



**BUREAU OF PLANT & APIARY  
INSPECTION**

**ANNUAL REPORT**

**July 1, 2004 - June 30, 2005**

**Richard A. Clark, Chief**

**FLORIDA DEPARTMENT OF  
AGRICULTURE  
AND CONSUMER SERVICES**  
**Charles H. Bronson, Commissioner**

**DIVISION OF PLANT INDUSTRY**  
**Richard D. Gaskalla, Director**

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**BUREAU OF PLANT AND APIARY INSPECTION PERSONNEL**

Richard A. Clark	<b>Bureau Chief</b>	Gainesville
Betty L. Roberts	<b>Staff Assistant</b>	Gainesville
Donna Pons	<b>Fiscal Assistant I</b>	Gainesville
Daniel C. Phelps	<b>Asst Chief, Plant Inspection</b>	Gainesville
Daniel P. Hudson	<b>Senior Word Processing Sys Operator</b>	Gainesville
Bryan K. Benson	<b>Distributed Computer Sys Analyst</b>	Gainesville
Glenda J. Anderson	<b>Senior Word Processing Sys Operator</b>	Gainesville
Lettie M. Roberts	<b>Secretary Specialist</b>	Gainesville
Tyson R. Emery	<b>Environmental Specialist III</b>	Gainesville
Michelle Hajar	<b>Senior Clerk</b>	Gainesville
L. Wayne Clifton	<b>Environmental Specialist III</b>	Palmetto
	<b><u>REGION I</u></b>	
<b>Stephen A. Hildebrandt</b>	<b>Environmental Supervisor II</b>	Gainesville
Sheila McMahon	<b>Senior Clerk</b>	Gainesville
<b>Laura L. Ooms</b>	<b>Environmental Supervisor I</b>	Gainesville
William L. Robinson	<b>Environmental Specialist I</b>	Milton
Steve P. Beidler	<b>Environmental Specialist I</b>	Monticello
M. Janie Echols	<b>Environmental Specialist I</b>	Lake City
Christine A. Zamora	<b>Environmental Specialist I</b>	Gainesville
Vacant	<b>Environmental Specialist I</b>	Palatka
Larry W. Smith	<b>Environmental Specialist I</b>	Panama City
W. Wayne Bailey	<b>Environmental Specialist I</b>	Trenton
<b>Patrick R. Hamilton</b>	<b>Environmental Supervisor I</b>	Tavares
Floyd J. McHenry	<b>Environmental Specialist I</b>	Ocala
Robert W. Dudley	<b>Environmental Specialist I</b>	Inverness
Mary C. Sellers	<b>Environmental Specialist I</b>	Tavares
Harry L. Morrison	<b>Environmental Specialist I</b>	Tavares
Tom L. Phillips	<b>Environmental Specialist I</b>	Tavares
Charlie L. Spriggs	<b>Environmental Specialist I</b>	Tavares
Tommie R. Powers	<b>Environmental Specialist I</b>	Tavares
<b>Tracy L. Wright</b>	<b>Environmental Supervisor I</b>	Deland
Sol F. Looker	<b>Environmental Specialist I</b>	Jacksonville
Flewellyn W. Podris	<b>Environmental Specialist I</b>	Jacksonville
Stacey S. Simmons	<b>Environmental Specialist I</b>	Deland
Raymond C. Jarrett	<b>Environmental Specialist I</b>	Deland
Karen J. Wilson	<b>Environmental Specialist I</b>	Deland
Kevin S. Loadholtz	<b>Environmental Specialist I</b>	Deland
Jess V. Smith	<b>Environmental Specialist I</b>	Deland

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<b><u>REGION II</u></b>		
<b>Leo M. Sansoucy</b>	<b>Environmental Supervisor II</b>	Apopka
Lydia McKittrick	<b>Senior Clerk</b>	Apopka
<b>Serena Stornaiuolo</b>	<b>Environmental Supervisor I</b>	Apopka
George A. Warden	<b>Environmental Specialist I</b>	Apopka
Lance A. Brown	<b>Environmental Specialist I</b>	Apopka
Leslie J. Wilber	<b>Environmental Specialist I</b>	Apopka
Tirzah M. Lyons	<b>Environmental Specialist I</b>	Apopka
Jesse M. Krok	<b>Environmental Specialist I</b>	Apopka
Kathy A. Gonzalez	<b>Environmental Specialist I</b>	Apopka
Anthony Puppelo	<b>Environmental Specialist I</b>	Apopka
Ping Qiao	<b>Environmental Specialist I</b>	Apopka
<b>Helen A. Smith</b>	<b>Environmental Supervisor I</b>	Dade City
Daniel Merced	<b>Environmental Specialist I</b>	Dade City
Steve A. Bohnstedt	<b>Environmental Specialist I</b>	Winter Haven
Terrence D. Williams	<b>Environmental Specialist I</b>	Orlando
John P. Tice	<b>Environmental Specialist I</b>	Winter Haven
Charles A. Thornhill	<b>Environmental Specialist I</b>	Winter Haven
Paul R. Sasser	<b>Environmental Specialist I</b>	Dade City
Diana E. Bozeman	<b>Environmental Specialist I</b>	Dade City
<b>Ralph E. Muekeley</b>	<b>Environmental Supervisor I</b>	Clearwater
Alan R. Haynes	<b>Environmental Specialist I</b>	Clearwater
Thomas S. Lastrapes	<b>Environmental Specialist I</b>	Clearwater
Dave M. Mooney	<b>Environmental Specialist I</b>	Clearwater
Gabriella M. Bernard	<b>Environmental Specialist I</b>	Clearwater
Linda G. McRay	<b>Environmental Specialist I</b>	Clearwater
Ralph J. McNeill	<b>Environmental Specialist I</b>	Clearwater
Mark A. Spearman	<b>Environmental Specialist I</b>	Clearwater
<b>Christine J. Frere</b>	<b>Environmental Supervisor I</b>	Ft. Pierce
Richard T. Bloom	<b>Environmental Specialist I</b>	Avon Park
J. Brooks Shelley	<b>Environmental Specialist I</b>	Cocoa
Angelina M. Toral	<b>Environmental Specialist I</b>	Cocoa
Richard H. Stoll	<b>Environmental Specialist I</b>	Vero Beach
Dagne A. Vazquez	<b>Environmental Specialist I</b>	Ft. Pierce
Jim E. Bennett	<b>Environmental Specialist I</b>	Avon Park
Carrie S. Stone	<b>Environmental Specialist I</b>	Avon Park
<b>Amy R. Simington</b>	<b>Environmental Supervisor I</b>	Bradenton
Mark L. Runnals	<b>Environmental Specialist I</b>	Bradenton
Albert L. Wright	<b>Environmental Specialist I</b>	Bradenton

