



## FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

COMMISSIONER WILTON SIMPSON

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### Pest Detection/CAPS Survey Accomplishment Report

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| <b>Year:</b>                            | 2023                                                    |
| <b>State:</b>                           | Florida                                                 |
| <b>Cooperative Agreement Name:</b>      | CAPS Survey                                             |
| <b>Cooperative Agreement Number:</b>    | AP23PPQFO000C012                                        |
| <b>Project Funding Period:</b>          | March 1, 2023 – February 28, 2024                       |
| <b>Project Report:</b>                  | PD/CAPS Survey Report                                   |
| <b>Project Document Date:</b>           | March 1, 2023 – February 28, 2024                       |
| <b>Cooperators Project Coordinator:</b> | Bradley Danner                                          |
| <b>Name:</b>                            | Bradley Danner                                          |
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|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Quarterly Report                  | <input type="checkbox"/>            |
| Semi-Annual Accomplishment Report | <input type="checkbox"/>            |
| Annual Accomplishment Report      | <input checked="" type="checkbox"/> |

**A.** Write a brief narrative of work accomplished. Compare actual accomplishments to objectives

established as indicated in the work plan. If reporting on a combined surveys work plan, report accomplishments by survey. When the output can be quantified, a computation of cost per unit is required when useful.

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 (See infrastructure report for outreach and training activities). Information on each program area is detailed in this report. This report covers the combined survey efforts of the FDACS-DPI-CAPS program and the USDA-APHIS-PPQ-CAPS program.

The Florida combined survey program includes 31 priority pests and three pests of state\* concern. There are 14 visual targets and 20 trapping survey targets. At the end of this agreement, a total of 40 counties have been surveyed. A total of 742 traps were serviced/checked 6,900 times, and 301 visual sites were surveyed 896 times, resulting in 28 new records (one new US Continental record and 27 First in County records).

The proposed numbers in this report reflect work done for a full one-year agreement.

| <b>Funding Amount</b> | <b>Total Number of</b> | <b>Total Number of</b> |
|-----------------------|------------------------|------------------------|
| Proposed = \$252,157  | Proposed = 661         | Proposed = 400         |
| Actual = \$252,157    | Actual = 742**         | Actual = 301**         |

**\*\* Actual numbers are underreported. See the explanation in Section B.**

Survey methodology (trapping protocol):

### **Corn Commodity Survey**

The Florida corn commodity survey includes nine priority pests and one pest of state\* concern. There are six visual targets and four trapping survey targets. At the end of this agreement, a total of 18 counties have been surveyed. A total of 145 traps have been serviced/checked 750 times and 18 visual sites have been surveyed 88 times.

|              | <b>Common Name</b> | <b>Scientific Name</b>  |
|--------------|--------------------|-------------------------|
| <b>Pest:</b> | Silver Y Moth      | <i>Autographa gamma</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 33              | 47            |
| <b>Traps:</b>             | 33              | 50            |

|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 17                                                                                                                                                              |
| <b>Counties:</b>           | Alachua, Charlotte, Columbia, Gadsden, Hamilton, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Martin, Miami-Dade, Pinellas, Sarasota, St. Johns, Suwannee |

|              | <b>Common Name</b> | <b>Scientific Name</b>     |
|--------------|--------------------|----------------------------|
| <b>Pest:</b> | Cucurbit Beetle    | <i>Diabrotica speciosa</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 33       | 20     |
| <b>Traps: Visual</b>      | 33       | 20     |

|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 13                                                                                                                |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |

|              | Common Name        | Scientific Name             |
|--------------|--------------------|-----------------------------|
| <b>Pest:</b> | Old World Bollworm | <i>Helicoverpa armigera</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 33       | 30     |
| <b>Traps:</b>             | 33       | 33     |

