

BUREAU OF PLANT & APIARY INSPECTION

Tyson R. Emery | Bureau Chief



ANNUAL REPORT DIVISION OF PLANT INDUSTRY

Dr. Trevor Smith, Director

JULY 1, 2018 - JUNE 30, 2019



FLORIDA DEPARTMENT OF AGRICULTURE
DIVISION OF PLANT INDUSTRY
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Florida Department of Agriculture and Consumer Services
Nikki Fried, Commissioner

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PERSONNEL

Tyson Emery — Bureau Chief — Gainesville

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Connie Lindsay — Fiscal Assistant — Gainesville

Sara White — Senior Clerk — Inverness

Debra Roush — Staff Assistant — Palmetto

Joey Hawk — Environmental Specialist III — Palmetto

REGION I

Christine Zamora

Environmental Supervisor II

Gainesville

Lucy Furnas

Administrative Secretary

Gainesville

REGION 1 AREA 1

Kelly Douglas

Environmental Supervisor I

Gainesville

Michael McMahan

Environmental Specialist I

Milton

Michael Bentley

Environmental Specialist I

Monticello

Janie Echols

Environmental Specialist I

Glen St. Mary

Tavia Gordon

Environmental Specialist I

Ocala

Sam Hart

Environmental Specialist I

Gainesville

Larry W. Smith

Environmental Specialist I

Panama City

Brian Alford

Environmental Specialist I

Gainesville

REGION 1 AREA 2

Anna J. Gourlay

Environmental Supervisor I

Tavares

Stephen Jenner

Environmental Specialist I

Inverness

Abby Bartlett

Environmental Specialist I

Tavares

Harry Morrison

Environmental Specialist I

Tavares

Mary Sellers

Environmental Specialist I

Tavares

Charlie Spriggs

Environmental Specialist I

Tavares

Nora Marquez	Agricultural Technician II	Tavares
Jessica Begley	Agricultural Technician II	Tavares
Robert Lawton	Agricultural Technician II	Tavares

REGION 1 AREA 3

Tracy Wright	Environmental Supervisor I	Tavares
Kenneth Ellis	Environmental Specialist I	Jacksonville
Lisa Tyler	Environmental Specialist I	Jacksonville
Melanie Cain	Environmental Specialist I	Port Orange
Kevin Loadholtz	Environmental Specialist I	Deland
Karen Coffey	Environmental Specialist I	Port Orange
Daniel McColl	Agricultural Technician II	Tavares

REGION II

Serena Stornaiuolo

Environmental Supervisor II

Apopka

Michaela Salcido

Administrative Secretary

Apopka

REGION 2 AREA 1

Anthony Puppelo

Environmental Supervisor I

Apopka

George A. Warden

Environmental Specialist I

Apopka

Lance A. Brown

Environmental Specialist I

Apopka

Sean McCarthy

Environmental Specialist I

Apopka

Jesse M. Krok

Environmental Specialist I

Apopka

Kathy A. Gonzalez

Environmental Specialist I

Apopka

Katherine Steinkamp

Environmental Specialist I

Apopka

Jillian Boyar

Environmental Specialist I

Apopka

Isaiah Pierson

Agricultural Technician II

Apopka

REGION 2 AREA 2

Daniel Merced

Environmental Supervisor I

Dade City

Gary Webb

Environmental Specialist I

Dade City

Carrie Krappe

Environmental Specialist I

Dade City

Karen R. Destefano

Environmental Specialist I

Dade City

Miray Ibrahim

Environmental Specialist I

Dade City

Albert L. Wright	Environmental Specialist I	Winter Haven
Jacob Bryan	Environmental Specialist I	Winter Haven
Sara Harper	Environmental Specialist I	Winter Haven
Jodi Bixler	Agricultural Technician II	Dade City

REGION 2 AREA 3

Richard A. White	Environmental Supervisor I	Clearwater
Paul Stewart	Environmental Specialist I	Clearwater
Elizabeth Zuniga	Environmental Specialist I	Clearwater
Louis Castillo	Environmental Specialist I	Clearwater
William J. Salway	Environmental Specialist I	Clearwater
Sammy Lee Campbell	Agricultural Technician II	Clearwater
Deborah L. Simmons	Agricultural Technician II	Clearwater
Philayrach Khousakoun	Agricultural Technician II	Clearwater

REGION 2 AREA 4

Carlos Averhoff-Chirino	Environmental Supervisor I	Ft. Pierce
Dawn Cermak	Environmental Specialist I	Cocoa
Laura Ureta	Environmental Specialist I	Cocoa
Alexander Tasi	Environmental Specialist I	Vero Beach
Jeanie P. Frechette	Environmental Specialist I	Ft. Pierce

Brandy Boisvert	Environmental Specialist I	Vero Beach
Scott D. Berryman	Environmental Specialist I	Avon Park
Richard T. Bloom	Environmental Specialist I	Avon Park
Keith Clanton	Environmental Specialist I	Avon Park
Harry Crocker	Environmental Specialist I	Vero Beach
Teresa Ortelli	Agricultural Technician II	Ft. Pierce

REGION 2 AREA 5

Mark A. Spearman	Environmental Supervisor I	Dade City
Lilliam Otero Pujol	Environmental Specialist I	Clearwater
Jason Spiller	Environmental Specialist I	Clearwater
Thomas S. Lastrapes	Environmental Specialist I	Clearwater
Bobbe A. Rose	Environmental Specialist I	Clearwater
Calvin Snyder	Agricultural Technician II	Clearwater

REGION 2 AREA 6

Tracy Howard	Environmental Supervisor I	Palmetto
Eddie Anderson	Environmental Specialist I	Palmetto
Jennifer Serviss	Environmental Specialist I	Palmetto
Susan B. Youngblood	Environmental Specialist I	Palmetto
David St. John	Environmental Specialist I	Palmetto

Mary Williams	Agricultural Technician II	Palmetto
Brandon Bressler	Agricultural Technician II	Palmetto
Patricia A. Bussell	Agricultural Technician II	Palmetto

REGION 2 AREA 7

Howard L. Wallace	Environmental Supervisor I	Tampa
Ricardo Areingdale	Environmental Specialist I	Tampa
William R. Stokes	Environmental Specialist I	Tampa
Jose L Llanos	Environmental Specialist I	Tampa
William A. Counts	Agricultural Technician II	Tampa
Maria Echevarria-Garcia	Agricultural Technician II	Tampa
Charles G. Davis	Agricultural Technician II	Tampa
Jisette Castro	Agricultural Technician II	Tampa

REGION III

Charlie Gonzalez	Environmental Supervisor II	Miami
Elsie Aviles	Administrative Secretary	Miami

