

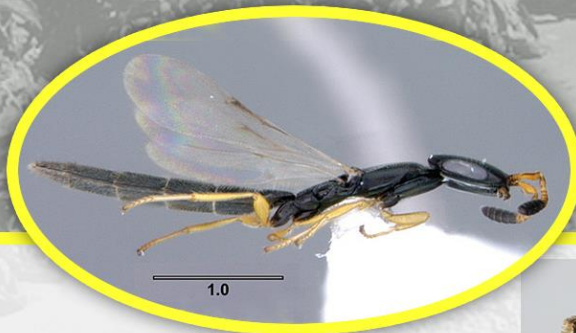


Florida Department of
Agriculture and
Consumer Services



Florida Cooperative Agricultural Pest Survey Program - Combined Survey

Final Report - Quarters 3 & 4 & 1
September 1, 2022 to February 28, 2023



Division of Plant Industry
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Florida Cooperative Agricultural Pest Survey Program
Final Report – Quarters 3 & 4 & 1, 2022-2023
September 2, 2022 to February 28, 2023

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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. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

NAPIS Data Base

Table 1a. Pest records entered into the NAPIS database, 3rd and 4th and 1st Quarter 2022-2023 during the period September 2, 2022 - February 28, 2023. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

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

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

County Records				
Pest Scientific Name	Pest Common Name	Host Scientific Name	Host Common Name	County
<i>Acanthococcus lagerstroemiae</i> (Kuwana, 1907)	crape myrtle scale	<i>Lagerstroemia sp.</i>	crape myrtle	Okaloosa
<i>Acanthococcus lagerstroemiae</i> (Kuwana, 1907)	crape myrtle scale	<i>Lagerstroemia sp.</i>	crape myrtle	Leon
<i>Nipaecoccus viridis</i> (Newstead)	Lebbeck Mealybug	<i>Citrus sp.</i>	citrus	Sarasota
<i>Nipaecoccus viridis</i> (Newstead)	Lebbeck Mealybug	<i>Gossypium sp.</i>	cotton	Pinellas
<i>Nipaecoccus viridis</i> (Newstead)	Lebbeck Mealybug	<i>Citrus sp.</i>	citrus	Monroe
<i>Thrips parvispinus</i> (Karny)	papaya pest	<i>Asclepias sp.</i>	milkweed	Indian River
<i>Thrips parvispinus</i> (Karny)	papaya pest	<i>Gardenia sp.</i>	gardenia	Collier
<i>Phenacoccus solani</i> Ferris	solanum mealybug	N/A	N/A	Okaloosa
<i>Tinocallis ulmiparvifoliae</i> Matsumura	Chinese elm aphid	<i>Ulmus parvifolia</i> Jacq.	Chinese elm	Brevard
<i>Spodoptera pulchella</i>	Caribbean armyworm moth	<i>Eriobotrya japonica</i>	loquat	Volusia
Total = 10				

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

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 = 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					

HISTORICAL County 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 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, 3rd and 4th and 1st Quarter 2022-2023 during the period September 2, 2022 - February 28, 2023. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

County	# of Records
Okaloosa	2
Brevard	1
Collier	1
Indian River	1
Leon	1

County	# of Records
Monroe	1
Pinellas	1
Sarasota	1
Volusia	1
Total = 10	

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

County	# of Records	County	# of Records
N/A	N/A	N/A	N/A
			Total = 0

Table 3a. U.S./State records for plant pests only, 3rd and 4th and 1st Quarter 2022-2023 during the period September 2, 2022 - February 28, 2023. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

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

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

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, 3rd and 4th and 1st Quarter 2022-2023 during the period September 2, 2022 - February 28, 2023. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

State Pest Survey Efforts					
Target Organism Scientific Name	Target Organism Common Name	Counties Surveyed	# Traps / Locations / Sites	# Specimens	# of Records
<i>Agrilus planipennis</i> Fairmaire	emerald ash borer (EAB), part of EWBB survey	N/A	N/A	N/A	0 *1
<i>Anoplophora glabripennis</i>	Asian long-horned beetle (ALB), part of EWBB survey	19	80-locs	0-neg	101 *3
<i>Anoplophora chinensis</i>	Citrus long-horned beetle (CLB), part of EWBB survey	18	75-locs	0-neg	117 *21
<i>Autographa gamma</i>	Silver Y moth (AG), part of CCS	16	42	510-neg	184 *11
<i>Autographa gamma</i>	Silver Y moth (AG), part of TCS	12	23	603-neg	133 *12
<i>Bagrada hilaris</i> (Burmeister)	Bagrada bug, part of NS	6	13-sites	0-neg	22 *16
<i>Bactericera cockerelli</i>	Potato psyllid (BC), part of TCS	16	32	1973-neg	80 *12
<i>Chrysodeixis chalcites</i>	Golden twin spot moth (CC), part of TCS	15	32	61-neg	104 *12
<i>Conogethes punctiferalis</i>	yellow peach moth (CoP), part of NS	18	69	2-neg	436 *17
<i>Cydalima perspectalis</i>	Box tree moth (BTM), part of NS	7	15	24-neg	66 *14
<i>Diabrotica speciosa</i>	cucurbit beetle (DS) part of CCS	8	12-locs	0-neg	27 *11
<i>Gymnandrosoma aurantianum</i>	Citrus fruit borer (GA), part of NS	22	52	825-neg	408 *5
<i>Helicoverpa armigera</i> (Hübner)	cotton bollworm (HA), part of NS	15	59	65-neg	469 *13
<i>Helicoverpa armigera</i> (Hübner)	cotton bollworm (HA), part of CCS	11	26	662-neg	101 *11
<i>Helicoverpa armigera</i> (Hübner)	cotton bollworm (HA), part of COTT	6	10	916-neg	59 *6
<i>Helicoverpa armigera</i> (Hübner)	cotton bollworm (HA), part of TCS	19	51	199-neg	327 *12
<i>Laodelphax striatellus</i>	Small brown planthopper (LS), part of CCS	N/A	N/A	N/A	0 *11
<i>Lissachatina fulica</i>	Giant African Snail (GALS), part of NS	12	63-locs	15-neg	94 *7
<i>Lissachatina fulica</i>	Giant African Snail (GALS), part of COTT	2	2-locs	1-neg	2 *6
<i>Lycorma delicatula</i>	spotted lanternfly (SLF), part of NS	11	21-locs	0-neg	27 *18
<i>Lycorma delicatula</i>	spotted lanternfly (SLF), part of EWBB	5	7	0-neg	12 *19
<i>Lymantria dispar asiatica</i> (L.)	Asian gypsy moth (AGM), part of NS	7	28	0-neg	139 *2
<i>Magnaporthiopsis (Harpophora) maydis</i>	Late wilt (LW), part of CCS	8	12-locs	0-neg	27 *11
<i>Monographella maydis</i>	Corn tar spot M (CTS-M), part of CCS	8	12-locs	0-neg	27 *11
<i>Neoleucinodes elegantalis</i>	Tomato fruit borer (NE), part of TCS	9	14	0-neg	40 *12
<i>Phyllachora maydis</i>	Corn tar spot P (CTS-P), part of CCS	8	12-locs	0-neg	27 *11
<i>Oxycarenus hyalinipennis</i> (Costa)	cotton seed bug (OH-CSB), part of NS	7	9-sites	2-neg	20 *10
<i>Oxycarenus hyalinipennis</i> (Costa)	cotton seed bug (OH-CSB), part of COTT	5	10-sites	0-neg	18 *6
<i>Peronosclerospora philippinensis</i>	Philippine downy mildew (PDM), part of CCS	8	12-locs	0-neg	27 *11
<i>Sipha maydis</i>	Barley aphid (SM), part of CCS	8	12-locs	0-neg	27 *11
<i>Spodoptera litura</i> (F.)	rice cutworm (RCW or SLA), part of NS	16	67	88-neg	565 *15
<i>Spodoptera litura</i> (F.)	rice cutworm (RCW or SLA), part of COTT	5	9	11-neg	54 *6
<i>Spodoptera litura</i> (F.)	rice cutworm (RCW or SLA), part of TCS	11	15	27-neg	105 *12
<i>Stenoma catenifer</i>	avocado seed moth (SC), part of NS	11	35	2-neg	155 *20
<i>Thaumatotibia leucotreta</i> (Meyrick)	false codling moth (FCM-TL), part of NS	15	48	81-neg	263 *9
<i>Thaumatotibia leucotreta</i> (Meyrick)	false codling moth (FCM-TL), part of CCS	10	16	17-neg	64 *11
<i>Thaumatotibia leucotreta</i> (Meyrick)	false codling moth (FCM-TL), part of COTT	5	9	38-neg	57 *6
<i>Thaumatotibia leucotreta</i> (Meyrick)	false codling moth (FCM-TL), part of TCS	8	10	17-neg	49 *12
<i>Thaumatotibia pityocampa</i>	Pine processionary moth (TP), part of EWBB Survey	12	23	1-neg	79 *8

<i>Tuta absoluta</i>	Tomato leafminer (TA), part of TCS	19	43	0-neg	177 *12
Honey Bee Survey (for DPI Apiary)	honeybee survey -- 13 pest species	N/A	N/A	N/A	N/A
Bark Beetle / EWBB-SWPM Survey (9 total pest species but 5 counted here and other 4 are counted above)	<i>Hylobius abietis</i> , <i>Ips sexdentatus</i> , <i>Ips typographus</i> , <i>Platypus quercivorus</i> , and <i>Tomicus destruens</i> (excluding counts for ALB, CLB, <i>Thaumetopoea processionea</i> , and <i>Lycorma delicatula</i> listed separately).	20	72	approx 28,129-neg	574 *4
Commodity Survey – Nursery (NS) (12 pest species, listed above)	see <i>Bagrada</i> bug, <i>Conogethes</i> , BTM-Cydalima, OH-CSB, GM-AGM-LDA, HA, SLA, <i>Stenoma</i> , SLF-Lycorma, TL, GALS, and <i>Gymnandrosoma</i> see above.	N/A	N/A	N/A	N/A
Cotton Survey (COTT) - 5 pest species, listed above	see <i>H. armigera</i> , <i>L. fulica</i> (GALS), <i>O. hyalinipennis</i> (CSB), <i>S. litura</i> (SLA), and <i>T. leucotreta</i> , see above.	10	40	966-neg	((190 *6))
Table 4b. Commodity Survey - Corn (CCS) - 10 pest species	<i>A. gamma</i> , <i>H. armigera</i> , <i>T. leucotreta</i> , <i>L. striatellus</i> , <i>D. speciosa</i> (beetle), <i>S. maydis</i> (aphid), 2-corn tar spots (<i>Phyllachora</i> and <i>Monographella</i>), <i>P. philippinensis</i> (downy mildew), and <i>Magnaportheopsis</i> (<i>Harpophora</i>) <i>maydis</i> (Late Wilt).	17	96	1,189-neg	((511 *11))
Table 4c. Commodity Survey - Tomato (TCS) - 8 pest species	<i>A. gamma</i> , <i>B. cockerelli</i> , <i>C. chalcites</i> , <i>H. armigera</i> , <i>N. elegantalis</i> , <i>S. litura</i> , <i>T. leucotreta</i> , and <i>Tuta absoluta</i> .	25	220	2,880-neg	((1,015 *12))
(()) = do not count in the Total					Total = 5,362

^{*1} EAB (part of EWBB Survey - see (*4)): No records were uploaded during this period and there were no traps installed in the field. Negative data entry was last completed in 2021, and all screenings and identifications to date are negative for both target species.

^{*2} AGM, EGM, PGM (Gypsy moths – AGM only): Surveys were done at 28 traps at 17 sites in 7 counties (Brevard, Broward, Duval, Hillsborough, Manatee, Miami-Dade, Nassau). Lab ID of survey samples is ongoing and data entry is in progress. Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*3} ALB (part of EWBB Survey - see (*4)): Visual surveys were done at 80 locations/traps at 59 sites in 19 counties (Alachua, Baker, Brevard, Charlotte, Duval, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Orange, Osceola, Pinellas, Polk, Sarasota, Seminole, St Johns, St Lucie). 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.

