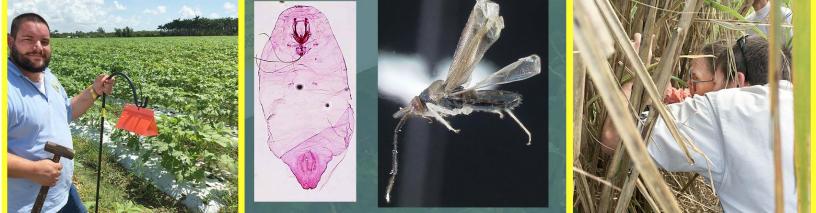


Florida Cooperative Agricultural Pest Survey Program -Combined Survey

Semi-Annual Report - Quarters 1 & 2 March 2, 2018 to September 2, 2018



Division of Plant Industry Florida Department of Agriculture and Consumer Services PO Box 147100 Gainesville, FL 32614

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Florida Cooperative Agricultural Pest Survey Program Semi-Annual Report – Quarters 1 & 2 & 3, 2018 March 2, 2018 to September 2, 2018

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Table of Contents:

Ta	ble of Contents:	2
NA	APIS Data Base	3
FD	DACS-DPI-CAPS and USDA-PPQ-CAPS Personnel	16
Ma	aps:	17
	Map 1: Tomato Commodity Survey in Florida, part 1	17
	Map 2: Tomato Commodity Survey in Florida, part 2	18
	Map 3: Tomato Commodity Survey in Florida, part 3	19
	Map 4: Nursery Commodity Survey in Florida, part 1	20
	Map 5: Nursery Commodity Survey in Florida, part 2	21
	Map 6: Nursery Commodity Survey in Florida, part 3	22
	Map 7: Nursery Commodity Survey in Florida, part 4	23
	Map 8: Exotic Mollusk Survey in South Florida	24
	Map 9: EAB, ALB, and CLB Survey in Florida	25
	Map 10: Corn Commodity Survey in Florida, part 1	26
	Map 11: Corn Commodity Survey in Florida, part 2	27
	Map 12: Exotic Wood Boring Beetle Survey in Florida	

Figures:		29
	Fig. 1: CAPS downloadable calendar, May 2018	29

Introduction

The Florida Department of Agriculture and Consumer Services-Division of Plant Industry (FDACS-DPI) Cooperative Agriculture Pest Survey (CAPS) program staff was engaged in many program activities including data entry, survey, public outreach, training and program development. Information on each program area is detailed in this report.

NAPIS Data Base

Table 1a. Pest records entered into the NAPIS database, 1st, 2nd, and 3rd Quarter 2018 during the period March 2-September 2, 2018.

U.S. Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
Aleuroplatus validus Quaintance & Baker	a whitefly	<i>Mosiera longipes</i> (O. Berg) Small	mangrove berry	Monroe
Total = 1				

State Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
<i>Fiorinia phantasma</i> Cockerell & Robinson	Phantasma scale	Phoenix canariensis Hort. Ex Chabaud	Canary Island date palm	Miami-Dade
Total = 1				

Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
Matsucoccus alabamae Morrison	Alabama pine scale	N/A	N/A	Duval
Phoenicococcus marlatti Cockerell	red date scale	<i>Phoenix roebelenii</i> O'Brien	pygmy date palm	Martin
Asiothrixus antidesmae (syn: Aleurothrixus antidesmae)	a whitefly	lxora sp.	Flame-of-the-woods	Lee
Thysanofiorinia nephelii (Maskell)	longan scale	Dimocarpus longan Lour	longan	Lee
Thysanofiorinia nephelii (Maskell)	longan scale	Magnolia grandiflora L.	magnolia	Lake
Oceanaspidiotus spinosus (Comstock)	Spinose scale	Persea borbonia (L.) Spreng.	red bay	Lake
Crisicoccus taxodii Kosztarab	bald cypress mealybug	<i>Taxodium distichum</i> (L.) L. Rich.	bald cypress	Palm Beach
Asphondylia borrichiae Rossi & Strong	gall midge	Borrichia frutescens (L.) Dc.	sea oxeye	Levy
<i>Heteropsylla flexuosa</i> Muddiman & Hodkinson	acacia psyllid	Acacia farnesiana	pineland acacia, sweet acacia	Hillsborough
Matsucoccus alabamae Morrison	Alabama pine scale	N/A	N/A	Broward
Aphis eugeniae van der Goot	an aphid	<i>Eriobotrya japonica</i> (Thunb.) Lindl	loquat	Flagler
<i>Neophyllaphis varicolor</i> Miller and Halbert	podocarpus aphid	Podocarpus sp.	Japanese yew	Manatee
Leptoglossus zonatus (Dallas)	western leaf-footed bug	N/A	N/A	Lake
Xyleborus glabratus Eichhoff	redbay ambrosia beetle	Persea borbonia (L.)	redbay	Santa Rosa
Planococcus minor (Maskell)	passionvine mealybug	Citrus sp.	citrus	Martin
Homaemus proteus Stål	a scutellerid bug	<i>Citrus sinensis</i> (L.) Osbeck	sweet orange	Indian River
Eubule spartocerana Brailovsky	a coreid bug	<i>Citrus sinensis</i> (L.) Osbeck	sweet orange	Okeechobee
Total = 17				

Host Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
Fiorinia phantasma Cockerell & Robinson	Phantasma scale	Phoenix reclinata Jacq.	Senegal date palm	Miami-Dade
<i>Fiorinia phantasma</i> Cockerell & Robinson	Phantasma scale	Cocos nucifera L.	coconut palm	Miami-Dade
Fiorinia phantasma Cockerell & Robinson	Phantasma scale	<i>Dypsis lutescens</i> (H. Wendl.)	areca palm	Miami-Dade
<i>Fiorinia phantasma</i> Cockerell & Robinson	Phantasma scale	Phoenix sylvestris (L.) Roxb.	silver date palm	Miami-Dade
<i>Fiorinia phantasma</i> Cockerell & Robinson	Phantasma scale	<i>Phoenix roebelenii</i> O'Brien	pygmy date palm	Miami-Dade
Nipaecoccus nipae (Maskell)	coconut mealybug	Ficus microcarpa L.F.	cuban laurel, indian laurel	Indian River
Total = 6				

Table 1b. Historical pest records entered into NAPIS database.

HISTORICAL U.S. Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
N/A	N/A	N/A	N/A	N/A	N/A
Total = 1					

HISTORICAL State Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
N/A	N/A	N/A	N/A	N/A	N/A
Total = 0					

HISTORICAL County Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
Nipaecoccus nipae (Maskell)	coconut mealybug	Cocos nucifera L.	coconut palm	Indian River	2007
Total = 1					

HISTORICAL Host Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
N/A	N/A	N/A	N/A	N/A	N/A
Total = 0					

Table 2a. Counties with new records for all categories sorted most to least, 1st, 2nd, and 3rd Quarter 2018 during the period March 2-September 2, 2018.

of Records

Total = 26

County	# of Records	County	
Miami-Dade	6	Hillsborough	
Indian River	3	Levy	
Lake	3	Manatee	
Lee	2	Monroe	
Martin	2	Okeechobee	
Broward	1	Palm Beach	
Duval	1	Santa Rosa	
Flagler	1		

Table 2b. Counties with new historical records for all categories sorted most to least.

Table 20. Counties with new instorical records for an categories sorted in								
	County	# of Records		County	# of Records			
	Indian River	1		N/A	0			
			-		Total = 1			

Table 3a. U.S./State records for plant pests only, 1st, 2nd, and 3rd Quarter 2018 during the period March 2-September 2, 2018.

U.S. Plant Pest Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
Aleuroplatus validus Quaintance & Baker	a whitefly	<i>Mosiera longipes</i> (O. Berg) Small	mangrove berry	Monroe
Total = 1				

State Plant Pest Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
Fiorinia phantasma Cockerell & Robinson	Phantasma scale	Phoenix canariensis Hort. Ex Chabaud	Canary Island date palm	Miami-Dade
Total = 1				

Table 3b. Historical U.S./State records for plant pests only.

HISTORICAL U.S. Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
N/A	N/A	N/A	N/A	N/A	N/A
Total = 0					

HISTORICAL State Plant Pest Records					
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County	Year
N/A	N/A	N/A	N/A	N/A	N/A
Total = 0					

Table 4a. State survey records entered into CAPS/ NAPIS database, 1st, 2nd, and 3rd Quarter2018 during the period March 2-September 2, 2018.