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Amber D. Messick	<b>Environmental Specialist I</b>	Sarasota
Karen L. Etchells	<b>Environmental Specialist I</b>	Bradenton
Richard F. Buettner	<b>Environmental Specialist I</b>	Sarasota
Ethel C. Hatfield	<b>Environmental Specialist I</b>	Bradenton
<b>Howard L. Wallace</b>	<b>Environmental Supervisor I</b>	Tampa
Jason B. Sharp	<b>Environmental Specialist I</b>	Tampa
Jim R. Martin	<b>Environmental Specialist I</b>	Tampa
Terri L. Gater	<b>Environmental Specialist I</b>	Tampa
Richard A. White	<b>Environmental Specialist I</b>	Tampa
Vacant	<b>Environmental Specialist I</b>	Tampa
James L. Anderson	<b>Environmental Specialist I</b>	Tampa
	<b><u>REGION III</u></b>	
<b>Louis T. Lodyga</b>	<b>Environmental Supervisor II</b>	Miami
Elsie Aviles	<b>Senior Clerk</b>	Miami
<b>Ray T. Buchholz</b>	<b>Environmental Supervisor I</b>	West Palm Beach
Jorge P. Gomez	<b>Environmental Specialist I</b>	Palm City
B. Marie Clark	<b>Environmental Specialist I</b>	West Palm Beach
Joao Tomaz DaFonseca	<b>Environmental Specialist I</b>	Bell Glade
Thomas S. Everett	<b>Environmental Specialist I</b>	West Palm Beach
LeAnn M. West	<b>Environmental Specialist I</b>	Palm City
James C. Lee	<b>Environmental Specialist I</b>	West Palm Beach
Michael L. Cartrett	<b>Environmental Specialist I</b>	Belle Glade
Lane M. Smith	<b>Environmental Specialist I</b>	Boynton Beach
Antonio I. Perez	<b>Environmental Specialist I</b>	Boynton Beach
Eduardo Solis	<b>Environmental Specialist I</b>	West Palm Beach
<b>Scott Shea</b>	<b>Environmental Supervisor I</b>	Pompano Beach
Sallie H. Simmons	<b>Environmental Specialist I</b>	Boynton Beach
Gregg D. Farina	<b>Environmental Specialist I</b>	Pompano Beach
J. Keith Harris	<b>Environmental Specialist I</b>	Pompano Beach
Nury M. Marrone	<b>Environmental Specialist I</b>	Davie
Rita J. Carpenter	<b>Environmental Specialist I</b>	Davie
William A. Thiel	<b>Environmental Specialist I</b>	Davie
Frank A. Burgos	<b>Environmental Specialist I</b>	Davie
Ellen J. Tannehill	<b>Environmental Specialist I</b>	Boynton Beach
Tom L. Salisbury	<b>Environmental Specialist I</b>	Boynton Beach
<b>Frederick J. Hubbard</b>	<b>Environmental Supervisor I</b>	Hialeah
Haydee I. Escobar	<b>Environmental Specialist I</b>	Hialeah
Olga Garcia	<b>Environmental Specialist I</b>	Hialeah
Rebecca Sanders	<b>Environmental Specialist I</b>	Hialeah
Raul Santillan	<b>Environmental Specialist I</b>	Miami

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Keith J. Richardson	Environmental Specialist I	Hialeah
Gwen H. Myers	Environmental Specialist I	Miami
Misael E. Igarza	Environmental Specialist I	Hialeah
<b>Eduardo T. Putland</b>	<b>Environmental Supervisor I</b>	Miami
Eduardo G. Camero	Environmental Specialist I	Miami
Maria C. Acosta	Environmental Specialist I	Miami
Mario J. Hernandez	Environmental Specialist I	Miami
Rosamaria M. Quinones	Environmental Specialist I	Miami
Duraid I. Hanna	Environmental Specialist I	Miami
Cheryl L. Lichkai	Environmental Specialist I	Florida City
Melba A. Otero	Environmental Specialist I	Miami
Lynn D. Howerton	Environmental Specialist I	Florida City
Ana L. Ochoa	Environmental Specialist I	Florida City
Karen W. LeBoutillier	Environmental Specialist I	Florida City
<b>Matt W. Brodie</b>	<b>Environmental Supervisor I</b>	Naples
Walter W. Golden	Environmental Specialist I	Ft. Myers
Lori A. Richards	Environmental Specialist I	Labelle
Scott D. Krueger	Environmental Specialist I	Naples
Alan J. Gambill	Environmental Specialist I	Ft. Myers
Leonora J. Coleman	Environmental Specialist I	Ft. Myers
Richard J. Nanneman	Environmental Specialist I	Naples
Richard L. Blaney	Environmental Specialist I	Ft. Myers
Jo Ann Pate	Environmental Specialist I	Labelle

**CITRUS TREE SURVEY**

<b>Warren J. Dowling</b>	<b>Environmental Supervisor II</b>	Dade City
Kathy D. Morgan	Environmental Specialist I	Palmetto
Ricky Kierce	Environmental Specialist I	Winter Haven
Lynn E. Zellers	Environmental Specialist I	Clermont
Craig J. Landress	Environmental Specialist I	Avon Park
Charles D. Wolfe	Environmental Specialist I	Dade City
Janet L. Young	Environmental Specialist I	Vero Beach

**APIARY INSPECTION**

<b>Gerald W. Hayes</b>	<b>Assistant Chief, Apiary Inspection</b>	Gainesville
Cathy A. Deweese	<b>Administrative Secretary</b>	Gainesville
Thomas B. Dowda	<b>Agriculture and Consumer Protection Supervisor</b>	Gainesville
Richard L. Dunaway	<b>Agriculture and Consumer Protection Supervisor</b>	Winter Haven
John L. Bastianelli	<b>Agriculture and Consumer Protection Specialist</b>	Sebring
Jerry A. Crews	<b>Agriculture and Consumer Protection Specialist</b>	Vero Beach

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Harry E. Grant	<b>Agriculture and Consumer Protection Specialist</b>	Palm City
D. Fred Howard	<b>Agriculture and Consumer Protection Specialist</b>	La Belle
Jeffrey D. Pippin	<b>Agriculture and Consumer Protection Specialist</b>	Bristol
William I. Langston	<b>Agriculture and Consumer Protection Specialist</b>	Bristol
David Westervelt	<b>Environmental Specialist I</b>	Tavares
Carl D. Corbin	<b>Agriculture and Consumer Protection Specialist</b>	Milton
Randall A. Dean	<b>Agriculture and Consumer Protection Specialist</b>	Dade City