^{*4} EWBB/SWPM/Bark Beetle Survey: Surveys were done in May 2022-October 2022, representing approximately 28,129 negative insects submitted for analysis from 72 traps at 46 sites in 20 counties (Alachua, Bay, Brevard, Broward, Collier, Duval, Escambia, Hillsborough, Jackson, Manatee, Marion, Miami-Dade, Monroe, Nassau, Orange, Palm Beach, Polk, Sarasota, St Lucie, Volusia), resulting in 10-records (1-NSR and 9-NCR) of which only the 1-NSR was considered a pest and was entered in NAPIS. All samples were screened by CAPS Lab Technician Sara Furgeson for the 5 target species *Hylobius abietis*, *Ips typographus*, *Ips sexdentatus*, *Platypus quercivorus*, and *Tomicus destruens* (excluding counts for ALB, CLB, *Thaumetopoea* *Hylobius abietis*, *Ips sexdentatus*, *Ips typographus*, *Platypus quercivorus*, and *Tomicus destruens* (excluding counts for ALB, CLB, *Thaumetopoea processionea*, and *Lycorma delicatula* (SLF) listed separately). Lab ID of survey samples is ongoing and data entry is in progress. All screenings and ID's to date are negative for the five (5) target species.

^{*5} GA: Surveys were done at 52 traps at 49 sites in 22 counties (Alachua, Brevard, Broward, Collier, Gadsden, Hamilton, Hillsborough, Indian River, Lake, Lee, Manatee, Marion, Miami-Dade, Orange, Osceola, Pinellas, Sarasota, Seminole, St Johns, St Lucie, Suwannee, Volusia). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*6} COTT - Cotton Commodity Survey: Surveys were done for 5 pest species (*Lissachatina fulica* (GALS), *Oxycarenus hyalinipennis* (cotton seed bug), and the moths *Helicoverpa armigera*, *Spodoptera litura*, and *Thaumatotibia leucotreta*) at

40 traps/locations at 19 sites in 10 counties (Alachua, Gadsden, Hamilton, Jackson, Manatee, Marion, Monroe, Orange, St Lucie, Suwannee). Negative survey data entry was completed and all screenings and identifications to date are negative for all 5 target species.

^{*7} GALS (also see COTT (*6)): Visual surveys were done (Nursery Survey numbers only) at approximately 63 traps/locations at 49 sites in 12 counties (Alachua, Brevard, Charlotte, Columbia, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St Johns). Negative survey data entry is in progress and all screenings and identifications to date are negative for the target species.

^{*8} TP (part of EWBB Survey - see (*4)): Surveys were done at 23 traps at 23 sites in 12 counties (Alachua, Brevard, Collier, Highlands, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St Lucie). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*9} TL-FCM (also see COTT (*6), CCS (*11), and TCS (*12)): Surveys for *Thaumatotibia leucotreta* (false codling moth or TL-FCM) were done (Nursery Survey numbers only) at 48 traps at 48 sites in 15 counties (Alachua, Brevard, Broward, Charlotte, DeSoto, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, Seminole, St Johns, St Lucie). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*10} CSB (also see COTT (*6)): Visual surveys were done (part of Nursery Survey) at approximately 9 cotton sites/locations in 7 counties (Alachua, Lee, Manatee, Marion, Monroe, Pinellas, St Johns). Negative survey data entry is in progress and all screenings and identifications to date are negative for the target species.

^{*11} CCS – Corn Commodity Survey: Surveys were done (see Table 4b below) at 96 traps/locations at 43 sites in 17 counties (Alachua, Brevard, Charlotte, Columbia, Gadsden, Hamilton, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Miami-Dade, Pinellas, Sarasota, St Johns, Suwannee), resulting in 3-records (2-NCR and 1-NHR) of which only 1-NCR was considered a pest and was 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.

^{*12} TCS – Tomato Commodity Survey: Surveys were done (see Table 4c below) at 220 traps at 100 sites in 25 counties (Alachua, Brevard, Broward, Charlotte, Collier, Columbia, DeSoto, Duval, Gadsden, Hardee, Hendry, Hillsborough, Indian River, Lee, Manatee, Marion, Martin, Miami-Dade, Orange, Pinellas, Sarasota, Seminole, St Johns, St Lucie, Suwannee), resulting in 7-records (7-NCR), none of which were considered pests and none were 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 8 target species.

^{*13} HA (also see COTT (*6), CCS (*11), and TCS (*12)): Surveys were done (Nursery Survey numbers only) at 59 traps at 59 sites in 15 counties (Alachua, Brevard, Broward, Charlotte, DeSoto, Duval, Hillsborough, Lake, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St Johns). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*14} BTM (*Cydalima perspectalis*): Surveys were done at 15 traps at 11 sites in 7 counties (Alachua, Gadsden, Hillsborough, Lake, Martin, Orange, Pinellas). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*15} SLA or RCW (also see COTT (*6) and TCS (*12)): Surveys were done (Nursery Survey numbers only) at 67 traps at 64 sites in 16 counties (Alachua, Brevard, Broward, Charlotte, DeSoto, Duval, Hillsborough, Lake, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St Johns, St Lucie). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*16} Bagrada bug: Visual surveys were done at 13 sites/locations in 6 counties (Alachua, Brevard, Charlotte, Pinellas, Sarasota, Suwannee) on 7 host plants (bok choy, broccoli, cabbage, cauliflower, cole crops, collards, and kale). Lab ID of survey samples is ongoing, data entry is in progress, and all screenings and identifications to date have been negative for the target species.

^{*17} CoP: Surveys were done at 69 traps at 61 sites in 18 counties (Brevard, Broward, Collier, Duval, Highlands, Hillsborough, Lake, Lee, Manatee, Marion, Miami-Dade, Orange, Pinellas, Sarasota, Seminole, St Johns, St Lucie, Suwannee). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*18} SLF (Part of Nursery Survey): Visual surveys were done at 21 locations at 17 sites in 11 counties (Brevard, Charlotte, Hillsborough, Lake, Lee, Manatee, Marion, Orange, Pinellas, St Johns, Suwannee). Lab ID of survey samples is ongoing, data entry is in progress, and all screenings and identifications to date have been negative for the target species.

^{*19} SLF (part of EWBB Survey - see (*4)): Visual surveys were done at 7 locations at 7 sites in 5 counties (Alachua, Brevard, Duval, Orange, Seminole). Lab ID of survey samples is ongoing, data entry is in progress, and all screenings and identifications to date have been negative for the target species.

^{*20} SC: Surveys were done at 35 traps at 30 sites in 11 counties (Brevard, Hardee, Highlands, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St Lucie). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

^{*21} CLB (part of EWBB Survey - see (*4)): Surveys were done at 75 traps/locations at 69 sites in 18 counties (Brevard, Charlotte, Duval, Gadsden, Hillsborough, Lake, Lee, Manatee, Marion, Orange, Osceola, Pinellas, Polk, Sarasota, Seminole, St Johns, St Lucie, Suwannee). Negative data entry is in progress, and all screenings and identifications to date are negative for the target species.

Table 4b. Corn Commodity Survey (CCS) entered into NAPIS. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

CORN COMMODITY – uploaded data only	TRAPS *	COUNTIES	TRAP CHECKS	SPECIMENS	NAPIS ENTRIES
<i>Autographa gamma</i> = silver Y moth = AG	42	16	184	510	184
<i>Diabrotica speciosa</i> = Cucurbit beetle = DS	same as PDM	8	27	0	27
<i>Helicoverpa armigera</i> = HA	26	11	101	662	101
<i>Laodelphax striatellus</i> = small brown planthopper = LS	0	0	0	0	0
<i>Magnaporthiopsis (Harpophora) maydis</i> = Late wilt = LW	same as PDM	8	27	0	27
<i>Monographella maydis</i> = CTSM	same as PDM	8	27	0	27
<i>Peronosclerospora philippinensis</i> = Philippine downy mildew = PDM	12	8	27	0	27
<i>Phyllachora maydis</i> = CTSP	same as PDM	8	27	0	27
<i>Sipha maydis</i> = barley aphid = SM	same as PDM	8	27	0	27
<i>Thaumatotibia leucotreta</i> = TL	16	10	64	17	64
TOTALS:	96 **	17 *	511	1,189	511
* represents max # traps and max # counties of the collected data only. Does not represent actual #s of traps and counties currently active.					
** represents visual survey (no traps), so the numbers for “traps” listed are the same as site #s or location #s.					
17 counties total (Alachua, Brevard, Charlotte, Columbia, Gadsden, Hamilton, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Miami-Dade, Pinellas, Sarasota, St Johns, Suwannee).					
43 sites total.					

Table 4c. Tomato Commodity Survey (TCS) entered into NAPIS. The NAPIS data reported in this document captures the combined efforts of FDACS-DPI and USDA-APHIS-PPQ personnel.

TOMATO COMMODITY – uploaded data only	TRAPS *	COUNTIES	TRAP CHECKS	SPECIMENS	NAPIS ENTRIES
<i>Autographa gamma</i> = AG	23	12	133	603	133
<i>Bactericera cockerelli</i> = BC	32	16	80	1973	80
<i>Chrysodeixis chalcites</i> = CC	32	15	104	61	104
<i>Helicoverpa armigera</i> = HA	51	19	327	199	327
<i>Neoleucinodes elegantalis</i> = NE	14	9	40	0	40
<i>Spodoptera litura</i> = SLA	15	11	105	27	105
<i>Thaumatotibia leucotreta</i> = TL	10	8	49	17	49
<i>Tuta absoluta</i> = TA	43	19	177	0	177
TOTALS:	220	24 *	1,015	2,880	1,015
<i>* represents max # traps and max # counties of the collected data only. Does not represent actual #s of traps and counties currently active.</i>					
<i>** represents visual survey (no traps), so the numbers for "traps" listed are same as site #s.</i>					
<i>25 counties total (Alachua, Brevard, Broward, Charlotte, Collier, Columbia, DeSoto, Duval, Gadsden, Hardee, Hendry, Hillsborough, Indian River, Lee, Manatee, Marion, Martin, Miami-Dade, Orange, Pinellas, Sarasota, Seminole, St Johns, St Lucie, Suwannee).</i>					
<i>100 sites total.</i>					

Performance Measures:

Conferences/Trainings/Workshops	Hours	Training Provided by:
CAPS Monthly Conference Calls (9/22/2022, 10/20, 11/17, 12/15, 1/19/2023, (no Feb))	39.0	N/A
CAPS weekly/spontaneous meetings () Misc. meetings	122.3	BD, KA, KB - DPI & Program related conversations etc.
CAPS coordinators meetings () (approx. bi-monthly)	42.5	BD & J. Walker and/or L. Whilby and/or K. Ashman
(BD) National CAPS Committee (NCC) MS Teams (10/06, 11/03, 12/01, 01/05)	5.0	CAPS
(BD) National CAPS Committee Annual Meeting – Buzzards Bay, MA (01/30-02/02)	42.0	NCC (National CAPS Committee)
(MYC) BTAG Meetings (monthly)	6.0	CAPS
(BD) NFPRC conference calls, meetings (10/11/2022, 11/08, 12/13, 01/10, 02/14/2023)	7.0	USDA-PPQ, CAPS-FL, Lisa Pettit
(BD) Florida First Detector MS Teams Meetings ()	6.0	UF-IFAS, DPI, CAPS
CAPS Annual Workshop, Gainesville FL virtual & in-person (2/15/2023)	99.5	CAPS-FL, includes some post
CAPS Annual Pre-Workshop, Gainesville FL virtual & in-person (2/14/2023)	143.0	CAPS-FL, includes prep & post
(KB) LIST DPI Monthly/Weekly Meetings (9/6, 11/1 > 12/12/2022)(extra meetings 10/24, 10/26, 10/31, 12/12)	20.0	FDACS-DPI, BD, L. Whilby, Daniel G., Hector U.
(KB) LIST DPI Feedback Meetings, writeups, and Plant Path error routes protocol (1/12/2023, 1/13, 1/17, 1/18, 1/19, 2/10, 2/28)	17.0	FDACS-DPI, Hector U., Felipe SA., Patti A., Alex DLP., Daniel G., Leroy W., John McA., Jason S.

