

BUREAU OF PLANT & APIARY INSPECTION

Tyson R. Emery | Bureau Chief



ANNUAL REPORT DIVISION OF PLANT INDUSTRY

Dr. Trevor Smith, Director

JULY 1, 2020 – JUNE 30, 2021

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

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BUREAU OF PLANT AND APIARY INSPECTION

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Connie Lindsay	Fiscal Assistant	Gainesville
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Joey Hawk	Environmental Specialist III	Palmetto

REGION I

Christine Zamora

Environmental Supervisor II

Gainesville

Lucy Furnas

Administrative Secretary

Gainesville

REGION I - AREA I

Kelly Douglas

Environmental Supervisor I

Gainesville

Ethan Kelly

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

Austin Hawes

Environmental Specialist I

Panama City

Vacant

Environmental Specialist I

Gainesville

Brian Alford

Environmental Specialist II

Gainesville

REGION I - AREA II

Abby Bartlett

Environmental Supervisor I

Tavares

Stephen Jenner

Environmental Specialist I

Inverness

Jimmy Hernandez

Environmental Specialist I

Tavares

Harry Morrison

Environmental Specialist I

Tavares

Mary Sellers

Environmental Specialist I

Tavares

Nora Marquez	Environmental Specialist I	Tavares
Vacant	Agricultural Technician II	Tavares
River Martin	Agricultural Technician II	Tavares
VACANT	Agricultural Technician II	Inverness

REGION I - AREA III

Ray Jarrett	Environmental Supervisor I	Tavares
Mark Laurint	Environmental Specialist I	Jacksonville
Lisa Tyler	Environmental Specialist I	Jacksonville
David Brown	Environmental Specialist I	Port Orange
Laura Ureta	Environmental Specialist I	Deland
Daniel McColl	Environmental Specialist I	Port Orange
VACANT	Environmental Specialist I	Port Orange
Connor Kuppe	Environmental Specialist I	Port Orange
Deann Hansen	Agricultural Technician II	Tavares

REGION II

Serena Stornaiuolo

Environmental Supervisor II

Apopka

Vacant

Administrative Secretary

Apopka

REGION II - AREA I

Anthony Puppelo

Environmental Supervisor I

Apopka

George A. Warden

Environmental Specialist I

Apopka

Lance A. Brown

Environmental Specialist I

Apopka

Katherine Steinkamp

Environmental Specialist I

Apopka

Kelsey Pitchford

Environmental Specialist I

Apopka

Jesse M. Krok

Environmental Specialist I

Apopka

Kathy A. Gonzalez

Environmental Specialist I

Apopka

Vacant

Environmental Specialist I

Apopka

Sarah Desmarais

Environmental Specialist I

Apopka

Nina Vail

Agricultural Technician II

Apopka

Vacant

Agricultural Technician II

Apopka

REGION II - AREA II

Daniel Merced

Environmental Supervisor I

Dade City

Gary Webb

Environmental Specialist I

Dade City

Carrie Karppe

Environmental Specialist I

Dade City

Karen R. Destefano	Environmental Specialist I	Dade City
Shanelle Mulrooney	Environmental Specialist I	Dade City
Deanne Pelfry	Agricultural Technician II	Dade City
VACANT	Agricultural Technician II	Dade City

REGION II - AREA III

Richard A. White	Environmental Supervisor I	Clearwater
Vacant	Environmental Specialist I	Clearwater
Elizabeth Zuniga	Environmental Specialist I	Clearwater
Thomas S. Lastrapes	Environmental Specialist I	Clearwater
William J. Salway	Environmental Specialist I	Clearwater
Pamela Jones	Environmental Specialist I	Clearwater
Dante Gulla	Environmental Specialist I	Clearwater
Bobbe A. Rose	Environmental Specialist I	Clearwater
Calvin Snyder	Agricultural Technician II	Clearwater
Sammy Lee Campbell	Agricultural Technician II	Clearwater
Onanong Saengphaxay	Agricultural Technician II	Clearwater
Vacant	Agricultural Technician II	Clearwater

Linda McRay	Agricultural Technician II	Clearwater
Philayrach Khousakoun	Agricultural Technician II	Clearwater

REGION II - AREA IV

Carlos Averhoff-Chirino	Environmental Supervisor I	Ft. Pierce
Chase Groninger	Environmental Specialist I	Cocoa
Victoria Benjamin	Environmental Specialist I	Cocoa
Alexander Tasi	Environmental Specialist I	Vero Beach
Jeanie P. Frechette	Environmental Specialist I	Ft. Pierce
Harry Crocker	Environmental Specialist I	Vero Beach
Vacant	Environmental Specialist I	Vero Beach
Teresa Ortelli	Agricultural Technician II	Ft. Pierce

REGION II - AREA V

VACANT	Environmental Supervisor I	Clearwater
Colton Striker	Environmental Specialist I	Winter Haven
Scott D. Berryman	Environmental Specialist I	Avon Park

Vacant	Environmental Specialist I	Winter Haven
Jacob Bryan	Environmental Specialist I	Winter Haven
Richard T. Bloom	Environmental Specialist I	Avon Park
Sara Restrepo	Environmental Specialist II	Winter Haven
Keith Clanton	Environmental Specialist I	Avon Park
Calvin Snyder	Agricultural Technician II	Clearwater

