



**BUREAU OF PLANT &
APIARY INSPECTION**

Tyson R. Emery
Bureau Chief



JULY 1, 2017-JUNE 30, 2018

ANNUAL REPORT

DIVISION OF PLANT INDUSTRY

Dr. Trevor Smith, Director



**FLORIDA DEPARTMENT OF AGRICULTURE
DIVISION OF PLANT INDUSTRY
1911 SW 34th Street, Gainesville, FL 32608-1201
(352)395-4700
www.FreshFromFlorida.com**



**Florida Department of Agriculture and Consumer Services
Adam H. Putnam, Commissioner**

Table of Contents

PERSONNEL	3
NURSERIES	17
STOCK DEALERS	18
PLANT & NURSERIES UNDER INSPECTION BY COUNTY	19
ADMINISTRATIVE AND SUPPORT	22
IMPORTED FIRE ANT AND BOLL WEEVIL	23
CARIBBEAN FRUIT FLY PROTOCOL PROGRAM	24
IMPORT INSPECTIONS & NON-PROHIBITED AQUATIC/ENDANGERED HARVESTING PERMITS	26
AGRICULTURE PRODUCTS ENTERING FLORIDA	27
PEST DETECTION RECORDS & CONSUMER ACTIVITIES	28
EXPORT CERTIFICATION & CONSUMER ACTIVITIES	29
GIANT AFRICAN LAND SNAIL	30
DETECTOR DOG INSPECTION PROGRAM	31
FRUIT FLY ERADICATION PROGRAMS:	
➤ ORIENTAL FRUIT FLY, CLEARWATER	32
➤ ORIENTAL FRUIT FLY, WESTON	33
➤ GUAVA FRUIT FLY, ST. PETERSBURG	34
➤ PEACH FRUIT FLY, LAKE WORTH	35
➤ ORIENTAL FRUIT FLY, REDLAND	36
APIARY INSPECTION	37

PERSONNEL

Tyson Emery	Bureau Chief	Gainesville
Sheila McMahon	Staff Assistant	Gainesville
Bryan Benson	Assistant Chief, Plant Inspection	Gainesville
Stephen Hildebrandt	Environmental Manager	Gainesville
Christine Frere	Environmental Manager	Vero Beach
Steven Kelley	Operations and Management Consultant I	Gainesville
Glenda Anderson	Sr. Word Processing System Operator	Gainesville
Cathy Daniels	Sr. Word Processing System Operator	Gainesville
Terri Hymes	Staff Assistant	Gainesville
Connie Lindsay	Staff 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

REGION1 AREA 1

Cheryl Jones	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
Kelly Douglas	Environmental Specialist I	Gainesville
Larry W. Smith	Environmental Specialist I	Panama City
Brian Alford	Environmental Specialist I	Gainesville

REGION1 AREA 2

Larry Violett	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
Tamika Varela	Agricultural Technician II	Tavares
Robert Lawton	Agricultural Technician II	Tavares

REGION1 AREA 3

Tracy Wright	Environmental Supervisor I	Tavares
Kenneth Ellis	Environmental Specialist I	Jacksonville
Lisa Hassell	Environmental Specialist I	Jacksonville
Melanie Cain	Environmental Specialist I	Port Orange
Kevin Loadholtz	Environmental Specialist I	Deland
Karen Coffey	Environmental Specialist I	Port Orange
Patrick Sullivan	Agricultural Technician II	Deland
Carolyn Hall	Agricultural Technician II	Port Orange
Daniel Allen	Agricultural Technician II	Tavares

REGION II

Serena Stornaiuolo	Environmental Supervisor II	Apopka
Michelle Pinns	Administrative Secretary	Apopka

REGION2 AREA 1

Anthony Puppelo	Environmental Supervisor I	Apopka
George A. Warden	Environmental Specialist I	Apopka
Lance A. Brown	Environmental Specialist I	Apopka
Anna J. Gourlay	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	Agricultural Technician II	Apopka
Jillian Boyar	Environmental Specialist I	Apopka

REGION2 AREA 2

Daniel Merced	Environmental Supervisor I	Dade City
Gary Webb	Environmental Specialist I	Dade City
Carrie Krappe	Agricultural Technician II	Dade City
Karen R. Destefano	Agricultural Technician II	Dade City
Miray Ibrahim	Agricultural Technician II	Dade City
Jodi Bixler	Agricultural Technician II	Dade City
Paul Stewart	Agricultural Technician II	Dade City

REGION2 AREA 3

Richard A. White	Environmental Supervisor I	Clearwater
Jason Spiller	Environmental Specialist I	Clearwater
Thomas S. Lastrapes	Environmental Specialist I	Clearwater
Mark A. Spearman	Environmental Specialist I	Clearwater
Elizabeth Zuniga	Environmental Specialist I	Clearwater
Linda G. McRay	Environmental Specialist I	Clearwater
Bobbe A. Rose	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
Calvin Snyder	Agricultural Technician II	Clearwater

REGION2 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	Vero Beach
Janet L. Young	Agricultural Technician II	Vero Beach
Teresa Ortelli	Agricultural Technician II	Ft. Pierce

REGION2 AREA 5

Vacant	Environmental Supervisor I	Dade City
Albert L. Wright	Environmental Specialist I	Winter Haven
Scott D. Berryman	Environmental Specialist I	Avon Park
Ricardo Areingdale	Environmental Specialist I	Winter Haven
Jacob Bryan	Environmental Specialist I	Winter Haven
Richard T. Bloom	Environmental Specialist I	Avon Park
Keith Clanton	Environmental Specialist I	Avon Park

REGION2 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
Huey Suggs	Agricultural Technician II	Palmetto
Patricia A. Bussell	Agricultural Technician II	Palmetto

REGION2 AREA 7

Howard L. Wallace	Environmental Supervisor I	Tampa
Travis J. Streeter	Environmental Specialist I	Tampa
Brandon McCauley	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
Kevin A. Morris	Agricultural Technician II	Tampa
Jisette Castro	Agricultural Technician II	Tampa

REGION III

Scott Shea	Environmental Supervisor II	Miami
Elsie Aviles	Administrative Secretary	Miami

REGION3 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	Agricultural Technician II	Ft. Pierce
James C. Lee	Agricultural Technician II	W. Palm Beach
Eddy Pujols	Agricultural Technician II	W. Palm Beach
Carlene Sargeant	Agricultural Technician II	Delray Beach
Juan Carlos Ochoa	Agricultural Technician II	Delray Beach

REGION3 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

REGION3 AREA 3

Charles Gonzalez	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
Ramon Reschop	Agricultural Technician II	Miami Lakes
Yarosky Castillo	Agricultural Technician II	Miami
Elena Kej	Agricultural Technician II	Coral Gables
Miguel Hernandez	Agricultural Technician II	Miami Lakes
Julio Rodriguez	Agricultural Technician II	Miami Lakes

REGION3 AREA 4

RosaMaria Quinones	Environmental Supervisor I	Miami
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	Miami
Eric Rojas	Environmental Specialist I	Miami
Rosalba Pina	Agricultural Technician II	Miami
Slim Campos	Environmental Specialist I	Miami

REGION3 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	Agricultural Technician II	LaBelle
Leonora J. Coleman	Agricultural Technician II	Naples
Mary E. Graham	Agricultural Technician II	Naples
C. David Wolf	Agricultural Technician II	Fort Myers
Edward A. Ziegler	Agricultural Technician II	Fort Myers

REGION3 AREA 6

Haydee I. Escobar	Environmental Supervisor I	Coral Gables
Maria C. Acosta	Environmental Specialist I	Miami
Narciso Rodriguez Medina	Environmental Specialist I	Miami
Ana L. Ochoa	Environmental Specialist I	Miami
Gloria Gonzalez	Agricultural Technician II	Miami
Sergio Delgado	Agricultural Technician II	Coral Gables
Cesar Varela	Agricultural Technician II	Miami Lakes

APIARY

David Westervelt	Assistant Chief, Apiary Inspection	Gainesville
Cathy Harrity	Administrative Secretary	Gainesville
Brandi Simmons	Operations Review Specialist	Gainesville

Gary Van Cleef	Agriculture & Consumer Protection Supervisor	Gainesville
Kenneth Finch	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
Jose T. Gill Sanabria	Agriculture & Consumer Protection Specialist	Gainesville

Carmen Fraccica	Agriculture & Consumer Protection Supervisor	Winter Haven
Christopher Alonso	Agriculture & Consumer Protection Specialist	Florida City
Lisa Reynes	Agriculture & Consumer Protection Specialist	Tavares
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 Specialist	Ft. Pierce
Toni A. Weaver	Agriculture Technician II	Ft. Pierce
Phillip Matheny	Agriculture Technician II	Ft. Pierce
Lisa A. Blakey	Agriculture Technician II	Ft. Pierce
Pat McGill	Agriculture Technician II	Ft. Pierce

Paul A. Sinnott	Agriculture & Consumer Protection Supervisor	Ft. Pierce
William S. Blatch	OPS Agriculture Technician II	Ft. Pierce
Jay L. Towler	Agriculture Technician II	Ft. Pierce
Ray D. Jordan	OPS Agriculture Technician II	Ft. Pierce
Steven Rish	OPS Agriculture Technician II	Ft. Pierce