Counties Surveyed 41 41 41 41 3 3 6 23 11 0	# Traps / Locations / Sites ~7,969 ~5,532 ~10,484 ~19,762 34 11-locs 11-locs 9-sites N/A	# Specimen s N/A N/A N/A 1,275-neg 3-neg 3-neg 3-neg	# of Records 300 300 301 301 100 *1 22 *3 22 *3
41 41 14 3 3 6 23 11	~7,969 ~5,532 ~10,484 ~19,762 34 11-locs 9-sites	N/A N/A N/A 1,275-neg 3-neg 3-neg	300 301 301 100 *1 22 *3
41 41 14 3 3 6 23 11	~10,484 ~19,762 34 11-locs 11-locs 9-sites	N/A N/A 1,275-neg 3-neg 3-neg	301 301 100 *1 22 *3
41 14 3 3 6 23 11	~19,762 34 11-locs 11-locs 9-sites	N/A 1,275-neg 3-neg 3-neg	301 100 *1 22 *3
14 3 3 6 23 11	34 11-locs 11-locs 9-sites	1,275-neg 3-neg 3-neg	100 *1 22 *3
3 3 6 23 11	11-locs 11-locs 9-sites	3-neg 3-neg	22 *3
3 6 23 11	11-locs 9-sites	3-neg	
6 23 11	9-sites	ů	00 *0
23 11		3-000	22 *3
11	N/A	0	0 *20
		83-pos, 48-neg	131
0	44	156-neg	303 *16
	0	0	0 *12
7	63	25-neg	290 *2
19	72	0	0 *2
6	28	224-neg	135 *2
5	10-sites	13-neg	55 *13
N/A	N/A	N/A	0 *19
N/A	N/A	N/A	0 *5
3	4	394-neg	27 *6
1	4	1-neg	36 *17
10	32	76-neg	308 *18
5	17	102-neg	124 *10
1	1	1-pos	1 *8
17	77	22,303- neg	879 *4
N/A	N/A	N/A	N/A
N/A	N/A	N/A	0 *9
N/A	N/A	N/A	N/A
N/A	N/A	N/A	0 *7
18	162	2,760-neg	905 *14
	1 10 5 1 17 N/A N/A N/A N/A N/A	1 4 10 32 5 17 1 1 17 77 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	1 4 1-neg 10 32 76-neg 5 17 102-neg 1 1 1-pos 1 1 1-pos 17 77 22,303- neg N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

Table 4c. Commodity Survey – Tomato (TCS) (6 pest species)	H. armigera, Chrysodeixis chalcites, Neoleucinodes elegantalis, Spodoptera litura, Spodoptera littoralis, and Tuta absoluta	21	262	1,387-neg	1,485 *15
					Total = 6,025

^{*1} EAB (in SWPM Survey): Surveys were done at 34 traps at 22 sites in 14 counties (Alachua, Brevard, Collier, DeSoto, Duval, Hamilton, Hardee, Highlands, Hillsborough, Jackson, Marion, Sarasota, Sumter, Volusia), resulting in 2 records (1-NSR, 1-NCR), neither of which were pests and were not entered in NAPIS. Negative survey data entry is in progress and all screenings and identifications to date are negative for EAB.

^{*2} AGM, PGM (Gypsy moths): <u>For AGM</u>, surveys were done at 63 traps in 7 counties (Bay, Brevard, Hillsborough, Manatee, Miami-Dade, Palm Beach, Pinellas). For PGM, surveys were done at 28 traps in 6 counties (Brevard, Hillsborough, Manatee, Miami-Dade, Palm Beach, Pinellas). Negative data entry is in progress, and all screenings and identifications to date are negative for all 3 target species.

^{*3} ALB/CLB (in SWPM Survey): Surveys were done at 11 locations at 6 sites in 3 counties (Broward, Monroe, Palm Beach), resulting in 1 record (1-NCR), which was not considered a pest and was not entered in NAPIS. Lab ID of survey samples is ongoing and data entry is in progress. Negative survey data entry is in progress and all screenings and identifications to date are negative for ALB and CLB.

^{*4} SWPM/Bark Beetle: Surveys were done at 77 traps at 48 sites in 17 counties (Alachua, Bay, Brevard, Broward, Charlotte, Duval, Escambia, Hernando, Hillsborough, Manatee, Miami-Dade, Monroe, Nassau, Orange, Palm Beach, St Lucie, Volusia),), resulting in 14 records (14-NCR), of which 2 were considered pests and were entered in NAPIS. All samples were screened by CAPS Lab Technician Krystal Ashman and were negative for the 6 target species Hylobius abietis, Megaplatypus mutatus, Monochamus alternatus, M. urussovii, Trypodendron domesticum, and Tomicus destruens (excluding counts for ALB, CLB, EAB, X. glabratus, and Sirex noctilio, which are listed separately). Negative survey data entry is in progress and all screenings and identifications to date are negative for the 6 target species.

^{*5} LW (part of DPI-LW & DPI-RBAB Survey): Both visual surveys for the disease and trapping surveys for the beetle are ongoing at DPI-Plant Inspection, and no new records were reported for LW disease during this period. As of September 2, 2018, 66 counties have been confirmed positive for laurel wilt disease (also see *8 RBAB below).

^{*6} SWPM/Sirex: Surveys were done at 4 traps at 3 sites in 3 counties (Broward, Palm Beach, Volusia), and screened by CAPS Lab Technician Krystal Ashman. All results were negative for Sirex noctilio. Negative survey data entry is in progress and all screenings and identifications to date are negative for the target species. Sirex was discontinued as a target pest for CAPS Florida in 2017 and the few remaining traps will be removed when lure supplies are used up.

^{*7} Mollusk Survey: Visual surveys for 10 exotic mollusk species (Cernuella spp., Cochlicella spp., Colosius spp., Laevicaulis spp., Lissachatina (Achatina) fulica, Monacha spp., Sarasinula spp., Semperula spp., Veronicella spp., and Belocaulus spp.) were completed in early 2017 and reported previously. Negative survey data entry was completed and all screenings and identifications to date are negative for the target species.

^{*8} *RBAB*: Trapping surveys were done by DPI-Plant Inspection personnel with ongoing checks of approximately 50 traps in Miami-Dade County, plus other beetle traps (see *1, * 4, * 6), and were screened by DPI Entomology. As of September 2, 2018, 32 counties have been confirmed positive for RBAB. Field survey and lab ID of survey samples is ongoing and data entry is in progress (also see *5 LW above).

^{*9} PCN: No CAPS survey was done, however cooperator surveys are ongoing throughout approximately 58 Florida counties during the calendar year. Lab Identifications and results are in progress. To date, all specimens identified have been negative for the 10 target species (Bursaphelenchus cocophilus, Globodera pallida, Globodera rostochiensis, Heterodera sacchari, Heterodera zeae, Meloidogyne chitwoodi, Meloidogyne citri, Meloidogyne fallax, Nacobbus aberrans, and Punctodera chalcoensis).

^{*10} TL-FCM (also see <u>CCS</u> (*14): Surveys for Thaumatotibia leucotreta (false codling moth or TL-FCM) Surveys were done (Nursery Survey numbers only) at 17 traps at 17 sites in 5 counties (Broward, Hillsborough, Manatee, Miami-Dade, Palm Beach). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*12} EGVM: Surveys for Lobesia botrana (European grapevine moth or EGVM) were not on the Work Plan and so were not done during 2018. All screenings and identifications to date were completed and are negative for the target species.

^{*13} CSB: Visual surveys were done (part of Nursery Survey) at approximately 10 cotton sites/locations in 5 counties (Collier, Manatee, Miami-Dade, Monroe, Pinellas), resulting in 1 record (NHR), which was not considered a pest and was not entered in NAPIS. Negative survey data entry is in progress and all screenings and identifications to date are negative for the target species.

*¹⁴ <u>CCS:</u> Surveys were done (<u>see Table 4b below</u>) at 162 traps/locations at 49 sites in 18 counties (Bradford, Charlotte, Collier, Columbia, Hamilton, Hillsborough, Jackson, Jefferson, Lake, Lee, Madison, Manatee, Miami-Dade, Palm Beach, Pinellas, Santa Rosa, St Johns, Suwannee), resulting in 3 records (3-NCR), none of which were considered pests and were not entered in NAPIS. Lab ID of survey samples is ongoing and data entry is in progress. All screenings and identifications to date are negative for all 10 target species.

*¹⁵ <u>TCS:</u> Surveys were done (<u>see Table 4c below</u>) at 262 traps at 87 sites in 21 counties (Bay, Broward, Charlotte, Collier, DeSoto, Escambia, Gadsden, Hardee, Hendry, Hillsborough, Jackson, Lee, Manatee, Miami-Dade, Monroe, Orange, Pinellas, Santa Rosa, Sarasota, St Johns, Suwannee), resulting in 3 records (2-NCR, 1-NHR), none of which were considered pests and were not entered in NAPIS. Lab ID of survey samples is ongoing and data entry is in progress, and all screenings and identifications to date are negative for all 6 target species.