REGION II - AREA VI

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
Vacant	Environmental Specialist I	Palmetto
Mary Williams	Agricultural Technician II	Palmetto
Brandon Bressler	Agricultural Technician II	Palmetto
Patricia A. Bussell	Agricultural Technician II	Palmetto

REGION II - AREA VII

Howard L. Wallace	Environmental Supervisor I	Tampa
Ricardo Areingdale	Environmental Specialist I	Tampa
Wangze Yu	Environmental Specialist I	Tampa

Christina Coulton	Environmental Specialist I	Tampa
Sarah Neglia	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
Vacant	Agricultural Technician II	Tampa
Vacant	Agricultural Technician II	Tampa

REGION III

Charlie Gonzalez	Environmental Supervisor II	Miami
Elsie Aviles	Administrative Secretary	Miami

REGION III - AREA I

Matt Miller	Environmental Supervisor I	W. Palm Beach
LeAnn M. West	Environmental Specialist I	Ft. Pierce
Vacant	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
Carlene Sargeant	Environmental Specialist I	Delray Beach
Juan Pinares	Environmental Specialist I	Delray Beach
Clarence Parkes	Environmental Specialist I	Delray Beach

REGION III - AREA II

Richard Tordi	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

Keith Zugar	Environmental Specialist I	Davie
Cristina Urbina	Environmental Specialist I	Davie
Heathcliff Gracia	Environmental Specialist I	Davie
Lane M. Smith	Environmental Specialist I	Delray Beach
Vacant	Agricultural Technician II	Davie

REGION III - AREA III

Juan Aleman-Martinez	Environmental Supervisor I	Miami Lakes
Rebecca Sanders	Environmental Specialist I	Miami Lakes
Yarosky Castillo	Environmental Specialist I	Miami Lakes
Rosie Dulzaides	Environmental Specialist I	Miami Lakes
Leicet Diaz Varona	Environmental Specialist I	Miami Lakes
Liliana Jerez	Environmental Specialist I	Miami Lakes
Vacant	Agricultural Technician II	Miami Lakes
Elena Kej	Agricultural Technician II	Miami Lakes
Chantelle Vloria	Agricultural Technician II	Miami Lakes
Miguel Hernandez	Agricultural Technician II	Miami Lakes

REGION III - AREA IV

RosaMaria Quinones	Environmental Supervisor I	Coral Gables
Ciro Milian	Environmental Specialist I	Coral Gables
Alexis McNeer	Environmental Specialist I	Florida City
Juan Menendez	Environmental Specialist I	Miami
Nouredine Garami	Environmental Specialist I	Florida City
Suhayla Carrasquilla	Environmental Specialist I	Coral Gables
Sean Brown	Agricultural Technician II	Coral Gables
David Buzzi	Agricultural Technician II	Coral Gables

REGION III - AREA V

Matthew W. Brodie	Environmental Supervisor I	Naples
Walter W. Golden	Environmental Specialist I	Fort Myers
Vacant	Environmental Specialist I	LaBelle
Scott D. Krueger	Environmental Specialist I	Naples
Richard L. Blaney	Environmental Specialist I	Fort Myers
Mary E. Graham	Environmental Specialist I	LaBelle
Vacant	Environmental Specialist I	Naples
Vacant	Environmental Specialist I	Naples
Emily Safran	Environmental Specialist I	Naples
Edward A. Ziegler	Agricultural Technician II	Naples

REGION III - AREA VI

Haydee I. Escobar	Environmental Supervisor I	Coral Gables
Renan Espino Martinez	Environmental Specialist I	Coral Gables
Yenia Perez-Acevedo	Environmental Specialist I	Coral Gables
Narciso Rodriguez Medina	Environmental Specialist I	Coral Gables
Hanoy Carmenate	Environmental Specialist I	Coral Gables
Danilo Pelegrin	Agricultural Technician II	Coral Gables
Gloria Gonzalez	Agricultural Technician II	Coral Gables
Cynthia Morales	Agricultural Technician II	Coral Gables
Nubia Tapias	Agricultural Technician II	Coral Gables

REGION III - AREA VII

John M. Piontek	Environmental Supervisor I	Davie
Frank Burgos	Environmental Specialist I	Davie
Roger Blanco	Environmental Specialist I	Florida City
Eric Rojas	Environmental Specialist I	Florida City
Juan Carlos Ochoa	Environmental Specialist I	Delray Beach
Holly Jarboe	Environmental Specialist I	Delray Beach
David Wolfe	Environmental Specialist I	La Belle
Ramon Reschop	Environmental Specialist I	Miami Lakes

APIARY

Brandi Stanford	Assistant Chief, Apiary Inspection	Gainesville
Jose Gill Sanabria	Agriculture & Consumer Protection Supervisor	Gainesville
Jimmy Davis	Agriculture & Consumer Protection Specialist	Crestview
Jeff Pippin	Agriculture & Consumer Protection Specialist	Bristol
Stephen Cutts	Agriculture & Consumer Protection Specialist	Trenton
Rob Horsburgh	Agriculture & Consumer Protection Specialist	Jacksonville
Timmi Finnerty	Agriculture & Consumer Protection Supervisor	Ft. Pierce
Tommy Rosario	Agriculture & Consumer Protection Specialist	Florida City
Erin Jenkins	Agriculture & Consumer Protection Specialist	Ft. Pierce
Lisa Reynes	Agriculture & Consumer Protection Specialist	Tavares
Glenn Barnett	Agriculture & Consumer Protection Specialist	Winter Haven
Becky Dineen	Agriculture & Consumer Protection Specialist	Clearwater
Christopher Alonso	Agriculture & Consumer Protection Specialist	Labelle

