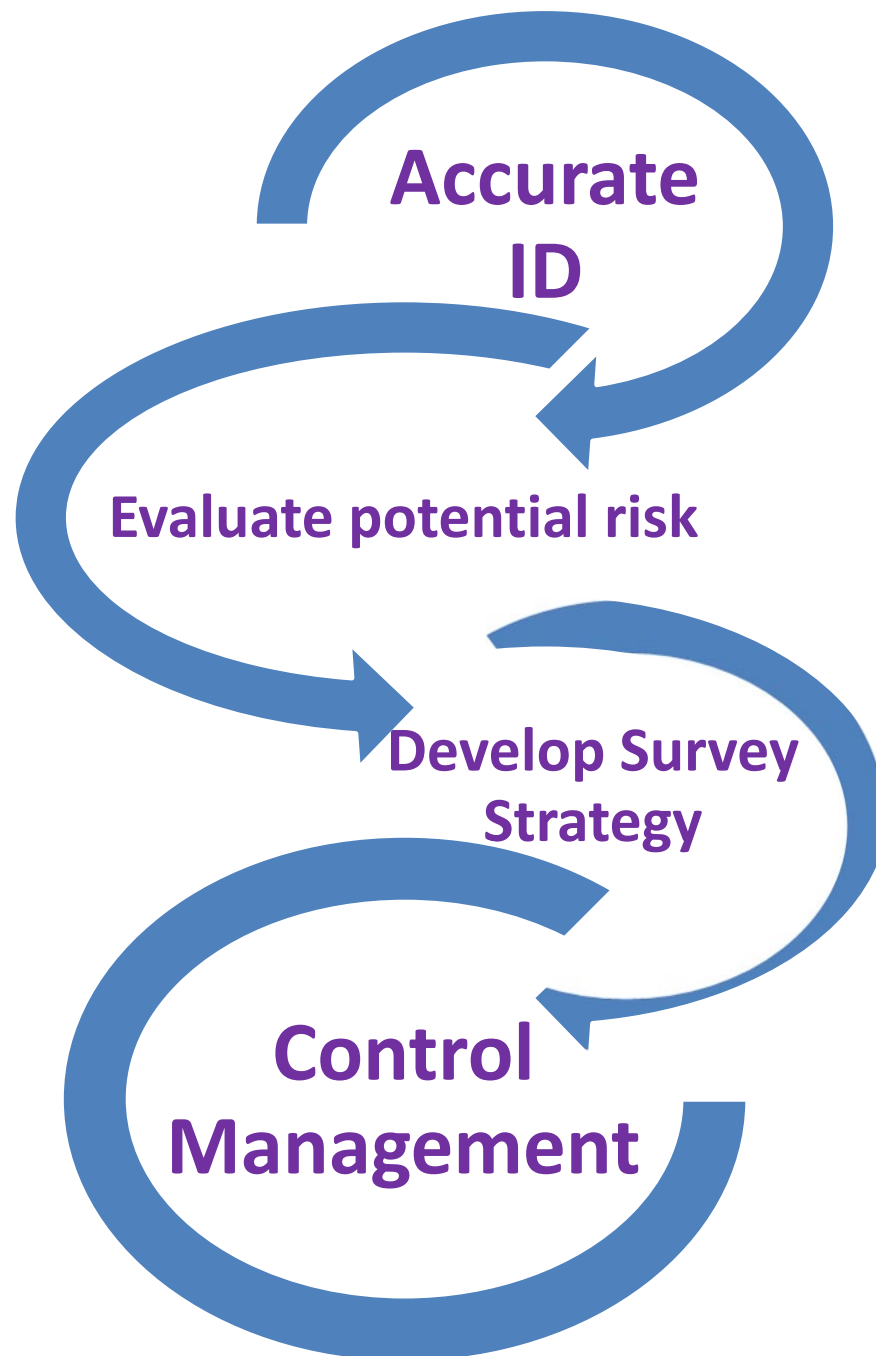


**Giant African Land Snail  
(GALS)  
in Miami Dade  
Nursery  
Industry**

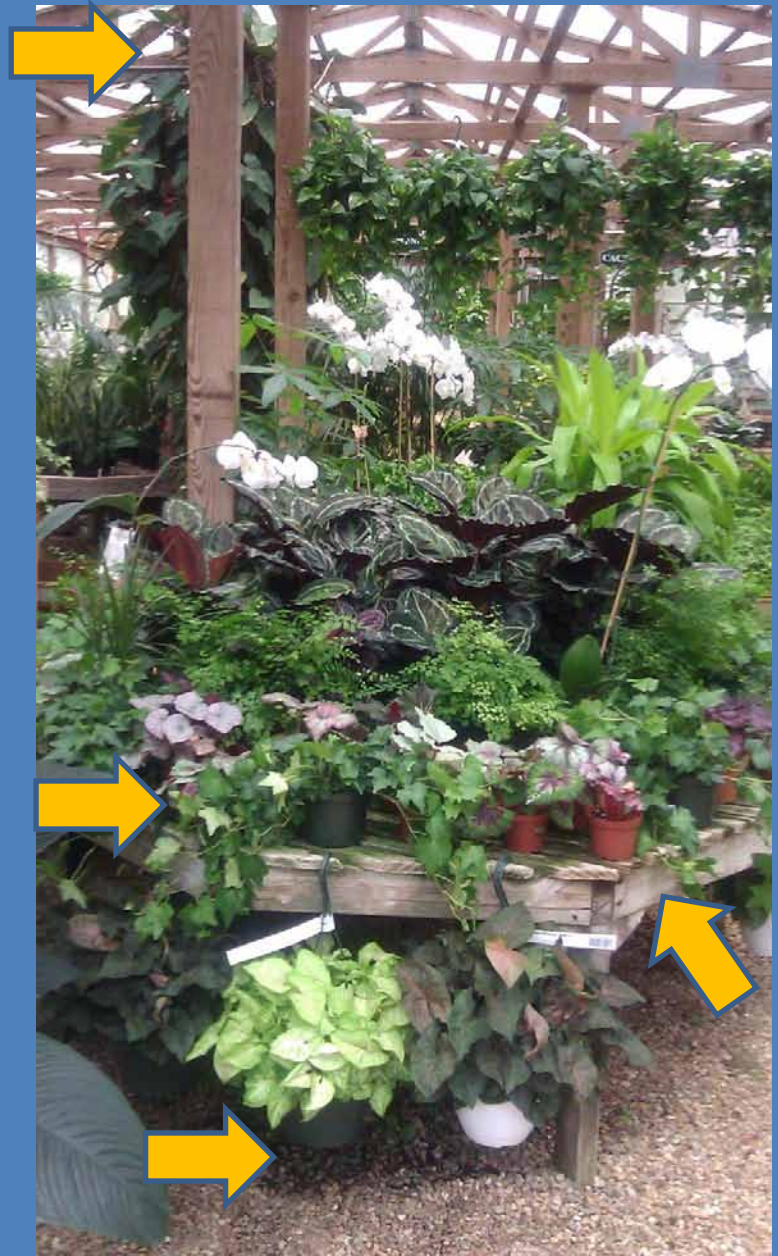


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COUNTY



Let's find the snail !!!





Number of plants in a nursery...



- 
- A background image of a snail on a leaf. Overlaid on this is a flowchart with five boxes. A purple arrow points from the 'Protect yourself' box to the 'Scout and Control' box. A blue arrow points from the 'Scout and Control' box to the 'Remain alert' box. The 'Remain alert' box is a solid blue color, while the others are white with colored borders.
- Gloves
  - Wash

Protect  
yourself

Scout and  
Control

- Timing
- ID

- Disposal
- Follow up

Remain alert



WORKING TOGETHER TO PROTECT FLORIDA'S AGRICULTURE, CONSUMERS AND ENVIRONMENT

# GIANT AFRICAN LAND SNAIL



**Look for it!**  
**Report it!**  
**888-397-1517**

[www.freshfromflorida.com/pi](http://www.freshfromflorida.com/pi)