(KA, SF) CSE quarterly meeting	3.0	FSCA/CSE
(KB) ESRI Training and Learning Plans (Enterprise, Survey123)	7.8	ESRI
(KB) GIS DPI Monthly Meetings (9/11/2022, 9/25, 10/7, 11/4, 12/2) (extra meeting 10/31 w GG)	9.0	FDACS
(KB) Lime Swallowtail meetings (10/10, 12/6, 12/16, 12/20, 12/29/2022)	12.5	FDACS, CAPS, Leroy W., Kate F., Matt A.
(KB) Permits Dashboard meeting (12/7/2022, 12/8, 12/12, 12/13, 1/9/2023)	6.0	FDACS, Nicole C., Alicia L.
(KB) Lime Swallowtail pest identification training (James Hayden - 1/18/2023)	1.0	FDACS, Jim Hayden
(BD) PPA 7721 Suggestion Reviews ENPP	41.2	Submission Reviewer
(BD) FY23 OWB/Tomato Commodity Suggestion	6.1	BD, DPI
(BD) FY23 Cotton Seed Bug Suggestion	8.5	BD, DPI
(BD) Contingency Planning for Outbreaks of Quarantine Pest Document Review	5.8	BD, L. Whilby
(KB) Survey123 Training/Setup support for New Surveyor (1/5, 2/15, 2/16, 2/20/2023)	5.0	KB, MaryYC
(KB) CAPS Employee training (tour, orientation, data reviews)	83.0	FDACS
New Employee Orientation training (AgAcademy 9/14 & 9/15/2023 virtual & live course)	12.0	FDACS AgAcademy
Annual FDACS-DPI Required training	6.0	FDACS-DPI - KB, BD

Subtotal:	756.1	HOURS
Projects	Hours	Acres Surveyed / Other
Artwork: downloadable calendars	1.5	CM
CAPS Qtr 1&2&3 Accomplishment Report 2022	72.5	CM / BD / KB
Perf Measures Qtr 3 (all) 2022	24.0	CM / KA / KB / SF / BD / MYC
Perf Measures Qtr 4 (all) 2022	18.0	CM / KA / KB / SF / BD / MYC
Perf Measures Qtr 1 (all) 2023	4.0	CM / KA / KB / SF / BD / MYC
PM's Q3 CAPS to DPI (DPI Q1) to ENPP	2.0	CM
Special Report for JakeF AreaC all moth surveys 2022 for MIS	6.0	CM
TCS-Tuta Accomplishment Report, Mar-Sept 2022 (Final)	38.0	CM // BD
(BD) CAPS Infrastructure Semi-Annual Accomplishment Report FY22	14.0	BD
(BD) Lime Swallowtail SITREP	7.0	BD
(BD) DPI Biennial Report 2020-2022	4.0	BD
(BD) Lime Swallowtail SITREP	3.0	BD // L. Whilby
(BD) Tuta absoluta Table Top Exercise (02/16/2023)	10.0	USDA, DPI (includes prep)
(BD) Farm Bill - Plant Protection Act - Uploads to Metastorm	1.7	BD, KA, DPI, PPQ
(KB) CAPS Workshop maps (Corn, Cotton, Tomato, Nursery, EWBB, EDRR)	32.0	KB=mapping & technical support
(KB) CAPS Accomplishment Report maps (Corn, Cotton, Tomato, Nursery, EWBB)	36.7	KB=mapping & technical support
(KB) Survey123 maintenance/troubleshooting	27.2	KB=mapping & technical support
(KB) Survey123 data export script maintenance	8.2	KB=mapping & technical support
(KB) Survey123 Excel datasheet Power Query customization and fixing	13.4	KB=mapping & technical support
(KB) Mobile App (Survey123) and Survey123 Invasive Pest Surveys development & historical data	49.3	KB=mapping & technical support
(KB) CAPS Survey WebAPP Customization & updating	32.2	KB=mapping & technical support
(KB) Stinkbug research paper maps (for Kate Fairbanks)	8.8	KB=mapping & technical support
(KB) Permitted facilities data & dashboard prep/upload (For Nicole Casuso)	72.0	KB=mapping & technical support
(KA) Other DPI committees	10.0	KA
(KA) CSE Responsibilities: Registering articles in Zoobank and sending out monthly emails to CSE members	25.2	KA, CSE
(KA) CAPS Timeline	1.7	KA
(BD) Other Personnel Issues	5.7	BD

(BD) National CAPS Committee (NCC) duties	16.0	CAPS - BD prep for Annual Meeting
(BD) Laboratory Technician IV position	10.0	Gainesville - Position description/requisition/Interviews
(BD) Travel reservations for M. Carfagno	13.4	BradD, MaxC
(BD) GIS Position - GIS Position Interviews, Hiring Package, Onboarding	6.1	BD=Position Description, Requisition, Interviews

Subtotal:	573.7	HOURS
NAPIS	Hours	
NAPIS ongoing	6.0	N/A
NAPIS-- <i>Autographa gamma</i>	29.0	N/A
NAPIS--ALB & CLB	12.0	N/A
NAPIS--Bagrada bug (<i>Bagrada hiliaris</i>)	5.0	N/A
NAPIS--BC psyllid (<i>Bactericera cockerelli</i>)	22.0	N/A
NAPIS--BTM/Box Tree Moth (<i>Cydalima perspectalis</i>)	3.0	N/A
NAPIS--CC (<i>Chrysodeixis chalcites</i>)	5.0	N/A
NAPIS--CDM = 2 spp. corn downy mildew (part of CCS)	4.0	N/A
NAPIS-- <i>Cernuella virgata</i> (part of SG)	0	N/A
NAPIS-- <i>Cochlicella sp.</i> (part of SG)	0	N/A
NAPIS--Corn Tar Spot (2 spp.)	0	N/A
NAPIS--CoP (<i>Conogethes punctiferalis</i>)	10.0	N/A
NAPIS--CP (<i>Chilo partellus</i>)	0	N/A
NAPIS-- <i>Diabrotica speciosa</i> (part of CCS)	0	N/A
NAPIS--EAB (Emerald ash borer)	1.0	N/A
NAPIS-- <i>Gymnandrosoma aurantianum</i> (part of NS)	23.0	N/A
NAPIS--GALS (<i>Lissachatina fulica</i>)	6.0	N/A
NAPIS--Gypsy/Spongy Moth (<i>Lymantria dispar asiatica</i>)	8.0	N/A
NAPIS--HA (<i>Helicoverpa armigera</i>)	36.0	N/A
NAPIS-- <i>Harpophora maydis</i> (LW) (part of CCS)	0	N/A
NAPIS--Honeybee National Survey - for Apiary	0	N/A
NAPIS-- <i>Laodelphax striatellus</i> -- (part of CCS and SG)	0	N/A
NAPIS-- <i>Lycorma delicatula</i> (part of NS and EWBB)	4.0	N/A
NAPIS--NE (<i>Neoleucinodes elegantalis</i>)	6.0	N/A
NAPIS-- <i>Oxycaenus hyalinipennis</i> (CSB or cotton seed bug)	4.0	N/A
NAPIS-- <i>Spodoptera litura</i> (SLA)	16.0	N/A
NAPIS-- <i>Sipha maydis</i> (part of CCS and SG)	0	N/A
NAPIS-- <i>Stenoma catenifer</i> (avocado seed moth)	4.0	N/A
NAPIS--SWPM or EWBB (solid wood packing materials)	12.0	N/A
NAPIS--TL or FCM (<i>Thaumatotibia leucotreta</i>)	23.0	N/A
NAPIS-- <i>Thaumetopoea proceSSIONea</i> (part of EWBB)	3.0	N/A
NAPIS-- <i>Tuta absoluta</i> (TA)	16.0	N/A
Corn Commodity Survey (CCS)	0	N/A
Nursery Survey (NS)	0	N/A
Tomato Commodity Survey (TCS)	0	N/A
Small Grains Survey (SG)	0	N/A
EDRR - Early Detection Rapid Response	0.5	N/A

Subtotal:	258.5	HOURS
IDENTIFICATIONS	Hours	

EAB (Emerald ash borer)	0	approximately 0 Samples, ~0 Specimens
EWBB-SWPM	625.0	approximately 907 Samples, ~41,589 Specimens
ISS-Interdiction (*Sara Furgeson is temporarily screening ISS samples)	60.0	approximately 52 Samples, ~1,200 Specimens

Subtotal:	685.0	HOURS
SURVEYS	Hours	
ALB - Asian longhorned beetle (Nassau, Duval Counties)	14.0	KA=2 sites // KB=mapping support for DougG and ScottW
Corn Commodity Survey (CCS)	155.7	KA=11 sites // BD=meetings, calls, discussions, emails
Cotton Survey	112.7	KA=11 sites // BD=meetings, calls, discussions, emails
Cotton Seed Bug Survey (see <i>Oxycarenus</i>)	0.0	(Reference placeholder only)
EDRR - Early Detection Rapid Response	30.7	KA=12 sites // BD=meetings, calls, discussions, emails
EWBB - (see SWPM)	0.0	(Reference placeholder only)
Giant African Land Snail – Emergency Program	3.0	KA=0 shift // BD=meetings
Exotic snail survey Jacksonville (2/6/2023)	5.0	KB
<i>Ips typographus</i> Program (maps, Survey123, WebApp)	26.0	KB=mapping support
Lime Swallowtail - Survey123 support & WebApp development etc.	277.0	KB=mapping support
Lime Swallowtail - Emergency Program (Key West) - (10/17/2022), (11/14/2022), (1/23/2023)	258.0	KA=3 weeks survey // KB = 2 weeks survey // BD=meetings, calls, discussions, emails
Mollusk Survey	8.7	BD=meetings, calls, discussions, emails
Nursery Survey (Cotton, SLA, TL, HA, GA, SC, CoP, visual)	183.6	KA=11 sites // MYC=14 sites // BD=calls, discussions, emails
<i>Oxycarenus hyalinipennis</i> (OH-CSB) & cotton	0.0	MYC=0 sites // BD=meetings, calls, discussions, emails
Stinkbug research paper maps (for Kate Fairbanks)	1.0	KB=mapping support
SWPM (aka EWBB)	179.2	KA=15 sites // MYC=4 sites // KB=mapping support // BD=meetings, calls, discussions, emails
Tomato Commodity Survey	1705.3	KA=10 sites // MC, PP =many sites incl OWB // BD=meetings, calls, discussions, emails
<i>Thrips parvispinus</i> survey in cactus, peppers, and tomato, January 2023? (Naples, FL)	54.0	MYC, PP, many sites
Potato Wart	0.7	BD=meetings, calls, discussions, emails
<i>Trichodesma sp.</i> (for Kyle Schnepf - genus revision research paper maps)	4.0	KB=mapping support
Red cylinder experimental trap deployment in field	1.7	KA=3 sites
(KB) CAPS Sentinel Site & Trap Activity Reports	13.0	CAPS
(JD) CAPS Office Coverage Areas	5.0	KB=mapping support

Subtotal:	3,038.3	HOURS
Presentations – Public Outreach	Hours	No. of People in Audience
(BD) New Inspector Training Presentation – Class 96, Gainesville FL (02/23/2023)	2.0	~12 (time includes prep)
(MYC) CAPS-South Florida Corn Survey/Update Presentation at the Sweet Corn Management Workshop, UF-IFAS EREC in Belle Glade, FL (12/6/2022)	3.0	~50

Subtotal:	5.0	HOURS
Other Pertinent Activities	Hours	
Backup & Organize I-drive, mapping (other, misc.)	64.5	CM // GIS