John G. Wiggins	Agriculture & Consumer Protection Supervisor	Vero Beach
Erich Witter	Agriculture Technician II	Vero Beach
John E. Quigley	Agriculture & Consumer Protection Specialist	Vero Beach
Matthew McCloskey	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	Environmental Specialist	Miami
Esteban Godinez	OPS Environmental Specialist	Miami

Lorena Dewitz	Agriculture & Consumer Protection Specialist	Miami
Ernesto Alvarado	OPS Agriculture Technician II	Miami
Gustavo Cuevas	OPS Agriculture Technician II	Miami
Alvaro Pertuz	OPS Agriculture Technician II	Miami
Guillermo Alvarado	OPS Agriculture Technician II	Miami

Suhayla Carrasquilla	Agriculture & Consumer Protection Specialist	Miami
Denis Acosta	OPS Agriculture Technician II	Miami
Carlos Aguilera	OPS Agriculture Technician II	Miami
Carlos Cambana	OPS Agriculture Technician II	Miami
Edgardo Luiggi	OPS Agriculture Technician II	Miami
Latasha Newkirk-Carbs	OPS Agriculture Technician II	Miami
Davenia Polydor	OPS Agriculture Technician II	Miami
Tina Porter	OPS Agriculture Technician II	Miami

Carolina Reece	Agriculture & Consumer Protection Specialist	Miami
David Buzzi	OPS Agriculture Technician II	Miami
Reinaldo Casanas	OPS Agriculture Technician II	Miami
Armando Ching San	OPS Agriculture Technician II	Miami
Yelitza Crespo	OPS Agriculture Technician II	Miami
Margarita Diaz	OPS Agriculture Technician II	Miami
Nubia Tapias	OPS Agriculture Technician II	Miami
Stanley Pigniat	OPS Agriculture Technician II	Miami
Robert Shim	OPS Agriculture Technician II	Miami

David Ortiz	OPS Agriculture Technician III	Miami
Travis Thurmond	OPS Agriculture Technician II	Miami

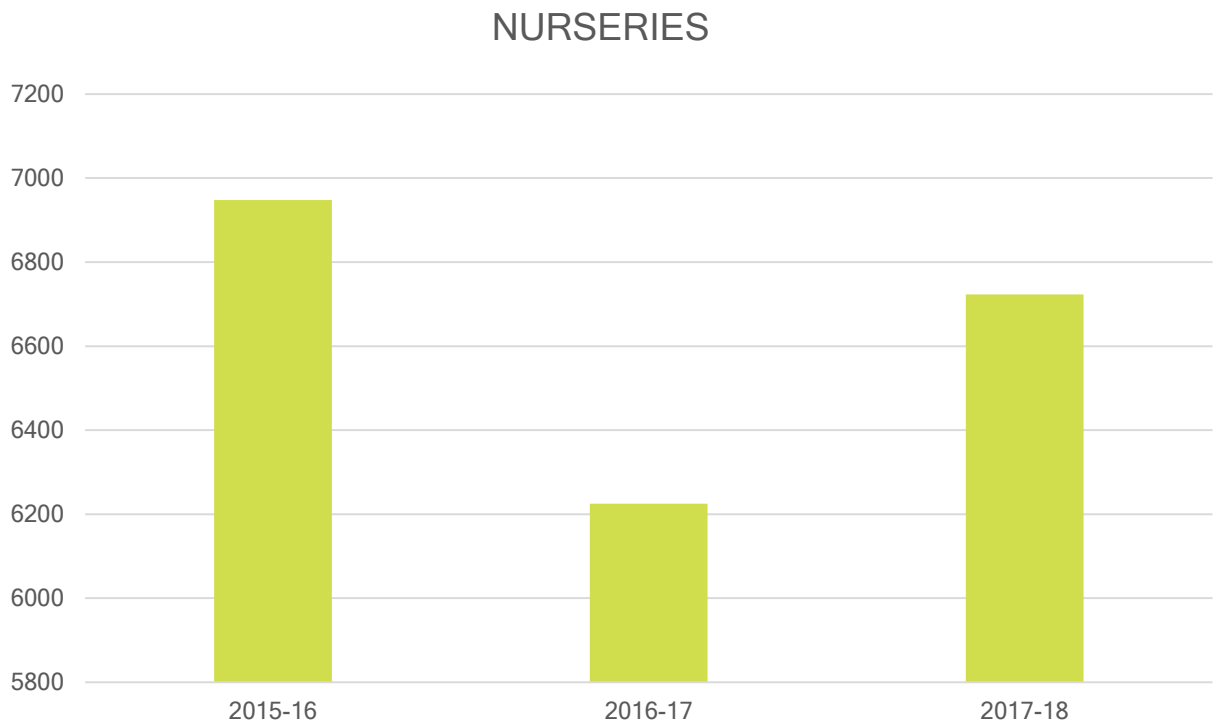
DETECTOR DOG PROGRAM

Marcus Jones	Environmental Specialist III	Miami
Gregg D. Farina	Environmental Specialist II	Apopka
Karen A. Holton	Environmental Specialist II	Tampa
Jennifer Mestas	Environmental Specialist II	Miami
Michael Golub	Environmental Specialist II	Miami
Denise R. Lamb	Environmental Specialist II	Miami
Omar Garcia	Environmental Specialist II	Miami

NURSERIES

FDACS' Environmental Specialists made 34,094 inspections on 6,732 nurseries during the 2017-18 season. One-hundred ten (110) 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.

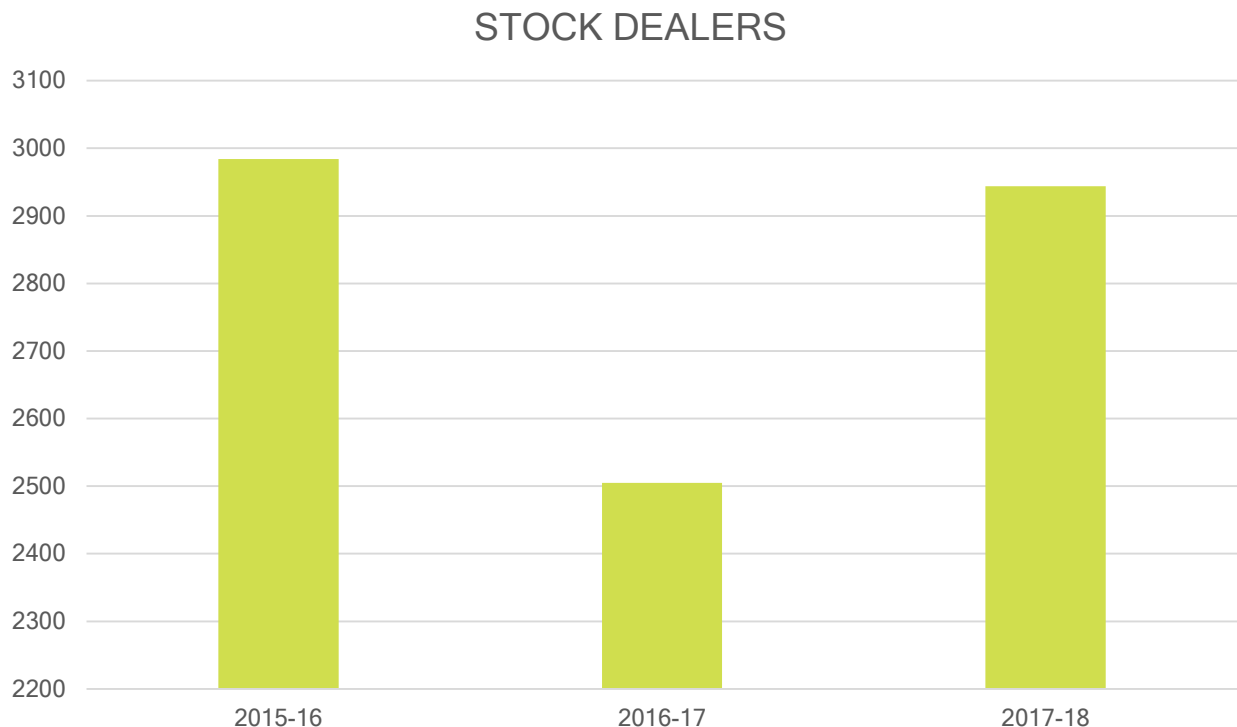
A Certificate of Registration issued by the Division of Plant Industry; is required by any person selling nursery stock in Florida. Nursery stock is defined as “all plants, trees, shrubs, vines, buds, vegetable and field crop plants, flowering annual plants, aquatic plants, corms, tubers, bulbs, liners, 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

FDACS' Environmental Specialists made 11,219 inspections on 2,944 stock dealers during the 2017-18 season. Eighty-seven (87) 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.) Requests for inspection should be made at least 30 days in advance of the movement of stock. If a special inspection is required, it will be necessary for the nurseryman to defray the cost of such an inspection.