REGION 3 AREA 1

Richard Tordi	Environmental Supervisor I	W. Palm Beach
LeAnn M. West	Environmental Specialist I	Ft. Pierce
Jimmy Hernandez	Environmental Specialist I	W. Palm Beach
Matthew Miller	Environmental Specialist I	W. Palm Beach
Bill Churchill	Environmental Specialist I	W. Palm Beach
Eduardo Solis	Environmental Specialist I	Ft. Pierce
James C. Lee	Environmental Specialist I	W. Palm Beach
Eddy Pujols	Environmental Specialist I	W. Palm Beach
Carlene Sargeant	Environmental Specialist I	Delray Beach
Juan Carlos Ochoa	Environmental Specialist I	Delray Beach
Clarence Parkes	Environmental Specialist I	Delray Beach

REGION 3 AREA 2

Ellen Tannehill	Environmental Supervisor I	Delray Beach
Sallie H. Simmons	Environmental Specialist I	Boynton Beach
J. Keith Harris	Environmental Specialist I	Pompano Beach

Shannan T. Webb	Environmental Specialist I	Pompano Beach
Nury M. Marrone	Environmental Specialist I	Davie
Justin Anto	Environmental Specialist I	Davie
Cristina Urbina	Environmental Specialist I	Davie
Kevin Williams	Environmental Specialist I	Davie
Lane M. Smith	Environmental Specialist I	Delray Beach
Frank A. Burgos	Environmental Specialist I	Davie

REGION 3 AREA 3

Vacant	Environmental Supervisor I	Miami Lakes
Rebecca Sanders	Environmental Specialist I	Miami Lakes
Lis Santos-Piloto	Environmental Specialist I	Miami Lakes
Juan Aleman-Martinez	Environmental Specialist I	Miami Lakes
John M. Piontek	Environmental Specialist I	Miami Lakes
Yarosky Castillo	Environmental Specialist I	Miami Lakes
Ramon Reschop	Agricultural Technician II	Miami Lakes
Elena Kej	Agricultural Technician II	Miami Lakes
Julio Rodriguez	Agricultural Technician II	Miami Lakes
Miguel Hernandez	Agricultural Technician II	Miami Lakes

REGION 3 AREA 4

RosaMaria Quinones	Environmental Supervisor I	Coral Gables
Ciro Milian	Environmental Specialist I	Coral Gables
Marieta Figueroa	Environmental Specialist I	Florida City
Juan Menendez	Environmental Specialist I	Miami
Angel Colon-Rivera	Environmental Specialist I	Florida City
Wendy Mazuk	Environmental Specialist I	Coral Gables
Eric Rojas	Environmental Specialist I	Coral Gables
Hanoy Carmenate	Agricultural Technician II	Coral Gables
Rosalba Pina	Agricultural Technician II	Coral Gables

REGION 3 AREA 5

Matthew W. Brodie	Environmental Supervisor I	Naples
Walter W. Golden	Environmental Specialist I	Fort Myers
Mark Terrell	Environmental Specialist I	LaBelle
Scott D. Krueger	Environmental Specialist I	Naples
Richard L. Blaney	Environmental Specialist I	Fort Myers
Roberto Delcid	Environmental Specialist I	LaBelle
Leonora J. Coleman	Environmental Specialist I	Naples
Mary E. Graham	Environmental Specialist I	Naples
C. David Wolf	Environmental Specialist I	Fort Myers

REGION 3 AREA 6

Haydee I. Escobar	Environmental Supervisor I	Coral Gables
Maria C. Acosta	Environmental Specialist I	Coral Gables
Narciso Rodriguez Medina	Environmental Specialist I	Coral Gables
Ana L. Ochoa	Environmental Specialist I	Florida City
Gloria Gonzalez	Agricultural Technician II	Coral Gables
Renan Espino Martinez	Agricultural Technician II	Coral Gables
Nubia Tapias	Agricultural Technician II	Coral Gables

APIARY

Brandi Simmons	Assistant Chief, Apiary Inspection	Gainesville
Jose T. Gill Sanabria	Agriculture & Consumer Protection Supervisor	Gainesville
Jimmy Davis	Agriculture & Consumer Protection Specialist	Milton
Jeff D. Pippin	Agriculture & Consumer Protection Specialist	Bristol
Stephen Cutts	Agriculture & Consumer Protection Specialist	Trenton
Rob F. Horsburgh	Agriculture & Consumer Protection Specialist	Jacksonville
Carmen Fraccica	Agriculture & Consumer Protection Supervisor	Winter Haven
Christopher Alonso	Agriculture & Consumer Protection Specialist	Florida City
Lisa Reynes	Agriculture & Consumer Protection Specialist	Tavares
Glenn Barnett	Agriculture & Consumer Protection Specialist	Winter Haven
Becky Dineen	Agriculture & Consumer Protection Specialist	Clearwater
Fred Howard	Agriculture & Consumer Protection Specialist	Labelle

CARRIBBEAN FRUIT FLY CERTIFICATION

Denise V. Marshall	Environmental Specialist III	Ft. Pierce
Marilyn Quigley	Administrative Secretary	Ft. Pierce
Michael Schlueter	Certification Specialist	Ft. Pierce
Barbara J. Scher	Senior Clerk	Ft. Pierce
Lisa A. Whiteman	Agriculture & Consumer Protection Supervisor	Ft. Pierce
John J. Serra	Agriculture & Consumer Protection Inspector	Ft. Pierce
Patrick Armao	Agriculture & Consumer Protection Inspector	Ft. Pierce
Phillip Matheny	Agriculture & Consumer Protection Inspector	Ft. Pierce
Lisa A. Blakey	Agriculture & Consumer Protection Inspector	Labelle
Pat McGill	Agriculture Technician II	Labelle
Paul A. Sinnott	Agriculture & Consumer Protection Supervisor	Ft. Pierce
William S. Blatch	Agriculture Technician III	Ft. Pierce
Ray D. Jordan	Agriculture Technician III	Ft. Pierce
Steven Rish	Agriculture Technician II	Ft. Pierce

John G. Wiggins	Agriculture & Consumer Protection Supervisor	Vero Beach
Justin Haley	Agriculture & Consumer Protection Inspector	Winter Haven
John E. Quigley	Agriculture & Consumer Protection Inspector	Vero Beach
Johnathan Ball	Agriculture & Consumer Protection Inspector	Vero Beach
Matthew McCloskey	Agriculture Technician III	Vero Beach
Priscilla Montgomery	Agriculture Technician II	Winter Haven
Ashley Pickett	Agriculture Technician II	Vero Beach