Miscellaneous	55.0	CM // GIS
New employee (training Ariana G)	25.3	KA, SF, JB
Timesheets	6.0	KA (approving, completing for SF, AM)
Traps and Lures Inventory - organizing, communicating, ordering, updating, distribution	118.1	KA - includes S. FL ordering needs
Computer (new) - backing up, installing	11.0	CM
Purchasing supplies	23.3	KA
Truck maintenance (includes stocking truck bed, filling out monthly mileage sheets, repairs)	36.7	KA
Field Preparations: Includes scheduling, supplies, loading vehicle, daily log	50.5	KA (Field Schedule calendar + daily log)
Sample Submission & Screening: filling out paperwork and preparing samples for submission	59.9	KA
(KA) Trapping Submission forms, spreadsheets etc. for Cooperators	38.3	KA
Pack and ship supplies to cooperators	52.9	MYC
For Entomology - cleaning, preparing psyllid, <i>Hymenoptera</i> , <i>Miridae</i> samples for Entomology Department	45.8	SF
Inhouse OTJ training - general Coleoptera studies and curation	38.8	SF // KA
Database entry by PSS & Technicians (Survey 123 & Collector apps & others)	136.7	SF // KA // BD
LIST Support & Testing & Issues (12/6, 12/8, 12/9, 12/13, 12/14, 12/15, 12/16 & 12/19/2022)	49.7	KB // KA
LIST Data Entry	63.2	SF // KA // MYC // CM
SSC - miscellaneous duties of the SSC	69.9	BD=Reviewing, meetings, material & equip. procurement

Subtotal:	945.5	HOURS
TOTAL ALL SECTIONS:	6,262.1	HOURS
US-State-County-Host Records (species) found by CAPS and entered in NAPIS:	Record	Date & Survey
The records below are pests and were/will entered be in NAPIS:		
02222023-01503	<i>Ips typographus</i> (a beetle)	Brevard
10192022-09271	<i>Papilio demoleus</i> (Key lime swallowtail butterfly)	Monroe
01302023-00647	<i>Nipaeococcus viridis</i> (a mealybug)	Monroe
01302023-00640	<i>Telenomus sanctivinceni</i> (a parasitoid wasp)	Monroe
	Sub Total:	4
		Records
The records below are not pests (or other reason), so were not entered in NAPIS:		
02272023-01621	<i>Allograpta obliqua</i> (a flower fly)	Suwannee
09272022-08783	<i>Aneurus leptocerus</i> (a flat bark bug)	Hillsborough
11092022-10049	<i>Catonia bicinctura</i> (a planthopper)	Indian River
01042023-00021	<i>Chionomus quadrispinosus</i> (a delphacid)	Hillsborough
09082022-08182	<i>Empicoris rubromaculatus</i> (an assassin bug)	Jackson
09082022-08182	<i>Empicoris rubromaculatus</i> (an assassin bug)	Jackson
09122022-08244-01	<i>Heteropsylla quassiae</i> (a legume psyllid)	Lee
12212022-11151	<i>Holcocranum saturejae</i> (a seed bug)	St Johns

02132023-01158	<i>Iccius cylindricus</i> (a beetle)	Collier	NCR (*)	20230131	CAPS-EWBB--SharonH
01172023-00317	<i>Leucania senescens</i> (senescent wainscot moth)	Indian River	NCR (*)	20230103	CAPS-TCS-HA--AlexT
11072022-09958	<i>Liburniella ornata</i> (a planthopper)	Bay	NCR (*)	20221117	CAPS-EWBB--DavidM
09262022-08742	<i>Pareuidella triloba</i> (a delphacid)	Manatee	NCR (*)	20220912	CAPS-EWBB--DRG
02172023-01315	<i>Phytocoris nigricollis</i> (a mirid)	Alachua	NCR (*)	20230209	CAPS-EWBB--RL-KA
11292022-10434	<i>Pselliopus cinctus</i> (an assassin bug)	Escambia	NCR (*)	20221129	CAPS-EWBB--EthanK
12092022-10803	<i>Pselliopus cinctus</i> (an assassin bug)	Santa Rosa	NCR (*)	20221209	CAPS-EWBB--AngieH
12092022-10805	<i>Pselliopus cinctus</i> (an assassin bug)	Suwannee	NCR (*)	20221209	CAPS-EWBB--AngieH
P2023-01262023-00594	<i>Puccinia paullula</i> (monstera rust)	Monroe	NCR (*)	20230125	CAPS-LimeS--PaolaRPerez
12272022-11221	<i>Pygospina spinata</i> (a delphacid)	Manatee	NCR (*)	20221228	CAPS-EWBB--DRG
02022023-00850	<i>Sericophanes heidemanni</i> (an ant mimic)	Indian River	NCR (*)	20230130	CAPS-TCS-BC--AlexT
09132022-08282-02	<i>Stobaera tricarinata</i> (Delphacidae)	Columbia	NCR (*)	20220906	CAPS-CCS-LS--RL
10142022-09136	<i>Tropidosteptes forestierae</i> (Florida privet bug)	Pinellas	NCR (*)	20221004	CAPS-TCS-BC--DRG
09122022-08244-02	<i>Xestocephalus subtessellatus</i> (a leafhopper)	Lee	NCR (*)	20220908	CAPS-TCS-BC--DRG
12132022-10909	<i>Hysteroneura setariae</i> (rusty plum aphid)	Miami-Dade	NHR (*)	20221209	CAPS-NSY--MYC
N2022-08222022-07643	<i>Meloidogyne javanica</i> (a nematode)	Marion	NHR (*)	20220822	CAPS-CCS-VIS--RL
		Sub Total:	24	Records	
		Grand Total:	28	Records	
(*) denotes non-pest, therefore not entered in NAPIS					

Approved and signed by

Cooperator

Date: _____

ADODR

Date: _____

FDACS-DPI-CAPS and USDA-PPQ-CAPS Personnel:

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Photography Credits:

Cover page:

Background photo – Nursery Survey in tomato field in South Florida, Spring 2021, by Lilliam Otero-Pujol FDACS-DPI-CAPS.

Photographs (left to right) courtesy of:

LEFT PANEL:

--CAPS Corn Commodity Survey for *Thaumatotibia leucotreta* in N. Central Florida, Robert Leahy USDA-PPQ, April 2021, photo by Krystal Ashman FDACS-DPI-CAPS.

RIGHT PANEL (left to right):

--Possible New State Record: *Choreutis sexfasciella* (an invasive moth pest of Ficus), photo by L.C. Shih, 2010, Wikimedia #5028649096.

--New USA Record: *Platyscelio pulchricornis* (a predator wasp), photo by Charuwat Taekul et al, June 2010, Wikimedia #13047.

--New US Continental Record: *Chabula acamasalis* (a snout moth) photo by Hsu Hong Lin, 2017, Wikimedia #34134698005.

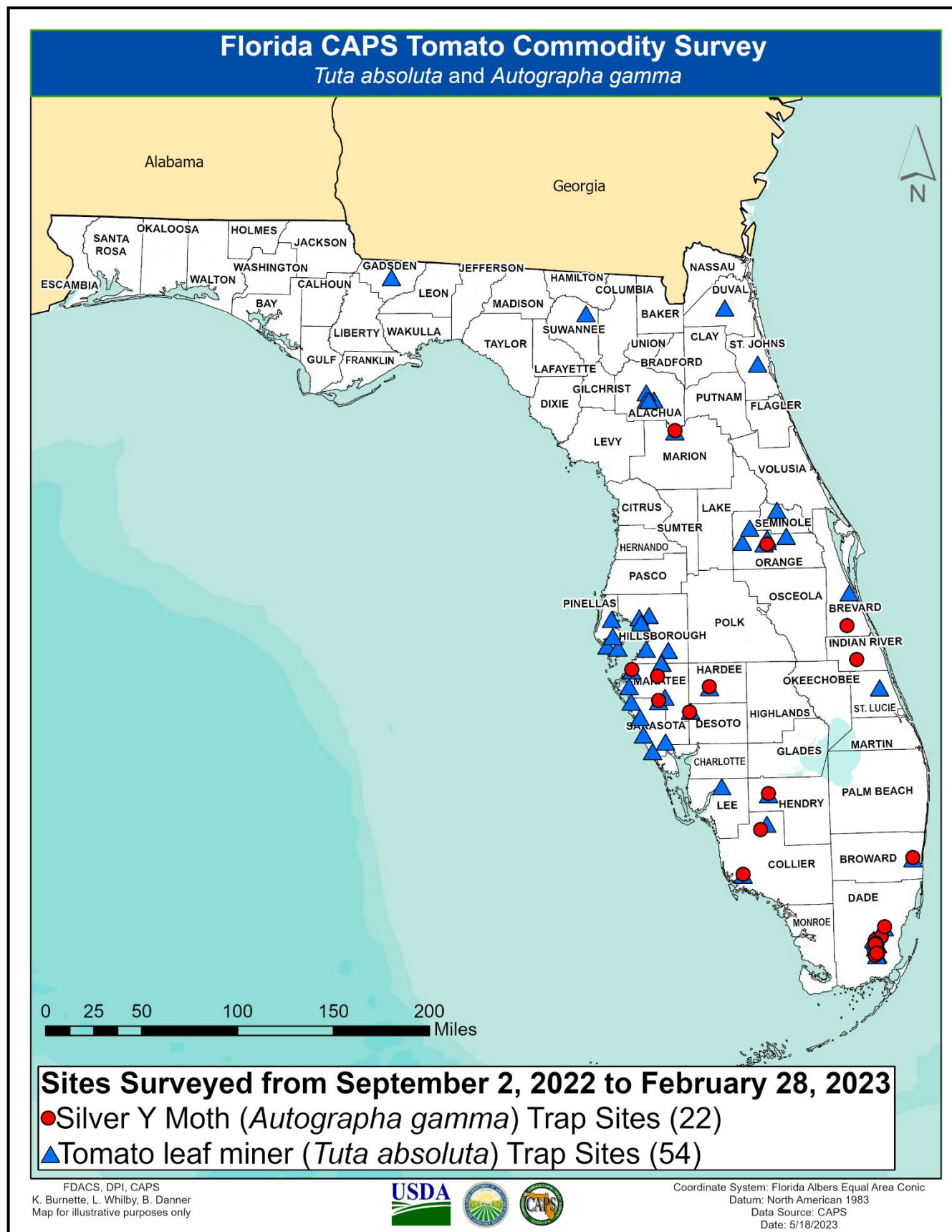
Interior pages:

Maps by Kevin Burnette, FDACS-DPI.