^{*16} HA (also see <u>CCS</u> (*14), and <u>TCS</u> (*15), above): Surveys were done (Nursery Survey numbers only) at 44 traps at 40 sites in 11 counties (Brevard, Broward, DeSoto, Hillsborough, Manatee, Miami-Dade, Monroe, Orange, Palm Beach, Pinellas, Sarasota). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*17} SLS (also see <u>TCS</u> (*15), above): Surveys were done (Nursery Survey numbers only) at 4 traps at 4 sites in 1 county (Miami-Dade). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*18} SLA or RCW (also see <u>TCS</u> (*15), above): Surveys were done (Nursery Survey numbers only) at 32 traps at 28 sites in 10 counties (Broward, DeSoto, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Palm Beach, Pinellas, Sarasota). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*19} Plum Pox Virus: Visual surveys were completed in 2017 and reported previously. Negative survey data entry was completed and all screenings and identifications to date are negative for the target species.

^{*20} Bagrada bug: Visual surveys were done at 9 sites/locations in 6 counties (Alachua, Collier, Hillsborough, Lee, Pinellas, St Johns) on 5 host plants: Brassica sp., collards, kale, parsley, wild radish. Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

CORN COMMODITY – uploaded data only	TRAPS *	COUNTIES	TRAP CHECKS	SPECIMENS	NAPIS ENTRIES
Brown Stripe downy mildew (Sclerophthora					
rayssiae var zeae)	45 **	17	84 **	9	84
Chilo partellus (spotted stem borer) = CP	34	16	117	229	117
Java downy mildew = JDM					
(Peronosclerospora maydis)	45 **	17	84 **	9	84
Philippine downy mildew = PDM					
(Peronosclerospora philippinensis)	45 **	17	84 **	9	84
Cucurbit Beetle (Diabrotica speciosa)	45 **	17	84 **	9	84
Helicoverpa armigera = HA	46	16	205	1,951	205
Late Wilt (Harpophora maydis)	45 **	17	84 **	9	84
Monographella maydis = CTS-M	45 **	17	84 **	9	84
Phyllachora maydis = CTS-P	45 **	17	84 **	9	84
Thaumatotibia leucotreta = TL	37	18	163	535	163
TOTALS:	162 **	18 *	905	2,760	905
* represents max # traps and max # counties of the co active.	ollected data onl	y. Does not repr	resent actual #s	of traps and count	ies currently
** represents visual survey (no traps), so the number.	s for "traps" list	ed are the same of	as site #s or loc	ation #s.	
18 counties total: (Bradford, Charlotte, Collier, Colu Manatee, Miami-Dade, Palm Beach, Pinellas, Santa	mbia, Hamilton,	Hillsborough, Ja			son,
	1054, 51 501115, 5	<i>anannee j.</i>			
49 sites total.					

Table 4b. Corn Commodity Survey (CCS) entered into NAPIS

Table 4c. Tomato Commodity Survey (TCS) entered into NAPIS

TOMATO COMMODITY – uploaded data only	TRAPS *	COUNTIES	TRAP CHECKS	SPECIMENS	NAPIS ENTRIES
Chrysodeixis chalcites = CHCH	25	10	131	105	131
Helicoverpa armigera = HA	101	19	323	1181	323
Neoleucinodes elegantalis = NE	30	12	456	3	456
Spodoptera littoralis = SLS	6	6	28	3	28
Spodoptera litura = SLA	11	9	62	23	62
Tuta absoluta = TA	89	16	485	72	485
TOTALS:	262	21 *	1,485	1,387	1,485
* represents max # traps and max # co active.	ounties of the colle	cted data only. Doe	es not represent actu	ual #s of traps and cou	inties curren

21 counties total (Bay, Broward, Charlotte, Collier, DeSoto, Escambia, Gadsden, Hardee, Hendry, Hillsborough, Jackson, Lee, Manatee, Miami-Dade, Monroe, Orange, Pinellas, Santa Rosa, Sarasota, St Johns, Suwannee).

87 sites total.

<u>Performance Measures</u>:

Conferences/Trainings/Workshops	Hours	Training Provided by:
CAPS Monthly Conference Calls (3/22, 4/19, 5/17, 6/21, 7/19, 8/16)	40.5	N/A
CAPS weekly/spontaneous meetings	16.5	N/A
CAPS coordinators meetings (07/02, 08/28)	8.0	N/A
CAPS Work Plan meeting (8/7, 8/8), Gainesville FL (plus travel)	93.0	CAPS
ESRI & Survey123 meetings/data entry (3/5, 3/23, 5/16, 5/22),	25.0	ESRI / CAPS
Gainesville		
(GG) SHRUGinar GIS 2018 (6/13/2018), Tallahassee FL	10.0	SHRUG
(BD) NFPRC (N FL Pest Risk Committee) conference calls (07/10), meetings SPHD Office (08/14)	7.0	DPI/USDA
(GG) GoToWebinar - Data, Design, Develop: Learn ArcGIS App Dev Skills with DevLabs	1.0	ESRI
(GG) Esri Live Training Seminar Build Your Own Web Apps	1.0	ESRI
(GG) GoToWebinar - Extracting Value from LiDAR	1.0	ESRI
(GG) GoToWebinar - Get Analytical Insights from Your GIS	1.0	ESRI
(GG) GoToWebinar - Leveraging Dashboards: Information at the Assessor's Fingertips	1.0	ESRI
(GG) ESRI Collector, Survey 123, Data Related Issues	4.0	CAPS
(JF) BTAG (Biological Threat Assessment Group) (06/28/2018), Miami FL	10.0	USDA/CBP/DPI
(BD,JF) Southern Plant Board Meeting (5/6-5/9/2018), Charleston, SC	56.0	SPB/USDA/FDACS/CAPS
(BD) FSTMP (Federally Recognized State Managed Phytosanitary Program) training	4.0	USDA
(BD) NAPIS Training (07/02)	2.0	NAPIS
(JF) Everglades CISMA (7/17/2018), Davie FL	8.0	FWC, USFW, USDA, FDACS,
		MDC, etc.
(BD) Performance Reviews (8/10, 8/13)	3.0	N/A
Subtotal:	292.0	
Projects	Hours	Acres Surveyed / Other
CAPS Web Page	0.0	N/A
Artwork: downloadable calendars	9.0	N/A
Graphics misc (TCS pest ID cards)	2.0	CM / LW / BD
Outreach misc	2.0	CM / PP
CAPS Qtr/Accomplishment Report Q3+Q4+Q1	39.0	СМ
CAPS Qtr/Accomplishment Report Cover Q3+Q4+Q1	4.0	СМ
Performance Measures (PM's) Q1-Q2 (CM)	7.0	СМ
PM's Q2-Q3 2018 (all)	65.0	CM / KA / GG / BD
Report for LW for CBP re Miami River traps 2014-2017	1.0	СМ
Report DEP State Parks 2016-2017	10.0	СМ
Report for BD & LW - #TCS sites per target	4.0	СМ
Report for LW - 2017 #targets, entries, USA-NSR	2.0	СМ
Report for BD re Mollusc Survey 2017	1.0	СМ
PM's Q3-Q4 CAPS to DPI (DPI Q1-Q2)	6.0	СМ
(BD) CAPS Budget & Financial - ongoing	8.0	BD=Meetings, calls, emails, documents, reviewing & purchasing
(BD) CAPS Work Plan - ongoing	66.5	BD=Meetings, calls, emails, documents, discussions
(BD) Farm Bill - Work Plan & budget for Tomato Commodity/OWB	40.5	BD=Financial review, organizing, documents, procuring, meetings,