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 14                                                                                                                           |
| <b>Counties:</b>           | Alachua, Brevard, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Miami-Dade, Pinellas, St. Johns, Suwannee |

|              | Common Name             | Scientific Name               |
|--------------|-------------------------|-------------------------------|
| <b>Pest:</b> | Small Brown Planthopper | <i>Laodelphax striatellus</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 33       | 26     |
| <b>Traps:</b>             | 33       | 30     |

|                            |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 16                                                                                                                                                   |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Hamilton, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Martin, Miami-Dade, Pinellas, Sarasota, St. Johns, Suwannee |

|              | Common Name       | Scientific Name                 |
|--------------|-------------------|---------------------------------|
| <b>Pest:</b> | Late Wilt of Corn | <i>Magnaportheiopsis maydis</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 33       | 20     |
| <b>Traps: Visual</b>      | 33       | 20     |

|                            |    |
|----------------------------|----|
| <b>Number of Counties:</b> | 13 |
|----------------------------|----|

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Counties:</b> | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |
|------------------|-------------------------------------------------------------------------------------------------------------------|

|              |                    |                             |
|--------------|--------------------|-----------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>      |
| <b>Pest:</b> | Corn Tar Spot      | <i>Monographella maydis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 33              | 20            |
| <b>Traps: Visual</b>      | 33              | 20            |

|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 13                                                                                                                |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |

|              |                         |                                         |
|--------------|-------------------------|-----------------------------------------|
|              | <b>Common Name</b>      | <b>Scientific Name</b>                  |
| <b>Pest:</b> | Philippine Downy Mildew | <i>Peronosclerospora philippinensis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 33              | 20            |
| <b>Traps: Visual</b>      | 33              | 20            |

|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 13                                                                                                                |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |

|              |                    |                           |
|--------------|--------------------|---------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>    |
| <b>Pest:</b> | Corn Tar Spot      | <i>Phyllachora maydis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 33              | 20            |
| <b>Traps: Visual</b>      | 33              | 20            |

|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 13                                                                                                                |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |

|              |                    |                        |
|--------------|--------------------|------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b> |
| <b>Pest:</b> | Barley Aphid       | <i>Sipha maydis*</i>   |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 33              | 20            |
| <b>Traps: Visual</b>      | 33              | 20            |

|                            |    |
|----------------------------|----|
| <b>Number of Counties:</b> | 13 |
|----------------------------|----|

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Counties:</b> | Alachua, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Pinellas, Sarasota, St. Johns, Suwannee |
|------------------|-------------------------------------------------------------------------------------------------------------------|

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>          |
| <b>Pest:</b> | False Codling Moth | <i>Thaumatotibia leucotreta</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 33              | 28            |
| <b>Traps:</b>             | 33              | 31            |

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 14                                                                                                                           |
| <b>Counties:</b>           | Alachua, Brevard, Columbia, Gadsden, Hamilton, Jackson, Lake, Lee, Marion, Martin, Miami-Dade, Pinellas, St. Johns, Suwannee |

### **Cotton Commodity Survey**

The Florida cotton commodity survey includes five priority pests, Two visual targets, and three trapping survey targets. At the end of this agreement, ten counties had been surveyed. Twenty six traps had been serviced/checked 102 times, and thirty visual sites had been surveyed 93 times.

|              |                    |                             |
|--------------|--------------------|-----------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>      |
| <b>Pest:</b> | Old World Bollworm | <i>Helicoverpa armigera</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 16              | 11            |
| <b>Traps:</b>             | 16              | 13            |

|                            |                                         |
|----------------------------|-----------------------------------------|
| <b>Number of Counties:</b> | 4                                       |
| <b>Counties:</b>           | Gadsden, Jackson, Miami-Dade, St. Lucie |

|              |                          |                            |
|--------------|--------------------------|----------------------------|
|              | <b>Common Name</b>       | <b>Scientific Name</b>     |
| <b>Pest:</b> | Giant African Land Snail | <i>Lissachatina fulica</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 14              | 19            |
| <b>Traps: Visual</b>      | 14              | 21            |

|                            |   |
|----------------------------|---|
| <b>Number of Counties:</b> | 5 |
|----------------------------|---|

|                  |                                              |
|------------------|----------------------------------------------|
| <b>Counties:</b> | Alachua, Gadsden, Jackson, Marion, St. Lucie |
|------------------|----------------------------------------------|