**CARIBBEAN FRUIT FLY CERTIFICATION PROGRAM PERSONNEL**

Calie C. Jenkins	<b>Environmental Specialist III</b>	Ft. Pierce
Martin L. Weaver	<b>Certification Specialist</b>	Ft. Pierce
Marilyn W. Quigley	<b>Administrative Secretary</b>	Ft. Pierce
Barbara J. Scher	<b>Secretary Specialist</b>	Ft. Pierce
Raymond H. Warren	<b>Agriculture &amp; Consumer Protection Supervisor</b>	Ft. Pierce
Denise V. Marshall	<b>Agriculture &amp; Consumer Protection Supervisor</b>	Ft. Pierce
Joyce V. Willis	<b>Agriculture &amp; Consumer Protection Supervisor</b>	Labelle
Carol M. McKenzie	<b>Agriculture &amp; Consumer Protection Supervisor</b>	Vero Beach
April L. Williams	<b>Agriculture &amp; Consumer Protection Inspector</b>	Ft. Pierce
Junior Williams	<b>Agriculture &amp; Consumer Protection Inspector</b>	Ft. Pierce
Thomas C. Scoton	<b>Agriculture &amp; Consumer Protection Inspector</b>	Ft. Pierce
John W. Camp	<b>Agriculture &amp; Consumer Protection Inspector</b>	Ft. Pierce
W. Thomas McCollum	<b>Agriculture &amp; Consumer Protection Inspector</b>	Labelle
Ted A. Phillips	<b>Agriculture &amp; Consumer Protection Inspector</b>	Winter Haven
Carlos M. Averhoff	<b>Agriculture &amp; Consumer Protection Inspector</b>	Vero Beach
Toni A. Weaver	<b>Agricultural Technician III</b>	Ft. Pierce
Earnestine Grier	<b>Agricultural Technician III</b>	Ft. Pierce
Claudia M. Kennedy	<b>Agricultural Technician III</b>	Labelle
Thomas E. Wilkus	<b>Agricultural Technician III</b>	Vero Beach

## INTRODUCTION

The Bureau of Plant and Apiary Inspection is responsible for protecting Florida's agricultural industry and the public from the introduction and spread of serious plant and honeybee pests. This is accomplished by conducting regular inspections and surveys for the early detection of these pests. This bureau enforces Florida statutes and departmental rules pertaining to the movement of plants, plant products, honeybees, and honeybee products.

The bureau compiles an annual report following the close of each fiscal year. This report contains statistical information on Florida nurseries, nursery stock dealers, nursery stock, beekeepers, honeybee colonies, export certification, and other activities relating to the bureau's responsibilities.

This report is used as an organizational tool for planning bureau activities and budgetary needs. It is available to the public and the industry, and it provides frequently requested information concerning the plant and apiary industries in Florida.

The key word this year was trace-forward. Trace-forward inspections are required when it is believed or known that potentially infested or infected plant material has been sold to or shipped to locations within the state. Plant Inspection personnel had a challenging time keeping up with the routine nursery and stock dealer inspections as a result of participation in emergency programs, such as Citrus Canker, Sudden Oak Death and Soybean Rust. There were also several occasions requiring follow-up inspections (or trace-forward inspections) as a result of such pests and diseases like Pink Hibiscus Mealybug (8/3/05, 10/12/04, & 6/8/05), Sudden Oak Death (1/31/05 & 6/3/05), False Codling Moth (6/24/05), Citrus Canker and Cycad Scale.

## NURSERIES

The total number of active, registered nurseries reported under inspection for the 2004-2005 fiscal year was **7,876** compared to 7,879 active registered nurseries last year. Some nurseries have more than one location or block. With **1,745** additional locations or blocks, the total number of nursery blocks is **9,621**. This compares to last year's total of 9,565 nursery locations and blocks.

During the 2004-2005 Fiscal Year, **661** new nurseries were registered, compared to the 808 new registrations last year. During the same period, **702** nurseries were marked out-of-business. A total of **11,120** inspections were made at nurseries and blocks this fiscal year. This compares with 13,057 inspections of nurseries and blocks reported in 2003-2004 fiscal year. Plant Inspection personnel spent **44,070** hours working on nursery related issues.

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**NURSERY STOCK DEALERS**

There were a total of **3,960** nursery stock dealer establishments with active registration at the end of fiscal year 2004-2005. This compares with 4,004 registered nursery stock dealer establishments last year. Some nursery stock dealers have multiple locations or outlets. With an additional 3,416 locations or outlets, the total number of registered nursery stock dealer outlets is **7,376** at the end of fiscal year 2004-2005. This compares to 7,414 registered outlets reported in 2003-2004 fiscal year

During this period of time, **420** new nursery stock dealers were registered and **528** nursery stock dealers were marked out-of-business. This compares to 516 new registrations and 607 nursery stock dealers marked out-of-business last year. Plant Inspection personnel made **7,757** inspections of nursery stock dealer outlets that sell plants in the State of Florida this fiscal year. This compares with 9,327 inspections of stock dealer outlets reported in 2003-2004 fiscal year. Plant Inspection personnel spent **14,790** hours working on stock dealer related issues.

**NURSERY AND STOCK DEALERS**

Non-Citrus Nurseries	7,776
Commercial Citrus Nurseries	100
<b>Total Number of Active Nurseries</b>	<b>7,876</b>
Non-Citrus Nursery Blocks	9,511
Commercial Citrus Blocks	110
<b>Total Number of Nurseries and Blocks</b>	<b>9,621</b>
Wholesale Nurseries	3,646
Retail Nurseries	3,623
Wholesale/Retail Nurseries	2,187
Other (own use, government agencies, etc.)	165
New Nurseries	661
Nurseries Going Out of Business	702
<b>Total Number of Active Stock Dealers</b>	<b>3,960</b>
Additional Stock Dealer Locations	3,416
<b>Total Number of Stock Dealers and Locations</b>	<b>7,376</b>
New Stock Dealers	420
Stock Dealers Going Out of Business	588

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<b>ACREAGE</b>	
<i>Acres</i>	
Citrus	612.97
Non Citrus	63,428.25
Aquatics	20.94
Vegetable Transplants	1,761.79
Caladiums & Other Bulbs	1,799.82
<b>Total Acreage of Active Nurseries</b>	<b>**67,663.77</b>
<b>INVENTORY</b>	
<i>Plants</i>	
Citrus	14,364,431
Aquatics	1,856,096
Vegetable Transplants	207,820,531
Caladiums & Other Bulbs	7,122
Non Citrus	617,508,231
<b>Total Amount of Nursery Stock in Active Nurseries</b>	<b>**841,556,511</b>
<b>** Totals include 539.44 acres and 40,979,777 seedling trees grown for reforestation.</b>	

<b>TYPE OF NURSERIES UNDER INSPECTION</b>		
<b>TYPE</b>	<b>2003-2004</b>	<b>2004-2005</b>
Citrus	72	63
Citrus and Ornamental	32	33
Citrus, Ornamental and Other Fruits/Nuts	4	4
Ornamental	6,603	6,684
Ornamental and Native Plants	27	15
Ornamental and Other Fruits/Nuts	775	704
Ornamental and Aquatics	51	39
Ornamental and Vegetable Transplants	21	21
Ornamental, Caladiums/Bulb Producers	11	14
Ornamental, Native Plants, and Other Fruits/Nuts	4	2
Ornamental, Other Fruits/Nuts, Aquatics	23	21
Ornamental, Other Fruits/Nuts, Vegetable Transplants	11	6
Ornamental, Fruits/Nuts, Caladiums/Bulb Producers	13	20
Ornamental, Fruits/Nuts, Aquatics, Vegetable Transplants	1	1
Aquatics	42	48
Native plants	11	11
Fruits/Nuts	98	100
Vegetable Transplants	44	49
Fruits/Nuts, Vegetable Transplants	1	1
Caladiums/Bulb Producers	26	24
Nurseries with No Block Inventory	26	24