GIANT AFRICAN LAND SNAIL PROGRAM

Rusty Noah	Environmental Specialist III	Miami
Sherry Steele	Environmental Specialist I	Miami
Julio Rodriguez	Staff Assistant	Miami
Mary Yong-Cong	Biological Scientist IV	Miami
Mark Anthony McDonald	Agriculture Technician III	Miami
Esteban Godinez	Agriculture Technician II	Miami
Loreнна Dewitz	Agriculture & Consumer Protection Specialist	Miami
Ernesto Alvarado	Agriculture Technician II	Miami
Gustavo Cuevas	Agriculture Technician II	Miami
Alvaro Pertuz	Agriculture Technician II	Miami
Guillermo Alvarado	Agriculture Technician II	Miami
Suhayla Carrasquilla	Agriculture & Consumer Protection Specialist	Miami
Carlos Aguilera	Agriculture Technician II	Miami
Carlos Cambana	Agriculture Technician II	Miami
Edgardo Luiggi	Agriculture Technician II	Miami
Tina Porter	Agriculture Technician II	Miami
David Buzzi	Agriculture Technician II	Miami

Robert Shim	Agriculture Technician II	Miami
Carolina Reece	Agriculture & Consumer Protection Specialist	Miami
Reinaldo Casanas	Agriculture Technician II	Miami
Margarita Diaz	Agriculture Technician II	Miami
David Ortiz	Agriculture Technician III	Miami
Travis Thurmond	Agriculture Technician II	Miami

DETECTOR DOG PROGRAM

Marcus Jones	Environmental Specialist III	Miami
Gregg D. Farina	Environmental Specialist II	Apopka
Karen A. Holton	Environmental Specialist II	Tampa
Alina Lorenzo	Environmental Specialist II	Miami
Michael Golub	Environmental Specialist II	Miami
Denise R. Lamb	Environmental Specialist II	Miami
Nichole Bushue	Environmental Specialist II	Miami

NURSERIES



9,169

INSPECTIONS ON

8,198

NURSERY LOCATIONS



138

HOLD ORDER AND
QUARANTINE NOTICES

FDACS' Environmental Specialists made 9,169 inspections on 8,198 nursery locations during the 2018-19 season. One Hundred thirty-eight (138) Hold Order and Quarantine notices were issued to prevent the sale of infected or prohibited plants. These plants were either treated, destroyed, or released once official verification received.

A Certificate of Registration issued by the Division of Plant Industry; is required by any person selling nursery stock in Florida. Nursery stock is defined as "all plants, trees, shrubs, vines, buds, vegetable and field crop plants, flowering annual plants, aquatic plants, corms, tubers, bulbs, liners, cuttings, grafts, and scions thereof, grown or kept for propagation, sale or distribution; EXCEPT seeds, lawn or pasture grasses, cut flowers, cut ferns, and cut foliage (greens) are specifically exempted from nursery stock classification for registration purposes, when apparently free from injurious plant pests.

STOCK DEALERS

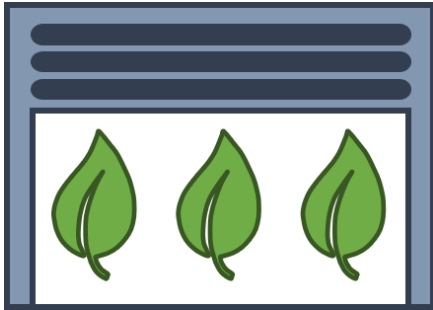


4,818

INSPECTIONS ON

11,009

STOCK DEALER LOCATIONS



FDACS' Environmental Specialists made 4,818 inspections on 11,009 stock dealer locations during the 2018-19 season. Two Hundred four (204) Hold Order and Quarantine notices were issued to prevent the sale of infected or prohibited plants. These plants were either treated, destroyed, or released after being tested in a lab.

An Inspection means; Nursery stock must be inspected by a Plant Protection Specialist of the Division of Plant Industry prior to sale or distribution. (Distribution is defined as the movement of nursery stock from the property where grown or kept to any other property that is not contiguous thereto, regardless of the ownership of the properties concerned.)



204

HOLD ORDER AND
QUARANTINE NOTICES

IMPORT FIRE ANT



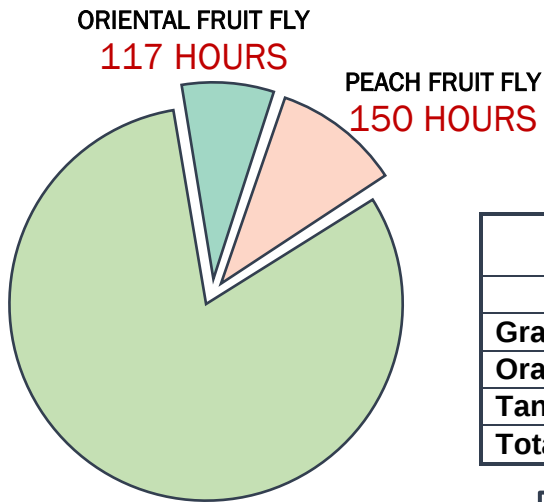
1,302
NURSERY AND
STOCK DEALER LOCATIONS

5,559 HOURS
IFA ACTIVITIES

Since the introduction of the imported fire ant (IFA) in Florida between 1933 and 1945 it has spread to all counties. There are two species of these IFAs found in Florida. The most common is *Solenopsis invicta* Buren, the red imported fire ant (RIFA) and the less common *Solenopsis geminate* (Fabricius); a native fire ant. As of June 30, 2019, there were 1,302 nursery and stock dealer locations under compliance agreement for Imported Fire Ant certification purposes. During this period, plant inspection personnel spent 5,559 hours associated with IFA activities.