|              | <b>Common Name</b> | <b>Scientific Name</b>          |
|--------------|--------------------|---------------------------------|
| <b>Pest:</b> | Cotton Seed Bug    | <i>Oxycarenus hyalinipennis</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 18              | 19            |
| <b>Traps: Visual</b>      | 18              | 21            |

|                            |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 9                                                                                    |
| <b>Counties:</b>           | Alachua, Columbia, Gadsden, Jackson, Marion, Miami-Dade, Orange, St. Johns, Suwannee |

|              | <b>Common Name</b> | <b>Scientific Name</b>   |
|--------------|--------------------|--------------------------|
| <b>Pest:</b> | Cotton Cutworm     | <i>Spodoptera litura</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 14              | 4             |
| <b>Traps:</b>             | 14              | 6             |

|                            |                    |                                 |  |
|----------------------------|--------------------|---------------------------------|--|
| <b>Number of Counties:</b> |                    | 2                               |  |
| <b>Counties:</b>           |                    | Gadsden, Jackson                |  |
|                            | <b>Common Name</b> | <b>Scientific Name</b>          |  |
| <b>Pest:</b>               | False Codling Moth | <i>Thaumatotibia leucotreta</i> |  |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 15              | 5             |
| <b>Traps:</b>             | 15              | 7             |

|                            |                             |
|----------------------------|-----------------------------|
| <b>Number of Counties:</b> | 3                           |
| <b>Counties:</b>           | Gadsden, Jackson, St. Lucie |

### **Exotic Wood Borer/Bark Beetle Survey**

The Florida exotic wood borer/bark beetle survey includes seven priority pests and one pest of state\* concern. There are three visual targets and five trapping survey targets. At the end of this agreement, a total of 32 counties have been surveyed. A total of 167 traps have been serviced/checked 1,442 times, and 209 visual sites have been surveyed 286 times.

|  | <b>Common Name</b> | <b>Scientific Name</b> |
|--|--------------------|------------------------|
|--|--------------------|------------------------|

|              |                           |                              |
|--------------|---------------------------|------------------------------|
| <b>Pest:</b> | Citrus Long-Horned Beetle | <i>Anoplophora chinensis</i> |
|--------------|---------------------------|------------------------------|

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 130             | 95            |
| <b>Traps: Visual</b>      | 130             | 105           |

|                            |                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 16                                                                                                                                                  |
| <b>Counties:</b>           | Brevard, DeSoto, Duval, Hardee, Highlands, Hillsborough, Lake, Manatee, Marion, Orange, Pinellas, Seminole, St. Johns, St. Lucie, Suwannee, Volusia |

|              |                          |                                 |
|--------------|--------------------------|---------------------------------|
|              | <b>Common Name</b>       | <b>Scientific Name</b>          |
| <b>Pest:</b> | Asian Long Horned Beetle | <i>Anoplophora glabripennis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 130             | 102           |
| <b>Traps: Visual</b>      | 130             | 115           |

|                            |                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 18                                                                                                                                                                  |
| <b>Counties:</b>           | Alachua, Brevard, DeSoto, Duval, Hardee, Highlands, Hillsborough, Jackson, Lake, Manatee, Marion, Nassau, Orange, Pinellas, Seminole, St. Johns, St. Lucie, Volusia |

|              |                    |                         |
|--------------|--------------------|-------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>  |
| <b>Pest:</b> | Large Pine Weevil  | <i>Hylobius abietis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 45              | 41            |
| <b>Traps: Visual</b>      | 45              | 41            |

|                            |                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 22                                                                                                                                                                                                                |
| <b>Counties:</b>           | Bay, Brevard, Broward, Citrus, Collier, Duval, Escambia, Highlands, Hillsborough, Indian River, Jackson, Madison, Manatee, Miami-Dade, Nassau, Orange, Palm Beach, Polk, Santa Rosa, St. Lucie, Suwannee, Volusia |

|              |                         |                        |
|--------------|-------------------------|------------------------|
|              | <b>Common Name</b>      | <b>Scientific Name</b> |
| <b>Pest:</b> | Six Toothed Bark Beetle | <i>Ips sexdentatus</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 43              | 35            |
| <b>Traps:</b>             | 43              | 44            |