PLANTS AND NURSERIES UNDER INSPECTION BY COUNTY

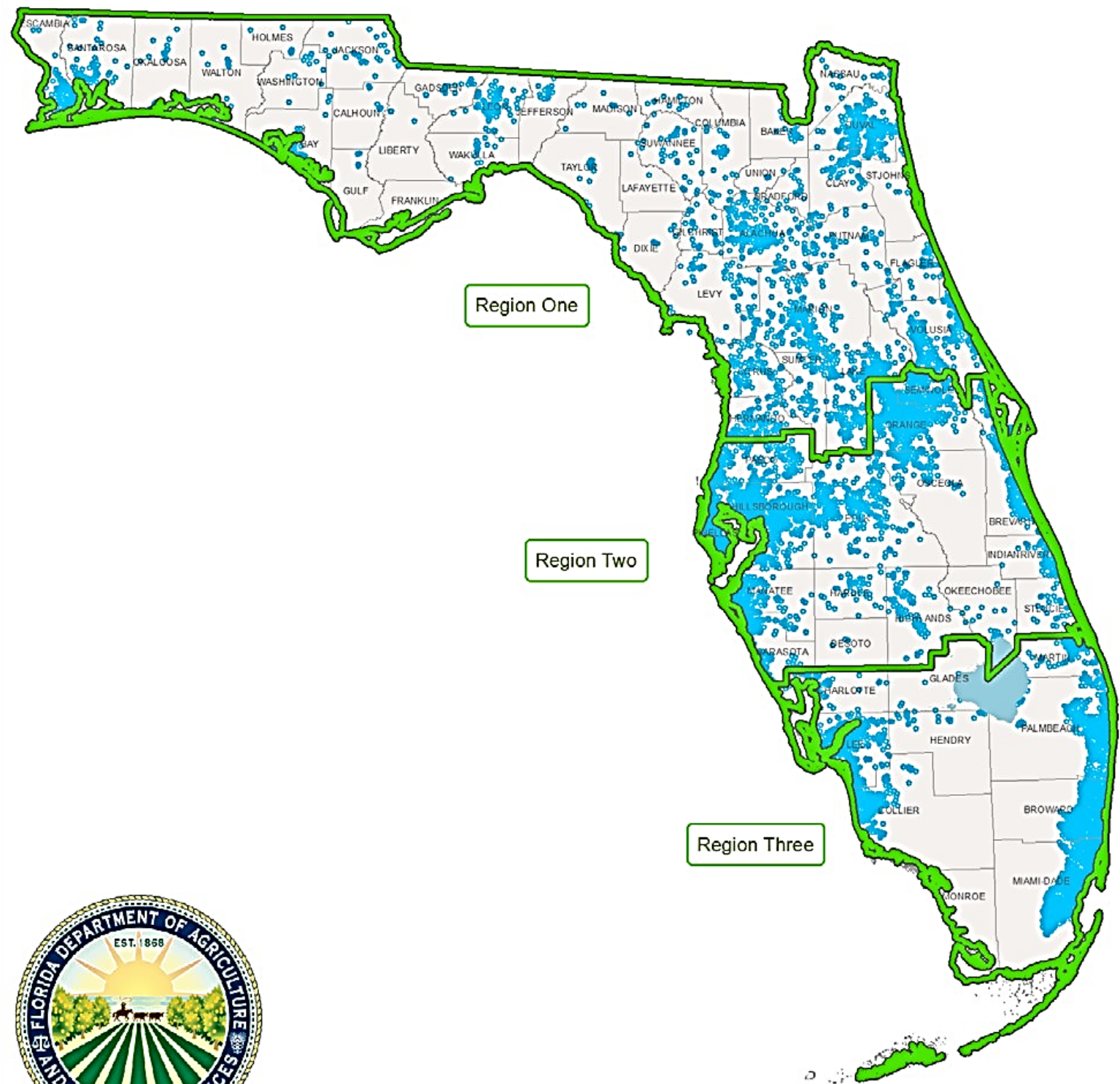
COUNTY	TOTAL ACRES	TOTAL PLANTS	TOTAL NURSEREIS
ALACHUA	1,026.86	4,907,472	180
BAKER	100.77	75,200	26
BAY	156.05	7,450	10
BRADFORD	10.41	24,856	17
BREVARD	1,201.37	680,686	199
BROWARD	1,045.04	3,300,042	519
CALHOUN	11.20	4,838,100	5
CHARLOTTE	242.65	949,752	45
CITRUS	742.18	262,765	76
CLAY	24.45	345,142	36
COLLIER	679.11	115,142,023	182
COLUMBIA	217.25	1,362,888	45
DESOTO	456.38	2,241,086	36
DIXIE	80.93	7,291	19
DUVAL	710.40	485,371	72
ESCAMBIA	33.10	3,953,823	36
FLAGLER	880.44	1,756,490	26
FRANKLIN	0.35	846	2
GADSDEN	472.18	16,950,990	18
GILCHRIST	107.32	929,283	27
GLADES	3,057.10	793,548	30
GULF	0.61	2,590	4
HAMILTON	90.11	69,893	9
HARDEE	1,186.43	5,112,740	45
HENDRY	562.70	1,535,001	47
HERNANDO	705.06	407,954	75
HIGHLANDS	1,858.39	4,180,282	120
HILLSBOROUGH	1,367.11	20,550,632	422
HOLMES	1.55	3,350	4
INDIAN RIVER	985.51	347,116	82
JACKSON	7.02	38,080	18
JEFFERSON	197.09	12,576,900	25
LAFAYETTE	182.51	6,598,086	7
LAKE	3,623.12	33,822,494	286
LEE	2,514.92	3,532,175	341
LEON	36.69	98,408	38
LEVY	1,499.13	11,687,037	65
LIBERTY	0.35	1,740	2

PLANTS AND NURSERIES UNDER INSPECTION BY COUNTY

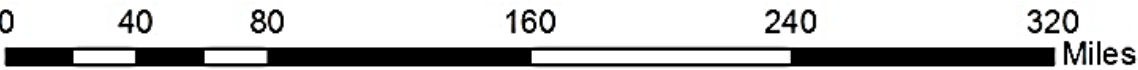
COUNTY	TOTAL ACRES	TOTAL PLANTS	TOTAL NURSEREIS
MADISON	205.17	19,099,443	15
MANATEE	578.22	334,902,657	153
MARION	754.28	1,410,407	169
MARTIN	1,586.86	5,882,686	156
MIAMI-DADE	15,201.73	142,537,653	2,189
MONROE	30.30	31,430	40
NASSAU	334.20	25,497	13
OKALOOSA	11.69	11,753	15
OKEECHOBEE	2,917.70	149,195	38
ORANGE	1,580.47	47,885,921	390
OSCEOLA	265.43	1,350,213	61
PALM BEACH	2,731.19	23,540,637	516
PASCO	175.86	1,056,890	127
PINELLAS	57.40	273,180	184
POLK	673.13	263,015,387	250
PUTNAM	123.73	371,789	50
SANTA ROSA	429.54	4,302,486	44
SARASOTA	56.69	4,534,741	105
SEMINOLE	96.00	1,862,976	162
ST. JOHNS	299.19	704,555	55
ST. LUCIE	1,511.00	1,068,463	80
SUMTER	961.29	47,508,036	63
SUWANNEE	568.46	14,561,687	49
TAYLOR	37.02	3,248,300	11
UNION	7.22	4,920	5
VOLUSIA	2,183.88	3,185,459	239
WAKULLA	6.22	337,280	9
WALTON	2.61	10,295	10
WASHINGTON	4.66	11,150	8
SUMMARY	59,464.97	1,182,464,668	8,402