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<b>PLANTS AND NURSERIES UNDER INSPECTION BY COUNTY</b>			
<b>County</b>	<b>Total Acreage</b>	<b>Total Plants</b>	<b>Total Nurseries</b>
Alachua	825.14	7,435,690	202
Baker	687.65	3,259,185	31
Bay	8.55	26,980	21
Bradford	33.98	68,166	20
Brevard	1,003.89	1,016,927	193
Broward	1,671.65	10,658,521	459
Calhoun	16.38	648,965	6
Charlotte	373.96	130,913	38
Citrus	72.92	1,660,090	76
Clay	214.13	1,683,331	43
Collier	901.83	207,899,156	175
Columbia	198.30	939,004	56
Dade	14,830.08	100,043,456	1280
Desoto	185.05	1,993,463	42
Dixie	153.12	20,241	27
Duval	536.61	655,499	72
Escambia	87.95	309,306	53
Flagler	295.87	3,145,140	30
Franklin	0.11	1,810	2
Gadsden	1,158.85	14,642,494	15
Gilchrist	472.05	312,581	31
Glades	1,050.42	292,825	27
Gulf	0.31	2,750	3
Hamilton	98.67	73,751	15
Hardee	3,121.38	9,327,043	61
Hendry	479.85	392,369	57
Hernando	418.12	573,548	99
Highlands	2,641.37	11,529,644	120
Hillsborough	3,445.22	163,416,501	503
Holmes	2.01	9,420	6
Indian River	288.75	202,242	70
Jackson	48.84	49,658	16
Jefferson	658.42	2,315,342	32
Lafayette	96.05	606,929	8
Lake	3,786.13	37,987,377	344
Lee	3,545.22	3,411,546	205
Leon	103.94	231,506	46
Levy	909.75	476,143	50
Liberty	7.70	4,965	5
Madison	189.20	1,399,822	23
Manatee	1,417.74	5,060,035	183
Marion	1,944.80	3,381,613	216
Martin	1,700.49	2,875,295	122
Monroe	15.18	62,617	42

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Nassau	136.07	231,494	17
Okaloosa	55.90	88,238	32
Okeechobee	898.48	755,311	39
Orange	1,992.29	162,242,764	470
Osceola	244.54	1,799,368	66
Palm Beach	4,679.78	28,289,876	555
Pasco	626.77	1,564,003	175
Pinellas	168.59	465,239	205
Polk	1,057.41	13,517,980	285
Putnam	115.87	1,347,556	52
St. Johns	159.95	952,830	46
St. Lucie	982.41	1,964,163	70
Santa Rosa	345.87	2,522,968	45
Sarasota	376.90	892,515	130
Seminole	1,266.17	3,298,043	136
Sumter	527.31	3,113,298	44
Suwannee	467.88	2,593,109	41
Taylor	93.82	54,179	17
Union	12.82	10,695	3
Volusia	656.98	1,655,410	291
Wakulla	25.64	32,532	13
Walton	16.30	18,460	7
Washington	3.78	18,580	12
<b>TOTALS:</b>	<b>64,609.16</b>	<b>827,573,130</b>	<b>7,876</b>

<b>NURSERY STOCK CLASSIFIED AS ORNAMENTAL</b>		
<b>Classification</b>	<b>2003-2004</b>	<b>2004-2005</b>
Shrubs	114,805,110	119,226,728
Trees, Flowering	25,281,649	26,953,831
Palms	29,599,176	31,427,243
Orchids	15,472,684	14,481,177
Succulents	3,445,737	3,254,775
Foliage Plants	173,217,826	203,748,533
Miniature Citrus	174,768	195,188
Dooryard Citrus	902,091	1,219,225
Perennials	12,493,236	16,671,317
Vines	157,075,722	162,131,427
Miscellaneous Annuals	2,834,870	2,951,106
Bromeliads	31,968,368	20,339,448
Endangered	410	555
Threatened	27,094	75
Exploited	67,174	62,938
Aquatics	1,868,783	1,824,504
Vegetable Transplants	215,837,143	207,819,192
Caladium & Bulbs	6,370	7,007

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<b>TOTALS**</b>	<b>785,078,211</b>	<b>812,314,269</b>
** Trees for reforestation excluded.	46,336,181	41,978,517
** Non-Citrus Seedbeds excluded.	110,501	100,470
** Non-Citrus Liners excluded.	30,153	32,765
** Non-Citrus Own-Use excluded.	37,993	44,544

<b>NURSERY STOCK BY KIND OF STOCK</b>						
	2002-2003		2003-2004		2004-2005	
<b>Kind of Stock</b>	<b>Acres</b>	<b>Plants</b>	<b>Acres</b>	<b>Plants</b>	<b>Acres</b>	<b>Plants</b>
Orange		5,870,199		5,674,831		5,635,824
Grapefruit		704,767		610,250		683,300
Mandarin type		193,982		190,982		172,920
Lemons & limes		93,761		101,722		95,258
Seedlings, in beds		2,918,986		4,514,217		2,832,945
Seedlings, lined out		3,441,406		2,938,200		4,076,759
Miscellaneous Citrus		55,015		132,979		81,588
<b>TOTAL CITRUS</b>	<b>619.16</b>	<b>13,278,116</b>	<b>624.59</b>	<b>14,163,181</b>	<b>566.54</b>	<b>13,578,584</b>
Ornamental		452,198,843		567,544,562		602,841,345
Fruits and Nuts		1,148,673		1,247,734		1,502,498
Aquatics		2,110,888		1,868,783		1,824,504
Vegetable Transplants		198,502,419		215,837,143		207,819,192
Caladiums & Other Bulbs		28,477		6,370		7,007
<b>TOTAL NONCITRUS</b>	<b>56,967.01</b>	<b>653,989,300</b>	<b>58,023.63</b>	<b>786,504,592</b>	<b>64,042.62</b>	<b>813,994,546</b>
<b>GRAND TOTAL</b>	<b>57,586.17</b>	<b>667,267,416</b>	<b>61,982.66</b>	<b>800,667,773</b>	<b>64,609.16</b>	<b>827,573,130</b>
Trees for Reforestation	353.20	66,919,320	399.93	46,336,181	539.44	40,979,777
<b>GRAND TOTAL (under inspection)</b>	<b>57,939.37</b>	<b>734,186,736</b>	<b>62,382.59</b>	<b>847,003,954</b>	<b>65,148.60</b>	<b>868,552,907</b>