|                            |    |
|----------------------------|----|
| <b>Number of Counties:</b> | 18 |
|----------------------------|----|

|                  |                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Counties:</b> | Alachua, Brevard, Citrus, Collier, Duval, Escambia, Hillsborough, Indian River, Jackson, Manatee, Marion, Nassau, Orange, Polk, Santa Rosa, St. Lucie, Suwannee, Volusia |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|              | <b>Common Name</b>          | <b>Scientific Name</b> |
|--------------|-----------------------------|------------------------|
| <b>Pest:</b> | European Spruce Bark Beetle | <i>Ips typographus</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 43              | 35            |
| <b>Traps:</b>             | 43              | 44            |

|                            |                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 18                                                                                                                                                                       |
| <b>Counties:</b>           | Alachua, Brevard, Citrus, Collier, Duval, Escambia, Hillsborough, Indian River, Jackson, Manatee, Marion, Nassau, Orange, Polk, Santa Rosa, St. Lucie, Suwannee, Volusia |

|              | <b>Common Name</b> | <b>Scientific Name</b>    |
|--------------|--------------------|---------------------------|
| <b>Pest:</b> | Spotted Lanternfly | <i>Lycorma delicatula</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 55              | 15            |
| <b>Traps:</b>             | 55              | 15            |

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| <b>Number of Counties:</b> | 6                                                 |
| <b>Counties:</b>           | Alachua, Duval, Lake, Miami-Dade, Orange, Volusia |

|              | <b>Common Name</b>  | <b>Scientific Name</b>       |
|--------------|---------------------|------------------------------|
| <b>Pest:</b> | Oak Ambrosia Beetle | <i>Platypus quercivorous</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 44              | 34            |
| <b>Traps: Visual</b>      | 44              | 34            |

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 19                                                                                                                                                                                   |
| <b>Counties:</b>           | Alachua, Brevard, Broward, Citrus, Collier, Duval, Highlands, Hillsborough, Indian River, Jackson, Manatee, Miami-Dade, Monroe, Nassau, Orange, Palm Beach, Polk, St. Lucie, Volusia |

|              | <b>Common Name</b> | <b>Scientific Name</b>    |
|--------------|--------------------|---------------------------|
| <b>Pest:</b> | Pine Shoot Beetle  | <i>Tomicus destruens*</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 45              | 41            |
| <b>Traps:</b>             | 45              | 41            |

|                            |                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 22                                                                                                                                                                                                                |
| <b>Counties:</b>           | Bay, Brevard, Broward, Citrus, Collier, Duval, Escambia, Highlands, Hillsborough, Indian River, Jackson, Madison, Manatee, Miami-Dade, Nassau, Orange, Palm Beach, Polk, Santa Rosa, St. Lucie, Suwannee, Volusia |

For FY23 the general ethanol lure to survey for the family *Cerambycidae* and *Scolytinae* is only approved for PPQ use. The data below reflect PPQ survey data only.

|              | <b>Common Name</b> | <b>Scientific Name</b>                         |
|--------------|--------------------|------------------------------------------------|
| <b>Pest:</b> | General Beetle     | Family <i>Cerambycidae</i> , <i>Scolytinae</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 17              | 33            |
| <b>Traps:</b>             | 17              | 34            |

|                            |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 18                                                                                                                                                                     |
| <b>Counties:</b>           | Alachua, Bay, Brevard, Collier, Duval, Escambia, Highlands, Hillsborough, Jackson, Madison, Manatee, Marion, Miami-Dade, Nassau, Orange, Santa Rosa, Suwannee, Volusia |

For FY23 the six-component lure to survey for the family *Cerambycidae* is only approved for PPQ use. The data below reflect PPQ survey data only.

|              | <b>Common Name</b> | <b>Scientific Name</b>     |
|--------------|--------------------|----------------------------|
| <b>Pest:</b> | General Cerambycid | Family <i>Cerambycidae</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 12              | 13            |
| <b>Traps:</b>             | 12              | 15            |