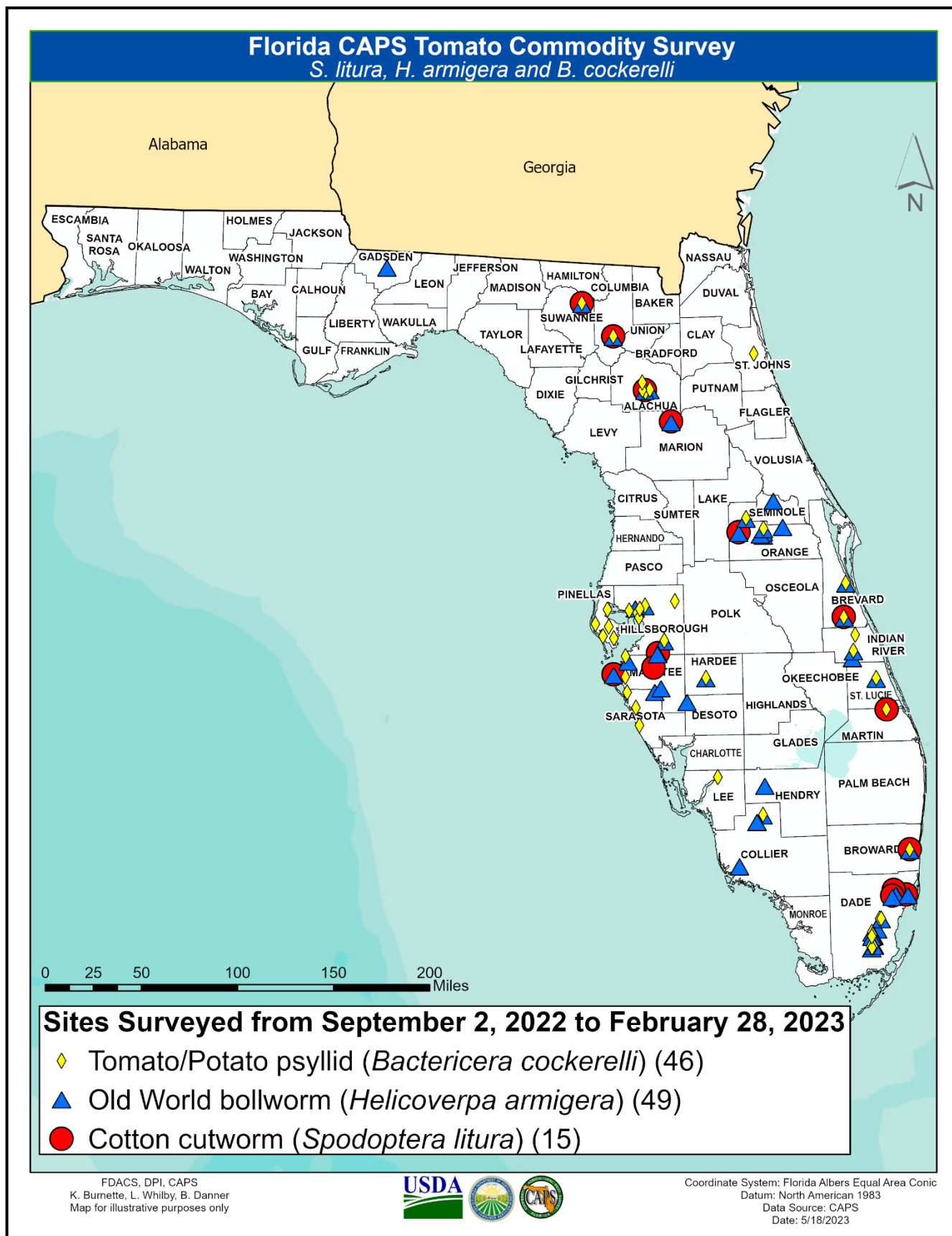
Photographs courtesy of: Downloadable calendar, design by Cyndi Moncrief, FDACS-DPI-CAPS.

Prepared By:

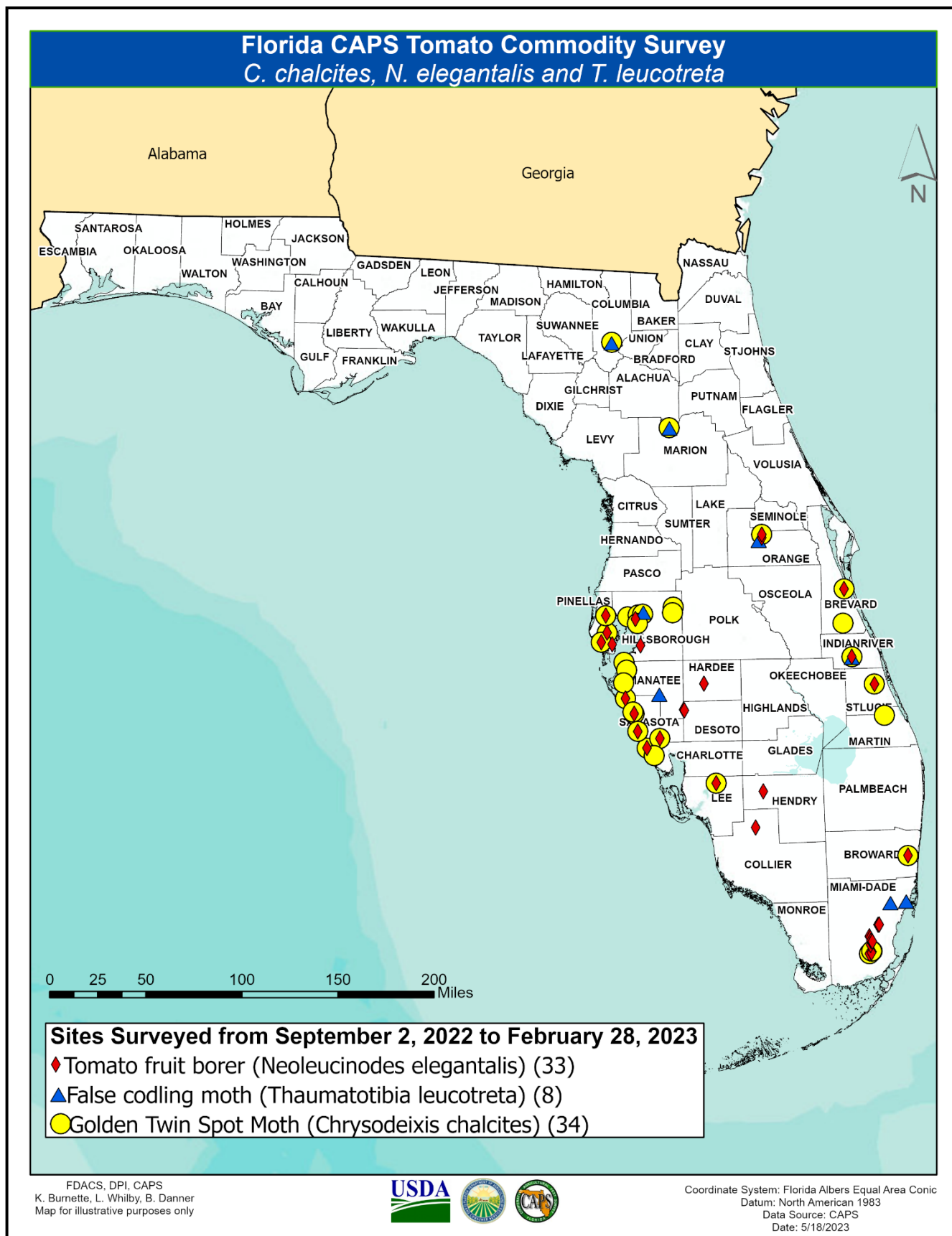
Dr. Leroy Whilby, FDACS-DPI- CAPS Program Manager; ENPP Bureau Chief
Bradley Danner, FDACS-DPI-CAPS State Survey Coordinator
Cynthia Moncrief, FDACS-DPI-CAPS



Map 1. Tomato Commodity Survey (part 1 of 3) – *Tuta absoluta* and *Autographa gamma* moth trap locations as of 02/28/2023.

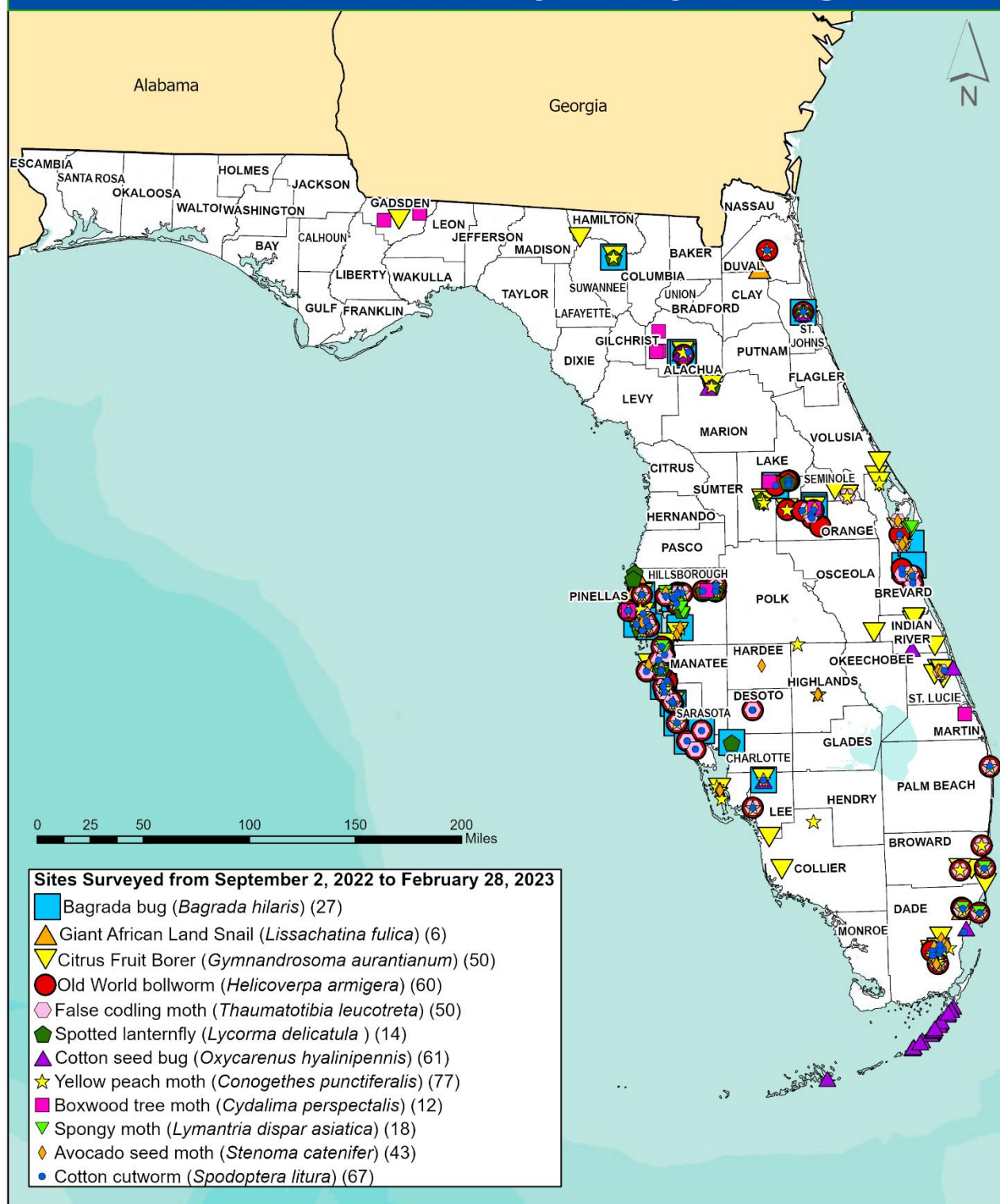


Map 2. Tomato Commodity Survey (part 2 of 3) – *Helicoverpa armigera* and *Spodoptera litura* moth traps and *Bactericera cockerelli* psyllid trap locations as of 02/28/2023.