Florida Nurseries and Stock Dealers

July 15, 2018



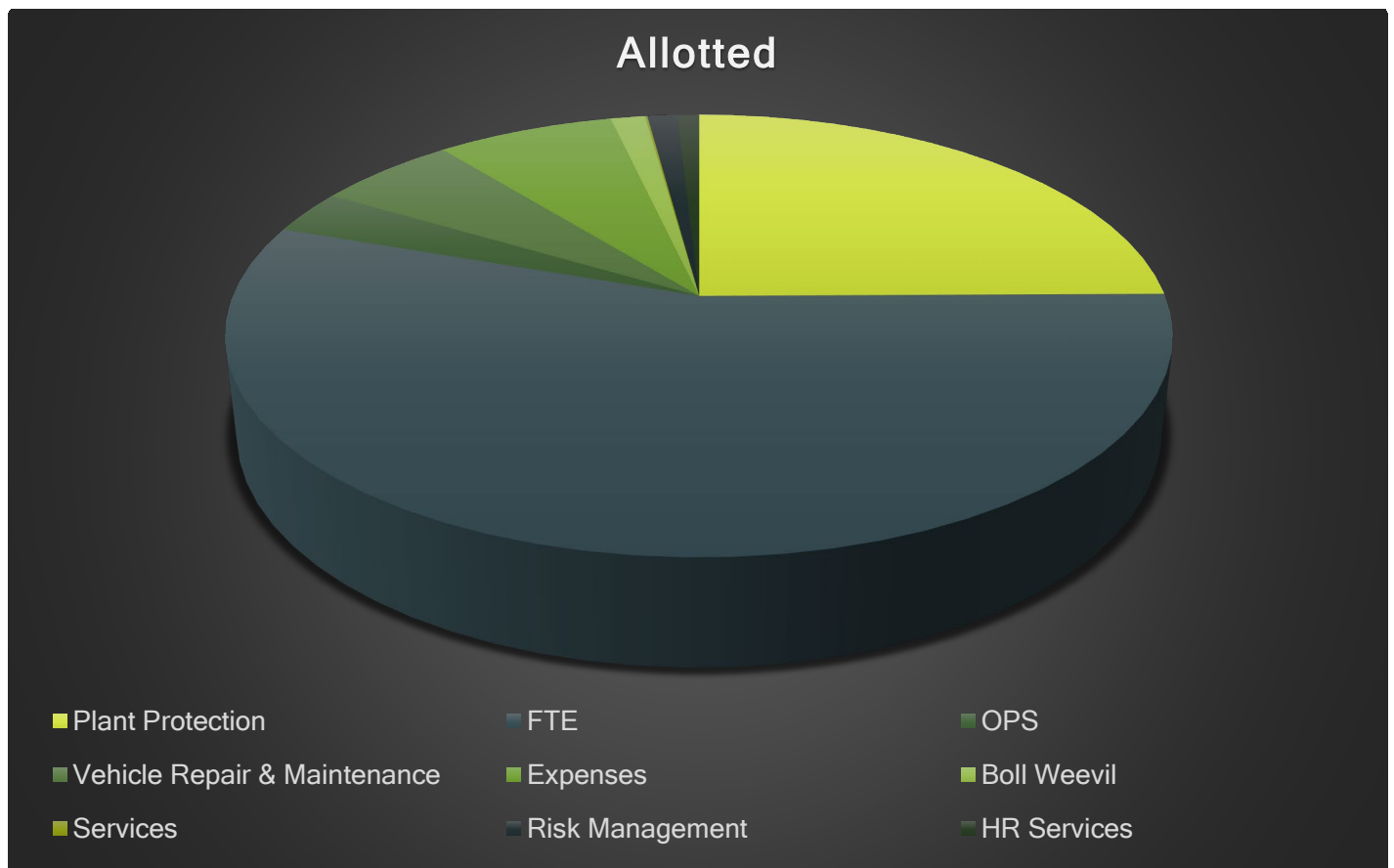
 Plant Inspection Regions  Nurseries and Stock Dealers



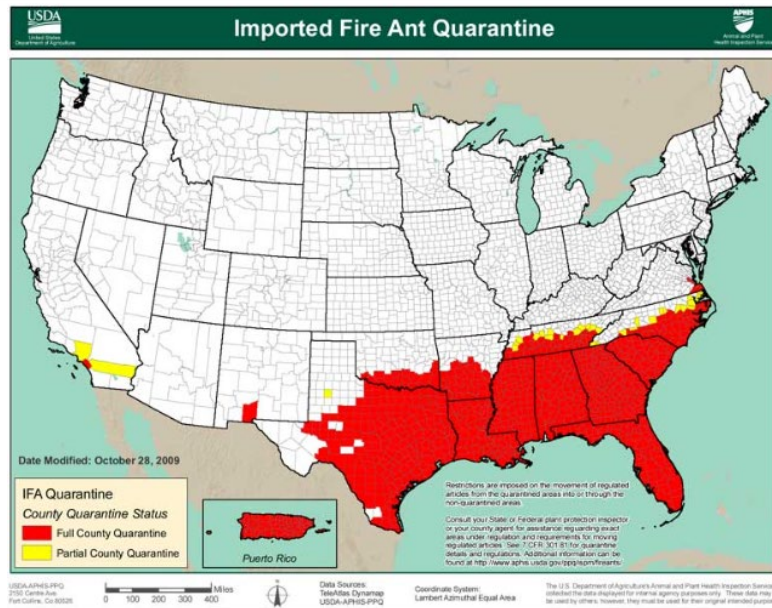
ADMINISTRATIVE AND SUPPORT

The Plant & Apiary Inspection's state authorized budget for 2017-18 was \$7,895,402.42 and included a total staff of 234 full-time employees. The Plant Industry Division continued its work with other organizations, both public and private, through the administration of cooperative agreements. For the period, approximately \$1,962,753.38 in cooperative agreements was received and administered for work with joint plant pest regulatory programs. Programs include Imported Fire Ant, Giant African Land Snails, and Detector Dogs. Figure 5 provides a summary of the Plant Industry budget for the 2017-18 fiscal year.

The Plant & Apiary Inspection Bureau, Support Operations provides support for all the division's programs, including staff and maintenance of Division owned vehicles and other equipment needed for all service and regulatory programs. This unit also assists the Division with the implementation of safety orientation.



IMPORTED FIRE ANT



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, 2018, there were 1,945 nursery and stock dealers under compliance agreement for Imported Fire Ant certification purposes. During this period, plant inspection personnel spent 809 hours associated with IFA activities.

BOLL WEEVIL ERADICATION PROGRAM

The boll weevil, *Anthonomus grandis*, is considered a major pest of cotton. The boll weevil first entered the U.S. in 1892, but has been eradicated from Florida for several years now through the Boll Weevil Eradication Program. At the close of the 2018 cotton-growing season, there were 325 commercial cotton producers in the state. These producers planted 96,383 acres of cotton in 8 counties. There was no boll weevil trapped in the state during the 2017 season.

CARIBBEAN FRUIT FLY PROTOCOL PROGRAM



Personnel dedicated 37,820 hours to the Protocol Program during the 2017-18 season, down from 54,672 hours in the prior fiscal year. Our leaner program completed the job and contributed 670 hours to the Erinoe Mite Survey, 471 hours to the Peach Fruit Fly Emergency Program, and 272 hours to the Oriental Fruit Fly Emergency Program.

COMMERCIAL CITRUS PRODUCTION

During the 2017-2018 season there were 29,440 acres certified under CFFPP which produced 896,790 cartons of certified citrus. The certified fruit shipped to Japan, South Korea, China, California and Texas.

During the Fiscal Year 2017-2018, CFFPP personnel conducted the following number of inspections:

- Fruit Fly trap services: 21,262
- Harvesting inspections: 1,736
- Packing house inspections: 648
- Acreage surveyed for preferred hosts: 204,402

COMMERCIAL PEACH PRODUCTION

As of June 30, 2017 there were 116,864 pounds of peaches shipped to Texas, an increase from the 2016 figures of 42,960 shipped to the same state. This change is most likely due to the scarcity of peaches from Georgia; which opened the market for Florida growers to sell them at a good price.

Protocol Peaches Shipped to Texas				Peach Acreage Certified				
	2018	2017	2016			2018	2017	2016
# Cartons	21,153	14,608	5,370		#Acres Actual	455	572	320
# Pounds	170,660	116,864	42,960		Billable Acres	720	480	480

CARAMBOLA

During the 2017-2018 season there were 120 acres certified for Texas and California, under CFFPP, which produced 8,604 cartons of certified Carambola. The fruit was all shipped to California this season.

During the fiscal year 2017-2018, CFFPP personnel conducted the following number of inspections:

- Fruit fly trap services: 361
- Packing house inspections: 13
- Harvesting inspections: 15
- Acreage surveyed for preferred hosts: 2320

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. During this reporting period Plant Inspection Personnel spent 6,228 hours associated with import inspection activities. These inspections are instrumental in preventing the introduction of exotic insect pests and plant pathogens into the US via Florida. During the fiscal year 2017-2018 there were sixty-nine post entry quarantine permits authorized. During the same period of time state inspectors conducted four post entry quarantine inspections on plant material. Two were approved and two were not.

NON-PROHIBITED AQUATIC HARVESTING PERMITS

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, 2017 to June 30, 2018, the division issued ten aquatic harvesting permits. The Division currently has 36 active nurseries under compliance.

ENDANGERED PLANT HARVESTING PERMITS

Harvesting Endangered and Commercially Exploited plants requires individuals to have a permit issued by the Division of Plant Industry. Between July 1, 2017 and June 30, 2018, the division issued 45 permits as compared to the 36 permits issued during the same period last year.

OFFICE OF AGRICULTURE LAW ENFORCEMENT REPORT OF AGRICULTURE PRODUCTS ENTERING FLORIDA

A total of 15,144 vehicles carrying plants and plant products were reported entering and exiting Florida through the agriculture inspection stations operated by the Office of Agricultural Law Enforcement Unit during the 2017-2018 Fiscal Year. The commodities indicated below were reported from shipments entering Florida. Statistics provided by the Office of Agricultural Law Enforcement.