		emails, conf calls, suggestions,
(BD) Farm Bill – Interview prep for Bio Sci IV position (TCS-OWB)	4.0	uploads BD=Phone calls, preparation,
(BD) CAPS – Interviews (3) for Bio Sci IV position (N FL PSS) on 8/29/2018	51.0	application reviews BD=Meetings, prep, interviews
(BD) CAPS Website - request changes through TA	2.0	BD
(BD) Travel documents for BD, GG, KE, RB	7.0	BD=Meetings, calls, emails,
	1.0	documents, discussions
Helicoverpa armigera (OWB) see HA-OWB Incident above	0.0	(Reference placeholder only)
(BD) Bean Pod Borer trip preparations and survey report	44.0	BD
(JF) Leaf litter project w Dr. Soto-Adames (FDACS)	3.0	JF
(JF, BD) Palm Phantasma Scale Report & review by BD	13.0	JF in Q3 (written by J. Farnum & Z. Ahmed)
(GG) Mobile App Development	180.0	GG
Subtotal:	571.0	
NAPIS	Hours	
NAPIS ongoing	26.0	N/A
NAPISALB, CLB (Asian & Citrus longhorned beetle)	7.0	N/A
NAPISBagrada bug (Bagrada hilaris)	1.0	N/A
NAPISBMSB = Brown marmorated stink bug (Halyomorpha halys)	2.0	N/A
NAPISBSDM = Brown stripe downy mildew (part of CCS)	2.0	N/A
NAPISCC/CHCH (Chrysodeixis chalcites)	20.0	N/A
NAPISCG/HLB (citrus greening)	3.0	N/A
NAPISCDM = 2 spp. corn downy mildew (part of CCS)	5.0	N/A
NAPISCorn Tar Spot (2 spp.)	2.0	N/A
NAPISCP (Chilo partellus)	14.0	N/A
NAPISDiabrotica speciosa (part of CCS)	1.0	N/A
NAPISEAB (Emerald ash borer)	15.0	N/A
NAPISFF (fruit flies)	9.0	N/A
NAPISGypsy Moth (3 spp.)	16.0	N/A
NAPISHA (Helicoverpa armigera)	51.0	N/A
NAPISHarpophora maydis (part of CCS)	0.0	N/A
NAPISNE (Neoleucinodes.elegantalis)	14.0	N/A
NAPISNematodes (10 spp.)	0.0	N/A
NAPISOxycarenus hyalinipennis (CSB or cotton seed bug)	7.0	N/A
NAPISSpodoptera littoralis (SLS)	6.0	N/A
NAPISSpodoptera litura (SLA)	28.0	N/A
NAPISSWPM or EWBB (solid wood packing materials)	11.0	N/A
NAPISTL or FCM (Thaumatotibia leucotreta)	22.0	N/A
NAPISTuta absoluta (TA)	35.0	N/A
Corn Commodity Survey (CCS)	7.0	N/A
Nursery Survey (NS)	5.0	N/A
Tomato Commodity Survey (TCS)	74.0	N/A
Subtotal:	383.0	
OTHER DATA ENTRY & DATABASES	Hours	
EDRR (Early Detection Rapid Response)	10.0	N/A
eTRAP	0.0	N/A
Subtotal:	10.0	
IDENTIFICATIONS	Hours	
EAB (Emerald ash borer)	88.3	73 samples, approx. 1,222 specimens screened.

EWBB-SWPM	658.7	470 samples, approx. 10,400 specimens screened.
ISS-Interdiction	6.0	4 samples, approx. 100 specimens screened.
Subtotal:	753.0	
SURVEYS	Hours	
Bagrada bug (<i>Bagrada hilaris</i>): Alachua County	2.0	BD=1 site
Brown marmorated stink bug (BMSB) = Halyomorpha halys	19.0	BD=2 sites // BD=Meetings, calls, discussions, emails, trapping NATL
Bean pod borer survey (<i>Maruca vitrata</i> moth): 4/9-4/13/2018, Monroe County	129.0	GG=mapping // JF=many sites // BD=many sites
Corn commodity survey = <i>Helicoverpa, Chilo, Thaumbotibia, S. litura and S. littoralis</i> traps. Also visual surveys.	161.0	BD=9 sites // JF=11 sites // GG=mapping // BD=Meetings, calls, discussions, emails
Cotton Seed Bug Survey (see Nursery Survey), Oxycarenus hyalinipennis	0.0	REFERENCE PLACEHOLDER
EDRR – Early Detection Rapid Response (Forestry Survey)	141.0	BD=10 sites // BD=Meetings, calls, discussions, emails
Emerald ash borer (EAB)	53.0	BD=1 site
EWBB - (duplicate, see SWPM)	0.0	REFERENCE PLACEHOLDER
Environs Survey in Miami-Dade	12.0	JF=12 sites
FDACS GIS Task Force	56.0	GG=mapping support
HA or OWB (<i>Helicoverpa armigera</i> aka Old world boll worm) – part of TCS and Nursery Survey	0.0	REFERENCE PLACEHOLDER
High Risk & Interdiction Stations (Farm Bill)	2.3	GG=mapping support
Lychee mite survey in Lee County	118.0	GG=mapping // JF=many sites
Mollusk Survey in Miami-Dade County	37.0	BD=1 site // GG=mapping support // // BD=Meetings, calls, discussions, emails
Nursery Survey	214.0	JF=94 sites // GG=mapping support // BD=Meetings, calls, discussions, emails
Oxycarenus (see Cotton Seed Bug) – under Nursery Survey	0.0	REFERENCE PLACEHOLDER
Palm phantasma scale in Miami-Dade County	137.0	GG=mapping // JF=many sites
Pink Boll Worm (PBW) - Pectinophora gossypiella, and Okra sites	107.0	JF=41 sites // GG=mapping support // BD=Meetings, calls, discussions, emails
Psyllids (Keys Psyllids) Survey in Monroe County	9.0	JF=many
Psyllids - Processing, rearing, and submitting samples (incl. suction trap)	55.0	JF
Sugar Cane survey for Flat Grass Scale (<i>Aclerda takahashii</i>) and Thrips (<i>Fulmekiola serrata</i>) in Hamilton County	9.0	JF=2 sites // BD=1 site // BD=Meetings, calls, discussions, emails
SWPM (aka EWBB) – Solid Wood Packing Materials	178.0	BD=5 sites // JF=22 sites // GG=mapping // // BD=Meetings, calls, discussions, emails
Spodoptera litura (see Nursery Survey) regular traps	0.0	REFERENCE PLACEHOLDER
Spodoptera littoralis (see Nursery Survey) regular traps	0.0	REFERENCE PLACEHOLDER
Tomato Commodity Survey (and OWB not ICS)	1993.3	BD=4 sites // KE=many // RB=many // GG=mapping // BD=Meetings, calls, discussions, emails
Texas phoenix palm decline (TPPD)	8.0	GG=mapping
(GG) CHRP application - Post Irma	8.0	GG=mapping
(GG) CAPS Office Coverage Areas	8.0	GG=mapping
(GG) 2017 Accomplishment Report - maps	40.0	GG=mapping support
(GG) Mobile Solutions Governance Team (USDA)	6.0	GG=mapping support
	3,502.5	

Presentations – Pr	ıblic Outreach		Hours	No. of Peo	ple in Audience	
(JF) Poster - "Florida	CAPS/MIS Domestic Survey"		5.0	~30 - In lob	by of USDA Miami	
				Inspection S	Station	
	tation planning: Poster w/ Miami Ir	spection	15.0	N/A		
Station, ECISMA	MA (7/17/2018), Davie FL		0.5	~175		
	Camp (7/23/2018), Kendall FL		5.0	=42 (39 kids ages 5-16, 3 adults		
	tation planning for CISMA and YM		32.0	-42 (39 KI N/A	us ages 5-10, 5 adults)	
				~10		
(BD) New Inspector (includes prep time)	Training Class #89 (6/19/2018), Gai	inesville FL	6.0	~10		
	blogical Society (FES) Meeting (07/2	23, 07/24)	28.0	unknown, c	reate presentation,	
· · ·		, ,		meetings	1 /	
		Subtotal:	91.5			
Other Pertinent A	ctivities		Hours			
Backup & Organize	I-drive, mapping, misc. (other)		255.0	CM, GG, B	D, JF	
Computer - printer -	problems - Software Maintenance &	Upgrades	80.0	GG=SW up	grades & maintenance	
Contacts / phone lists	3		2.0	CM	-	
*	– meetings, emails, paperwork), oth	ner issues	12.0	BD=for A.	Martin // CM	
Permits (EAB, SWPM, etc) - (State Parks, City parks, Nature Preserves,		2.0		permits- J. Farnum		
etc.)			22 00000	portines of random		
Truck maintenance (includes filling out monthly mileage sheets)		35.0	BD // JF			
Field Preparations: Includes gathering supplies, mapmaking, and loading		5.0	BD // JF			
vehicle for field work						
Sample Submission: paperwork, preparing/processing/rearing samples for		5.0	BD // JF			
submission (BD) IFAS public records request – Air potato beetle (07/12)		2.0	PD-Calla	emails with extension		
(BD) IFAS public le	colds lequest – All potato beetle (07	/12)	2.0	agent (Alac		
PSS Meetings: variou	us such as collaborating/training with	h USDA and	17.0	BD // JF	nuu 001)	
State Survey Coordin	nator/various phone calls to cooperat	tors and growers				
	- Learning about beetles within the		55.0	KA		
	nd beetles within Hylesinini) to set a	uside for county				
record purposes.	ce by PSS & KA (also Survey 123)		177.0	BD // KA		
		11		BD // KA BD=Meetings, calls, discussions,		
SSC - Coordination a	and networking (CAPS and Farm Bi	ll related)	68.0			
				emails, reading, reviewing, office activities, documentation,		
				scheduling,		
	e duties - report writing/reviewing, n	neetings,	52.0		ving, meetings, material	
material and equipme	ent procurement, etc.				ocurement, invoices,	
					ctions, inventory,	
					view of emerging pests, activities (Ex: supplies for	
					, phone calls, email,	
				travel docur		
Moving out of CAPS	Moving out of CAPS Trailer prep		6.0	СМ		
		Subtotal:	773.0			
	TOTAL AL	L SECTIONS:	6,376			
US-State-County-Host Records (species) found by CAPS and				Acto & Commercia		
entered in NAPIS	:		Record	L	ate & Survey	
	Matsucoccus alabamae Morrison	Duval	NCR	20171101	CAPS-SWPMMLara	
E2018-0609-1	i i i i i i i i i i i i i i i i i i i	Data Datat	NCR	20180420	CAPS-JF	
E2018-0609-1 (Alabama pine scale) E2018-2263-1 (bald	Crisicoccus taxodii Kosztarab	Palm Beach				
(Alabama pine scale) E2018-2263-1 (bald cypress mealybug)						
(Alabama pine scale) E2018-2263-1 (bald cypress mealybug) E2018-2743-3	Crisicoccus taxodii Kosztarab Matsucoccus alabamae Morrison	Broward	NCR	20180426	CAPS-SWPMJF	
(Alabama pine scale) E2018-2263-1 (bald cypress mealybug)						