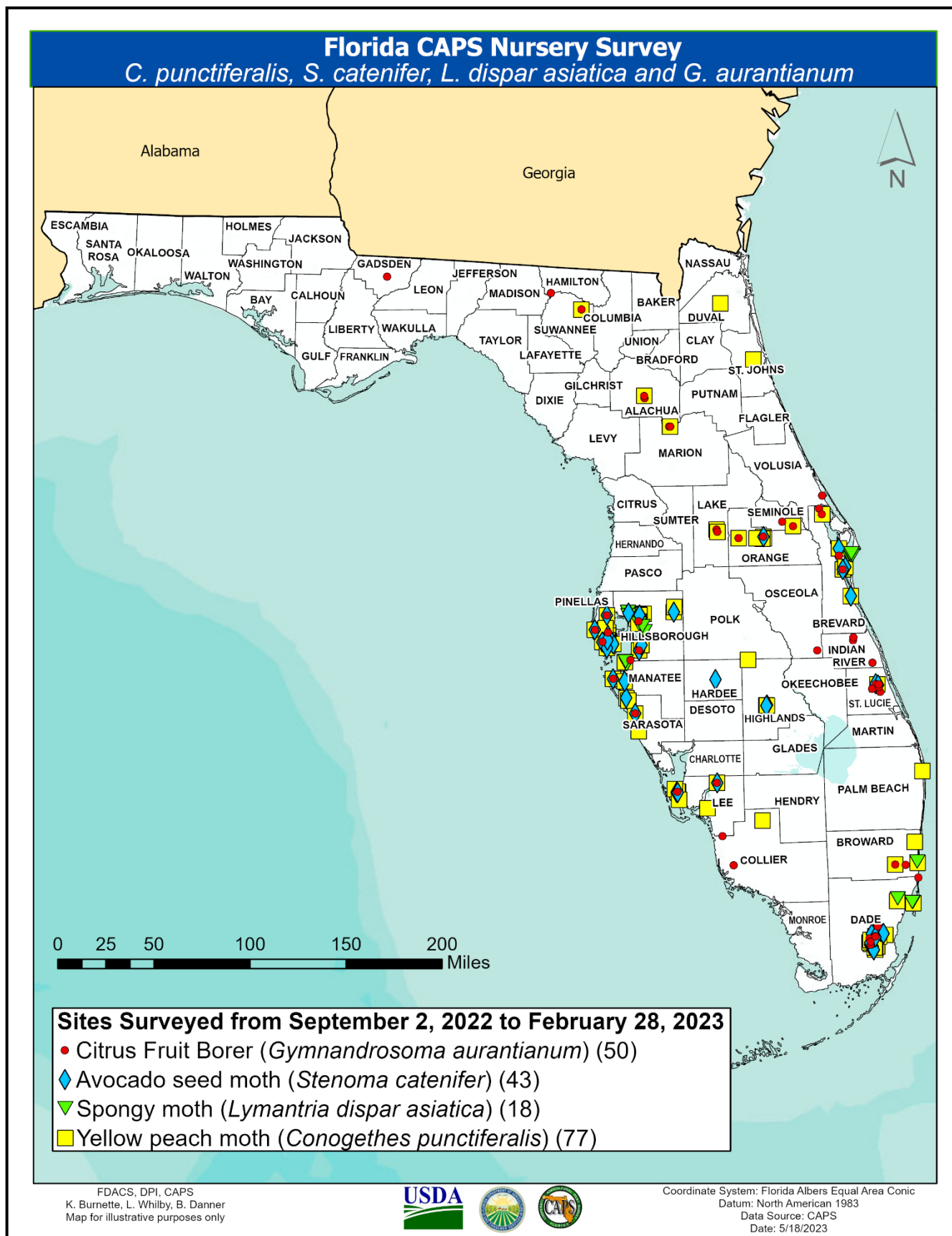


Map 3. Tomato Commodity Survey (part 3 of 3) – *Neoleucinodes elegantalis*, *Chrysodeixis chalcites*, and *Thaumatotibia leucotreta* moth trap locations as of 02/28/2023.

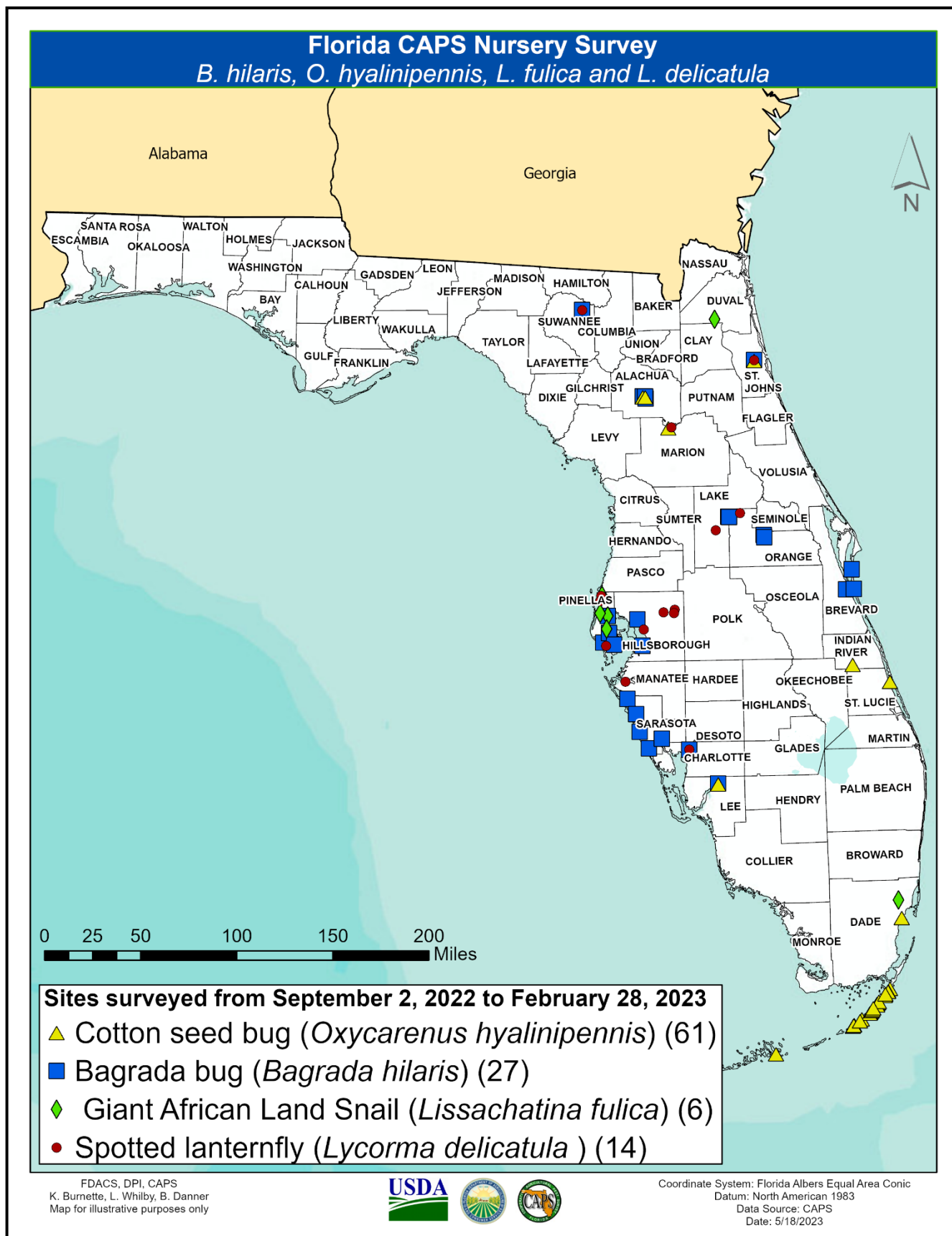
Florida CAPS Nursery Survey All Targets



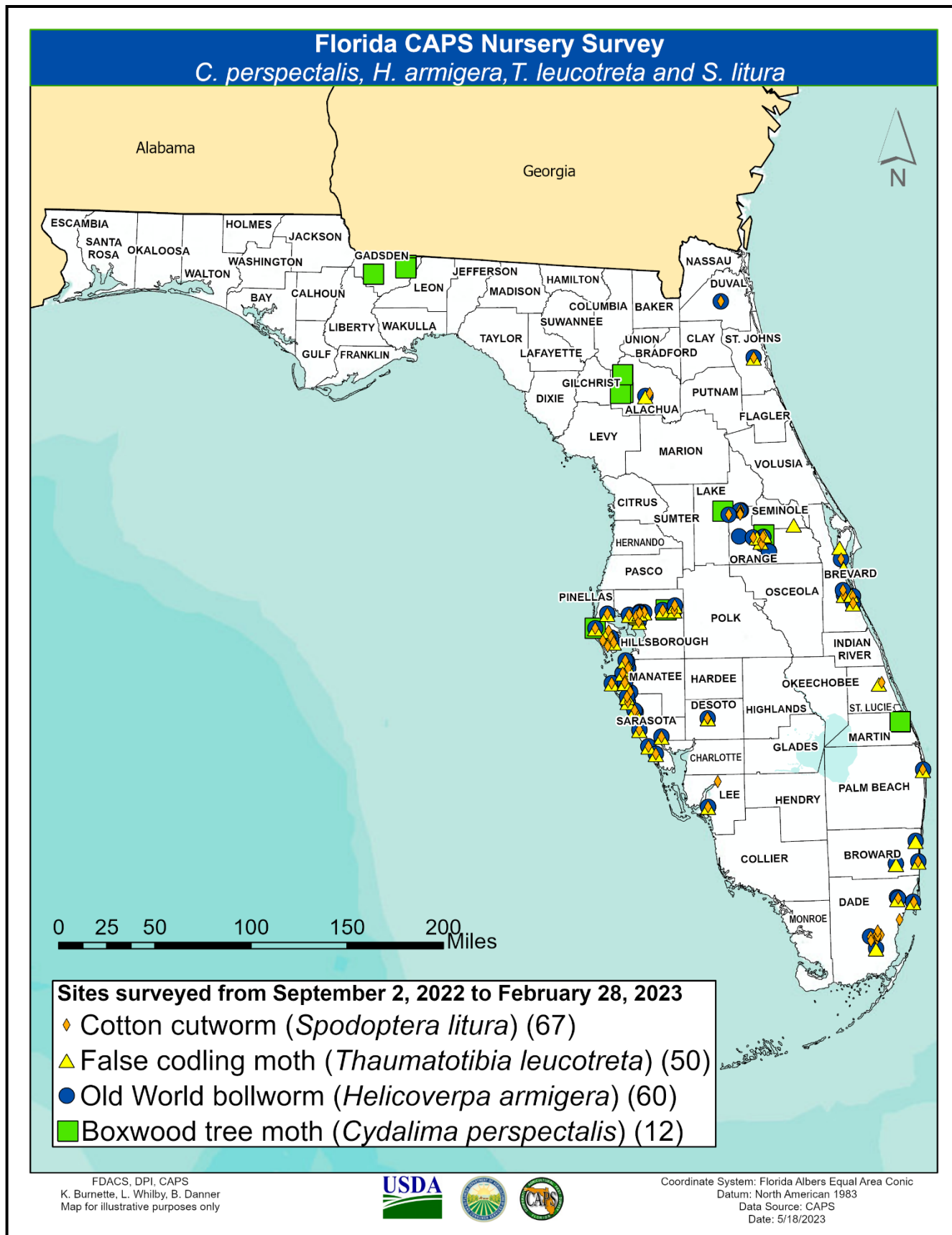
Map 4. Nursery Survey (part 1 of 4) – showing all trap and county locations of 12 target pests (trap and visual survey sites) as of 02/28/2023.