2017-18	Total	Total	2017-18	Total	Total
Product	Shipments	Violations	Product	Shipments	Violations
AAA MULTIPRODUCTS	1,273	20	MELON	59	11
ASTER	4	0	NASTURTIUM	0	0
AVOCADO	499	25	NURSERY STOCK	2,156	41
BABYS BREATH	0	0	OAK	40	0
BEET	0	0	ONION	336	10
BROAD BEAN	0	0	ORGANIC VEGETABLES	1,532	9
BROCCOLI	1,169	7	OTHER - PLANT	623	47
CALENDULA	0	0	PALMS	380	2
CARNATION	0	0	PEPPER	137	12
CAULIFLOWER	592	0	PINE STRAW	3	0
CELERY	576	2	POTATO	124	0
CHRYSANTHEMUM	1	0	PRODUCE-DOMESTIC	1,607	15
CITRUS	1,271	17	PRODUCE-FOREIGN	1,237	107
CUCUMBERS	59	8	RED CHARD	0	0
CUT CHRISTMAS TREE	45	2	SEED POTATOES	40	1
CUT FERN	18	1	SOD	76	2
CUT FLOWERS	168	0	SPINACH	348	2
CUT FOLIAGE	90	2	SUGARCANE	4	1
DOGWOOD	1	0	SWEET PEA	0	0
FIREWOOD	6	0	TOMATO	405	36
FLAX	0	0	UNKNOWN	11	0
GARDEN LETTUCE	2,008	3	VIOLA	0	0
GARDEN PEA	0	0			
GARLIC	0	0			
GREEN ONIONS	2,002	32			
HAY	94	16			
KALE	0	0			
LEEKs	0	0			
LIME	136	6			
MANGOES	593	6	TOTALS	22,222	440

PEST DETECTION RECORDS

Pest Records	Arthropods/ Mollusca	Diseases/ Nematodes
New Host Record	67	7
New County Records	174	5
New State Records	11	3
New U.S. Records	14	2
New to Continent	4	2

NEMATODE CERTIFICATION ACTIVITIES

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 2017-2018 Fiscal Year, nematode certification personnel evaluated 1,119 ornamental nursery locations consisting of 13,430 acres. During this reporting period, plant inspection personnel spent 12,299 hours related to nematode certification activities.

PITS

There were no nematodes of citrus detected in pits this year. During this fiscal year 34 soil pits consisting of 1,233 acres were sampled and approved for nematode certification.

SAMPLES TAKEN

A total of 4,198 samples were collected and processed from citrus nurseries, soil pits, and ornamental nurseries for nematode certification during the 2017-2018 year.

EXPORT CERTIFICATION

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 2017-2018, Plant Inspection personnel issued the following number of export certificates for plants and plant products destined to other states and countries.

- State Phytosanitary Certificates 5,593 certificates
- Federal Phytosanitary Certificates: 10,060 certificates
- Federal Re-export Certificates: 647
- Federal Processed Products: 51 certificates

Canadian Greenhouse Certification – allows for nurseries to export to Canada based on quarterly inspections using authorized stickers in place of a phytosanitary certificate. We currently have 147 nursery locations under compliance and have authorized 14,050 stickers to be printed this year.

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 43 locations consisting of 1,681 acres in Florida and authorized the printing of 515 stickers to be printed.

Tropical Spiderwort Certification – allows for commercial nursery shipments to meet the quarantine requirements of North Carolina in regard to freedom of the noxious weed, Tropical Spiderwort. For this reporting period 527 compliance agreements were issued and at the present time there are 1,094 nursery locations actively under compliance for Tropical Spiderwort.

CONSUMER ACTIVITIES

Plant Inspection routinely assists consumers by responding to complaints and requests for information or by investigating plant pest problems. From July 1, 2017 until June 30, 2018 there were 232 consumer requests received by the Division of Plant Industry Helpline and forwarded to Plant Inspection for follow-up. The program areas of the calls included 194 GALS, 24 Fruit Fly, 76 Citrus Health, 19 Laurel Wilt and Nursery and Stock Dealer Certifications.

GIANT AFRICAN LAND SNAIL (GALS) PROGRAM

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 USDAAPHIS 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, over 168,000 snails have been collected on 719 properties in 32 core areas of infestation.

Giant African Land Snails are a potential threat to a wide variety of crops, including vegetable, field, oil, ornamental and fruit crops. Our primary mission is to protect the health and value of American agricultural resources threatened by the establishment of exotic pests. Therefore, the first priority is to detect and/or mitigate economically important pest introductions to prevent production losses and/or trade disruption to U.S. growers and industry that would result from the establishment of economic pests and their spread. In addition, this agricultural pest poses a human health risk as a carrier of the rat lungworm (nematode) which can cause eosinophilic meningitis in humans.

Thirty (30) personnel are assigned to the 181GALS 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.

Survey and control activities involve biweekly inspections including the mechanical collection of GALS, molluscicides bait applications and debris removal. As of June 30, 2018, the following was completed by our survey and control teams:

186,339 inspections, 95,515 properties bait treated, over 3 million pounds of debris removed
168,402 GALS collected

Regulatory and outreach activities involve nursery, stock dealer, solid waste, recycling, transfer facilities, illegal dumpsite inspections and helpline calls. As of June 30, 2018, the following was completed by our regulatory and outreach teams:

1,090 nursery inspections, 643 stock dealer inspections, 670 solid waste/recycling/transfer station inspections, 139 Lawn maintenance inspections, 259 illegal dumpsite inspections, 2,690 helpline contacts resolved, and 2,507 Non-core Visual surveys

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.

During the past year, the Detector Dog Inspection section has added canine technology to our Giant African Land Snail (GALS) eradication efforts. This is an additional tool to be used in our successful eradication campaign against this plant pest by conducting field inspections on properties previously identified as positive or high risk for infestation.

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.

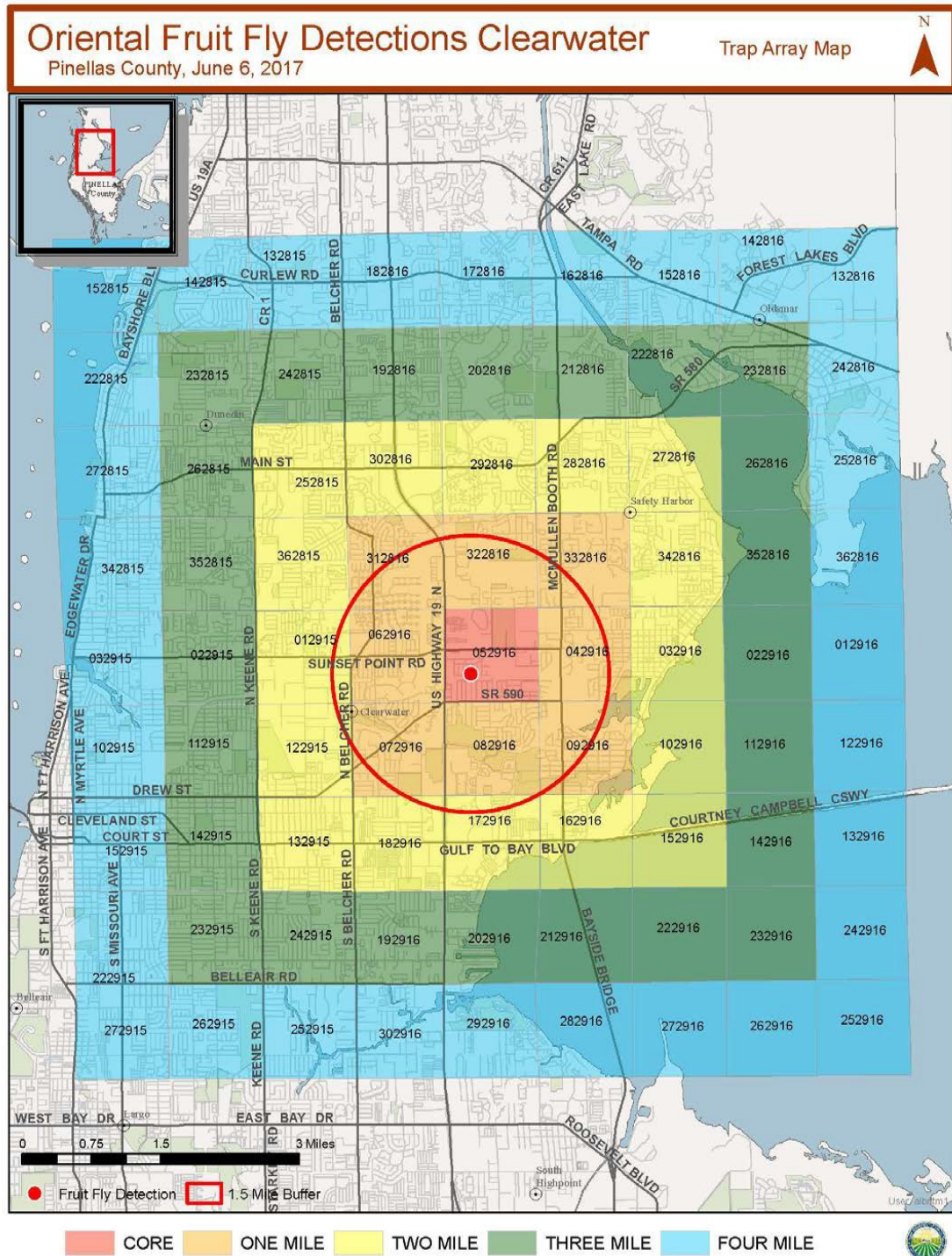
We have two canine teams deployed on the GALS eradication program in Miami. The focus is to assist with early detection of live GALS on high risk properties. For properties that have been previously positive, the canine teams serve as an additional negative inspection and confirmation that a positive 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.