E2018-2773-1 (Phantasma scale on coconut palm)	Fiorinia phantasma Cockerell & Robinson	Miami-Dade	NHR	20180524	CAPS-PPSSZA-OG
E2018-2778-1 (Phantasma scale on Areca palm)	<i>Fiorinia phantasma</i> Cockerell & Robinson	Miami-Dade	NHR	20180523	CAPS-PPSSJF-JV
E2018-2782-1 (Phantasma scale on Phoenix palm)	<i>Fiorinia phantasma</i> Cockerell & Robinson	Miami-Dade	NHR	20180523	CAPS-PPSSJF-JV
E2018-2795-1 (Phantasma scale on Pygmy date palm)	Fiorinia phantasma Cockerell & Robinson	Miami-Dade	NHR	20180524	CAPS-PPSSJF-CT
		Subtotal:	8 records	Pests	
	v are not pests (or other reason)), so were not			
entered in NAPIS E2018-3962-1 (a	Trogolaphysa riopedrensis Mari Mutt	Miami-Dade	USA (*)	20180712	CAPS-JF
springtail) E2018-3962-2 (a	Lepidocyrtus vireticulus Mari Mutt	Miami-Dade	USA (*)	20180712	CAPS-JF
springtail) E2018-3050-1 (a	Trichodesma klagesi (Fall)	Gadsden		20180517	CAPS-EABBD-RL
beetle)	ũ ()		NSR (*)		
E2017-4832-1 (a scale)	Matsucoccus gallicolus Morrison	Duval	NCR (*)	20171023	CAPS-SWPMRL-BD
E2018-0039-1 (a scale)	Matsucoccus gallicolus Morrison	Hernando	NCR (*)	20171103	CAPS-SWPM(SP)BS
E2018-1119-1 (a leafminer moth)	Calliprora sp.	Manatee	NCR (*)	20180312	CAPS-CCS-CPDG
E2018-1119-2 (a	Siskiwitia sp.	Manatee	NCR (*)	20180312	CAPS-CCS-CPDG
moth) E2018-1311-1 (a	Matsucoccus gallicolus Morrison	Miami-Dade	NCR (*)	20180223	CAPS-SWPMJF
scale) E2018-1367-1 (a	Matsucoccus gallicolus Morrison	St Lucie	NCR (*)	20180228	CAPS-SWPMBS
<u>scale)</u> E2018-1573-1 (a	Thione championi Sharp	Volusia	NCR (*)	20180307	CAPS-EABKC
beetle) E2018-1659-1 (a	Matsucoccus gallicolus Morrison	Broward	NCR (*)	20180323	CAPS-SWPMJF
scale) E2018-1698-1 (a	Hylesinus aculeatus Say	Nassau	NCR (*)	20180328	CAPS-SWPM(SP)RL-BD
scolytid) E2018-1873-1 (a	Nealyda kinzelella Busck	Monroe	NCR (*)	20180322	CAPS-JF
moth) E2018-1961-1 (a	Matsucoccus gallicolus Morrison	Hillsborough	NCR (*)	20171027	CAPS-SWPMKM
scale) E2018-2654-1 (a	Melanocinclis gnoma Hodges	Palm Beach	NCR (*)	20180503	CAPS-NS-TLJF
moth)					CAPS-TCS-CCKE
E2018-2907-1 (a moth)	Spodoptera androgea (Stoll)	Hendry	NCR (*)	20180406	
E2018-2932-1 (a moth)	Melanocinclis gnoma Hodges	Hillsborough	NCR (*)	20180516	CAPS-NS-TLDG
E2018-3040-1 (a moth)	Melanocinclis lineigera Hodges	Broward	NCR (*)	20180426	CAPS-NS-TLJF
E2018-3040-2 (a moth)	Melanocinclis gnoma Hodges	Broward	NCR (*)	20180426	CAPS-NS-TLJF
E2018-3174-1 (a moth)	Spodoptera androgea (Stoll)	Hillsborough	NCR (*)	20180529	CAPS-TCS-CCKE
E2018-3178-2 (a planthopper)	Megamelus gracilis Beamer	Miami-Dade	NCR (*)	20180604	CAPSJF
E2018-3390-1 (a	Pseudomops septentrionalis Hebard	Duval	NCR (*)	20180524	CAPS-SWPMRL-BD
roach) E2018-3444-1 (a moth)	Melanocinclis gnoma Hodges	Miami-Dade	NCR (*)	20180419	CAPS-CCS-TLJF
moth) E2018-3553-1 (a	Ambrosiodmus minor Stebbing	Hernando	NCR (*)	20180529	CAPS-SWPM(SP)BS
scolytid) E2018-4028-2 (a	Ambrosiodmus minor Stebbing	Volusia	NCR (*)	20180627	CAPS-SWPMKC
scolytid) E2018-4076-1 (a	Ambrosiodmus minor Stebbing	Broward	NCR (*)	20180629	CAPS-SWPMATullock
scolytid) E2018-4150-1 (a	Hylesinus aculeatus Say	Volusia	NCR (*)	20180614	CAPS-SWPM(SP)BS
scolytid) E2018-4573-1 (a moth leafminer)	Chilocampyla sp.	Palm Beach	NCR (*)	20180724	CAPS-ALBsurveyJF
E2018-4673-1 (a	Largus pallidus Halstead	Monroe	NHR (*)	20180830	CAPS-NS-OHJF

PPST-2018-97742 (a fungus on Smallanthus)	Cercospora apii	St Johns	NHR (*)	20180827	CAPS-TCSRL
		Subtotal:	30 records	Non-Pests	
		Grand Total:	38	Records	
(*) denotes non-pest, therefore not entered in NAPIS					

Approved and signed by

Cooperator Date:

_____ Date: _____

ADODR

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Photography Credits:

Cover page:

Background photo – *Thaumatotibia leucotreta* trap in corn field in Miami-Dade County FL, by Jake Farnum FDACS-DPI-CAPS.