CARIBBEAN 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	Agricultural Technician II	Labelle
VACANT	Agriculture & Consumer Protection Supervisor	Ft. Pierce
William S. Blatch	Agricultural Technician III	Ft. Pierce
Ray D. Jordan	Agricultural Technician III	Ft. Pierce
Steven Rish	Agricultural 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
VACANT	Agriculture & Consumer Protection Inspector	Vero Beach
Tracy Reyes	Agricultural Technician III	Vero Beach
Jessica Lott	Agricultural Technician II	Vero Beach
Ashley Pickett	Agricultural Technician II	Winter Haven

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
Tirzah Hedman	Agriculture & Consumer Protection Specialist	Miami
Ernesto Alvarado	Agriculture Technician II	Miami
Carlos Cambana	Agriculture Technician II	Miami
Ernesto Alvarado	Agriculture Technician II	Miami
Daniel Nunez	Agriculture Technician II	Miami
Lizjanet Orejon	Agriculture Technician II	Miami
Andy Mella	Agriculture Technician II	Miami
Carolina Reece	Agriculture & Consumer Protection Specialist	Miami
Reinaldo Casanas	Agriculture Technician II	Miami
Carlos Aguilera	Agriculture Technician II	Miami
Tina Porter	Agriculture Technician II	Miami
David Ortiz	Agriculture Technician II	Miami
Robert Shim	Agriculture Technician II	Miami
Travis Thurmond	Agriculture Technician II	Miami

DOG DETECTOR 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
Lorena Dewitz	Environmental Specialist II	Miami
Nichole Bushue	Environmental Specialist II	Miami

INTERDICTION STATION

Dyrana Russell	Biological Scientist IV	White Springs
Logan Cutts	Environmental Specialist I	White Springs
Eric Dougherty	Environmental Specialist I	Milton
Milton Lara	Agriculture & Consumer Protection Inspector	Jacksonville
Jakira Davis	Agriculture & Consumer Protection Inspector	Milton
Ryan Brown	Agriculture & Consumer Protection Inspector	White Springs

NURSERIES



24,112
INSPECTIONS ON
9,554
NURSERY LOCATIONS



186
HOLD ORDER AND
QUARANTINE NOTICES



995
NEW NURSERIES
REGISTERED

1,175
TOTAL LOCATIONS

FDACS' Environmental Specialists made 24,112 inspections on 9,554 nursery locations during the 2020-21 season. One hundred eighty-six (186) 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 was received.

During this period, 995 new nurseries were registered with a total of 1,175 locations.

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.

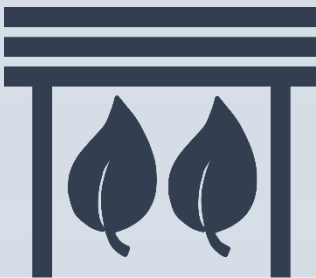
STOCK DEALERS



4,381
INSPECTIONS ON
9,110
STOCK DEALER
LOCATIONS



50
HOLD ORDER AND
QUARANTINE NOTICES



297
NEW STOCK DEALERS
REGISTERED

414
TOTAL LOCATIONS

FDACS' Environmental Specialists made 4,381 inspections on 9,110 stock dealer locations during the 2020-21 season. Fifty (50) 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.

During this period, 297 new Stock dealers were registered with a total of 414 locations.

PLANTS AND NURSERIES UNDER INSPECTION BY COUNTY

COUNTY	TOTAL NURSERY LOCATIONS	TOTAL ACRES	TOTAL PLANTS
ALACHUA	224	937.81	4,113,640
BAKER	28	98.72	62,305
BAY	14	1,203.31	9,620
BRADFORD	19	13.02	29,816
BREVARD	260	1,185.84	655,045
BROWARD	501	720.70	2,603,849
CALHOUN	7	811.71	2,648,957
CHARLOTTE	75	569.57	403,662
CITRUS	89	801.13	292,626
CLAY	39	55	407,373
COLLIER	204	724.51	112,907,301
COLUMBIA	51	297.47	1,850,969
DESOTO	44	728.64	2,411,366
DIXIE	21	163.36	5,462
DUVAL	110	530.59	203,637
ESCAMBIA	48	29.68	3,742,352
FLAGLER	28	865.32	1,384,004
FRANKLIN	2	0.35	2,260
GADSDEN	22	398.18	11,453,774
GILCHRIST	35	123.82	587,736
GLADES	41	2,879	800,428
GULF	8	1.76	5,137
HAMILTON	12	113.62	51,022
HARDEE	46	1,204.25	5,755,053
HENDRY	59	645.35	1,804,760
HERNANDO	95	769.12	453,755
HIGHLANDS	128	1,782.34	5,626,056
HILLSBOROUGH	493	1,835.96	17,311,895
HOLMES	12	1.96	6,079
INDIAN RIVER	97	1,020.14	298,707
JACKSON	23	14.91	45948
JEFFERSON	34	194.18	2,326,051
LAFAYETTE	9	178.11	6,525,551
LAKE	311	3,549.85	41,903,135
LEE	392	2,458.68	3,493,897
LEON	63	46.94	115,178