CARIBBEAN FRUIT FLY PROTOCOL PROGRAM

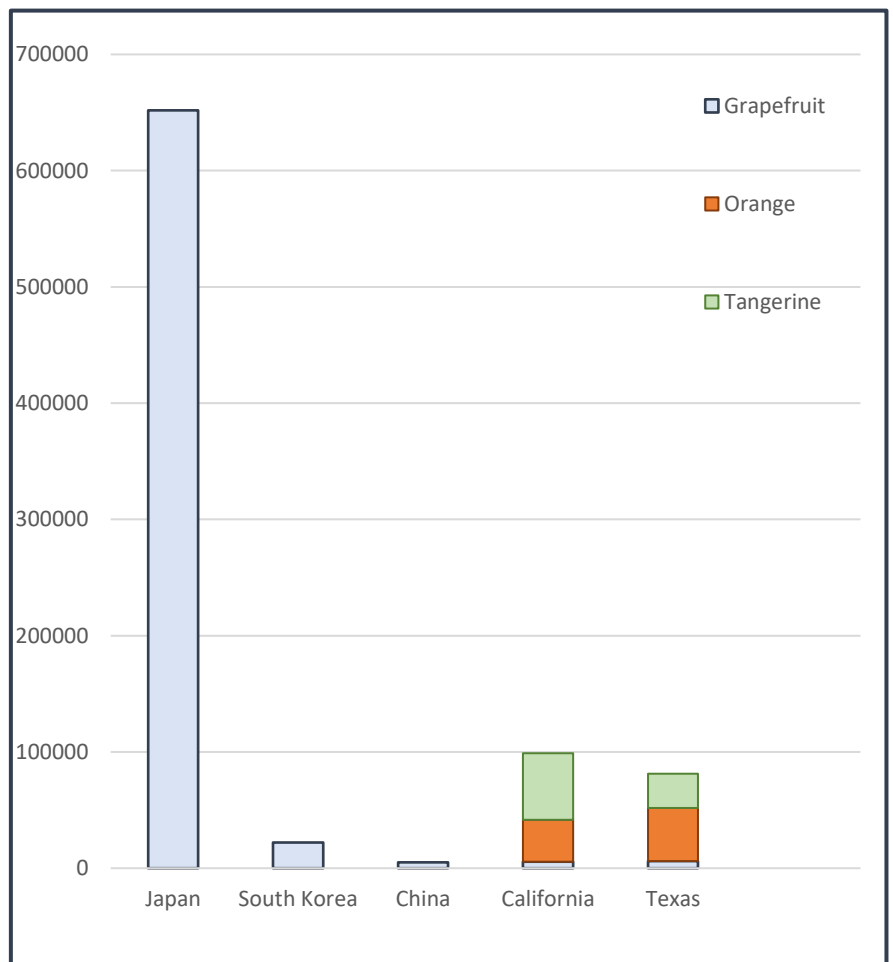
PROTOCOL PROGRAM
39,716 HOURS



Personnel dedicated 39,716 hours to the Protocol Program during the 2018-19 season. Our program completed the job and contributed 117 hours to the Peach Fruit Fly Program and 150 hours to the Oriental Fruit Fly Program.

Total Protocol Citrus Shipped 2018 - 2019					
	Japan	South Korea	China	California	Texas
Grapefruit	651,993	222,076	5,040	5,510	6,069
Orange	0	0	0	36,055	45,630
Tangerine	0	0	0	57,388	29,530
Totals	651,993	222,076	5,040	98,953	81,229

During the 2018-2019 season there were 29,920 acres certified under CFFPP which produced 1,059,291 certified cartons were shipped under the program. A total of 879,109 cartons were exported to Japan, South Korea and China. Domestically 180,182 cartons were shipped to California and Texas.

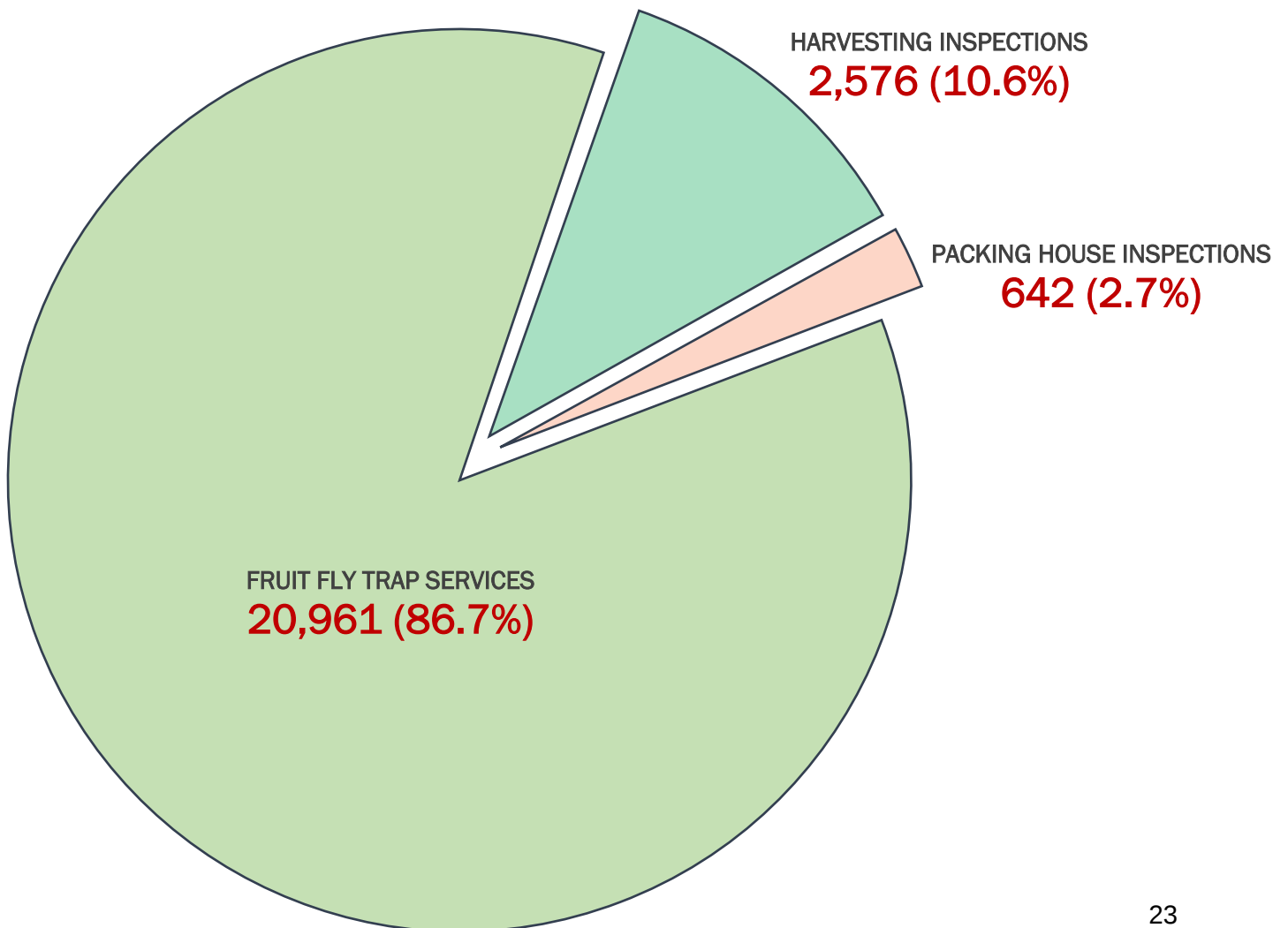


During the Fiscal Year 2018-2019, CFFPP personnel conducted the following number of inspections:

- Fruit Fly trap services: 20,961
- Harvesting inspections: 2,576
- Packing house inspections: 642
- Acreage surveyed for preferred hosts: 203,965