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 9                                                                                     |
| <b>Counties:</b>           | Orange, Hernando, Miami-Dade, Brevard, Seminole, Duval, Nassau, Hillsborough, Manatee |

### **Nursery and Ornamental Survey**

The Florida nursery and ornamental survey includes ten priority pests and one pest of state\* concern. There are four visual targets and seven trapping survey targets. At the end of this agreement, 30 counties have been surveyed. Four hundred traps have been serviced/checked 4,606 times, and 102 visual sites have been surveyed 450 times.

|              | <b>Common Name</b> | <b>Scientific Name</b>   |
|--------------|--------------------|--------------------------|
| <b>Pest:</b> | Bagrada Bug        | <i>Bagrada hilaris</i> * |

|  | <b>Proposed</b> | <b>Actual</b> |
|--|-----------------|---------------|
|--|-----------------|---------------|

|                           |    |    |
|---------------------------|----|----|
| <b>Sites (Locations):</b> | 50 | 27 |
| <b>Traps: Visual</b>      | 50 | 33 |

|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 12                                                                                                           |
| <b>Counties:</b>           | Alachua, Brevard, Hillsborough, Lake, Lee, Marion, Orange, Osceola, Pinellas, Sarasota, St. Johns, St. Lucie |

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>          |
| <b>Pest:</b> | Yellow Peach Moth  | <i>Conogethes punctiferalis</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 60              | 80            |
| <b>Traps:</b>             | 60              | 82            |

|                            |                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 23                                                                                                                                                                                                                        |
| <b>Counties:</b>           | Alachua, Brevard, Broward, Charlotte, Collier, Duval, Gadsden, Highlands, Hillsborough, Jackson, Lake, Lee, Manatee, Marion, Miami-Dade, Orange, Palm Beach, Pinellas, Sarasota, Seminole, St. Johns, St. Lucie, Suwannee |

|              |                    |                                  |
|--------------|--------------------|----------------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>           |
| <b>Pest:</b> | Citrus Fruit Borer | <i>Gymnandrosoma aurantianum</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 48              | 50            |
| <b>Traps:</b>             | 48              | 50            |

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 19                                                                                                                                                                                  |
| <b>Counties:</b>           | Alachua, Brevard, Broward, Collier, Hillsborough, Indian River, Lake, Lee, Manatee, Marion, Miami-Dade, Orange, Osceola, Pinellas, Sarasota, Seminole, St. Lucie, Suwannee, Volusia |

|              |                    |                             |
|--------------|--------------------|-----------------------------|
|              | <b>Common Name</b> | <b>Scientific Name</b>      |
| <b>Pest:</b> | Old World Bollworm | <i>Helicoverpa armigera</i> |

|                           |                 |               |
|---------------------------|-----------------|---------------|
|                           | <b>Proposed</b> | <b>Actual</b> |
| <b>Sites (Locations):</b> | 53              | 66            |
| <b>Traps:</b>             | 53              | 68            |

|                            |                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 16                                                                                                                                                         |
| <b>Counties:</b>           | Alachua, Broward, Brevard, Charlotte, DeSoto, Duval, Hillsborough, Lake, Manatee, Miami-Dade, Orange, Palm Beach, Pinellas, Sarasota, St. Johns, St. Lucie |

|              | Common Name              | Scientific Name            |
|--------------|--------------------------|----------------------------|
| <b>Pest:</b> | Giant African Land Snail | <i>Lissachatina fulica</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 38       | 2      |
| <b>Traps: Visual</b>      | 38       | 2      |

|                            |                      |
|----------------------------|----------------------|
| <b>Number of Counties:</b> | 2                    |
| <b>Counties:</b>           | Miami-Dade, Seminole |

|              | Common Name        | Scientific Name           |
|--------------|--------------------|---------------------------|
| <b>Pest:</b> | Spotted Lanternfly | <i>Lycorma delicatula</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 53       | 19     |
| <b>Traps: Visual</b>      | 53       | 21     |