COUNTY	TOTAL NURSERY LOCATIONS	TOTAL ACRES	TOTAL PLANTS
LEVY	78	1,130.36	9,958,853
LIBERTY	3	0.36	4,412
MADISON	16	215.17	25,603,958
MANATEE	166	631.28	305,165,016
MARION	189	871.1	1,199,379
MARTIN	177	2,065.09	10,760,904
MIAMI-DADE	2342	22,927.2	143,229,876
MONROE	37	21.6	48,310
NASSAU	20	127.89	15,785
OKALOOSA	19	6.33	9,673
OKEECHOBEE	46	2,864.65	214,797
ORANGE	427	2,636.23	45,820,243
OSCEOLA	77	345.02	1,662,855
PALM BEACH	563	2,357.93	19,870,752
PASCO	166	124.06	920,575
PINELLAS	219	62.18	204,948
POLK	302	710.36	8195,571
PUTNAM	53	339.72	266,711
SANTA ROSA	50	455.47	4,931,383
SARASOTA	120	136.25	4,181,867
SEMINOLE	187	1,212.78	1,424,426
ST. JOHNS	62	245.13	134,265
ST. LUCIE	80	1,405.52	767,506
SUMTER	80	1,000.47	4,9749,222
SUWANNEE	67	777.351	11,927,786
TAYLOR	13	24.63	167,667
UNION	5	70.12	4,231
VOLUSIA	293	2,647.37	3,321,501
WAKULLA	12	12.11	5,518,950
WALTON	23	55.87	11,813
WASHINGTON	12	42.97	104,392

IMPORT 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, 2021, there were 1,339 nursery and stock dealer locations under compliance agreement for Imported Fire Ant certification purposes. During this period, plant inspection personnel spent 5,262 hours associated with IFA activities.



1,339

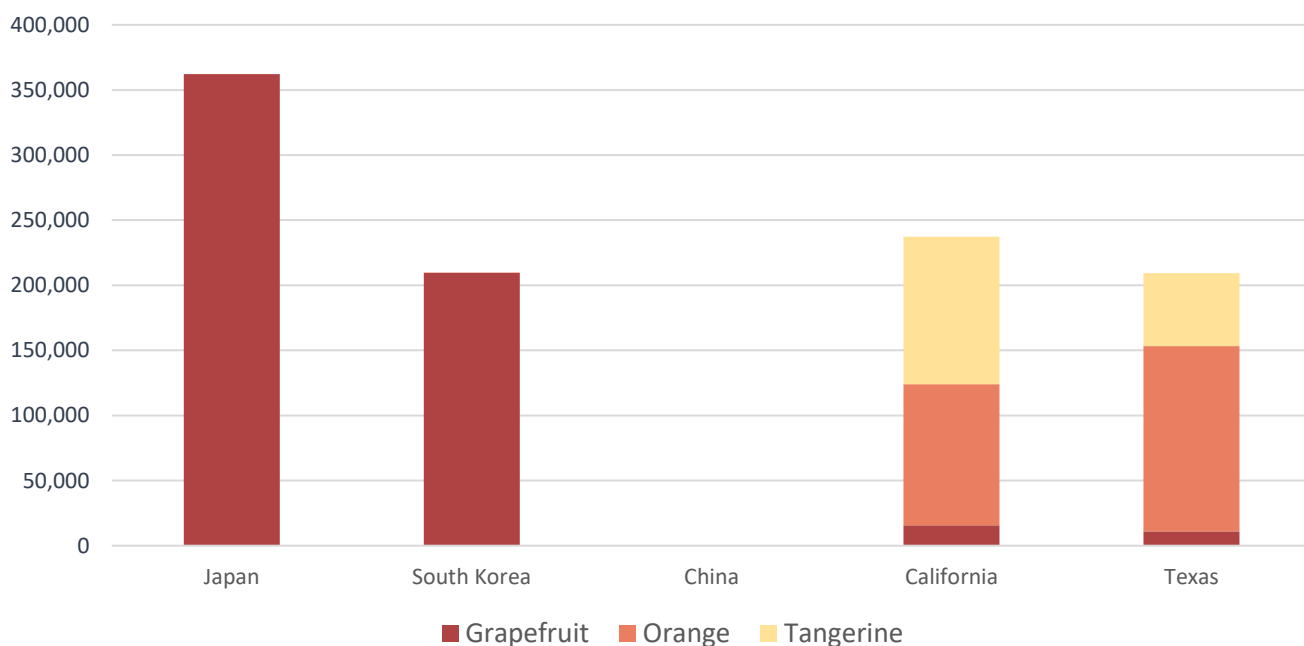
NURSERY AND STOCK DEALER
CERTIFIED LOCATIONS



CARIBBEAN FRUIT FLY PROTOCOL PROGRAM

TOTAL PROTOCOL CITRUS SHIPPED 2020-2021

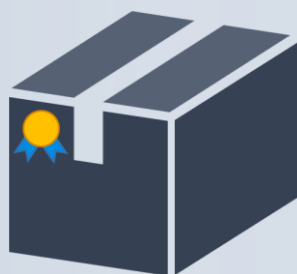
	Japan	South Korea	China	California	Texas
Grapefruit	362,097	209,597	0	15,734	10,866
Orange	0	234	0	108,240	142,308
Tangerine	0	0	0	113,275	56,091
Totals	362,097	209,831	0	237,249	209,265



During the 2020-2021 season there were 16,920 acres certified under CFFPP which produced 1,018,442 certified cartons shipped under the program. A total of 571,928 cartons were exported to Japan and South Korea. Domestically 446,514 cartons were shipped to California and Texas.