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<b>NURSERY STOCK CLASSIFIED AS OTHER FRUITS AND NUTS</b>		
<b>Category</b>	<b>2003-2004</b>	<b>2004-2005</b>
Nuts	155,093	118,660
Tropical Fruits	554,943	612,312
Deciduous Fruits	176,221	212,120
Berries	361,477	559,406
<b>Totals</b>	<b>1,247,734</b>	<b>1,502,498</b>

<b>COUNTIES WITH TREES FOR REFORESTATION</b>			
<b>County</b>	<b>Trees for Reforestation</b>	<b>Acres for Reforestation</b>	<b>Number of Nurseries</b>
Alachua	18,120	15.50	2
Clay	30,000	2.00	1
Dade	154,067	138.56	13
Desoto	35,500	1.00	1
Dixie	2,390	0.01	1
Hillsborough	4,600	10.10	5
Jackson	3,500,000	12.00	1
Lafayette	349,000	10.00	1
Levy	11,000,000	93.00	1
Madison	1,503,000	90.00	2
Manatee	86,200	11.00	3
Nassau	900	0.25	1
Osceola	5,000	15.00	1
Palm Beach	41,000	50.02	6
Santa Rosa	250,000	5.00	1
Suwannee	8,000,000	40.00	1
Taylor	16,000,000	46.00	1
<b>Totals</b>	<b>40,979,777</b>	<b>539.44</b>	<b>42</b>

<b>OVERVIEW OF INSPECTION STATISTICS 2004-2005</b>	
Nursery Districts	76
Citrus Tree Survey Districts	8
Nematode Certification Districts	8
Protocol Offices	4
Apiary Districts	13

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<b>MONIES COLLECTED 2004-2005</b>	
<u>Type of Charges</u>	<u>Amount Collected</u>
Nursery Certificate Fees	\$564,634.32
Stock Dealer Certification Fees	\$220,812.25
Apiary Certificate Fees	\$35,035.00
Special Inspection Charges (Plant)	\$703,565.48
Special Inspection Charges (Apiary)	\$15,000.00
Nematode Sampling Charges	\$199,619.32
Boll Weevil Assessments	\$394,207.79
Caribfly Protocol	\$817,460.20
Returned Checks Re-deposited	\$1,122.80
Service Charges on Checks	\$317.04
Introduction Permit Fees	\$412.50
Miscellaneous Items	\$4,613.45
Pathology - Grants-Special Projects	\$3,625.00
Rebates	\$20.00
Miscellaneous Grants-Special Projects	\$187,540.00
Refunds	\$915.72
Irradiator Fees	\$10,370.00
Bio-Control	\$15,000.00
Winter Haven Fumigation	\$900.00
Administrative Fines	\$22,710.69
Grades & Standards Publications	\$1,718.56
<b>TOTAL:</b>	<b>\$3,199,600.12</b>

**VIOLATIONS AND STOP SALE & HOLD ORDERS**

Between July 1, 2004 and June 30, 2005 the Bureau of Plant and Apiary Inspection personnel issued **4** violations. Three of the violations issued were warnings and one violation resulted in a penalty of **\$4,595.00**. The bureau issued **1,365** Stop Sale and Hold Orders for failure to renew annual registration. During the same period of time **1066** Stop Sale and Hold Orders have been released from as a result of paying their fees or going out of business. Bureau personnel also issued **86** Stop Sale and Hold Orders for pests and disease such as citrus canker, the false codling moth and tomato leaf curl.

**QUARANTINES**

A total of **4,035,990** plants were placed under quarantine this fiscal year to prevent further dissemination of potentially serious plant pests. **203** 'new' quarantine letters were issued to **165** regulated entities during the past year. **209** 'release' quarantine letters were processed during the same period of time. The majority of quarantines were issued for the detection of

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pink hibiscus mealybug, Cycad aulacaspis scale, and Agrobacterium tumefaciens. Accordingly the majority of plants placed under quarantine or destroyed were hibiscus, Cycas revolute, and ficus benjamina. Citrus trees quarantined as a result of citrus canker are not included in these figures.

**IMPORTED FIRE ANT (IFA) CERTIFICATION PROGRAM**

As of June 30, 2005, there were **1,895** nurseries and stock dealers under compliance agreement for Imported Fire Ant (IFA) certification purposes. This compares to a total of 1,520 nurseries and stock dealers under compliance on June 30, 2004. During this period Plant Inspection personnel spent **7,961** hours associated with IFA activities.

**CITRUS CANKER NURSERY (CCN) INSPECTION PROGRAM**

As of June 30, 2005, there were **1,146** nursery blocks and stock dealer outlets that are inspected on a 60-day cycle for citrus inventory. This compares to a total of 1,272 nursery blocks and stock dealer outlets inspected on a 60-day cycle as of June 30, 2004. **92** locations are identified as commercial citrus nursery. This year there were **3** commercial citrus nurseries identified positive for citrus canker. As a result of these finds, the commercial citrus nurseries are inspected on a 30-day cycle. During this period Plant Inspection personnel spent **19,556** hours associated with CCN activities.

**BOLL WEEVIL ERADICATION PROGRAM**

At the close of the 2004-2005 cotton-growing season, there were **374** commercial cotton producers in the state. These producers planted **87,504** acres of cotton in **13** counties. Throughout the 2004-2005 cotton growing season, there were no boll weevils trapped in the state.

**PINK HIBISCUS MEALYBUG (PHM)**

Between July 1, 2004 and June 30, 2005 Department personnel witnessed the destructions of **91,184** plants as a result of PHM. In July 2002 the Division in cooperation with USDA initiated a Pink Hibiscus Mealybug Biological Control Program, which is ongoing. At the present time PHM has been detected in Broward, Brevard, Collier, Hillsborough, Indian River, Lee, Martin, Miami-Dade, Monroe, Orange, Palm Beach, Pinellas, and St. Lucie counties. During this period, Plant Inspection personnel spent **6,091** hours working on PHM related issues.

**SUDDEN OAK DEATH (SOD)**

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*Phytophthora ramorum*, the causal agent of sudden oak death (SOD), ramorum blight, and ramorum die-back, is known to occur in coastal forests, in landscape plantings in Europe, and has been detected in some horticultural nurseries in the United States. *Phytophthora ramorum* is one of a number of organisms (although not true fungi) that are collectively called “water molds.” *Phytophthora* is translated to “Plant Destroyer” and most of the *Phytophthora* species are plant pathogens, many with extremely large host ranges.

During the fiscal year 2004-2005, Plant Inspection personnel submitted **1,122** samples for SOD. **61** samples processed were Elisa positive (+). **6** samples processed were PCR positive for *Phytophthora* only. No (**0**) samples collected during the fiscal year were identified positive for SOD. Plant Inspection personnel spent **2,697** hours working on SOD related issues during this fiscal year.