OVERALL INSPECTIONS

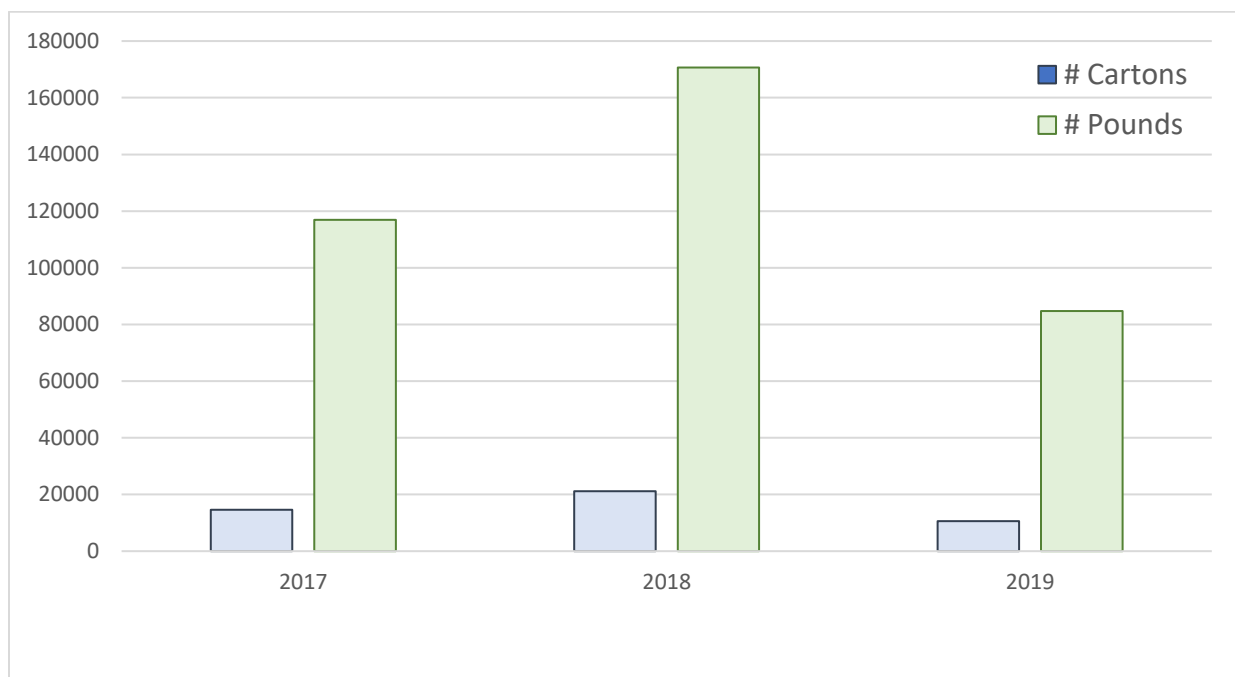
24,179



COMMERCIAL PEACH PRODUCTION

As of June 30, 2019, there were 10,592 cartons of 84,736 pounds of peaches shipped to Texas.

Protocol Peaches Shipped to Texas				Peach Acreage Certified			
	2019	2018	2017		2019	2018	2017
# Cartons	10,592	21,153	14,608	#Acres Actual	455	455	572
# Pounds	84,736	170,660	116,864	Billable Acres	720	720	480

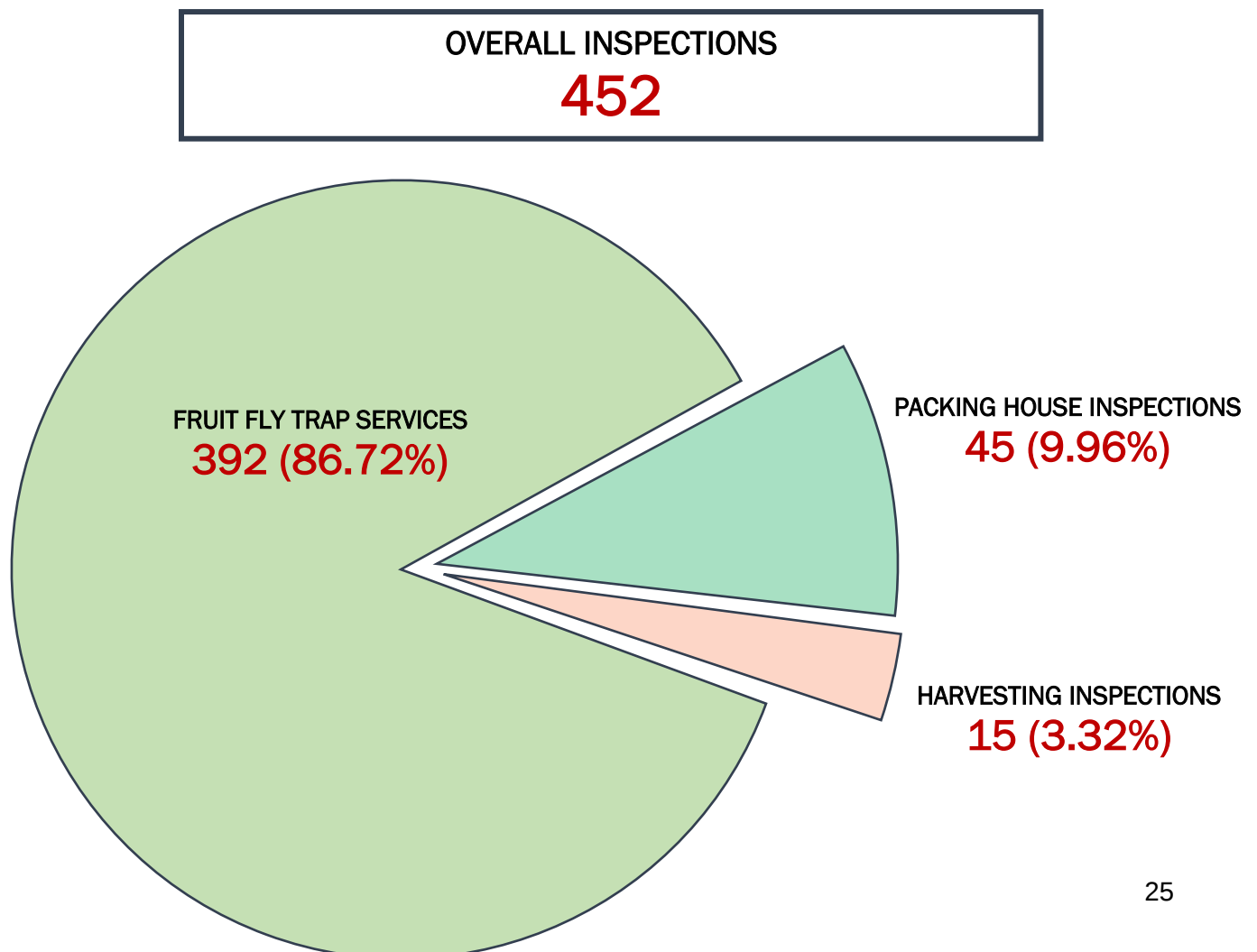


CARAMBOLA

During the 2018-2019 season there were 120 acres certified for Texas and California. There were 1,372 cartons shipped to Texas and 38,743 shipped to California for a total of 40,115 cartons.