16,920
ACRES
CERTIFIED



1,018,442
CERTIFIED CARTONS
SHIPPED



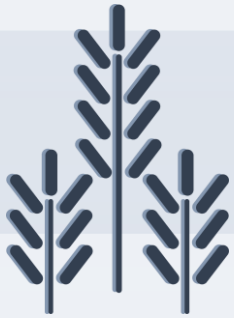
Personnel dedicated 39,479 hours to the Protocol Program during the 2020-21 season.

During the Fiscal Year 2020-2021, CFFPP personnel conducted the following number of inspections:

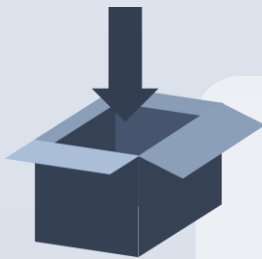
- Fruit Fly trap services: 11,088
- Harvesting inspections: 3,360
- Packing house inspections: 559
- Acreage surveyed for preferred hosts: 197,783



11,088
FRUIT FLY TRAP SERVICES



3,360
HARVESTING INSPECTIONS



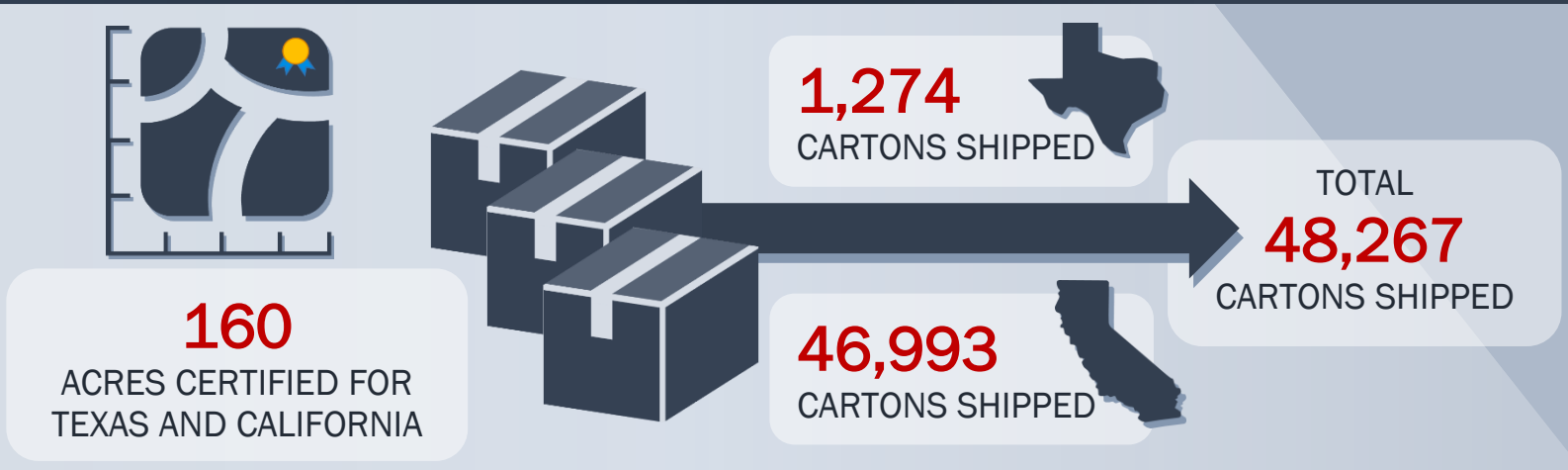
559
PACKING
HOUSE
INSPECTIONS

197,783

ACREAGE
SURVEYED



CARAMBOLA



During the 2020-2021 season there were 160 acres certified for Texas and California. There were 1,274 cartons shipped to Texas and 46,993 shipped to California for a total of 48,267 cartons.

During the fiscal year 2020-2021, CFFPP personnel conducted the following number of inspections:

- Fruit fly trap services: 524
- Packing house inspections: 29
- Harvesting inspections: 119
- Acreage surveyed for preferred hosts: 2090



PEACHES

Although there was some acreage trapped, there were still problems involved this year and there were many difficulties to establish a temporary packinghouse, with Covid-19 adding even more difficulties. The peach harvest was instead sent directly to be packed at the South Carolina packinghouse and distributed directly from there to states not requiring fruit to follow protocol guidelines.

IMPORT INSPECTIONS

27



POST ENTRY QUARANTINES



44

FIREWOOD
INSPECTIONS

90

CUT FLOWER
IMPORT INSPECTIONS



134

DISTRIBUTION
CENTER INSPECTIONS

324

DOMESTIC PLANT
MATERIAL INSPECTIONS



286

IMPORTED FOREIGN PLANT
MATERIAL INSPECTIONS

186

PRODUCE INSPECTIONS



95

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

During the fiscal year 2020-2021 the following inspections were completed:

- 27 post entry quarantines
- 44 firewood inspections
- 90 cut flower import inspections
- 134 Distribution center inspections
- 324 domestic plant material inspections
- 286 imported foreign plant material inspections
- 186 produce inspections
- 95 craft store inspections

NON-PROHIBITED AQUATIC PLANT HARVESTING PERMITS

1
AQUATIC HARVESTING
PERMITS



30
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, 2020 to June 30, 2021, the division issued one aquatic harvesting permits. The division currently has 30 active nurseries under compliance.