Samples were collected during the fiscal year by Plant Inspection personnel as a result of the following events:

1. Completion of the 1<sup>st</sup> 2004 SOD National Nursery Survey in July 2004. A total of **1006** (200 were collected after July 1, 2004) samples were collected from **31** nurseries.
2. Completion of the 2<sup>nd</sup> 2004 SOD National Nursery Survey in December 2004. A total of **592** samples were collected from **23** nurseries.
3. January 2005 trace-forward inspections were conducted at 7 locations receiving plant material from a SOD positive out-of-state nursery. 31 samples were collected.
4. May 2005 trace-forward inspections were conducted at **21** locations receiving plant material from a SOD positive out-of-state nursery. **20** samples were collected.
5. Completion of the 1<sup>st</sup> 2005 SOD National Nursery Survey in June 2005. **595** samples were collected from 24 nurseries.

**SURVEY ACTIVITIES**

<u>Pest Records</u>	<u>Arthropods/Mollusca</u>	<u>Diseases</u>
New Host Records	136	27
New County Records	109	0
New State Records	10	0
New US Records	4	2
New to Science	0	0
New to Western Hemisphere	1	0

**TRAPPING ACTIVITIES**

The bureau examines and services various insect traps throughout the state for the early detection of exotic pests. This is summarized below.

**Fruit Fly Detection (FFD):**

During fiscal year 2004-2005, Plant Inspection personnel and USDA personnel tended **28,508** Trimedlure traps, **7,431** Cue lure traps, **13,387** Methyl euginol traps, and **5,138** Multilure traps bringing the average number of traps tended statewide to **58,881**. During this period Plant Inspection personnel spent **121,433** hours working on FFD related activities.

**Gypsy Moth Detection:**

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Plant Inspection personnel tended **166** gypsy moth traps throughout north Florida with no reproducing gypsy moth detected during fiscal year 2004-2005.

## **CITRUS TREE SURVEY**

July 2004 - CTS inspectors spent three weeks in Arcadia completing inventory of all citrus groves in Desoto County for the Agriculture Statistics Service.

August 2004 – CTS inspectors spent two weeks assisted Plant Inspection Area Supervisor (Matt Brodie) with Pink Hibiscus Mealybug (PHM) inspections in Lee and Collier counties. CTS inspectors spent two weeks assisting with the Sudden Oak Death National Nursery Survey by inspecting nurseries for SOD in Brevard, Broward, Charlotte, Citrus, Collier, Dade, Hillsborough, Lee, Orange, Palm Beach, Pasco, Polk counties. Following Hurricane Charley CTS inspectors assisted in cleaning up the debris at the DPI budwood grove in Dundee.

September 2004 – CTS inspectors worked 4 weeks with Plant Inspection Area Supervisor (Matt Brodie) and his inspectors assisting Lee County Emergency Management Service to distribute food and water to the victims of hurricanes Charley and Francis.

October 2004 – December 2004 – CTS inspectors worked on plant pest detection surveys in commercial groves. Starting in mid October CTS began working in Cape Coral on the Citrus Canker Eradication Program. CTS inspectors supervised contractors removing citrus trees on residential properties. In December CTS inspectors started assisting the Agriculture Statistics Service with a special Citrus tree census of the commercial groves damaged by the hurricanes.

January 2005 – CTS inspectors returned to Cape Coral and supervised contractors removing citrus on the canker program until early June.

June 2005 - Citrus Canker was found in four commercial citrus nurseries. We assisted Plant Inspection Area Supervisors and inspectors with inspecting the nurseries, creating maps, and inventory of positive trees. CTS inspectors inspected all citrus nurseries in Polk County and some citrus nurseries in Highlands County. The fiscal year ended with CTS inspectors working in Ft. Pierce on the Citrus Canker Eradication program in commercial citrus groves where citrus trees were inventoried prior to being to be removed as a result of falling within a 1900 foot arc of a positive citrus canker find.

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**CARIBBEAN FRUIT FLY CERTIFICATION PROGRAM**

The Caribbean fruit fly, *Anastrepha suspensa* (Lowe), has been a serious pest of many tropical and sub-tropical fruits of central and south Florida. From the 1965 introduction in the Miami area to the present, this pest has caused concern for many Florida growers and consumers throughout the world. Due to the economic severity that is imposed on fresh fruits and the need to protect other areas of the world against this pest, rigid agricultural quarantines have been established to prevent the movement of infested material and also provide a means for compliance and treatment.

Although these post harvest treatments (fumigation) provided necessary safeguards against this pest, they proved to be expensive and often caused damage to the fruit. In the early 1980's, studies were initiated for the purpose of developing new procedures for certifying citrus fruit free of the Caribbean fruit fly. Based upon these initial studies and a better understanding of the Caribfly as it relates to citrus, an acceptable certification procedure was established. This procedure is referred to as the AFly-Free Certification Program.® Presently, **Bermuda, Brazil, Chile, Colombia, Ecuador, Japan, Korea, New Zealand, Philippines, Thailand, the People's Republic of China, Vietnam** and the states of **California, Hawaii** and **Texas** have accepted this fly-free certification procedure.

The current procedures for certifying citrus with the fly-free zone concept requires that the fruit come from specific Caribbean fruit fly controlled areas, or designated areas in 22 eligible citrus producing counties (see Table 2 below).

As can be seen in Table 1 below, the total acres certified have significantly increased over the last nineteen years. The 2004-2005 citrus fruit season had 125,200 acres certified in 22 eligible citrus producing counties (see Table 2 below).

With the Caribfly Protocol, a safe and effective procedure has been established to export citrus to areas requiring quarantine safeguards. Currently the largest importer of fresh Florida citrus fruit is Japan. Since the beginning of the 2004-2005 shipping season there has been a total of 4,857,921 4/5 bushel cartons of citrus fruit shipped to Japan. This total had 1,143 4/5 bushel cartons short term cold treated 4,857,921 cartons exported fly control or fly free. The fly free certification method has become an accepted procedure and represents 86% of the total Japanese fresh fruit export market during a nineteen year period. For the 2004-2005 shipping season, the fly free certification method represents 99% of the total Japanese fresh fruit export market.

The Caribbean Fruit Fly Protocol is administered by the Florida Department of Agriculture and Consumer Services=Division of Plant Industry and Division of Fruit and Vegetable Inspection, in cooperation with the U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine.