During this reporting period FDACS-DPI personnel dedicated over 19,800 hours associated with the Detector Dog Inspection program

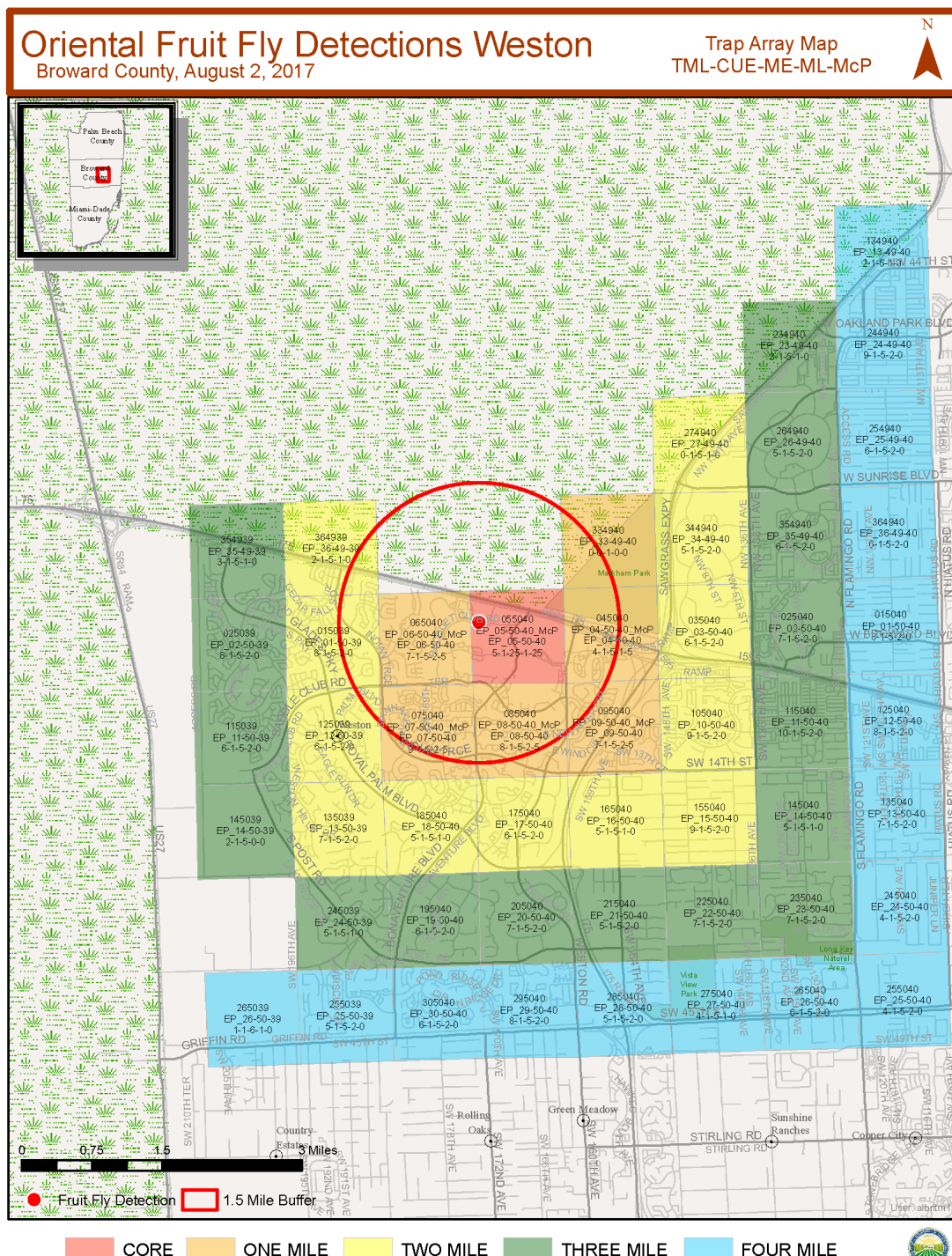
CLEARWATER (*BACTROCERA DORSALIS*)

On Tuesday, June 6 2017, one male *Bactrocera dorsalis* complex fruit fly was detected in a Jackson Trap baited with the male attractant Methyl Eugenol (ME) that was placed in a mango tree at the residence 2700 Morningside Dr., Clearwater, Florida. This detection was in a residential area. Hosts in the area included avocados, longans and mangos. A small production farm was within 0.25 miles of detection. In addition there were some dooryard nurseries and a sod dealer. 335 Methyl Eugenol (ME) and 65 McPhail traps were placed and serviced. All ME and McPhail traps were serviced with negative results; no suspect flies found, concluding the delimitation program on 08/10/2018.



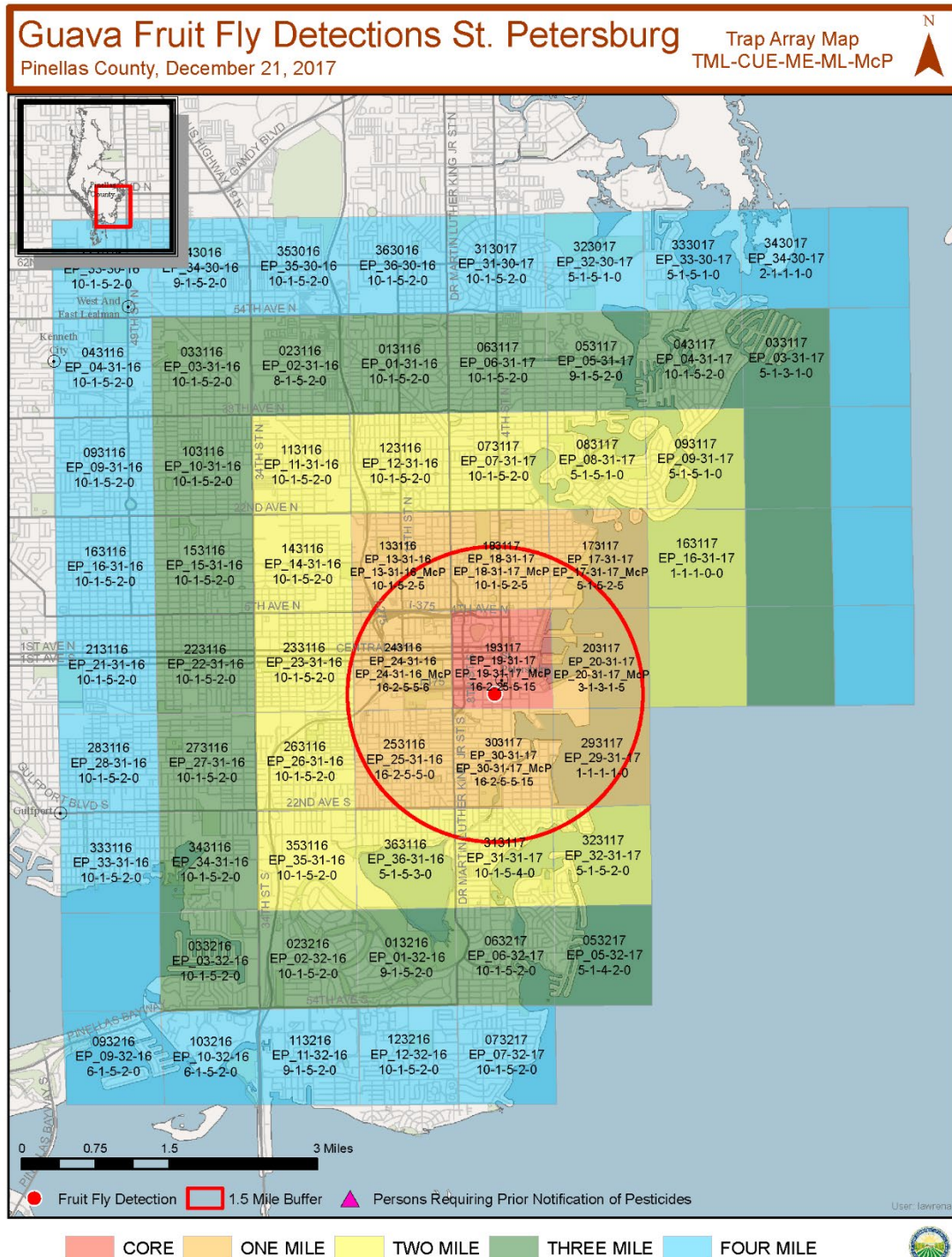
WESTON (*BACTROCERA DORSALIS*)

On Wednesday, July 26th, 2017 one male *Bactrocera dorsalis*, Oriental fruit fly was found in a Jackson trap baited with the male attractant methyl eugenol (ME) that was placed in a sea grape tree at the residence of 201 Racquet Club Road, Weston, Florida 33326. This detection was in a residential area with condominiums and a Hyatt hotel across the street. Dooryard hosts in the area included avocado, cattley guava, java plum and mango. There were no production areas in the delimitation zone. Some ornamental nurseries were located about 5-6 miles south of the detection. 272 Methyl Eugenol (ME) and 50 McPhail traps had been placed and serviced. No suspect flies were found, concluding the delimitation on 09/21/2017.