ENDANGERED HARVESTING PLANT PERMITS

73
PERMITS ISSUED



1,532
PERMITS ISSUED FOR
HARVEST OF SAW
PALMETTO BERRIES

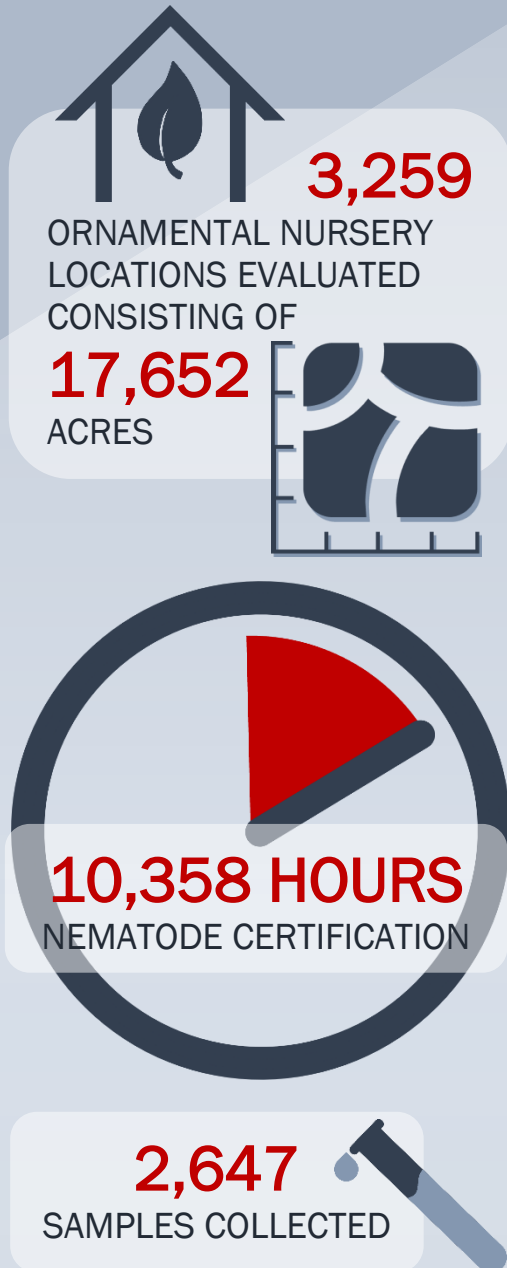
Harvesting Endangered and Commercially Exploited plants requires individuals to have a permit issued by the Division of Plant Industry. During the fiscal year 2020-2021:

- 73 permits issued
- 1,532 permits issued for the harvest of saw palmetto berries

PEST DETECTION RECORDS

PEST RECORDS	ANTHROPODS/MOLLUSCA	DISEASES/NEMATODES
NEW HOST RECORD	42	23
NEW COUNTY RECORDS	175	27
NEW STATE RECORDS	8	8
NEW U.S. CONTINENTAL RECORDS	8	1

NEMATODE CERTIFICATION



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 2020-2021 Fiscal Year, nematode certification personnel evaluated 3,259 ornamental nursery locations consisting of 17,652 acres. During this reporting period, plant inspection personnel spent 10,358 hours related to nematode certification activities.

SAMPLES TAKEN

A total of 2,647 samples were collected and processed from citrus nurseries and ornamental nurseries for nematode certification during the 2020-2021 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 2020-2021, Plant Inspection personnel issued the following number of export certificates for plants and plant products destined to other states and countries.

- State Phytosanitary Certificates: 9,943 certificates
- Federal Phytosanitary Certificates: 12,788 certificates

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 129 nursery locations under compliance and inspectors have spent over 419 hours conducting audits and ensuring compliance with the program.

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 49 locations consisting of 2,535 acres in Florida. Inspectors spent over 420 hours certifying Florida blueberry farms for fresh fruit shipment to Canada.



9,943

STATE
PHYTOSANITARY
CERTIFICATES

12,788

FEDERAL
PHYTOSANITARY
CERTIFICATES



129

NURSERY LOCATIONS
UNDER COMPLIANCE



>419

HOURS

CONDUCTING
AUDITS AND
ENSURING
COMPLIANCE



49

ORNAMENTAL NURSERY
LOCATIONS CONSISTING OF

2,535

ACRES



>420

HOURS

CONDUCTING
AUDITS AND
ENSURING
COMPLIANCE



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, 168,538 snails have been collected on 719 properties in 32 core areas of infestation.

Eighteen (18) personnel are assigned to the GALS program in Miami-Dade County, Florida and two (2) canine handlers. Program activities include two core teams carrying out survey, control, regulatory and outreach in their assigned areas based on positive cores.

There were four virtual meetings with DPI and PPQ for Core/Z-grid (paper and field) audits for properties proposed for eradication declaration (Decommission).

- July 22, 2020: Core 29 reviewed and decommissioned
- September 23, 2020: Core 9 reviewed and decommissioned
- December 7-8, 2020: Core 2 and Core 31 reviewed and decommissioned
- May 18, 2021: Core 27 and 32 reviewed and decommissioned

Final review and decommission meeting set for September 20-24, 2021 for Cores 12, 28 and 30.



