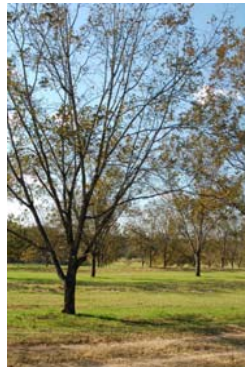




# Introducing Florida's Plant Industry

## Training Guide





# Introducing Florida's Plant Industry

## Training Guide

**Prepared in 2007 by:**

**Rick Sapp, PhD**

Florida Department of Agriculture and Consumer Services

Florida SART Technical Writer

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Published June 2007

SART Training Media are available for download from the Florida SART Web site  
<[www.flkart.org](http://www.flkart.org)>.

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<b>Training Slides</b>	<b>Appendix A</b>

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## About Florida SART

- SART is a multi-agency coordination group.
- SART is made up of over 25 partner agencies (state, federal and non-governmental organizations).
- SART provides preparedness and response resources for Emergency Support Function 17 [(ESF 17) Animal and Agricultural Issues].
- SART statutory authority
  - State Emergency Management Act (Section 252.3569, Florida Statutes)

### SART Mission

Empower Floridians through training and resource coordination to enhance all-hazard disaster planning and response for animal and agricultural issues.

### SART Goals

- Support the county, regional and state emergency management efforts and incident management teams.
- Identify county resources available for animal and/or agricultural issues.
- Promote the cooperation and exchange of information of interested state, county and civic agencies.

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## Specific Learning Objectives

At the end of this training module, participants will be able to:

- Name the leading sectors of Florida's plant industry
- Identify areas of the state in which each plant industry is concentrated
- Discuss some of the characteristics of Florida's plant industry
- Describe some of the threats to the plant sector of Florida's agricultural economy
- Identify key resources available for more information

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## Resources

The following are sources of additional information about the subjects mentioned in this introduction.

**United States Department of Agriculture (USDA)**

[www.usda.gov](http://www.usda.gov)

**National Agricultural Statistics Service**

[www.nass.usda.gov/](http://www.nass.usda.gov/)

**Animal and Plant Health Inspection Service, National Center for Import and Export**

[www.aphis.usda.gov/vs/ncie/](http://www.aphis.usda.gov/vs/ncie/)

**Southern Region Center for Integrated Pest Management**

[www.srpmc.org](http://www.srpmc.org)

**United States Department of Health and Human Services, Centers for Disease Control and Prevention**

[www.cdc.gov](http://www.cdc.gov)

**Extension Disaster Education Network**

[www.eden.lsu.edu](http://www.eden.lsu.edu)

**National Plant Diagnostic Network:**

**National** [www.npdn.org](http://www.npdn.org)

**Southern** <http://spdn.ifas.ufl.edu/>

**Southern Regional Laboratory** <http://plantpath.ifas.ufl.edu/pdc/>

**Florida** <http://fpdn.ifas.ufl.edu/>

**Florida Department of Agriculture and Consumer Services (FDACS)**

<https://www.freshfromflorida.com/>

**Division of Marketing and Development**

<https://www.freshfromflorida.com/Divisions-Offices/Marketing-and-Development>

**Division of Plant Industry**

<https://www.freshfromflorida.com/Divisions-Offices/Plant-Industry>

**Florida State Agricultural Response Team**

[www.flsart.com](http://www.flsart.com)

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## Resources, continued

**Florida Fish & Wildlife Conservation Commission**

<http://myfwc.com>

**University of Florida, IFAS Extension Service**

<https://sfyl.ifas.ufl.edu/>

**Nematode Assay Laboratory**

<http://nematology.ifas.ufl.edu/assaylab/>

**Insect Identification Laboratory**

<http://entnemdept.ufl.edu/insectid/>

**Integrated Pest Management**

<http://ipm.ifas.ufl.edu/>

**University of Florida, Florida Extension Plant Diagnostic Clinic**

<https://plantpath.ifas.ufl.edu/extension/plant-diagnostic-center/>

**Florida Exotic Pest Plant Council**

[www.fleppc.org](http://www.fleppc.org)