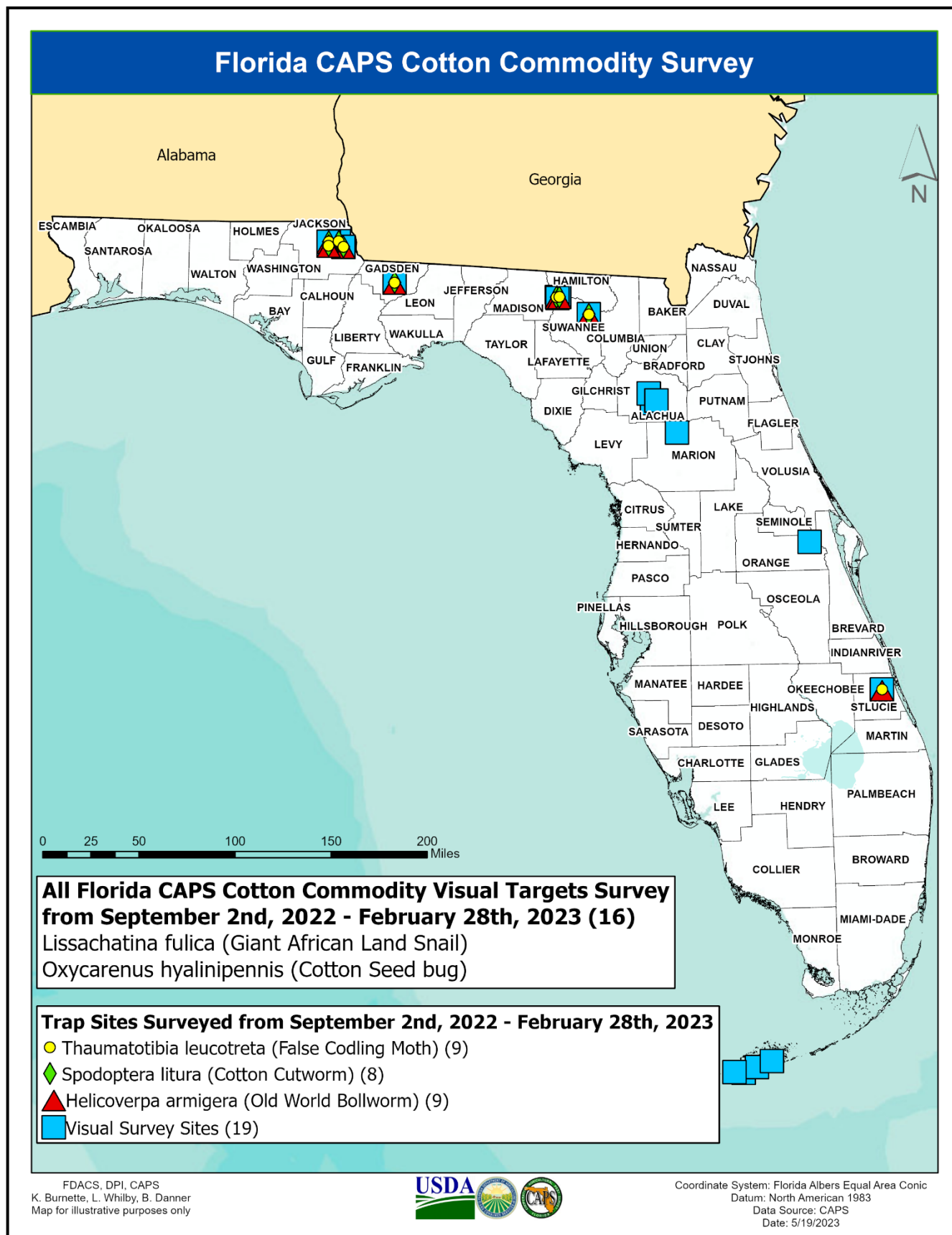
Map 5. Nursery Survey (part 2 of 4) – *Stenoma catenifer*, *Conogethes punctiferalis*, *Gymnandrosoma aurantianum*, and *Lymantria dispar asiatica* moth trap locations as of 02/28/2023.



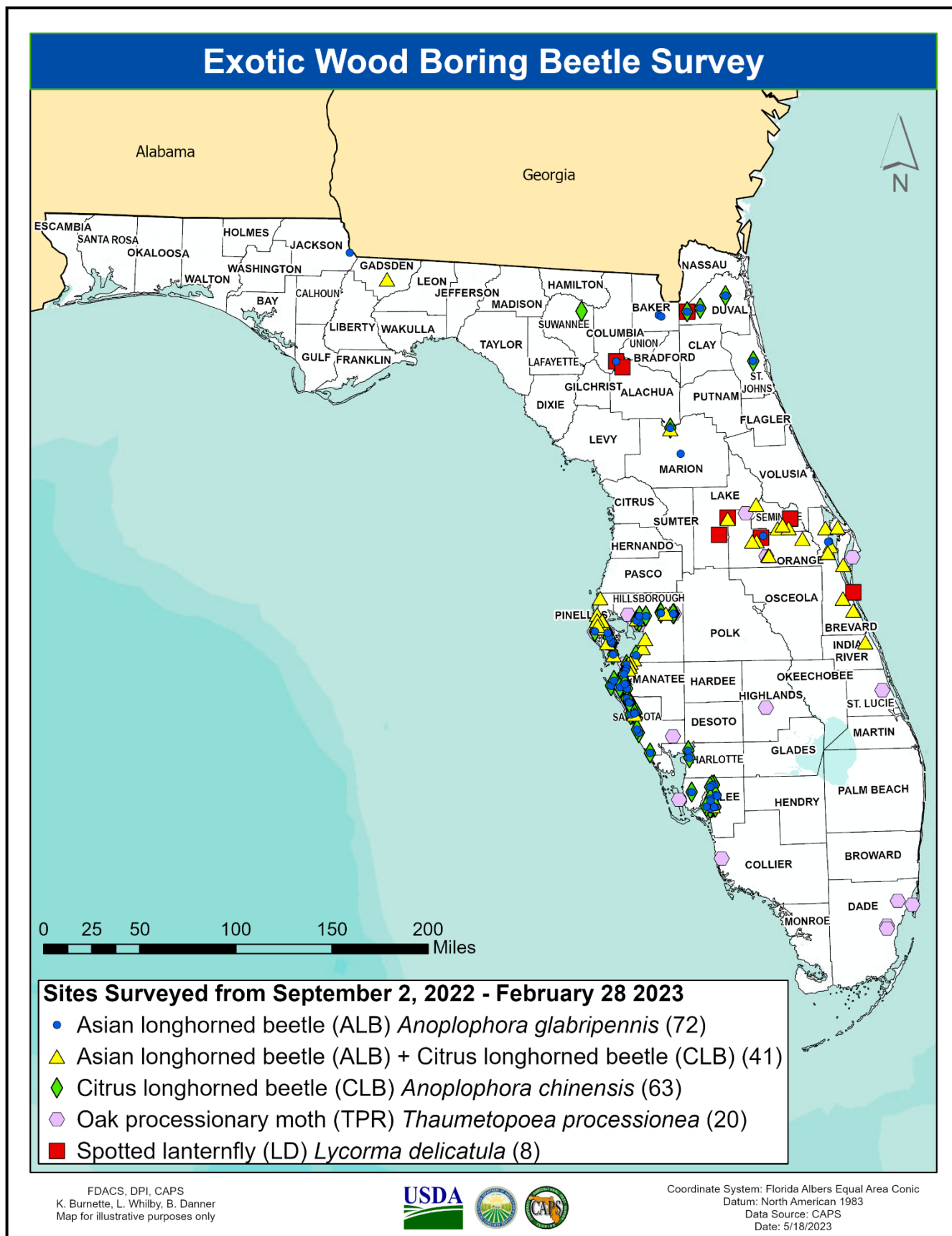
Map 6. Nursery Survey (part 3 of 4) – *Lycorma delicatula*, *Oxycarenus hyalinipennis*, *Bagrada hilaris*, and *Lissachatina fulica* and the associated visual survey locations as of 02/28/2023.



Map 7. Nursery Survey (part 4 of 4) – *Helicoverpa armigera*, *Spodoptera litura*, *Thaumatotibia leucotreta*, and *Cydalisma perspectalis* moth trap locations as of 02/28/2023.

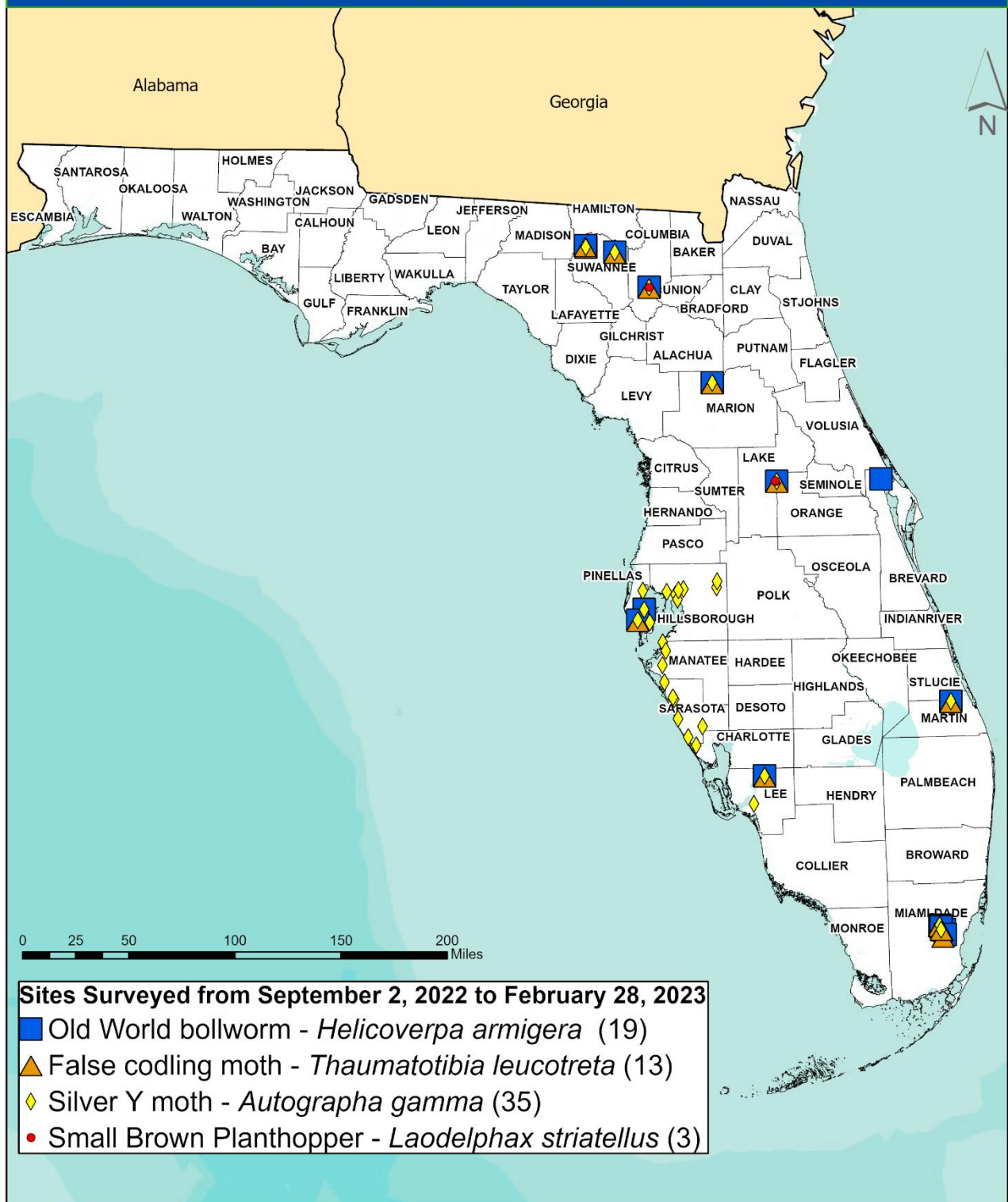


Map 8. Cotton Commodity Survey – *Helicoverpa armigera*, *Spodoptera litura*, *Thaumatotibia leucotreta*, *Lissachatina fulica*, and *Oxycarenus hyalinipennis* and the associated visual survey and trap locations in Florida as of 02/28/2023.



Map 9. Exotic Wood Boring Beetle Survey – *Anoplophora glabripennis*, *Anoplophora chinensis*, *Thaumetopoea processionea*, *Lycorma delicatula* and the associated visual survey and trap locations in Florida as of 02/28/2023.