**Table 1**

**TOTAL ACRES CERTIFIED**

<u>Fruit Season</u>	<u>Designated Areas</u>	<u>Total Acres</u>	<u>Number of Counties</u>	<u>Number of Acres Certified</u>
1986/1987	162	48,600	2	16,500
1987/1988	322	96,600	4	32,000
1988/1989	744	223,200	7	62,020
1989/1990	902	270,600	13	77,300
1990/1991	1,095	328,500	15	114,240
1991/1992	1,364	409,200	16	139,880
1992/1993	1,658	497,400	18	152,580
1993/1994	1,853	555,900	19	161,140
1994/1995	1,989	596,700	19	187,780

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1995/1996	2,260	678,000	20	204,220
1996/1997	2,239	698,700	20	188,080
1997/1998	2,361	708,300	20	186,480
1998/1999	2,393	717,900	20	185,200
1999/2000	2,511	753,300	21	184,020
2000/2001	2,569	770,700	22	178,500
2001/2002	2,636	790,800	22	175,200
2002/2003	2,684	805,200	22	157,640
2003/2004	2,713	813,900	22	162,540
2004/2005	2,724	817,200	22	125,200
2005/2006	2,730	819,000		

<b>Table 2</b>					
<b><u>ACRES CERTIFIED 2003-2004 EARLY SEASON AND STANDARD CERTIFICATION BY COUNTY</u></b>					
	<b><u>EARLY SEASON</u></b>		<b><u>STANDARD SEASON</u></b>		
<b><u>COUNTY</u></b>	<b><u>BAIT SPRAY</u></b>	<b><u>NEGATIVE TRAPPING</u></b>	<b><u>BAIT SPRAY</u></b>	<b><u>NEGATIVE TRAPPING</u></b>	<b><u>TOTAL</u></b>
Brevard	120	0	0	0	120
Charlotte	0	4,800	80	5,400	10,280
Collier	600	0	960	0	1,560
Desoto	200	0	160	0	360
Glades	160	0	560	0	720
Hardee	120	0	440	0	560
Hendry	4,280	2,400	5,000	900	12,580
Highlands	440	0	880	0	1,320
Indian River	2,760	16,500	5,360	14,700	39,320
Lake	920	0	440	0	1,360
Lee	400	0	560	0	960
Martin	1,120	900	1,320	0	3,340
Osceola	400	0	1,000	0	1,400
Okeechobee	600	1,500	800	0	2,900
Palm Beach	200	0	880	0	1,080
Pasco	160	0	0	0	160
Polk	560	0	240	0	800
Sarasota	0	0	80	0	80
St. Lucie	1,280	18,000	6,320	20,700	46,300
<b>Total Acres</b>	<b>14,320</b>	<b>44,100</b>	<b>25,080</b>	<b>41,700</b>	<b>125,200</b>
<b>Early Season Total</b>			<b>58,420</b>		
<b>Standard Season Total</b>			<b>66,780</b>		
<b>Grand Total</b>			<b>125,200</b>		

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<b>Table 4</b>					
<b>EXPORT OF FRESH CITRUS TO JAPAN</b>					
<b>(4/5 BUSHEL BOXES)</b>					
<b>FRESH FRUIT SEASON</b>	<b>COLD TREATMENT SHORT TERM</b>	<b>COLD TREATMENT LONG TERM</b>	<b>FLY CONTROL ZONE</b>	<b>EDB</b>	<b>TOTAL</b>
1986/1987	1,530,366	1,643,968	926,076	4,999,988	9,100,368
1987/1988	1,142,354	3,905,585	4,461,699	951,848	10,471,486
1988/1989	2,291,669	4,571,525	6,473,147	0	13,336,341
1989/1990	100,364	303,486	4,973,538	0	5,377,388
1990/1991	1,626,865	1,071,805	8,813,266	0	11,511,936
1991/1992	385,835	1,043,456	9,618,375	0	11,047,666
1992/1993	309,856	382,566	8,490,940	0	9,183,362
1993/1994	94,754	462,491	11,039,972	0	11,597,217
1994/1995	31,694	27,027	10,369,389	0	10,428,110
1995/1996	6,506	42,057	11,302,379	0	11,351,242
1996/1997	8,915	124,848	10,933,942	0	11,067,185
1997/1998	3,627	158,147	9,169,261	0	9,331,035
1998/1999	7,182	99,154	10,014,270	0	10,120,606
1999/2000	0	99,819	10,872,580	0	10,972,399
2000/2001	2,493	214,026	10,560,115	0	10,776,634
2001/2002	5,334	48,834	11,198,287	0	11,252,455
2002/2003	6,106	0	10,181,532	0	10,187,638
2003/2004	0	0	12,142,059	0	12,142,059
<b>2004/2005</b>	<b>1,134</b>	<b>0</b>	<b>4,857,921</b>	<b>0</b>	<b>4,859,055</b>
<b>TOTAL</b>	<b>7,555,054</b>	<b>14,198,794</b>	<b>166,398,528</b>	<b>5,961,836</b>	<b>194,145,212</b>

<b>EXPORT CERTIFICATION</b>
<p>During the fiscal year 2004-2005, Plant Inspection personnel issued the following number of various certificates for plants and plant products destined to other states and countries.</p> <ul style="list-style-type: none"> <li>• State Phytosanitary Certificates: <b>5,641</b> certificates</li> <li>• Federal Phytosanitary Certificates: <b>9,188</b> certificates</li> <li>• Federal Re-export Certificates: <b>930</b> certificates</li> </ul>

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**OFFICE OF AGRICULTURAL LAW ENFORCEMENT REPORT  
Of AGRICULTURAL PRODUCTS ENTERING FLORIDA**

A total of **55,498** 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 2004-2005 Fiscal Year. The commodities indicated below were reported from shipments entering Florida. Statistics provided by the Office of Agricultural Law Enforcement.

<b>Commodity</b>	<b># of Shipments</b>	<b># of Violations</b>
AAA Multiproducts	30	1
Avocado	6	1
Beet	1	0
Broccoli	3	0
Chrysanthemum	1	0
Citrus	105	28
Cucumbers	26	0
Cut Christmas Tree	302	7
Cut Fern	4	0
Cut Flowers	31	0
Cut Foliage	50	3
Dogwood	2	1
Garden Lettuce	17	0
Garlic	1	0
Green Onions	12	7
Hay	84	1
Kale	1	0
Leeks	1	1
Lime	9	5
Mangoes	6	2
Melon	34	0
Nasturtium	4	0
Nursery Stock	2023	117
Oak	51	1
Onion	90	0
Organic Vegetables	11	4
Other – Plant	37	5
Pepper	19	1
Potato	263	0
Produce-Domestic	2063	38
Produce-Foreign	394	7
Seed Potatoes	348	1
Sod	185	3
Spinach	2	1
Tomato	243	1
Viola	3	1
<b>Total</b>	<b>6464</b>	<b>237</b>

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## **CONSUMER ASSISTANCE**

Plant Inspection routinely assists consumers by responding to complaints and requests for information or by investigating plant pest problems. From July 1, 2004 until June 30, 2005 there were **229** consumer requests received by the Division of Plant Industry Helpline and forwarded to Plant Inspection for follow-up. This does not include calls for citrus canker. The program areas of the calls included Pink Hibiscus Mealybug, Sudden Oak Death, and Fruit Flies.