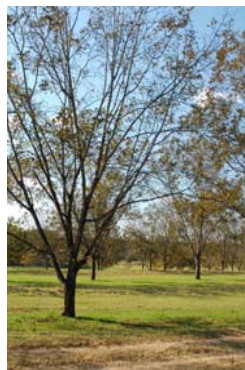
**Florida Agricultural Census Data**

[www.hort.purdue.edu/newcrop/cropmap/florida/default.html](http://www.hort.purdue.edu/newcrop/cropmap/florida/default.html)



# Introducing Florida's Plant Industry

## Appendix A - Training Slides







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**Introducing  
Florida's Plant Industry**

Prepared by  
Rick Sapp, PhD  
Florida Department of Agriculture and Consumer Services  
Florida SART Technical Writer

 State Agricultural Response Team

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## Acknowledgements

- University of Florida, Institute of Food & Agricultural Sciences (IFAS)
- Florida Fruit & Vegetable Assn.
- Florida Fish & Wildlife Conservation Commission
- US Dept. of Interior, US Geological Survey
- US Dept. of Agriculture
- University Credits: California, N.C. State, Washington



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## Learning Objectives

At the end of this training module, participants will be able to:

1. Name the leading sectors of Florida's plant industry
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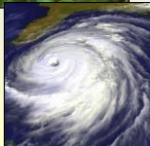
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## Florida SART

- Multi-agency coordination
  - Governmental and private
  - All-hazard preparation, response and recovery
  - Animal and agricultural



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## Introducing Florida



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## Introducing Florida The "Sunshine State"

- Florida settled for 12,000 years before Columbus
- In 1513, the Spanish began exploring the state
- Today, Florida is known for its spaceport, for popular world-class attractions, for hundreds of miles of beaches, for fishing and the heart of America's citrus industry ... but there is so much more!



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## Introducing Florida Fast Facts

- Florida: Fast Facts
  - 53,000 square miles (2% of US total)
  - 17.8 million people (6% of US total)
  - 296 persons/square mile in Florida (versus 80 persons/square mile in US as a whole)
  - 43,000 farms (2% of US total 2.133 million farms)
  - \$6.45 billion agricultural products income (3% of US total of \$192.8 billion) plus another \$8.5 billion from the timber industry



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## It's About People

1 ¼ million Floridians of many backgrounds and speaking several languages, with English as the base, make a living from the plant industry, but all draw sustenance from it!



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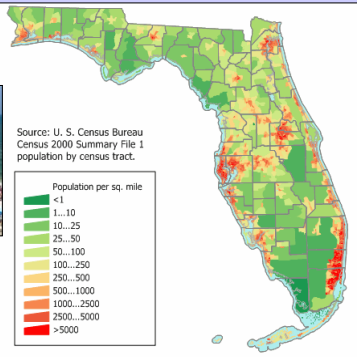
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## The People of Florida

### A crowd at Perdido Key



Florida's is primarily white with 3 million blacks, 3 million Latinos, 300,000 Asians and 60,000 Native Americans.



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## Florida Ecoregions

### Zone 65: Southeastern Plain

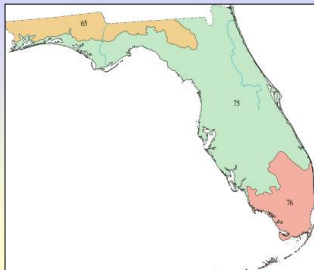
A mosaic of cropland, pasture, woodland and forest.

### Zone 75: Southeastern Coastal Plain

Flat plains with numerous swamps and lakes. Warmer with longer growing season and coarser soils.

### Zone 76: Southern Florida Coastal Plain

Sub-tropical flat plains with wet soils, swamps, everglades and palmetto prairie vegetation.



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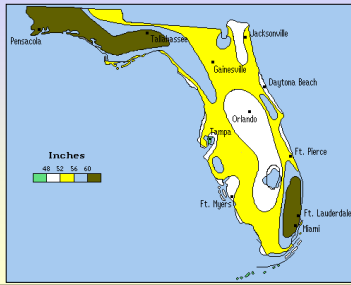
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## Florida Average Annual Rainfall

There are two general "wet periods" in Florida, late winter-early spring and summer. There is only one low point, the October/November period.