168,538

SNAILS COLLECTED ON

719

PROPERTIES



18

PERSONNEL ASSIGNED
TO GALS PROGRAM



2

CANINE HANDLERS
ASSIGNED TO GALS
PROGRAM



293,563

VISUAL INSPECTIONS



102,085

PROPERTIES BAIT TREATED



**>4 MILLION
POUNDS**

DEBRIS REMOVED



168,538

GALS COLLECTED



2,760

HELPLINE CONTACTS
RESOLVED



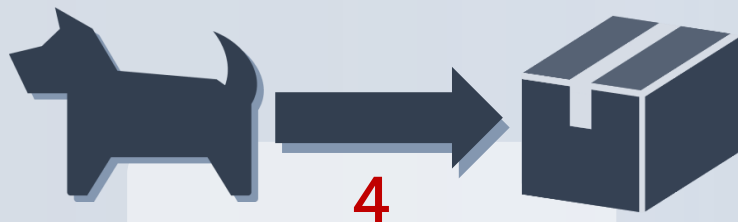
28

CORES DECOMMISSIONED

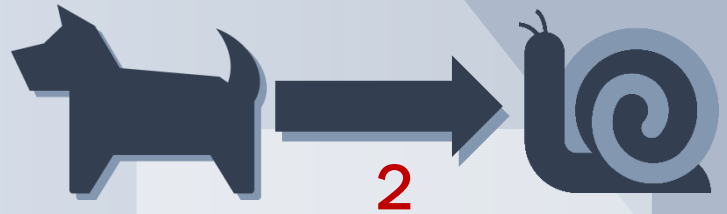
As of June 30, 2021, the following was completed by our survey and control teams:

- 293,563 core and non-core visual inspections
- 102,085 properties bait treated
- Over 4 million pounds of debris removed
- 168,538 GALS collected
- 2,760 helpline contacts resolved
- 28 cores decommissioned

DETECTOR DOG PROGRAM



CANINE TEAMS DEPLOYED
AT PARCEL FACILITIES

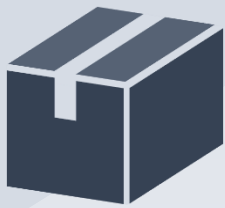


CANINE TEAMS POSITIONED
ON GALS ERADICATION

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 host material.

We currently have four canine teams deployed at parcel facilities, conducting inspections of packages for high-risk plants and plant products. Two teams are in Central Florida (Orlando & Tampa) and two teams are 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 and into the state of Florida. High-risk target fruit identified through canine alerts include citrus, guava, mango, papaya, and stone fruits including peaches, nectarines, cherries, plums and apricots.

We have two canine teams positioned on the GALS eradication program in Miami. The focus is to assist with early detection of live



PARCEL FACILITY OVER-VIEW

16,937

TOTAL ALERTS



878

TARGETS PLACED

92%

DETECTION
ACCURACY



GALS ACTIVITIES



1,253

PROPERTIES
INSPECTED

1,089

TARGETS
PLACED



98.6%

DETECTION
ACCURACY

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: 16,937
- Targets Placed: 878
- Detection Accuracy: 92%

Giant African Land Snail Activities:

- Properties Inspected: 1,253
- Targets Placed: 1,089
- Detection Accuracy: 98.6%

INTERDICTION STATIONS

We currently have one supervisor and five inspectors dedicated to survey in and around high-risk Agriculture Interdiction Stations on interstates and other roads that have the highest potential for exotic pest introduction and inspected plant material and agricultural products brought into Florida via tractor trailers and leased U-Haul-type trucks. These efforts were concentrated within or in the environs immediately surrounding the interdiction stations across North Florida. The objective of this survey was to detect foreign plant pests and pathogens or those with a very limited distribution in the United States by increased monitoring and encouraging enhanced compliance with federal and state plant and plant products interdiction station survey and inspections stations (I-10E/W, US 90, I-75 N/S, I-95 N/S) in Florida to significantly increase the inspection of incoming shipments of plants and plant products. Carriers were subject to targeted and random detailed inspections which were conducted in pull-over areas. Visual surveys of the immediate environs at these locations were also conducted.

- Vehicles: 4,672
- Samples: 508
- Live Exotic: 15 live exotic was intercepted 166 times
- Dead Exotic: 7 dead exotic was intercepted 66 times
- Refused Trucks: 42
- Confiscations: 33



4,672
VEHICLES

508

SAMPLES



7

DEAD EXOTIC
INTERCEPTED
66 TIMES



15
LIVE EXOTIC
INTERCEPTED
166 TIMES



33
CONFISCATIONS



42
REFUSED
TRUCKS

BACTROCERA DORSALIS ORIENTAL FRUIT FLY

On August 16, 2021, one male *Bactrocera dorsalis*, Oriental fruit fly was detected in a Jackson Trap baited with the male attractant methyl eugenol (ME) that was placed in an avocado tree at the address 987 Glen Lane, Casselberry, Florida triggering a need for delimit trapping in the area of Casselberry, Florida. 425 Methyl Eugenol (ME) and 65 McPhail traps were placed and serviced in the delimitation area. No suspect files were found concluding the delimitation on October 19, 2021.