- Major landscape and agricultural pest that eats over 500 plants species, and even eats the stucco on homes
- Public health threat – known to carry rat lungworm that may cause meningitis in humans
- Able to reproduce rapidly – one snail can live up to 9 years and lay up to 1,200 eggs a year – and has no natural enemies

The public can help the state and federal agriculture eradication effort by voluntarily applying snail baits that can be purchased over the counter at garden centers. For additional information on these products contact the Miami-Dade Extension office at (305) 248-3311, or visit <http://solutionsforyourlife.ifas.ufl.edu>

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**What's new?**

Our cousin was  
on the NEWS!!

**He is  
WANTED!!**



# WANTED

## GIANT AFRICAN SNAIL



**LOOK FOR THEM! REPORT THEM!**

**888-397-1517**

A major landscape and agricultural pest, even eats stucco on homes

Workshop:

***Giant African Land Snail  
(GALS)  
in Miami Dade  
Nursery  
Industry***



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IFAS Extension

**MIAMI-DADE  
COUNTY**

**Monday November 14, 2011**

**2:00 pm to 5:00 pm.**

John D. Campbell Agricultural Center  
18710 SW 288 Street. Homestead, FL

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**MIAMI-DADE  
COUNTY**

# Identification

- Drs. G.B Edwards and Ian Stocks





# GALS Management

- Dr. Catharine Mannion

**T.R.E.C.**  
**Tropical Research & Education Center**

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Florida Extension Plant Diagnostic Clinic

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Nematology, Environmental  
Horticulture, Horticultural  
Sciences, Plant Pathology,  
Soil & Water Science,  
Biofuels

## Catharine Mannion

**Title** - Associate Professor

**Department** - Entomology & Nematology

**Specialty** - Ornamental Plant Entomology

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**E-mail** - [cmannion@ufl.edu](mailto:cmannion@ufl.edu)