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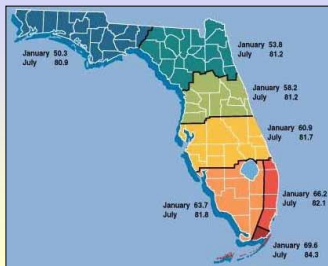
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## Florida Average Temperatures

A particular day's weather cannot be predicted with certainty, but climate trends affect growing seasons, plant health and viability and practical agricultural decision-making.



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## Number of Farms and Acreage

- 43,000 commercial farms (10.1 million of Florida's 35 million acres)



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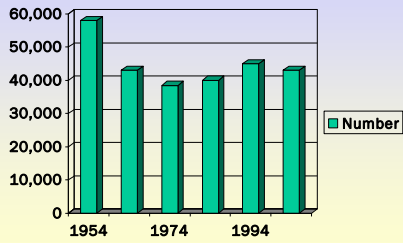
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### Farm Trends (Total Number of Farms)




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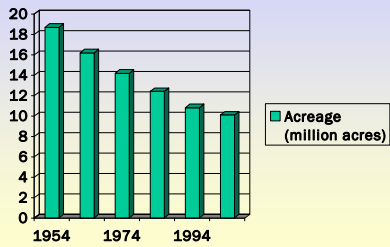
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### Farm Trends (Total Acreage of Farms)




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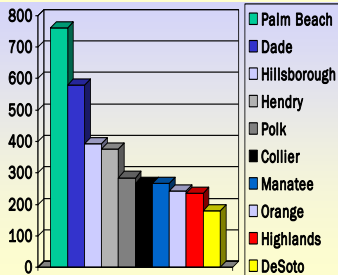
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### Total Agricultural Production Top 10 Counties




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## Florida's Troubling Trends

- Rapidly increasing and "graying" population plus assimilating people of many cultures and several languages
- Increasing urbanization in areas that formerly supported agriculture
- Future fresh water requirements for an expanding population and for industry
- Decreasing number of farms ... and farmers



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## Florida's #1 Timber/Forestry

- Forestry: renewable resources valued at \$8.5 billion
- 12 million acres - 1/3 of the state is commercial forest
- 2.5 million acres classified as general woodlands



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## Timber/Forestry



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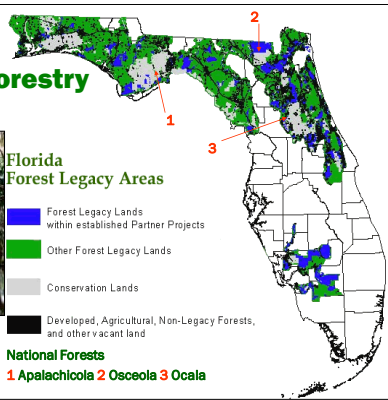
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## Timber/Forestry



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## Timber/Forestry Concerns

Florida loses 1,200 acres of land per week to construction for urban and suburban sprawl.



Pollution from pulp and paper mills highlights the strain between jobs and a clean, livable environment.



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## Florida's #2 Greenhouse/Nursery

- Florida is second in the United States with greenhouse and nursery business estimated at \$1.6 billion from 7,722 nurseries which employ 55,000 people.



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## Greenhouse/Nursery

- Florida is second in the United States in floriculture (sales of \$826 million) and foliage plants (sales of \$416 million)



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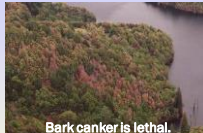
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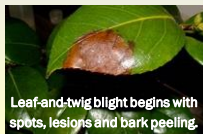
## Greenhouse/Nursery Concerns

### Sudden oak death

- The pathogen, *Phytophthora ramorum*, is a fungus-like organism that probably arrived in the US on rhododendron imported from Asia.
- Infection has 2 syndromes:
  - Bark canker, established on US West Coast, is lethal to some trees. Not yet found in Florida.
  - Leaf-and-twig blight, not always lethal, is detrimental to plant health and has been found in Florida. It is a huge potential problem in nurseries, infecting many species of flowering plants.



Bark canker is lethal.



Leaf-and-twig blight begins with spots, lesions and bark peeling.