During the fiscal year 2018-2019, CFFPP personnel conducted the following number of inspections:

- Fruit fly trap services: 392
- Packing house inspections: 45
- Harvesting inspections: 15
- Acreage surveyed for preferred hosts: 2,320



IMPORT INSPECTIONS

Distribution centers, nurseries importing foreign plant material and post-entry quarantine locations are potential high-risk sites for bringing in exotic insect pests and plant pathogens due to the large volume of plant and plant products imported to these sites. Import inspection activities were conducted at high risk locations throughout the state.

These inspections are instrumental in preventing the introduction of exotic insect pests and plant pathogens into the US via Florida.

During the fiscal year 2018-2019:

- Forty-two active post entry quarantine permits
- Fifty inspections conducted
- Eleven new permits issued
- One permit not approved
- Five permits released from post-entry



42

POST-ENTRY
QUARANTINE PERMITS



11

NEW PERMITS



50

INSPECTIONS



1

PERMIT NOT
APPROVED



5

PERMITS RELEASED
FROM POST-ENTRY



NON-PROHIBITED AQUATIC PLANT HARVESTING PERMITS



17

AQUATIC
HARVESTING
PERMITS



28

ACTIVE
COMPLIANT
NURSERIES

The Division of Plant Industry has regulatory authority of permitting for the importation, transportation, cultivation, collection, sale, or possession of any aquatic plant. Non-prohibited aquatic plant harvesters are now required to be registered as a nursery and sign a compliance agreement/permit to harvest non-prohibited aquatics. For the period of July 1, 2018 to June 30, 2019, the division issued seventeen aquatic harvesting permits. The Division currently has 28 active nurseries under compliance.

ENDANGERED HARVESTING PLANT PERMITS



100

PERMITS ISSUED

1,900

PERMITS ISSUED FOR HARVEST
OF SAW PALMETTO BERRIES

Harvesting Endangered and Commercially Exploited plants requires individuals to have a permit issued by the Division of Plant Industry. During the fiscal year 2018-2019:

- 100 permits issued
- 1,900 permits issued for the harvest of saw palmetto berries

PEST DETECTION RECORDS

PEST RECORDS	ANTHROPODS/MOLLUSCA	DISEASES/NEMATODES
NEW HOST RECORD	69	26
NEW COUNTY RECORDS	201	15
NEW STATE RECORDS	8	5
NEW U.S. CONTINENTAL RECORDS	1	0

NEMATODE CERTIFICATION

1,208

ORNAMENTAL NURSERY
LOCATIONS EVALUATED
CONSISTING OF

18,056

ACRES

12,302 HOURS

NEMATODE CERTIFICATION
ACTIVITIES

0

NEMATODES OF CITRUS
DETECTED

22

SOIL PITS CONSISTING OF

785

ACRES SAMPLED AND
APPROVED FOR NEMATODE
CERTIFICATION

5,165

SAMPLES COLLECTED AND
PROCESSED

ORNAMENTAL NURSERIES

Florida nursery stock is regulated for certain nematodes when shipped to California, Arizona, Texas, Louisiana, European Union (EU) and other countries. The Division of Plant Industry has plant inspectors across the state responsible for conducting nematode sampling in order to meet certification requirements. During the 2018-2019 Fiscal Year, nematode certification personnel evaluated 1,208 ornamental nursery locations consisting of 18,056 acres. During this reporting period, plant inspection personnel spent 12,302 hours related to nematode certification activities.

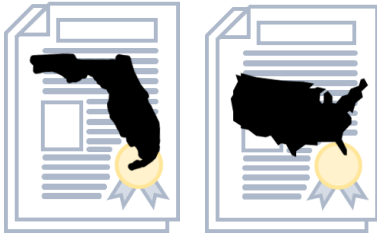
PITS

There were no nematodes of citrus detected in pits this year. During this fiscal year 22 soil pits consisting of 785 acres were sampled and approved for nematode certification.

SAMPLES TAKEN

A total of 5,165 samples were collected and processed from citrus nurseries, soil pits, and ornamental nurseries for nematode certification during the 2018-2019 year.

EXPORT CERTIFICATION



5,992

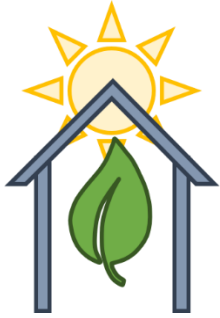
STATE
PHYTOSANITARY
CERTIFICATES

10,150

FEDERAL
PHYTOSANITARY
CERTIFICATES

Export Certification – allows for nurseries and nursery stock dealers to export plants and plant products out of the state and/or country. During the fiscal year 2018-2019, Plant Inspection personnel issued the following number of export certificates for plants and plant products destined to other states and countries.

- State Phytosanitary Certificates: 5,992 certificates
- Federal Phytosanitary Certificates: 10,150 certificates



116

NURSERY LOCATIONS
UNDER COMPLIANCE

> 807 HOURS

CONDUCTING AUDITS AND
ENSURING COMPLIANCE

Canadian Greenhouse Certification – allows for nurseries to export greenhouse grown plants to Canada based on quarterly inspections using authorized stickers in place of a phytosanitary certificate. We currently have 116 nursery locations under compliance and inspectors have spent over 807 hours conducting audits and ensuring compliance with the program.

47

LOCATIONS CERTIFIES
CONSISTING OF

2,199

ACRES

> 500 HOURS

CERTIFYING FLORIDA
BLUEBERRY FARMS

Canadian Blueberry Certification – allows for blueberry fruit shipments to enter Canada based on negative trapping surveys for the blueberry maggot using authorized stickers in place of a phytosanitary certificate. During the past fiscal year, we certified 47 locations consisting of 2,199 acres in Florida. Inspectors spent over 500 hours certifying Florida Blueberry farms for fresh fruit shipment to Canada.

82 HOURS
SERVICING
144
TRAPS

Corn Borer and State of Origin Certification – allows for corn, bell pepper and green bean producers to meet the quarantine requirements of California regarding the freedom of the European corn borer. For this reporting period inspectors spent 82 hours servicing 144 traps designed for this program.

GIANT AFRICAN LAND SNAIL

During routine fruit fly monitoring activities, a snail specimen that had been collected by a homeowner in Miami Dade County was provided to a Florida Department of Agriculture and Consumer Services Division of Plant Industry inspector and later identified by DPI, Florida Museum of Natural History and USDA APHIS PPQ taxonomic specialists as *Achatina fulica*, Giant African Land Snail (GALS). The specimen was collected on September 8, 2011 in the City of Miami, Miami-Dade County. Since the initial detection, 168,400 snails have been collected on 719 properties in 32 core areas of infestation.