**Web site** - <http://trec.ifas.ufl.edu/mannion>



# Agricultural Compliance agreement

- Mr. Matthew Brodie



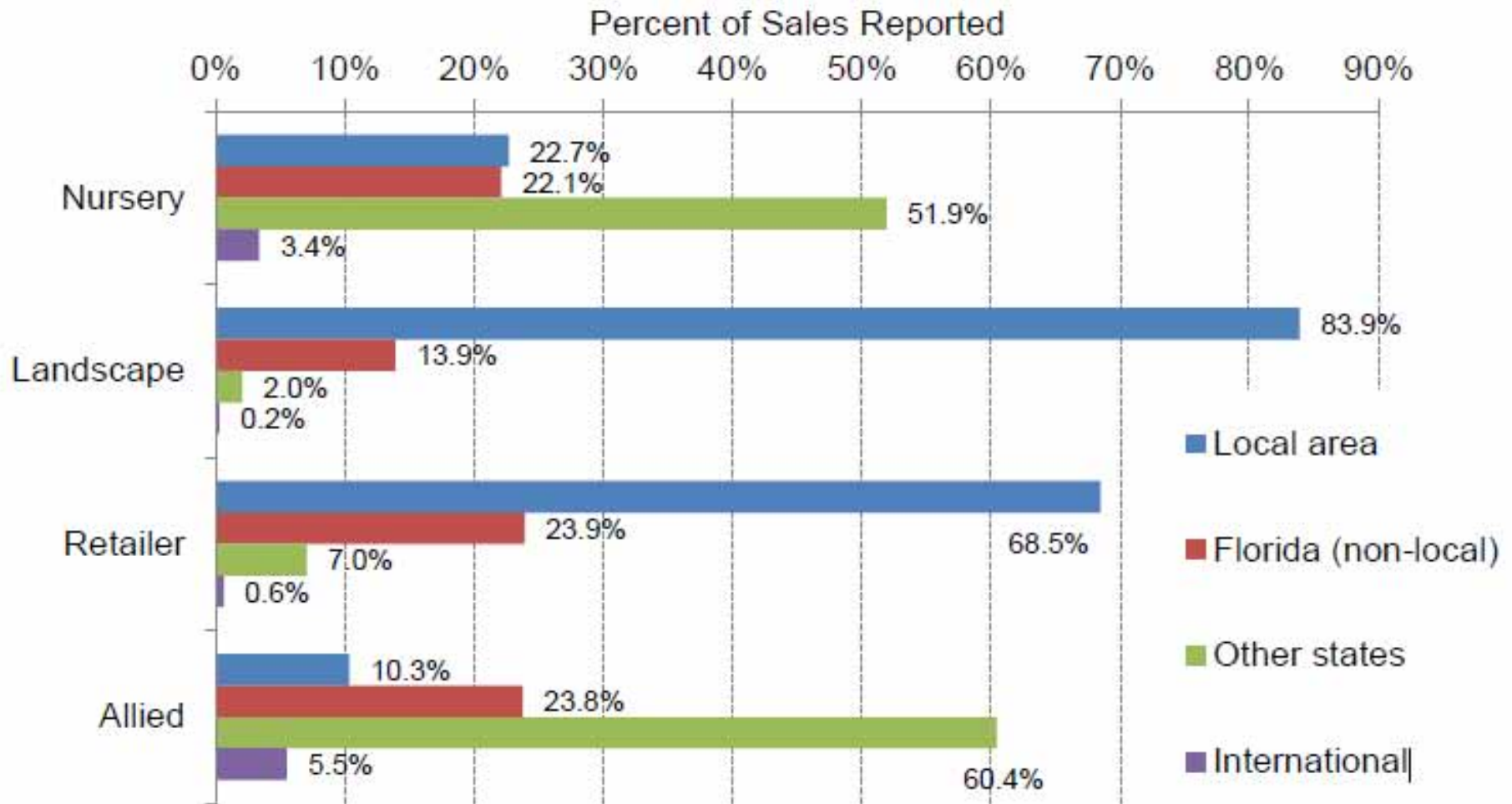


# Current Status in Miami Dade

- Mr. Charles LaPradd



# Distribution of Florida Industry Sales by Market: 2010



1 <http://miami-dade.ifas.ufl.edu/>

Latest Headlines Opening a nursery http://miami-dade.ifa... EDIS - Electronic Data I... UF/IFAS Program Deve... Plant Finder VTS - Virt...

Office...

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for *your* LIFE

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Nursery Production  
Commercial Urban Horticulture  
Pesticide Applicator Training  
Tropical Fruit Production  
Vegetable Production

**Weather Issues**

General Information  
Hurricane Preparedness  
Cold Protection  
UF Weather Stations (FAWN)  
Drought Preparedness  
Extension Weather Stations

**Environment**

Rain Barrels  
Sea Grant  
Irrigation Rebate Program

**Families & Consumers**

Food, Nutrition & Health  
EFNEP (Expanded Food & Nutrition Program)  
Food Safety  
Financial Management & Economic Well-Being  
Hurricane/Disaster Preparation



**Extension Calendar of Events**

Today Monday, April 11

**Tuesday, April 12**

9:00am Crop Insurance for Nurseries

**Wednesday, April 13**

5:30pm Annie's Project

**Sunday, April 17**

12:00pm Rain Barrel & Composting Work

**Wednesday, April 20**

5:30pm Annie's Project

**Thursday, April 28**

9:30am Insect Management for Landscapers

**Para leer en Español**

**Weather Information**

**Extension Weather Network** for real time weather conditions in South Dade

**National Weather Service Graphical Forecast**

**UF Weather Stations (FAWN)** To hear current information from the FAWN weather station in Homestead dial 866-754-5732 (Station ID 440)

**Water Restrictions**

Water Restrictions for, agriculture, nursery, and landscape. [More..](#)

**Did You Know?**

Florida receives an average of 52 inches of rainfall per year.



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[EFNEP \(Expanded Food & Nutrition Program\)](#)  
[Food Safety](#)

**Commercial Ornamentals Program**



The nursery industry in Miami-Dade County is large and diverse. There are more than 1500 nurseries in the county, and they produce everything from bedding plants to tropical foliage to tender perennials. We are the #1 county in Florida for ornamentals production and #2 in the country.