## **APIARY INSPECTION**

### **AMERICAN FOULBROOD**

Resistance to all registered antibiotics for treatment of American Foulbrood disease is generally recognized throughout the state.

### **VARROA MITE**

Every colony within the state is also experiencing some degree of resistance by the external parasite, the Varroa mite, to the registered miticides Apistan<sup>R</sup> and Checkmite II<sup>R</sup>.

### **SMALL HIVE BEETLE**

Small Hive Beetle is a continuing secondary destructive pest to Varroa and American Foulbrood disease, as beekeepers learn to manage for less exposure to this pest.

## **INDUSTRY STATUS**

Honey prices have fallen to the 50 cents per pound range for all grades as a result of a flood of cheap imported honey. Cost of production in Florida is still maintained at an estimated \$1.00 per pound creating an expanding production and marketing challenge. Due to the loss of + - 50% of honey bee colonies this past winter due to parasitic mites and secondary infections, with a rising demand for honey bees as pollinators, the industry may be in transition to a pollination based revenue stream if honey prices remain depressed.

## **AFRICANIZED HONEY BEES**

It has become clear that the Africanized honey bee (AHB) population has grown and will continue to grow in Florida due to its numerous pathways into the state and the lack of effective eradication products or techniques. The Florida Department of Agriculture & Consumer Services, in cooperation with other agricultural stakeholders, is developing the tools to protect the beekeeping industry and educate the public on how to learn to live with this potentially dangerous insect. At some point, the aggressive behavior of these bees will become more common. Interaction between AHBs, people and animals will likely happen.

For the last decade, Florida has been surveying for the AHB and established the country's first AHB detection program that is jointly operated by the Florida Department of Agriculture & Consumer Services and the United States Department of Agriculture. The program involves placing bait hives in ports, and educating ships' crews and dockworkers to identify and report suspicious swarms. Today, nearly 500 bait hives are in place throughout the state, primarily in port areas, along Interstate-10 and on the Florida/Alabama border. The bait hives are checked on a three-week cycle based on the reproduction habits of the AHB.

Pathways for introduction of the AHB into Florida are numerous. AHB swarms have been intercepted 30 times in the past 22 years in Florida. The majority have come off ships from Guatemala. Since 2002, when the first AHBs were detected in the Tampa Bay area, 653

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samples have been taken with 59 positive for AHB genetics. Over the last several years, numerous attacks on humans and animals have been reported in California, Arizona, New Mexico and Texas. Emergency response agencies in these states have implemented first responder training programs as well as public education efforts. While there have been no attacks on humans reported in Florida, a horse in La Belle was attacked in May of this year.

**INSPECTION/MOVEMENT**

In the fiscal year 2004-2005, of the 201,396 honey bee colonies maintained by registered beekeepers, there were 43,619 colonies inspected from 2,481 apiaries. Compensation of \$2,670.00 was paid to beekeepers for 628 honey bee colonies destroyed because of infestations of American foulbrood disease. There were 100,664 colonies that moved from Florida into 17 different migratory states.

**APIARY RESEARCH ACTIVITIES**

This past year Apiary Research has been an active one. In collaboration and in conjunction with the Bureau of Methods and Biological Development the following research activities were conducted.

- 1) A new and innovative “top down” application for a liquid Varroa Mite Treatment, Sucroside, was developed. Results were published in the *American Bee Journal* Volume 145, Number 7, page 587 entitled, “Varroa Mite Suppression With a Simplified Sucroside Application Method and the Effects of Sucrose Octanoate on Honey Bee Eggs and Larvae”.
- 2) Field testing of a unique thymol based Varroa mite treatment, Exomite Apis, was published in the *American Bee Journal*, Volume 145, Number 4, page 305 entitled, “Florida Test of the Exosect Exomite Apis System for the Varroa Mite”.
- 3) Acidification of Honey Bee Hemolymph using various organic acids including oxalic acid for Varroa was begun with continuing trials upcoming.
- 4) Beginning trials using Allisure<sup>R</sup> a marketed product containing Allicin, an organic derivative of garlic was field tested for American Foulbrood disease and Varroa control.
- 5) The Apiary Section received a \$20,000 grant from the National Honey Board for continuing research with Dr. Rosalind James, researcher with the United States Department of Agriculture/Agricultural Research Service for a “fungus” control of Varroa mites.
- 6) The “Dowda” Method of Varroa mite control using organic powdered sugar was published in the *American Bee Journal* as a side bar.

**APIARY INSPECTION SUMMARY**

BEEKEEPERS INSPECTED	COLONIES CERTIFIED	COLONIES INSPECTED	APIARIES INSPECTED	OUT-OF-STATE CERTIFICATES
1049	201,396	43,619	2,481	428

**AMERICAN FOULBROOD DISEASE REPORT**

HIVES INFESTED	APIARIES INFESTED	HIVES DESTROYED	AMOUNT COMPENSATED	APIARIES RELEASED
609	55	678	\$2,670.00	29

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**NEMATODE CERTIFICATION JULY 1, 2004 – JUNE 30, 2005**

**ORNAMENTAL NURSERIES**

The presence of certain nematodes in a nursery prevents the certification of plants shipped to California, Arizona, Texas, Louisiana, Bermuda and the European Union (EU) from the infested nursery until corrective measures have been completed and the nursery is sampled negative. During the 2004-2005 Fiscal Year, nematode certification personnel re-evaluated 944 ornamental nurseries and certified 74 new nurseries and nursery blocks consisting of 969.46 acres. There were 209.8 acres were added to existing certified ornamental nurseries. During the same period, 54 nurseries or nursery blocks, voluntarily relinquished their nematode certification status. Cumulative totals as of June 30, 2005, show 1,025 ornamental nurseries consisting of 11,651.16 acres eligible for nematode certification.

**CITRUS NURSERY BLOCKS PLANTED AND CITRUS SITES APPROVED BUT NOT PLANTED**

There were no nematodes harmful to citrus detected in citrus nurseries this year. During the year, 178 inspections were made of citrus nursery sites and soil pits compared to 194 inspections made last year. One new citrus site consisting of 8 acres was added to the certified total this year. Nine citrus nursery blocks and one citrus site approved but not planted were removed from active certification status this year. Cumulative totals as of June 30, 2005, show 97 nematode certified citrus nursery blocks planted consisting of 831.33 acres, and no nematode certified citrus sites approved.

**PITS**

There were no nematodes harmful to citrus detected in pits this year. During the year, 43 inspections were made of pits compared to 101 inspections made last year. One new pit consisting of 21.0 acres was added to the certified total this year, 9 pits consisting of 46.25 acres were removed from active certification status this year. Cumulative totals as of June 30, 2005, show 43 nematode approved pits consisting of 1,898.1 acres.

A total of 7,113 samples were collected from citrus nursery blocks planted, citrus nursery sites approved but not planted, pits and ornamental nurseries for certification during the 2004-2005 fiscal year.