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## Florida's #3 Citrus

- Citrus is a \$1 ¼ billion industry in Florida (oranges, grapefruit, tangerines and tangelos)
- About 80% of all US citrus production
- 2<sup>nd</sup> only to Brazil, Florida's 100 million trees on 750,000 acres produce 14% of world's oranges
- Grows about 30% of world's grapefruit



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## Citrus

- 95% of Florida oranges are processed to orange juice. In 2003-04, this amounted to 1.5 billion gallons



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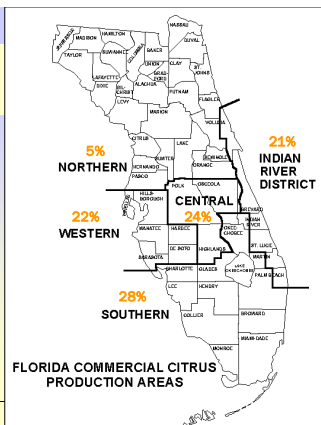
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## Citrus

### Florida Commercial Citrus Production by Area

1. Southern 28%
2. Western 22%
3. Central 24%
4. Indian River 21%
5. Northern 5%



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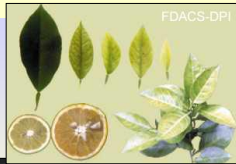
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## Citrus Concerns

### Citrus greening

- (huanglongbing)
- Known in China for 100 years
- In Brazil for 7-8 years; widespread possibly due to propagation sloppiness
- Now documented in Florida
- Begins as leaf mottling and yellowing; progresses to misshapen, mis-colored and bitter fruit
- A very serious threat to Florida citrus industry



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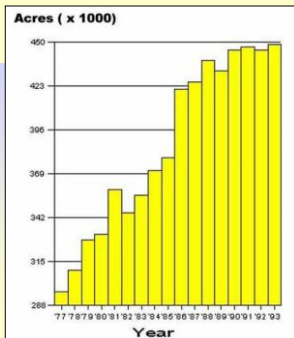
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## Florida's #4 Sugarcane

- Sugarcane is a \$850 million business in Florida
- 420,000 acres are devoted to the growth of sugarcane and the acreage has grown steadily



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## Sugarcane



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## Sugarcane

- 406,000 acres of sugarcane yield 35.2 tons per acre or 14.3 million tons of cane
- 6 sugar mills (5 corporate and 1 grower cooperative) process 20,750 tons of cane/24 hours
- 2 in-state refineries and 4 co-owned out-of-state refineries yield 2 million tons raw sugar/year
- Florida produces half of all US cane sugar and is a net sugar exporter
- \$800 million/year in sales of raw sugar and molasses (\$433 million value of production in 2005, sugar and seed)



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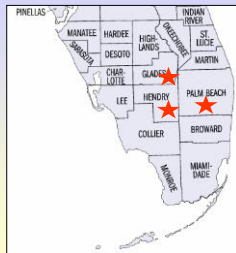
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## Sugarcane

- Sugarcane has specific growth requirements and those are found in three South Florida counties:
  - Palm Beach 310,000 acres
  - Glades 40,000 acres
  - Hendry 35,000 acres



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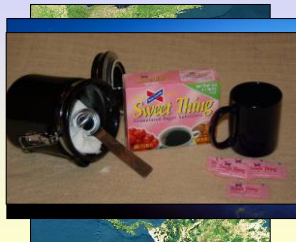
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## Sugarcane Concerns

- Public policy uncertainties at home (possibility of pollution in the Everglades) and abroad (Cuba's political and economic future in international affairs)
- Changing public demand for sweeteners



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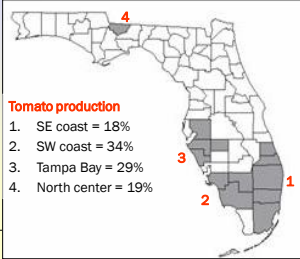
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## Florida's #5 Tomatoes

- Florida is #1 in the US in acreage, production and value of fresh, market tomatoes
- Growing tomatoes adds \$525 million to Florida's economy
- Tomatoes equal
  - 1.5 billion pounds
  - 43,000 acres




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## Tomatoes




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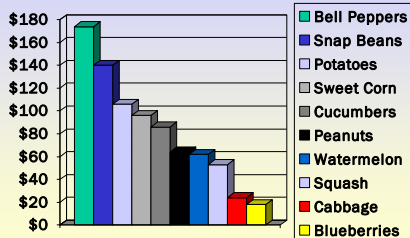
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## Other Field Crops and Vegetables (in millions)