Our plants go to nurseries and garden centers all over the southern and eastern U.S. A surprisingly large number of our palms and other tropicals end up in malls and office buildings all over the U.S., and in Canada and Europe.

Field-grown palm and shade tree production is concentrated on the marl soils in eastern Miami-Dade. Large shrubs are also produced, often inter-planted with palms and trees.

Container-grown palms, trees, shrubs, and tender perennials treated as shrubs are produced in The Redland Agricultural District on rockland, often with tropical fruit and tropical vegetable crops as neighbors.

Walk-in diagnostic and plant identification services are available at

**Para leer en Español**

Select Language

Powered by Google Translate

**Water Restrictions**

Modified Phase I Water Restrictions for nursery and agriculture water user in Place - Effective March 26, 2011

[SFWMD water restrictions for nurseries and agriculture](#)

**Pest Warning**

[Ficus Whitefly Management for Professional Use](#)

[Gumbo Limbo Spiraling Whitefly](#)

**Mealybug Resources**

["The Pink Hibiscus Mealybug" USDA Pest Alert](#)

[A Pink Hibiscus Mealybug Primer... and Update](#)

[Reported Plant Hosts of Pink Hibiscus Mealybug](#)

# Calendar and Registration forms available at:

[http://miami-dade.ifas.ufl.edu/agriculture/commer\\_ornamentals.shtml](http://miami-dade.ifas.ufl.edu/agriculture/commer_ornamentals.shtml)

Date	Class, Location & Time
Monday, November 14th  Register Online  Registration Form	Giant African Land Snail (GALS) and Nursery Industry  Miami-Dade County Extension 18710 SW 288th St. Homestead, FL 33030  2 pm to 5 pm
Tuesday,  November 15th	Green Industry Best Management Practices  Miami-Dade County Extension 18710 SW 288th St. Homestead, FL 33030  8:15 am to 3:15 pm
Tuesday, November 29th  Registration form	Mejores Practicas para la Proteccion de Recursos Hidrico en Florida  Miami-Dade County Extension 18710 SW 288th St. Homestead, FL 33030  8:15 am to 3:15 pm



# ARE THEY CLASSES RELATED TO NURSERIES??


<http://mdextension.blogspot.com/>


<http://mdextension.blogspot.com/>

<http://mdextension.blogspot.com/>



# Acknowledgment



Florida Department of Agriculture & Consumer Services  
**Division of Plant Industry** 

Adam H. Putnam, Commissioner - Richard D. Gaskalla, Director

**Giant African Land Snail**  
*Achatina fulica, Achatina achatina, Archachatina marginata, Limicolaria aurora*

Scientists consider the giant African land snail to be one of the most damaging snails in the world because it is known to consume at least 500 different types of plants, and can pose a serious health risk to humans. These snails could be devastating to Florida agriculture and natural areas because they cause extensive damage to tropical and subtropical environments. GALS are illegal to import into the US without a permit. If you have seen one of these snails please contact the DPI helpline 888-397-1517.

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Lodyga, Lou; Fagan, Mark; Abbie Fox; Greg Hodges; Richard Miranda; Skelley, Paul; Serena Stornaiuolo.

# Acknowledgment



Dr. John Capinera

# Acknowledgment



Lyn Cacella-DuBois

# Literature

- Capinera , John L. 2011. **Giant African Land Snail in Florida..** EDIS. University of Florida. ENY-512. Gainesville: University of Florida Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/in904>
- Florida Department of Agriculture & Consumer Services' Division of Plant Industry. Helpline Phone: (888) 397-1517. [www.freshfromflorida.com/pi](http://www.freshfromflorida.com/pi)
- Mannion, Catharine. 2011. **Snail Management in the Nursery with an Emphasis on Giant African Land Snail.** In revision.
- Raut, S.K. & G.M. Barker. 2002. *Achatina fulica* Bowdich and Other Achatinidae as Pests in Tropical Agriculture. In: Barker (Ed.) Mollusks as Crop Pests. CABI