MACROCHLAMYS INDICA, HORNTAIL SNAIL

On August 10, 2020, approximately 30 specimens were detected in Miami-Dade County, Coconut Grove. This detection was a result of a report by a citizen who alerted UF/IFAS and USDA in June of 2020. Samples were identified as *Macrochlamys indica*. This initial site was designated as Site MI#1. Two additional finds were also detected in Collier and Palm Beach counties. Efforts switched from eradication to nursery certification once it was determined it could not be eradicated from the area. Activities included the following:

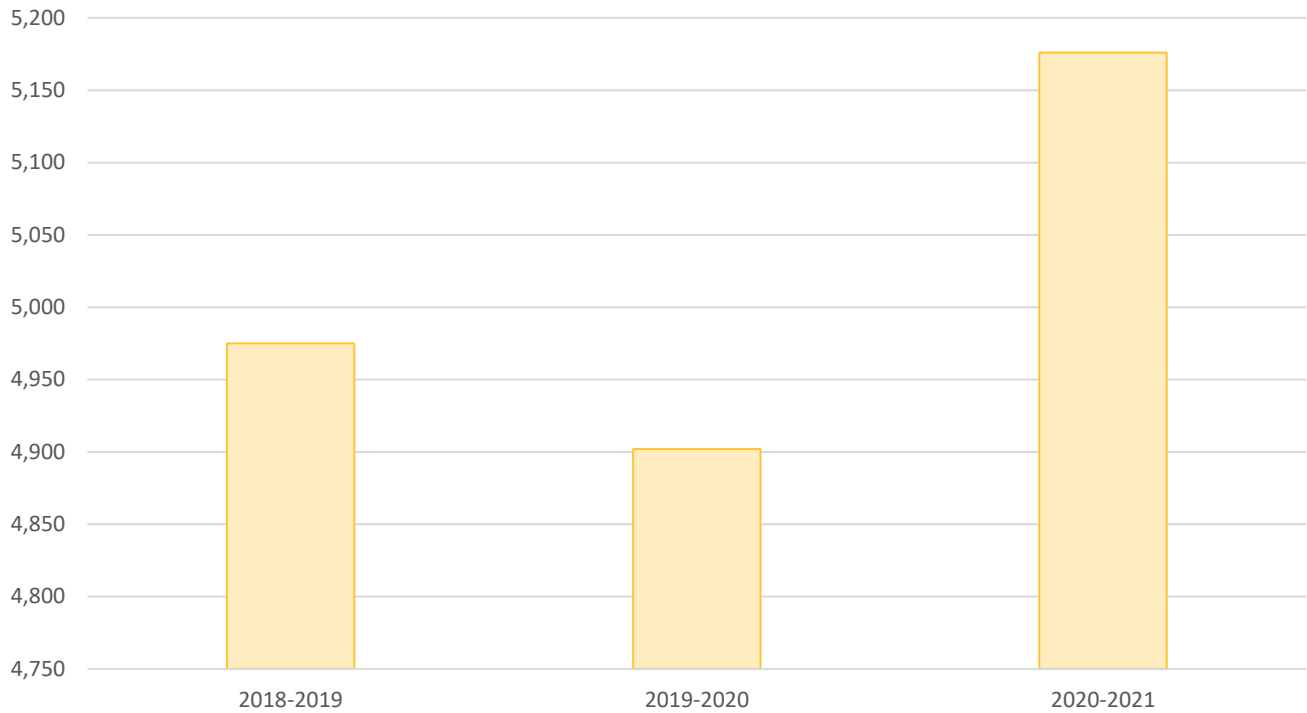
Activity	Program Total
Positive Residential Parcels	93
Positive Nursery Locations	24
Properties Surveyed K-9	268
Nursery Locations Surveyed	1,007
Total Treatments	700
Compliance Agreements Issued	1,920
Hold Order and Quarantine Issued	85
Live Snail Count	3,678
Dead Snail Count	1,423





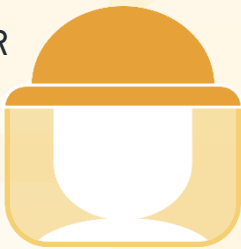
APIARY INSPECTION

FLORIDA REGISTERED BEEKEEPERS



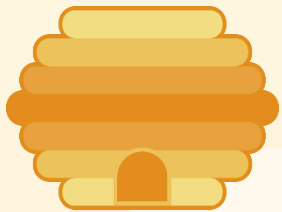
892

NEW BEEKEEPER
REGISTRATIONS



5,176

TOTAL BEEKEEPERS



480,839

COLONIES CERTIFIED



45%

BEEKEEPERS RECEIVED
ROUTINE INSPECTION

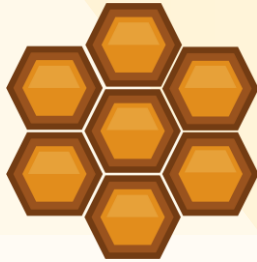
2020-2021 Florida Registered Beekeepers: 5,176
2019-2020 Florida Registered Beekeepers: 4,902
2018-2019 Florida Registered Beekeepers: 4,975

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 892 new beekeeper registrations processed during this season. This brought Florida's industry to 5,176 registered beekeepers. The Apiary Inspection section was operating at full staff during most of this season. Even still, due to the beekeeper to inspector ratios, we are unable to visit each beekeeper for an annual inspection. Approximately 45% of the registered beekeepers underwent a routine inspection during this season.

FDACS' Agriculture and Consumer Protection Specialists conducted 2,327 routine apiary inspections during the 20-21 season. There were 1,211 permits issued to ship loads of honeybees out of the state, consisting of 480,839 colonies total. There were 300 inspections completed to certify hives destined for California for almond pollination as "ant-free".



2,327
ROUTINE APIARY
INSPECTIONS



300
INSPECTIONS TO CERTIFY
ANT-FREE HIVES



1,211
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 2020-2021 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).

The apiary inspection team services 105 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.