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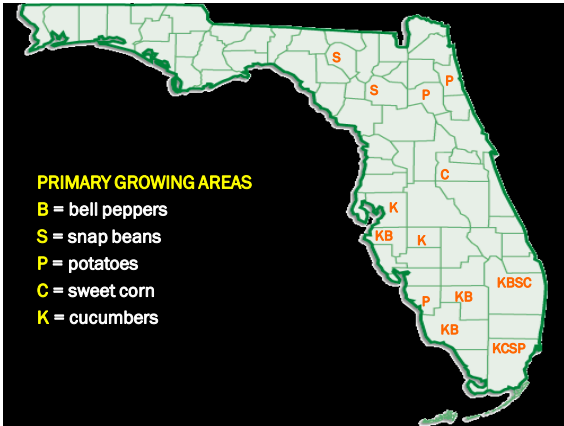
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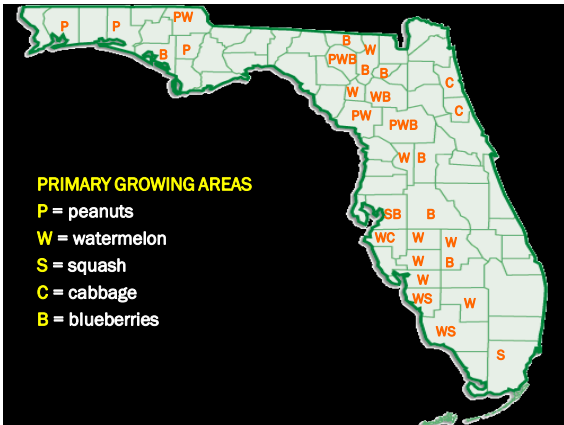
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### Various Field Crop Concerns

- The typical diseases such as various rusts, spots, wilt's and blights
- Introduced exotic diseases and insects for each species such as "soybean rust"



2004's Hurricane Ivan is believed to have blown spores for soybean rust into the US. Today, rust has spread throughout the southeast.

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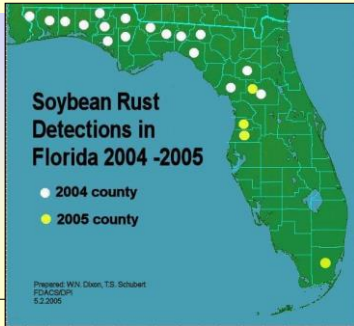
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## Various Field Crop Concerns

Introduced, exotic diseases or insects such as the spoor that causes soybean blight may spread in unusual ways. It is believed that kudzu will be the active agent in the spread of this harmful new (to the US) plant disease, which means that in the south, it is already out of control!



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## A Few of Florida's Specialty Crops

- Ferns/Ornamentals
- Tobacco
- Avocados



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## Specialty Crop: Ferns and Cut Greens

More than 200 commercial producers of ferns and cut greens in Florida. Market value nearly \$90 million. Florida is the largest producer in the U.S.



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## Specialty Crop: Tobacco

- Tobacco \$20 million from 6,881 Florida acres



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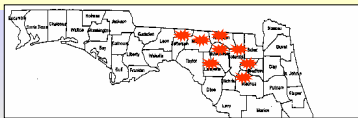
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## Specialty Crop: Tobacco



Florida's tobacco counties - 2004 (acres - poundage)

1. Suwannee (1,000 - 2,510,000)
2. Hamilton (630 - 1,556,000)
3. Alachua (550 - 1,342,000)
4. Madison (490 - 1,161,000)
5. Columbia (380 - 927,000)
6. Lafayette (330 - 835,000)
7. Union (150 - 345,000)
8. Jefferson (100 - 215)



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## Specialty Crop: Avocados

- Florida's sales = \$15 million
- Producing more than 200,000 tons, Florida has about 6% of the world market behind Mexico (33%) and Indonesia (7%). Almost all of Florida's avocados are consumed domestically.



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## Specialty Crop: Avocados

About 6,600 acres in Florida are operated by 737 growers, 99% located in southwest Dade County.