Twenty three (23) personnel are assigned to the GALS program in Miami-Dade County, Florida. Program activities include four core teams carrying out survey, control, regulatory and outreach in their assigned areas based on positive cores.

There was one meeting with DPI and PQ for Core/Z-grid (paper and field) audits for properties proposed for eradication declaration (Decommission). There was one meeting held during this reporting period and one on June 25, 2018. Both meetings resulted in the decommission during this reporting period of four cores, 1, 10, 23 and 24 leaving the total remaining cores at 10.

Survey and control activities involve biweekly inspections including the mechanical collection of GALS, molluscicides bait applications and debris removal.

As of June 30, 2019, the following was completed by our survey and control teams:

- 204,832 inspections
- 100,583 properties bait treated
- Over 3 million pounds of debris removed
- 168,400 GALS collected
- 2,708 helpline contacts resolved
- 34,276 non-core visual surveys
- 22 cores decommissioned consisting of 2,267 properties

DETECTOR DOG PROGRAM

A primary objective of this program is to continue safeguarding our nations' food and environmental security through early detection of exotic pests and pathogens that threaten our agricultural production and ecological systems. This program provides the opportunity for early identification and mitigation of plant pests through the use of detector dog technology directed at high risk pathways. We have trained canines deployed at mail/parcel hubs and distribution centers targeting high risk fruit fly host material.

We currently have four canine teams deployed parcel facilities conducting inspection of packages for high risk plants and plant products. Two teams are located in Central Florida (Orlando & Tampa) and two teams located in Miami. Teams conduct daily inspections at private mail sort facilities targeting plant pests that may negatively impact Florida agriculture and the food supply. Routine inspections using detector dog technology include detections of fruit, vegetables, plants and plant products mailed from within the state and into the state of Florida. High-risk target fruit identified through canine alerts include citrus, mangos, apples, pears, avocado, lychee, kumquats and peaches.

We have two canine teams deployed on the GALS eradication program in Miami. The focus is to assist with early detection of live GALS on high risk properties. For properties that have been previously positive, the canine teams serve as an additional negative inspection and confirmation that a positive is free of the snails. For helpline calls or new detections, the canines can supplement a thorough survey and help quickly delimit infestations.

In addition to the six canine/handler teams, FDACS-DPI has one program manager headquartered in Miami to supervise the handlers and oversee the detector dog program. The program manager is responsible for conducting annual canine certification, program development and problem solving in all canine inspection areas.

Parcel Facility Over-View

- Total Alerts: 23,150
- Targets Placed: 1,342
- Detection Accuracy: 99%

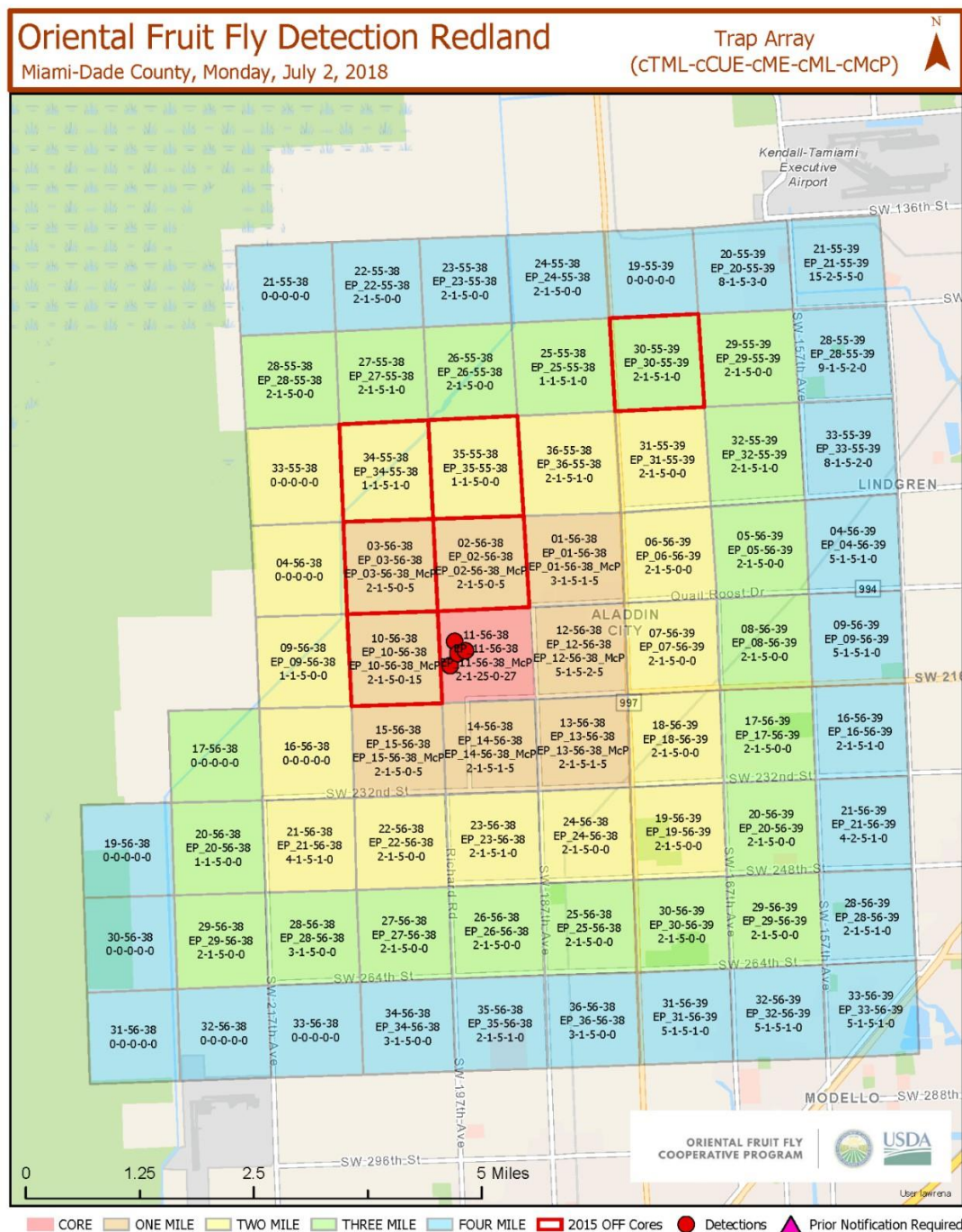
Pest of Regulatory Significance Detections