Photographs (left to right) courtesy of:

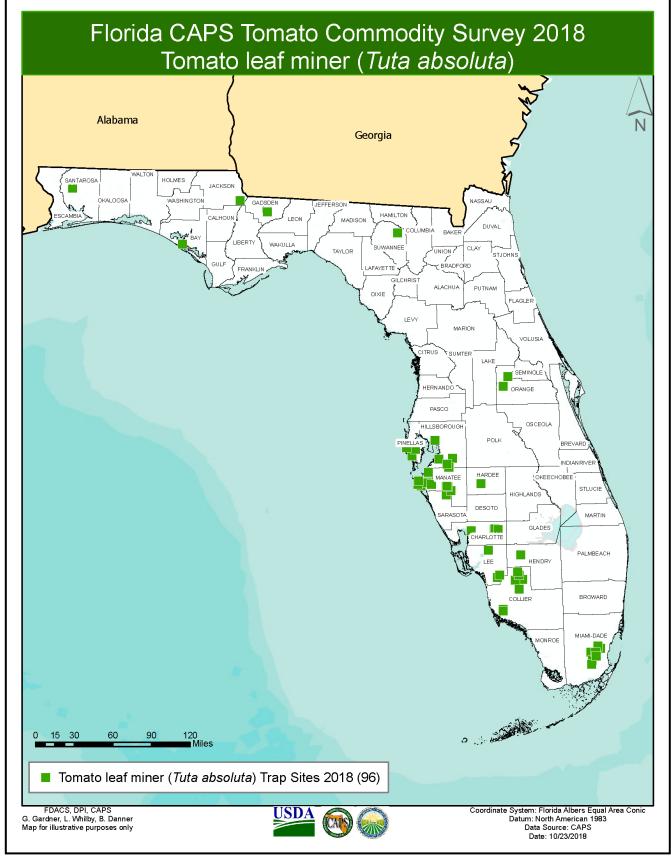
LEFT PANEL: Pink bollworm (PBW) survey in Miami-Dade County, Florida, 2018 with Roger Blanco FDACS-DPI and PBW trap in okra field, photo by Jake Farnum FDACS-DPI-CAPS. MIDDLE PANEL: USA Continental Record: *Fiorinia phantasma* (Phantasma scale), Miami-Dade County, photo by Zee Ahmed FDACS-DPI; USA Continental Record: *Falconia sp.*, a new mirid plant bug, Miami-Dade County, photo by Charles Boring FDACS-DPI; RIGHT PANEL: Sugarcane survey for *Aclerda takahashii* (flat grass scale) and *Fulmekiola serrata* (sugarcane thrips) in Hamilton County, photo by Jake Farnum FDACS-DPI-CAPS.

Interior pages:

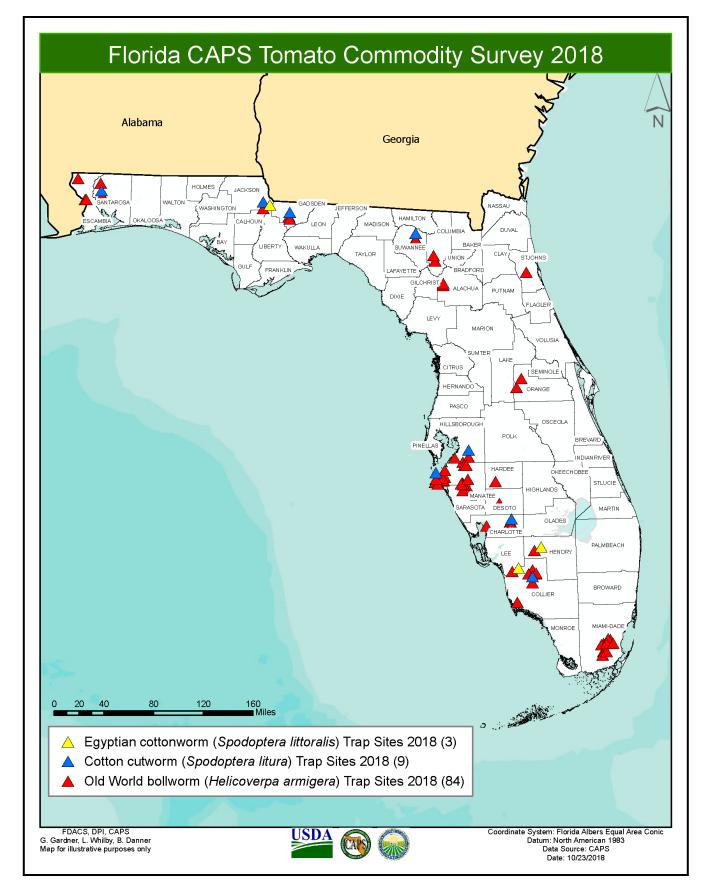
Maps by Glen Gardner, FDACS-DPI-CAPS. Photographs courtesy of: Downloadable calendar, design by Cyndi Moncrief, FDACS-DPI-CAPS;

Prepared By:

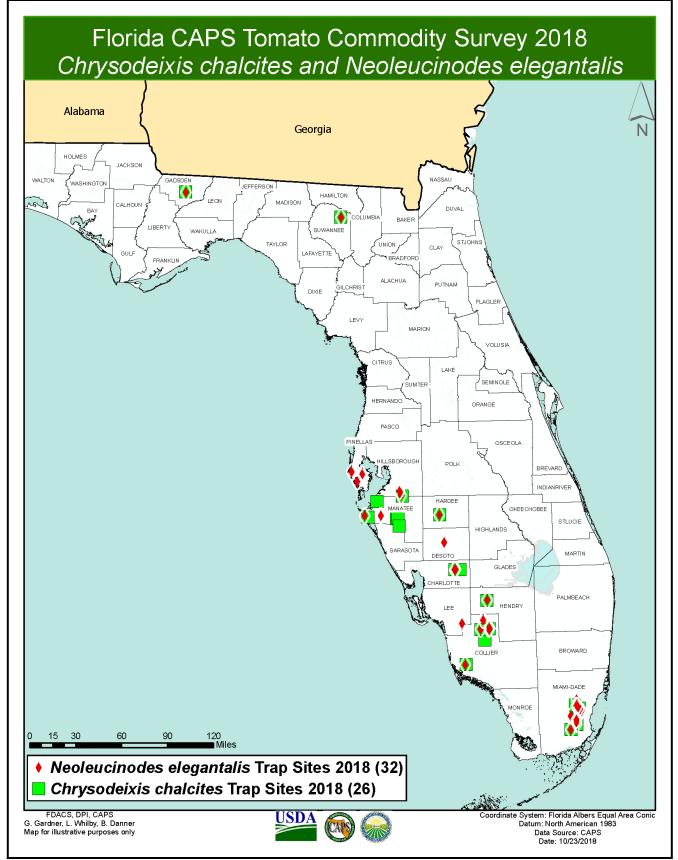
Dr. Leroy Whilby, FDACS-DPI- CAPS Program Manager; ENPP Bureau Chief Bradley Danner, FDACS-DPI-CAPS State Survey Coordinator Cynthia Moncrief, FDACS-DPI-CAPS



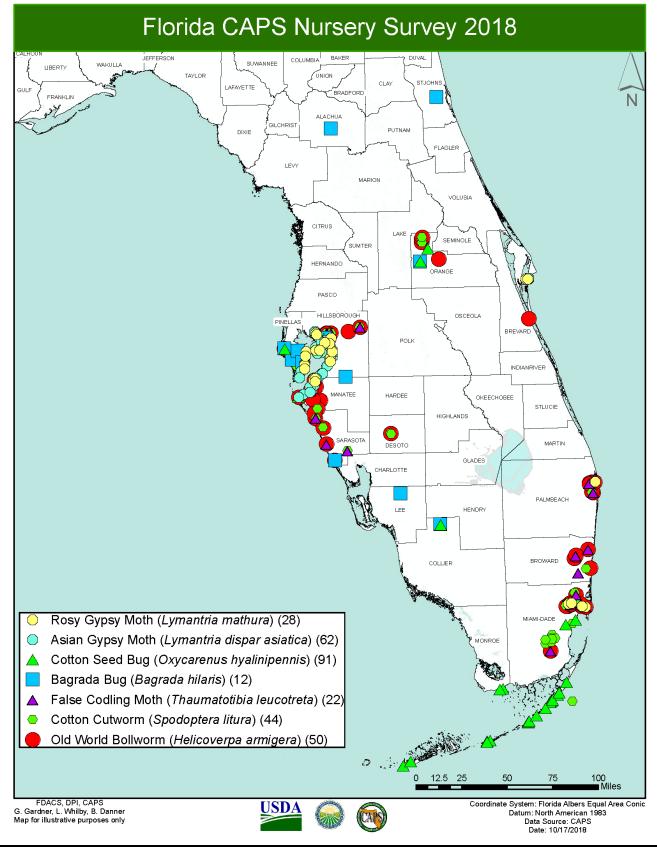
Map 1. Tomato Commodity Survey (part 1 of 3) – *Tuta absoluta* trap locations as of 9/2/2018.