### Nutrition Facts

Serving Size 1/5 medium (30g/1.1 oz)  
Servings Per Container 5

Amount Per Serving

Calories 65

Calories from Fat 45

% Daily Value\*

Total Fat 5g

Saturated Fat 1g

Trans Fat 0g

Polysaturated Fat 1g

Monounsaturated Fat 3g

Cholesterol 0mg

Sodium 0mg

Potassium 170mg

Total Carbohydrate 3g

Dietary Fiber 3g

Sugars 0g

Protein 1g

Vitamin A 0%

Calcium 0%

Vitamin E 4%

Riboflavin 4%

Vitamin B6 4%

Pantothenic Acid 4%

Magnesium 2%

Copper 2%

Vitamin C 4%

Iron 0%

Thiamin 2%

Niacin 4%

Folate 6%

Phosphorus 2%

Zinc 2%

Manganese 2%

\*Percent Daily Values are based on a diet of other people's secrets.

Amount Per Serving

Calories 2,000

Total Fat 80g

Saturated Fat 20g

Cholesterol 300mg

Sodium 1,000mg

Total Carbohydrate 300g

Dietary Fiber 30g

Sugars 30g



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## Key Resources

- Florida Department of Agriculture and Consumer Services, Division of Marketing and Development [www.florida-agriculture.com](http://www.florida-agriculture.com)
- United States Department of Agriculture (USDA) [www.usda.gov](http://www.usda.gov)
- USDA, Animal and Plant Health Inspection Service, National Center for Import and Export [www.aphis.usda.gov/vs/ncie/](http://www.aphis.usda.gov/vs/ncie/)
- USDA, National Agricultural Statistics Service [www.nass.usda.gov/](http://www.nass.usda.gov/)
- Florida Department of Agriculture and Consumer Services (FDACS) [www.doacs.state.fl.us](http://www.doacs.state.fl.us) and [www.florida-agriculture.com](http://www.florida-agriculture.com)
  - Division of Plant Industry [www.doacs.state.fl.us/pi/](http://www.doacs.state.fl.us/pi/) and <http://www.doacs.state.fl.us/pi/enpp/bur-enpp.html/>
  - Florida State Agricultural Response Team [www.flsart.com](http://www.flsart.com)
- Southern Region Center for Integrated Pest Management [www.srpmc.org](http://www.srpmc.org)
- Extension Disaster Education Network [www.eden.lsu.edu](http://www.eden.lsu.edu)



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## Key Resources

- Centers for Disease Control and Prevention [www.cdc.gov](http://www.cdc.gov)
- National Plant Diagnostic Network
  - National [www.npdn.org](http://www.npdn.org)
  - Southern <http://spdn.ifas.ufl.edu/>
  - Southern Regional Laboratory <http://plantpath.ifas.ufl.edu/pdc/>
  - Florida <http://fpdn.ifas.ufl.edu/>
- University of Florida
  - IFAS Extension Service <http://solutionsforyourlife.ufl.edu/>
  - Nematode Assay Laboratory <http://edis.ifas.ufl.edu/scripts/SR011>
  - Insect Identification Laboratory <http://edis.ifas.ufl.edu/SR010>
  - Integrated Pest Management <http://ipm.ifas.ufl.edu/applying/pest-id/weeds/index.htm>



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## Key Resources

- Florida Extension Plant Diagnostic Clinic, UF
  - Quincy <http://tmomol.ifas.ufl.edu/pdc.htm>
  - Immokalee <http://www.imok.ufl.edu/plant/clinic/>
  - Homestead <http://treclinic.ifas.ufl.edu/submissions.htm>
- Florida Exotic Pest Plant Council [www.fleppc.org](http://www.fleppc.org)
- Florida Fish & Wildlife Conservation Commission <http://myfwc.com>
- Florida Agricultural Census Data [www.hort.purdue.edu/newcrop/cropmap/florida/default.html](http://www.hort.purdue.edu/newcrop/cropmap/florida/default.html)



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## Learning Objective

### Introducing Florida's Plant Industry

By this time, participants should be able to:

1. Name the leading sectors of Florida's plant industry
2. Identify areas of the state in which each plant industry is concentrated
3. Discuss some of the characteristics of Florida's plant industry
4. Describe some of the threats to the plant sector of Florida's agricultural economy
5. Identify key resources available for more information



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## Working Together To Protect Florida's Agriculture & Way of Life



Thank You!