Florida CAPS Corn Commodity Survey



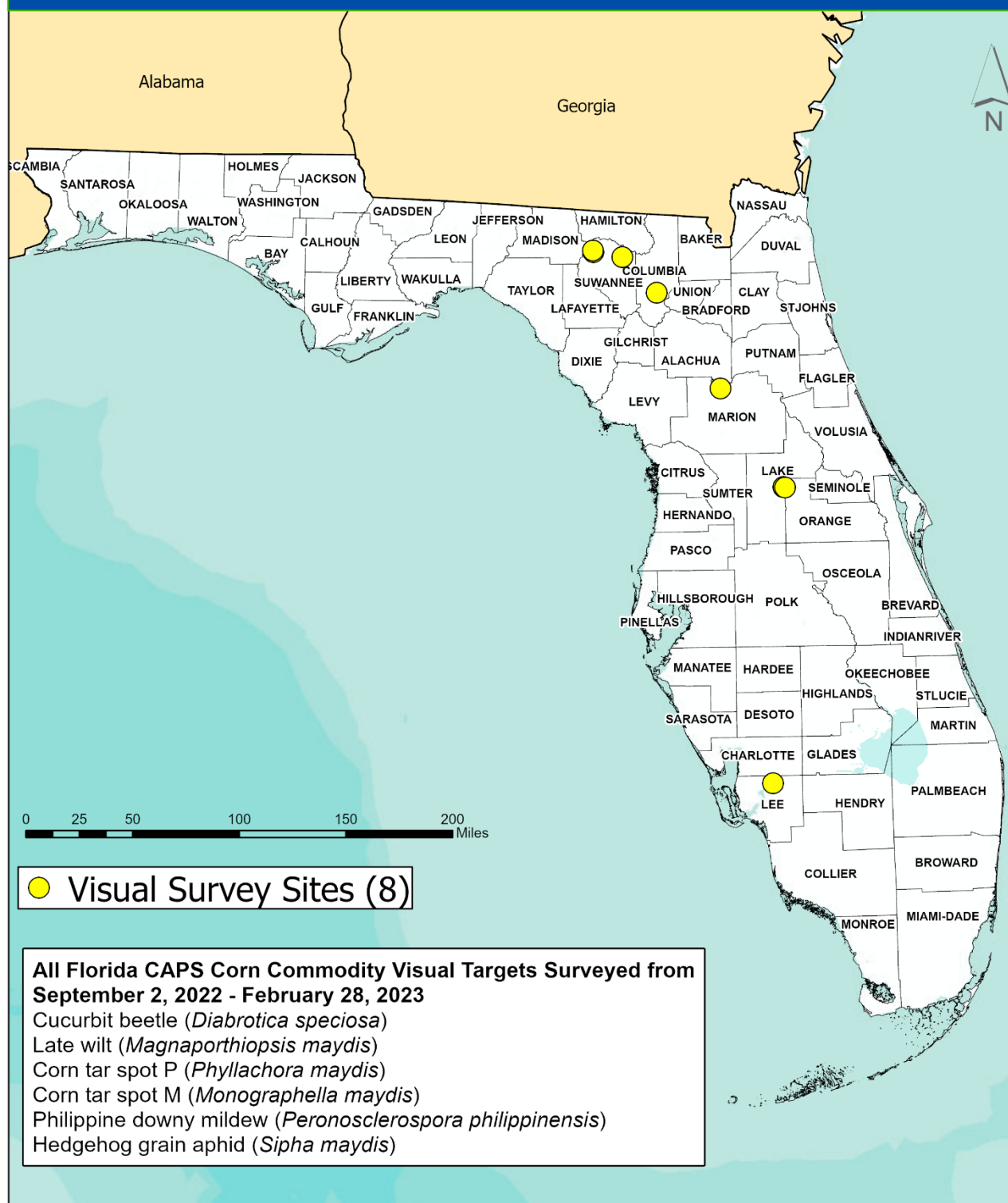
FDACS, DPI, CAPS
K. Burnette, L. Whilby, B. Danner
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic
Datum: North American 1983
Data Source: CAPS
Date: 5/18/2023

Map 10. Corn Commodity Survey – (part 1 of 2) – *Helicoverpa armigera*, *Thaumatotibia leucotreta*, *Autographa gamma*, and *Laodelphax striatellus* trap locations as of 02/28/2023.

Florida CAPS Corn Commodity Survey - Visual Survey Sites



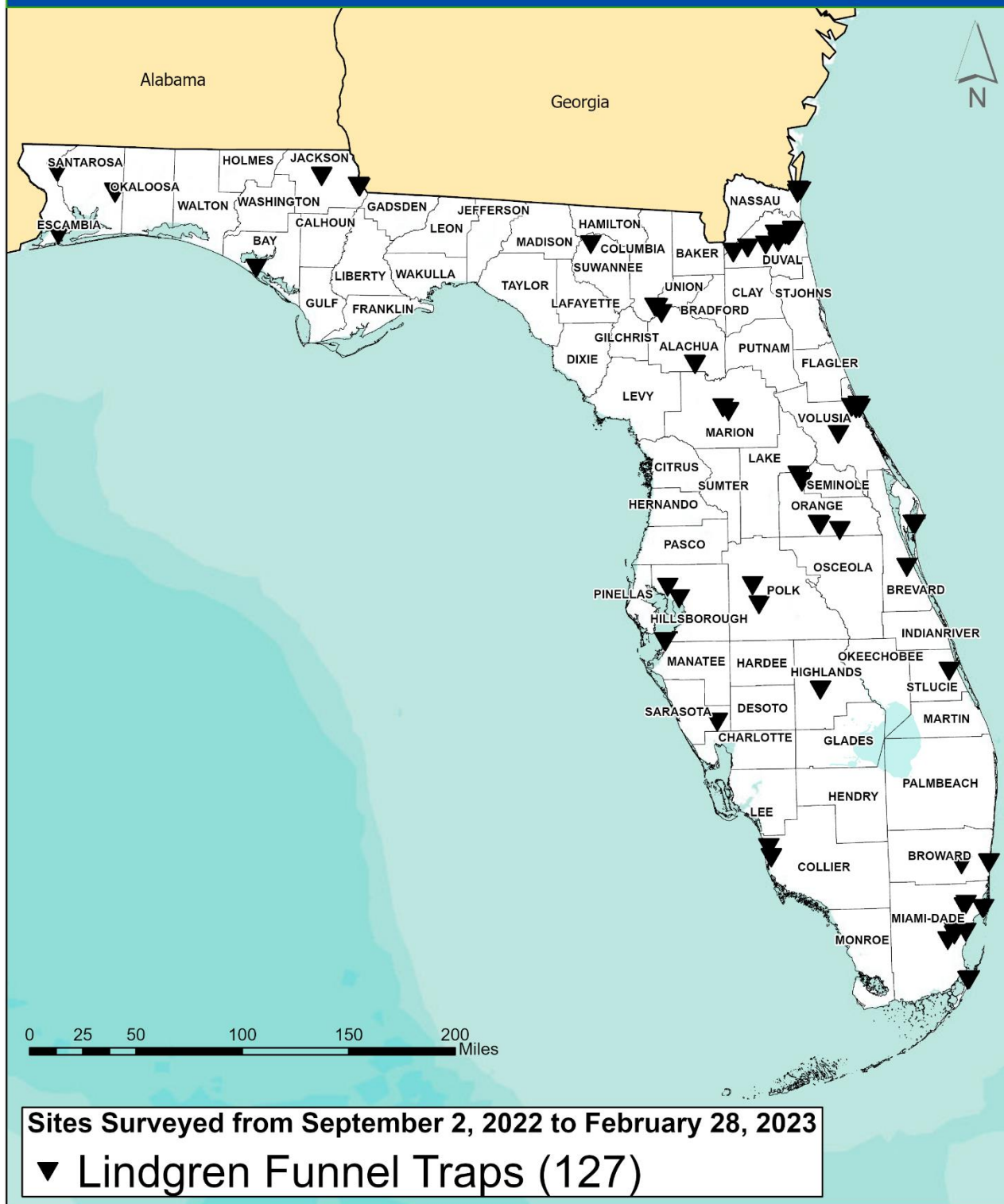
FDACS, DPI, CAPS
K. Burnette, L. Whilby, B. Danner
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic
Datum: North American 1983
Data Source: CAPS
Date: 5/17/2023

Map 11. Corn Commodity Survey – (part 2 of 2) – visual survey locations for six (6) target pests in Florida as of 02/28/2023.

Exotic Wood Boring Beetle Survey - Lindgren Funnel Traps



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Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic
Datum: North American 1983
Data Source: CAPS
Date: 5/18/2023

Map 12. Exotic Wood Boring Beetle Survey (EWBB/SWPM) – Lindgren funnel traps for exotic beetle species and the locations in Florida as of 02/28/2023.

Figures:

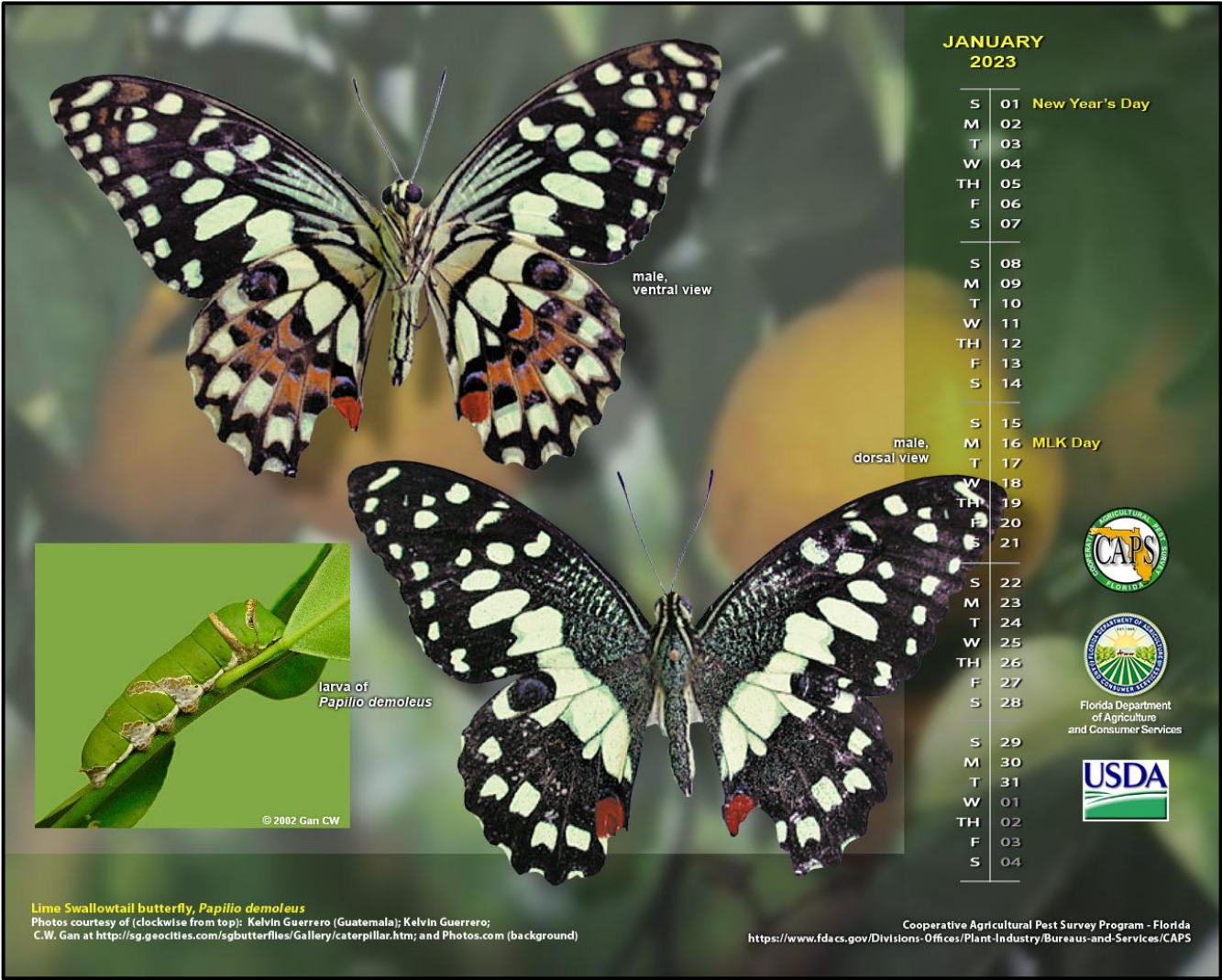


Fig. 1. CAPS downloadable calendar for January 2023, featuring *Papilio demoleus*, the Lime Swallowtail butterfly, an invasive pest of citrus.