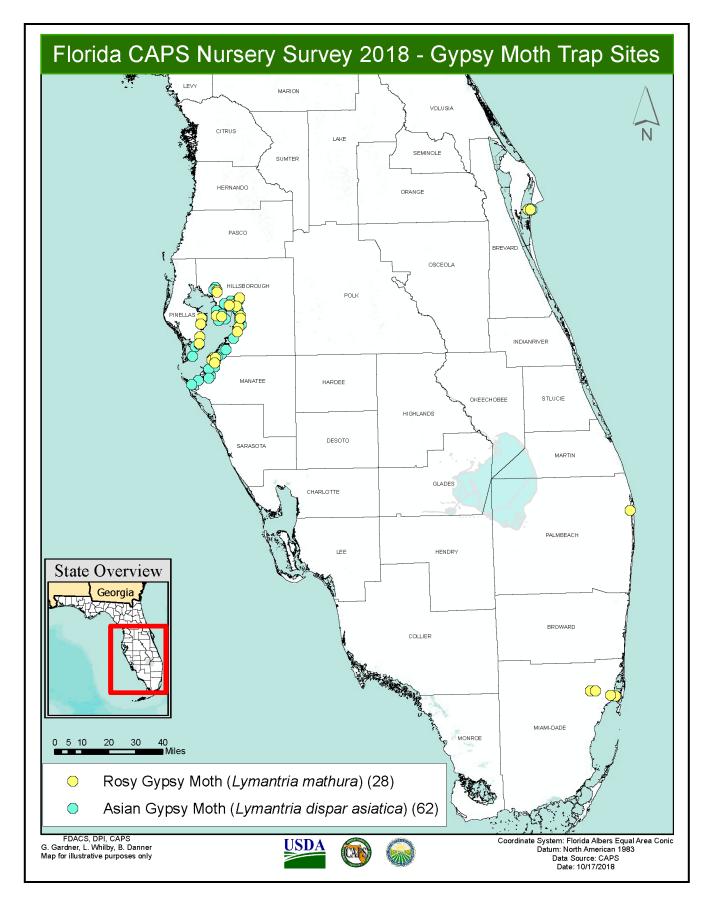
Map 2. Tomato Commodity Survey (part 2 of 3) – non-*Tuta* moth (*Helicoverpa armigera*, *Spodoptera litura*, *Spodoptera littoralis*) trap locations as of 9/2/2018.



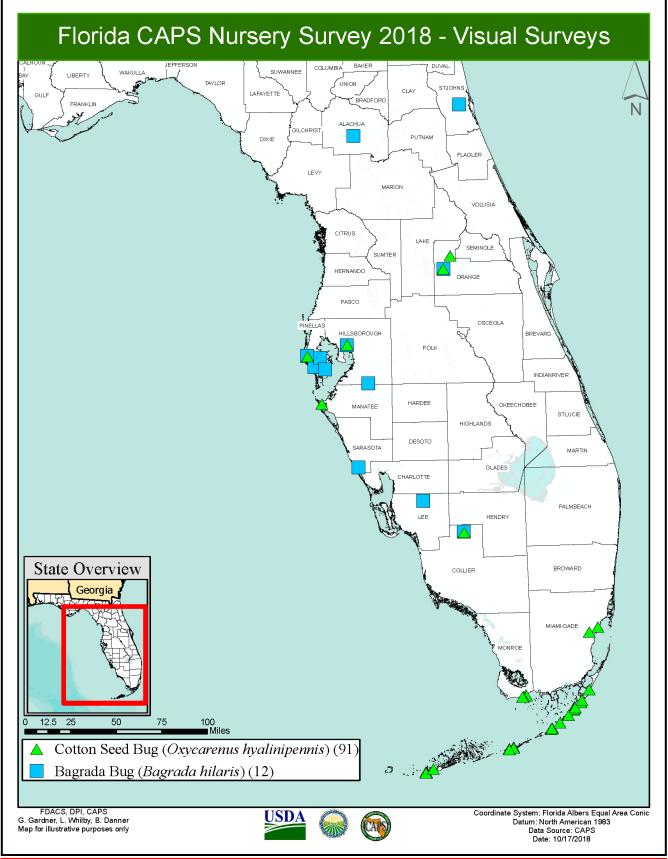
Map 3. Tomato Commodity Survey (part 3 of 3) – non-Tuta moth (*Neoleucinodes elegantalis, Chrysodeixis chalcites*) trap locations as of 9/2/2018.



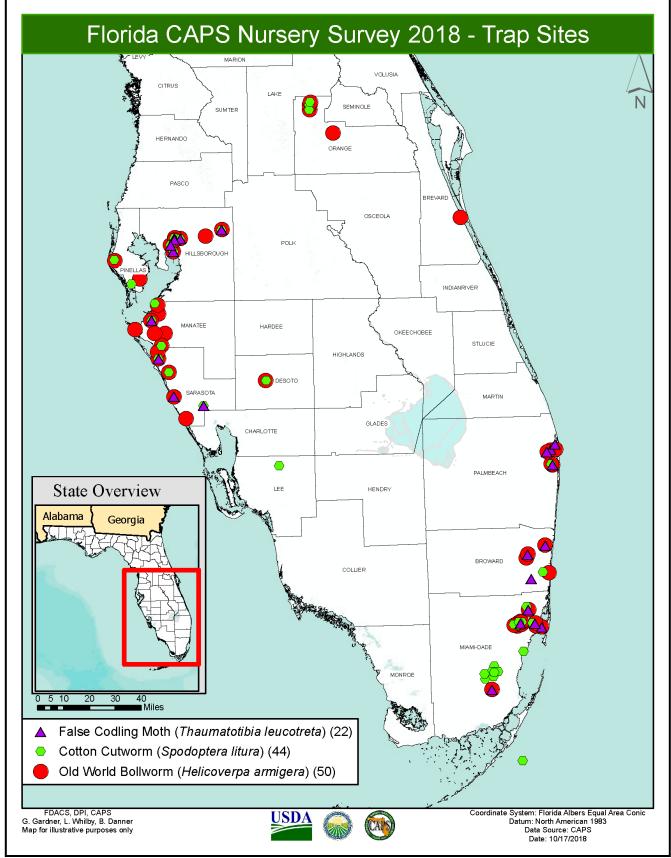
Map 4. Nursery Survey (part 1 of 4) – showing all trap and county locations of 7 target pests as of 9/2/2018.



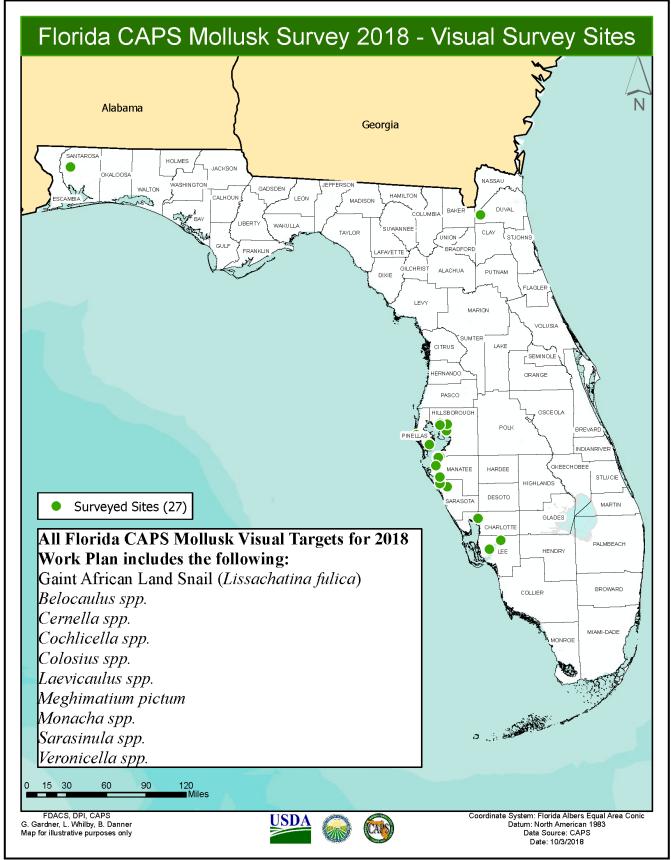
Map 5. Nursery Survey (part 2 of 4) – gypsy moth surveys: Asian gypsy moth (*Lymantria dispar asiatica*) and Rosy gypsy moth (*Lymantria mathura*), and the associated trap locations as of 9/2/2018.