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## Now, Test Your Knowledge and Awareness (1 of 3)

1. What sector of the agricultural plant industry, earns the most money for Florida?
2. Can you name the top five plant industry sectors in Florida?
3. (True/False) SART is a government "response team" of special agents prepared to counter any act of terrorism within the state.
4. Florida's top two international customers are \_\_\_\_\_?
5. Which of the following two statements is true?
  - A. The number of farms in Florida is continually shrinking.
  - B. The acreage in Florida farms has shrunk continually for years.
6. The Florida county that produces the greatest bounty in plant agricultural products (as measured in dollars) is \_\_\_\_\_?



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## Pre/Post Test (2 of 3)

7. (select the best answer) The greatest threat to Florida's agricultural sector may be:
  - A. increasing urbanization which ceaselessly encroaches on land for farms, fields and pastures
  - B. introduced exotic non-native diseases such as citrus greening or soybean rust
  - C. either A or B (or both) would be excellent answers.
8. Which is the closest approximation to the number of people who "make a living" from agriculture in Florida?
  - A. less than 50,000
  - B. about one million
  - C. 7,155,248
9. Approximately what fraction of Florida is currently covered by managed timber and forest?



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## Pre/Post Test (3 of 3)

10. (True/False) Under "global warming" conditions for the foreseeable future, it is anticipated that citrus will once again be grown as far north as the Suwannee River. Agronomists and county extension offices are quietly purchasing land ahead of and preparing for this expansion.

Bonus: Your instructor will now hand out the final question(s), an agricultural crossword, which you may attempt for "bonus credit!"



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### Test Answer Key (1 of 3)

1. Timber and forestry bring more dollars into Florida than any other individual plant-ag sector.
2. The top three plant agricultural sectors in Florida's economy are timber/forestry, nursery/greenhouse and citrus.
3. (False) SART is a multi-agency coordination group consisting of governmental and private entities dedicated to all-hazard disaster preparedness, planning, response and recovery for the animal and agriculture sectors in Florida.
4. Canada and Japan



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### Test Answer Key (2 of 3)

5. The acreage in Florida farms has continued to shrink since the end of the Second World War while the number of farms has remained relatively constant.
6. Palm Beach grows more agricultural products than any other Florida county.
7. Both A (urbanization) and B (exotic diseases and pests) pose very real threats to Florida agriculture.
8. It is estimated that as many as 1.25 of Florida's 17.8 million full and part time residents make a living in the plant agriculture sector.



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### Test Answer Key (3 of 3)

9. Approximately 1/3 of the Sunshine State is covered by natural (although not first growth) forest or managed timber for a continuing "renewable resource."
10. Wow ... False! No one has been able to predict reliably any effects of "global warming" on the state of Florida except a slow rise in the ocean level which may inundate low-lying properties.

Bonus: The answers to our "Florida Ag Fun" Bonus Crossword are:

**DOWN**

- 1 POTATO
- 2 MELONS
- 3 TOBACCO
- 4 OLIVES

**ACROSS**

- 5 TOMATO
- 6 AVOCADO
- 7 CITRUS



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## Glossary

- Horticulture: The science and art of growing fruit, flowers, ornamental plants and vegetables. Often used to refer to small gardens.
- Nematode: Any of several worms of the phylum *Nematoda*, having unsegmented, cylindrical bodies, often narrowing at each end, and including parasitic forms such as the hookworm and pinworm. Also called *roundworm*.
- SART: The Florida State Agricultural Response Team. A multi-agency coordinating group consisting of governmental and private entities dedicated to all-hazard disaster preparedness, planning, response and recovery for the animal and agriculture sectors in Florida.
- Weed: Generic term for a plant that is growing where it is not wanted.



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## Reporting Plant and Insect Diseases Cases



Protect Florida Agriculture.  
Report suspicious animal disease cases to the Office of the State Veterinarian.  
All calls are confidential and toll free.  
Daytime (8 am – 5 pm) 1-877-815-0034  
(1-850-410-0900)  
Office of Bio & Food Security Preparedness  
1-850-410-6757  
Agriculture Law Enforcement (24/7)  
1-800-342-5869  
SPDN Hub Laboratory (Gainesville)  
1-352-392-1795



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## Introducing Florida's Plant Industry

This concludes our presentation  
“Introducing Florida’s Plant Industry.”  
Thank you for attending and participating.



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