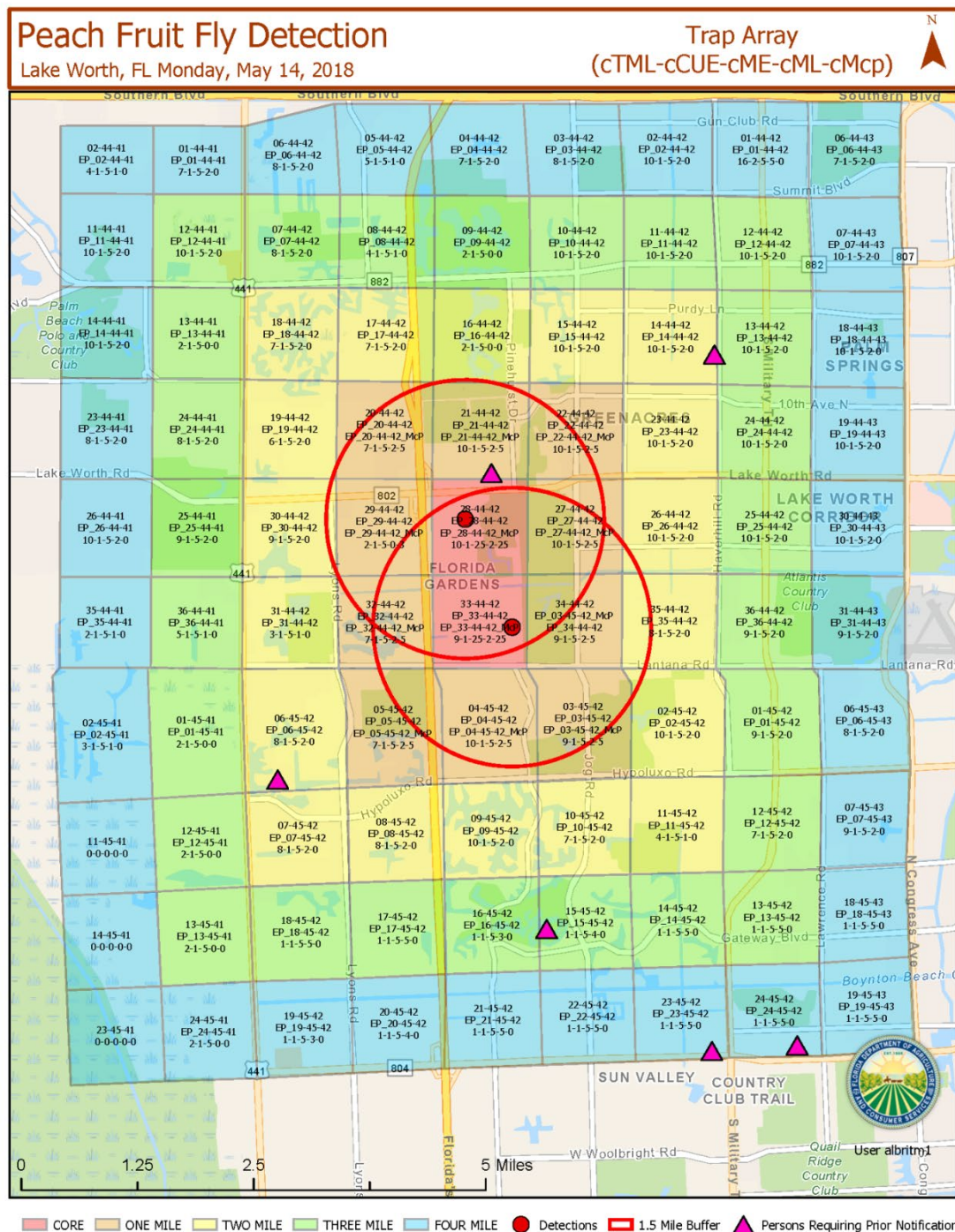
ST PETERSBURG (*BACTROCERA DORSALIS*)

On Tuesday, December 19th, 2017, one male Guava fruit fly, *Bactrocera correcta*, was detected in a Jackson Trap baited with the male attractant methyl eugenol (ME) that was placed in an oak tree at the address of 501 61h Ave S., St. Petersburg, Florida. This detection was in an industrial area: Johns Hopkins, All Children's Hospital, Bayfront Medical Center, USF St. Petersburg Campus, Tropicana Field, Albert Whitted Airport, and Port of St. Petersburg were in the vicinity. 293 Methyl Eugenol (ME) and 60 McPhail traps had been placed and serviced. No suspect flies were found, concluding the delimitation on 04/12/2018.



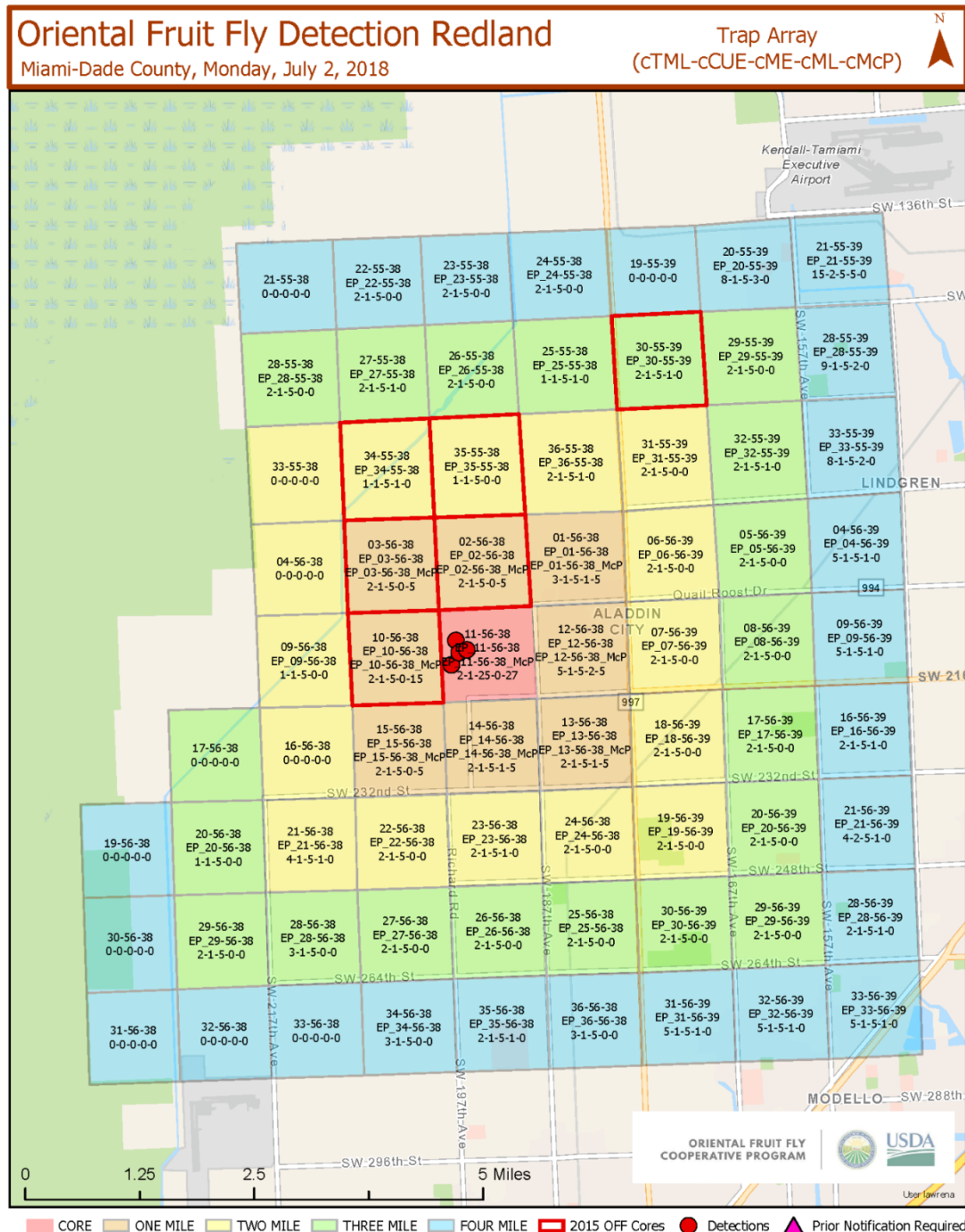
LAKE WORTH (BACTROCERA ZONATA)

On Wednesday, May 9, 2018 one male *Bactrocera zonata*, peach fruit fly was found in a Jackson trap baited with the male attractant methyl eugenol (ME) that was placed in a jackfruit tree at the residence at 5418 Fearnley Road Lake Worth, Florida. 471. On Thursday, May 10, 2018 one male *Bactrocera zonata*, peach fruit fly was detected in a Jackson trap baited with the male attractant methyl eugenol (ME) that was placed in a sapodilla tree at the residence of 87 Dayton Road, Lake Worth, Florida. This program encompassed 87 square miles in a heavily urbanized area with several golf courses and some tropical fruit tree nurseries located close to the detections. The approximate distance between the two detections was 1.3 miles. The incident is ongoing with trapping measures in place and will continue into the next fiscal year.