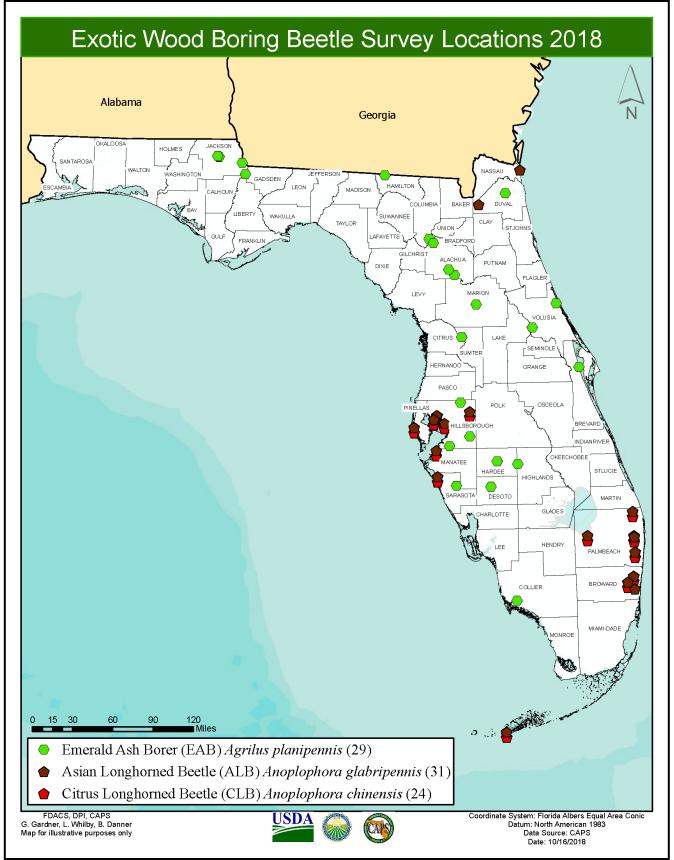
Map 6. Nursery Survey (part 3 of 4) – two (2) pests: cotton seed bug (*Oxycarenus hyalinipennis*), and Bagrada bug (*Bagrada hilaris*), with the associated visual survey locations as of 9/2/2018.

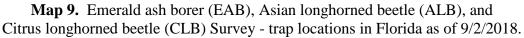


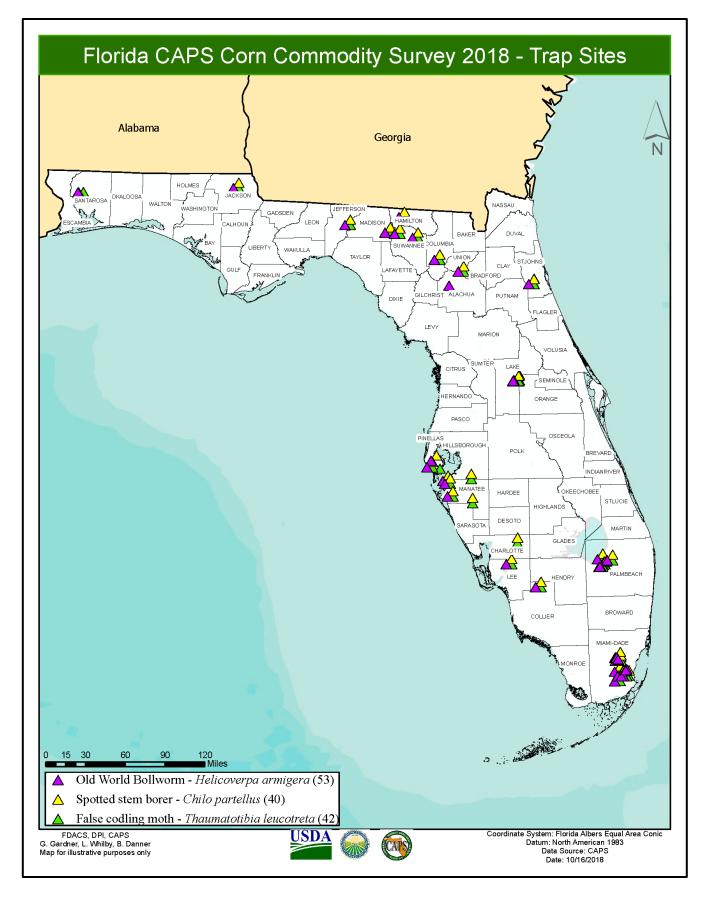
Map 7. Nursery Survey (part 4 of 4) – Old World bollworm (*Helicoverpa armigera*), Tobacco cutworm (*Spodoptera litura*), False codling moth (*Thaumatotibia leucotreta*) and the associated trap locations as of 9/2/2018.



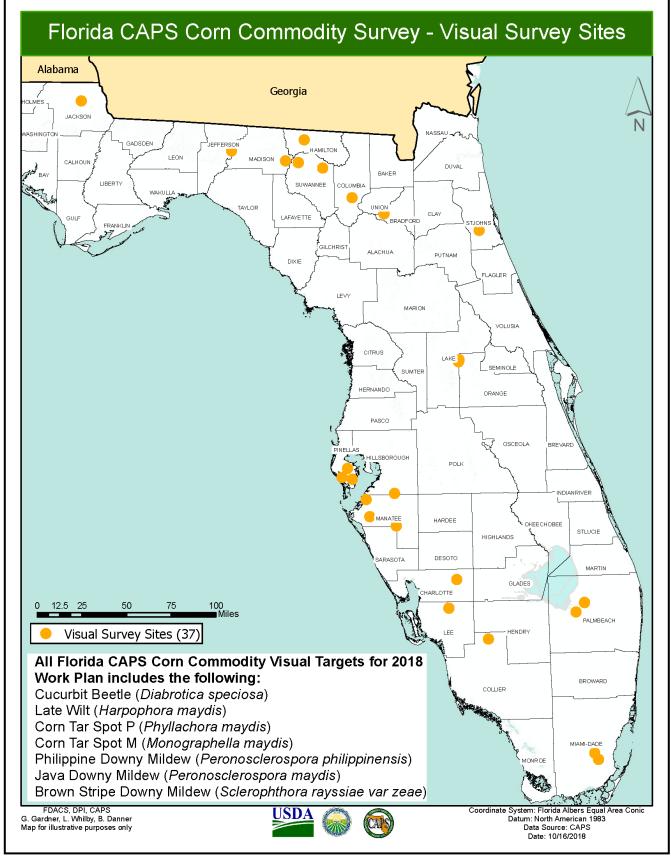
Map 8. Exotic Mollusk Survey – visual survey locations in Florida for ten (10) exotic pest mollusk/snail species as of 9/2/2018.



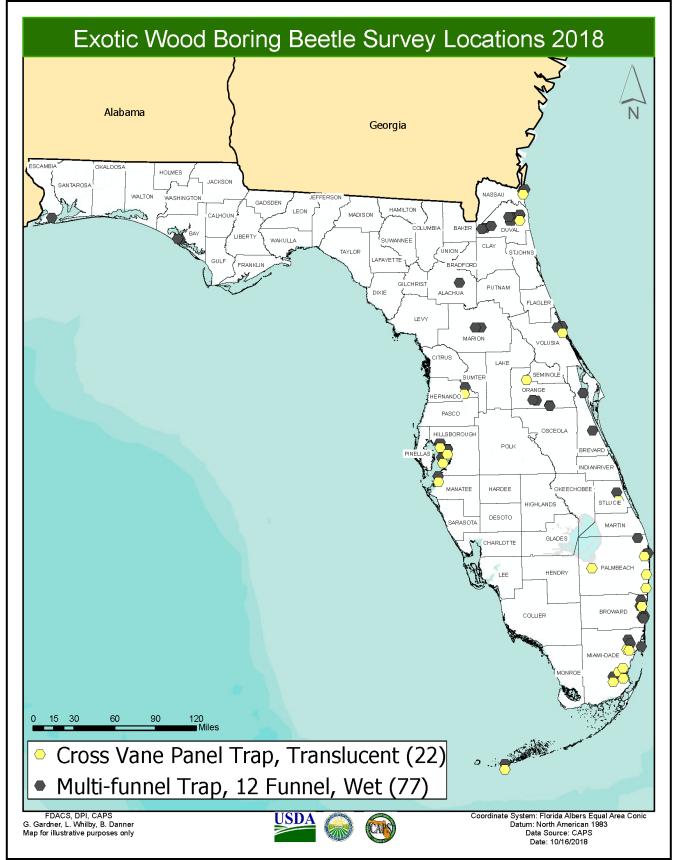




Map 10. Corn Commodity Survey – (part 1 of 2) – three (3) pests (*Helicoverpa armigera*, *Thaumatotibia leucotreta*, *Chilo partellus*) and the associated trap locations as of 9/2/2018.



Map 11. Corn Commodity Survey – (part 2 of 2) – visual survey locations in Florida as of 9/2/2018.



Map 12. Exotic Wood Boring Beetles/Solid Wood Packing Materials Survey (EWBB/SWPM) - trap locations in Florida as of 9/2/2018.

Figures:



Fig. 1. CAPS downloadable calendar for May 2018, featuring, *Rhagoletis mendax* Curran, aka the blueberry maggot, a pest of blueberries.