Family	Genus	Species	Common name	# Interceptions
PSEUDOCOCCIDAE	Delottococcus	confusus		3
HELICIDAE				2
SUCCINEIDAE	Succinea	sp.	amber snails	2
LYGAEIDAE	Eremocoris	Borealis	mealy plum aphid	1
MIRIDAE	Lygus	sp.	lygus bug	1
MIRIDAE	Rhinacloa	Forticornis	Western plant bug	1
THAUMASTOCORIDAE	Thaumastocoris	Peregirus	bronze bug	1
TOTAL				11

Giant African Land Snail Activities:

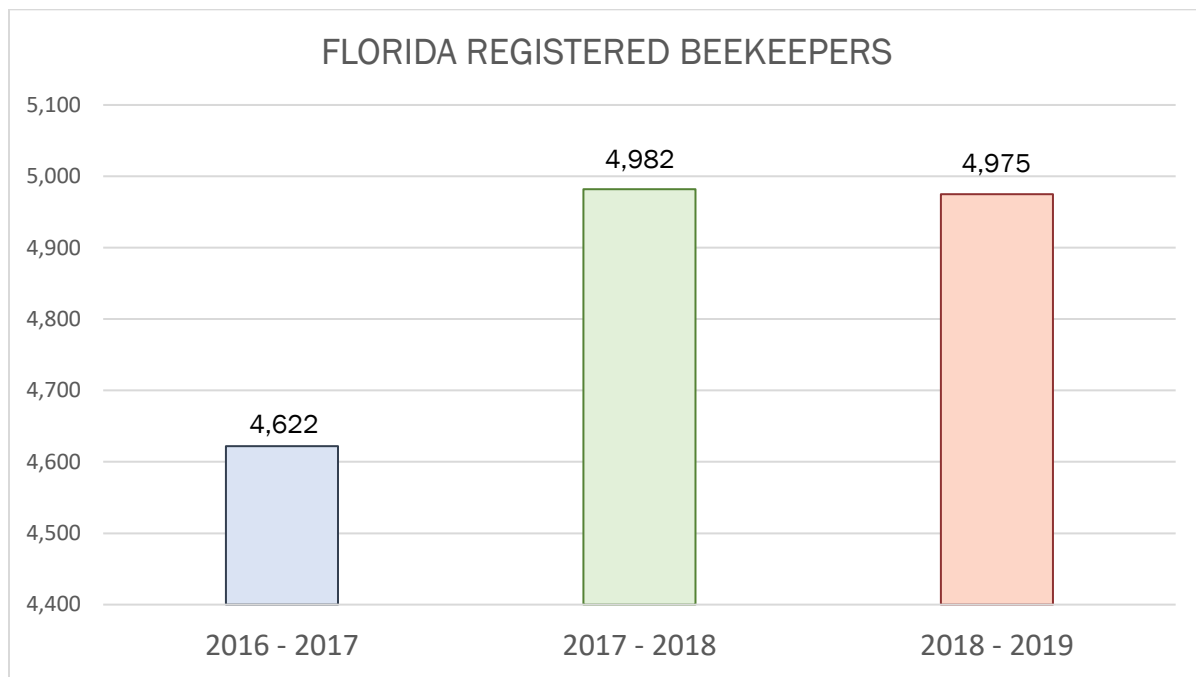
- Properties Inspected: 1,042
- Targets Placed: 802
- Detection Accuracy: 98%

On June 1, 2018, the detection of a male *Bactrocera dorsalis*, Oriental fruit fly triggered a need for delimit trapping in the area of the Redlands, Miami. On June 3rd, two additional flies were detected initiating the trigger for control activities. On June 26th one additional Oriental fruit fly was detected. Activities included 315 Methyl Eugonol (ME) and 65 McPhail traps placed and serviced on a daily and weekly cycle. 49 locations inspected for larvae, 17 different hosts inspected for larvae, 1888 fruit cut, and no target larvae found. A total of 37,045 MAT (Male Annihilation Technique) treatments. No additional flies found concluding the delimitation program on September 30, 2018.



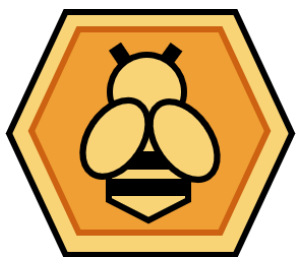


APIARY INSPECTION



2018-2019 Florida Registered Beekeepers: 4,975
 2017-2018 Florida Registered Beekeepers: 4,982
 2016-2017 Florida Registered Beekeepers: 4,622

Although there are numerous challenges within this sector of agriculture, from pest and disease issues to forage loss to pesticide exposures, Florida's beekeeping industry seems to continue its growth spurt. There were 804 new beekeeper registrations processed during this season. This brought Florida's industry up to 4,975 registered beekeepers. The Apiary Inspection section experienced a fair amount of turnover and some vacancies during this season. Due to the beekeeper to inspector ratios, we are unable to visit each beekeeper for an annual inspection. Approximately 30% of the registered beekeepers underwent a routine inspection during this season.



804

NEW BEEKEEPER
REGISTRATIONS



30%

BEEKEEPERS RECEIVED
ROUTINE INSPECTION

FDACS' Agriculture and Consumer Protection Specialists conducted 1,817 routine apiary inspections during the 18-19 season. There were 1,202 permits issued to ship loads of honey bees out of the state, consisting of 482,732 colonies total. There were 235 inspections completed to certify hives destined for California for almond pollination as "ant-free".



1,817

ROUTINE APIARY
INSPECTIONS

235

INSPECTIONS TO
CERTIFY ANT-FREE HIVES

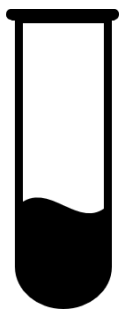


1,202

PERMITS ISSUED FOR
OUT-OF-STATE SHIPMENTS

In addition to providing these services to the beekeeping industry, the apiary inspection team performed follow-up visits for more than 100 calls from the general public regarding nuisance honey bees during the 18-19 season.

A Certificate of Beekeeping Registration issued by the Division of Plant Industry is required by any person having honey bee colonies within the state of Florida. Beekeepers are separated into three categories based on the number of colonies they manage: Backyard (1 - 40 colonies), Sideline (41 - 100 colonies), and Commercial (101 or more colonies).



656

SAMPLES COLLECTED
AND SUBMITTED

The apiary inspection team services bait hives at the ports of entry around the state of Florida to capture any unwanted bees or bee pests that may be imported into the state. These inspections are not captured within the routine inspection data but are conducted by each employee with assigned ports every 21-30 days. Additionally, we are a collaborator for the USDA-APHIS National Honey Bee Survey to assess honey bee colony health across the nation. Twenty-four (24) sampling kits are issued to Florida and they are all completed by the apiary inspection team. This cooperation resulted in 656 samples being collected and submitted from Florida.