REDLAND (*BACTROCERA DORSALIS*)

On June 1st, 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. There have been 49 locations inspected for larvae, 17 different hosts inspected for larvae, 1888 fruit cut and no target larvae found. There have been 6,101MAT (Male Annihilation Technique) treatments. The incident is ongoing with control and trapping measures in place, continuing into the next fiscal year.



APIARY INSPECTION



2017-2018 Florida Registered Beekeepers 4,982

2016-2017 Florida Registered Beekeepers 4,622

2015-2016 Florida Registered Beekeepers 4,180

2017-2018

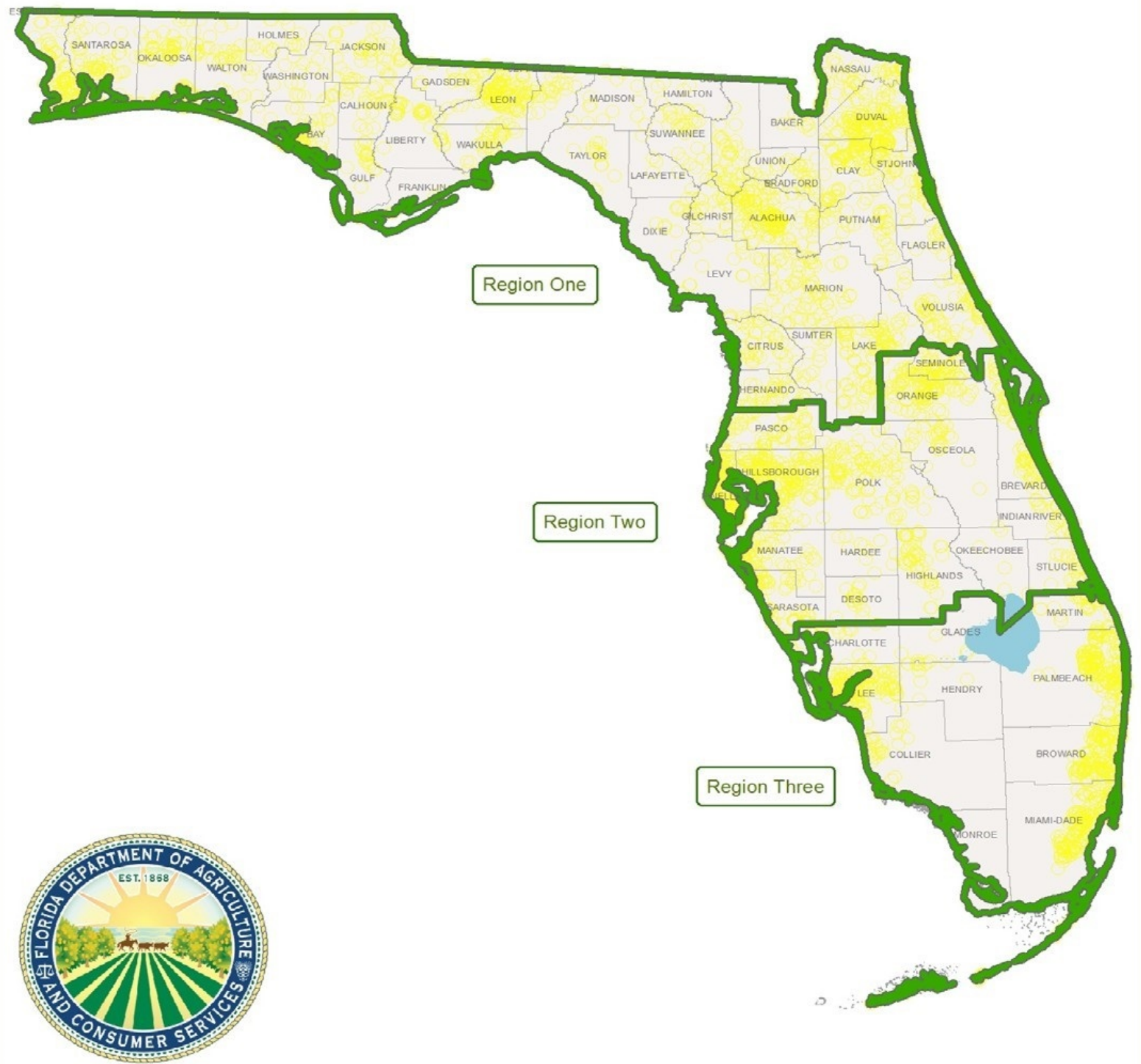
Certified Honey Bee Colonies Certified 613,520

Certified Colonies Transported Out of State 440,519

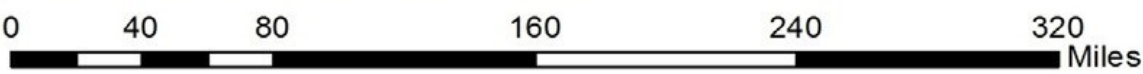
Number of States to which Bees are shipped 32



Florida Apiaries



 Plant Inspection Regions  Apiaries



COMMERCIAL BEEKEEPING

The Commercial Professional Apiculture (Beekeeping) Industry has for the short term adapted to:

- **Colony Collapse Disorder (CCD)/Significant unanticipated honey bee colony losses. Honey bee total colony losses over the 2017-2018 winter were dropped to 44%. Over the previous three years; winter loss survey data collected indicates an average 24% loss. This is a stressful business model.**
At this time honey bee biology and astute beekeepers can replace these losses temporarily. Beekeepers have found that keeping strong healthy colonies alive is easier than trying to play catch-up with weak colonies.
- Varroa mites (invasive/Asia) a robust external parasite of honey bees and as a vector of viral infections continue to negatively impact honey bee colony health. Chemical treatments can temporarily reduce Varroa populations, but create collateral damage.
- In the broadest sense, killing a small bug (Varroa) on a big bug (honey bee) is extremely difficult if not impossible without damaging sub-lethally the big bug (honey bee). A new section 3 has been issued for Apivar® mite treatment strips for the control of varroa mites. Commercial Beekeepers are finding it harder to control the Varroa with the treatments available to them Apivar® has been a lifesaver for the beekeeping industry. A section 18 has also been issued for Hops Guard® II giving the beekeepers another tool in the war against varroa mites.
- Nosema spp. is a microsporidian digestive tract system destroyer. Historically Nosema apis was known and consistently controllable by beekeepers. The newly found Nosema Ceranae (invasive/Asia) are not as responsive to control measures. Beekeepers in the south are seeing more colonies lose in the summer months thought to be from Nosema Ceranae.

The price of honey has hit an all time record high price this year making beekeepers expand their operations to help increase the production of honey even with a 1/3 of a crop they are making a substantial increase in income. Wholesale honey prices;

light honey \$2.25 – 3.00, **medium** \$2.00– 2.70, **dark** \$1.85 – 2.50 **Tupelo** \$3.85 – 5.00+



RECREATIONAL BEEKEEPING

As noted in the opening figures, the interest in honey bees and beekeeping has increased remarkably over the last several years. Local and regional beekeeper associations have multiplied from 5 local associations throughout the state to over 35. The Apiary Section's regulatory services and its educational outreach training have increased in parallel with new beekeeper registrations. With the signing of the new Honey Bee law allowing beekeeping in back yards under FDACS

POLLINATION, FEE BASED MODEL

Florida's leadership in fruit, vegetable, and berry production is dependent on managed honey bee pollination. Without a vital, active, and healthy managed honey bee industry, the production of strawberries, blueberries, watermelons (even seedless), citrus, avocado, lychee, cucumbers, squash, and a host of other agriculturally important products would suffer. Additionally think of all the fruits, nuts, seeds, and berries that support Florida's environment and wildlife that honey bees are responsible for by incidental pollination.

Florida has 4,929 registered beekeepers consisting of:

- 4,191 Backyard Beekeepers (1 - 40 colonies)
- 233 sideliners (41 – 100 colonies)
- 505 commercial beekeepers (101 + colonies)

The state of Florida serves as a honey bee nursery for colonies from 32 States during the months starting July through March. Colony losses over the summer migratory pollination season are addressed by dividing the remaining live honey bee colonies to make up losses. This is an intense management time for commercial migratory beekeepers preparing for the next fee based pollination season. Without this market, the commercial industry would shrink significantly. After finishing almond pollination in California in early March beekeepers may travel to Washington or Oregon for fruit pollination or back to Florida to solidify colony numbers for the following Spring, and/or to catch the additional honey flows Florida offer; Citrus, Palmetto, Galberry, Mangrove and Brazilian Pepper and many other ornamental and wild flower. As spring progress north so do the beekeepers; blueberries, strawberries, apples, peaches, cranberries, pumpkins, cucumbers and cherries are awaiting pollination from Florida to Maine.

Beekeepers and their honey bee colonies still alive after the summer season return to Florida in late July to repeat the cycle if they have the critical mass and resources.

APIARY RESEARCH ACTIVITIES

Collaborating with the University of Florida/Institute of Food and Agriculture Sciences (UF/IFAS)

- Field testing legal mite treatments to compare efficacy and with a goal to improve the Varroa control product in the challenging heat and humidity of Florida and reducing residues
- Mitigating the impact of African honey bees: determining how managed European honey bee colonies affect drone congregation areas
- Assessment of honey bee pathogens in the *Apis mellifera* and non-*Apis* pollinator communities in North Central Florida