|                            |                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 12                                                                                                                  |
| <b>Counties:</b>           | Alachua, Brevard, Charlotte, Hillsborough, Lake, Manatee, Marion, Miami-Dade, Orange, Pinellas, St. Johns, Suwannee |

|              | Common Name | Scientific Name                  |
|--------------|-------------|----------------------------------|
| <b>Pest:</b> |             | <i>Lymantria dispar asiatica</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 15       | 30     |
| <b>Traps:</b>             | 15       | 34     |

|                            |                                                                                |
|----------------------------|--------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 8                                                                              |
| <b>Counties:</b>           | Brevard, Broward, Duval, Hillsborough, Manatee, Miami-Dade, Nassau, Palm Beach |

|              | Common Name     | Scientific Name                 |
|--------------|-----------------|---------------------------------|
| <b>Pest:</b> | Cotton Seed Bug | <i>Oxycarenus hyalinipennis</i> |

|                           | Proposed | Actual |
|---------------------------|----------|--------|
| <b>Sites (Locations):</b> | 23       | 24     |
| <b>Traps: Visual</b>      | 23       | 46     |

|                            |   |
|----------------------------|---|
| <b>Number of Counties:</b> | 5 |
|----------------------------|---|

|                  |                                                     |
|------------------|-----------------------------------------------------|
| <b>Counties:</b> | Brevard, Indian River, Monroe, St. Johns, St. Lucie |
|------------------|-----------------------------------------------------|

|              | <b>Common Name</b> | <b>Scientific Name</b>   |
|--------------|--------------------|--------------------------|
| <b>Pest:</b> | Cotton Cutworm     | <i>Spodoptera litura</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 56              | 70            |
| <b>Traps:</b>             | 56              | 72            |

|                            |                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 18                                                                                                                                                                       |
| <b>Counties:</b>           | Alachua, Broward, Brevard, Charlotte, DeSoto, Duval, Hillsborough, Lake, Lee, Manatee, Miami-Dade, Orange, Palm Beach, Pinellas, Sarasota, St. Johns, St. Lucie, Volusia |

|              | <b>Common Name</b> | <b>Scientific Name</b>   |
|--------------|--------------------|--------------------------|
| <b>Pest:</b> | Avocado Seed Moth  | <i>Stenoma catenifer</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 43              | 42            |
| <b>Traps:</b>             | 43              | 42            |

|                            |                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 12                                                                                                                   |
| <b>Counties:</b>           | Brevard, Charlotte, Hardee, Highlands, Hillsborough, Lee, Manatee, Miami-Dade, Orange, Pinellas, Sarasota, St. Lucie |

|              | <b>Common Name</b> | <b>Scientific Name</b>          |
|--------------|--------------------|---------------------------------|
| <b>Pest:</b> | False Codling Moth | <i>Thaumatotibia leucotreta</i> |

|                           | <b>Proposed</b> | <b>Actual</b> |
|---------------------------|-----------------|---------------|
| <b>Sites (Locations):</b> | 48              | 49            |
| <b>Traps:</b>             | 48              | 53            |

|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Counties:</b> | 16                                                                                                                                                            |
| <b>Counties:</b>           | Alachua, Brevard, Broward, Charlotte, DeSoto, Hillsborough, Lake, Manatee, Miami-Dade, Orange, Palm Beach, Pinellas, Sarasota, Seminole, St. Johns, St. Lucie |

1. Survey dates:

### **Corn Commodity Survey**

|                      | <b>Proposed</b>         | <b>Actual</b>           |
|----------------------|-------------------------|-------------------------|
| <b>Survey Dates:</b> | 03/01/2023 – 02/28/2024 | 03/01/2023 – 02/28/2024 |

### **Cotton Commodity Survey**

|                      | <b>Proposed</b>         | <b>Actual</b>           |
|----------------------|-------------------------|-------------------------|
| <b>Survey Dates:</b> | 03/01/2023 – 02/28/2024 | 03/01/2023 – 02/28/2024 |

### **Exotic Wood Borer/Bark Beetle Survey**

|                      | <b>Proposed</b>         | <b>Actual</b>           |
|----------------------|-------------------------|-------------------------|
| <b>Survey Dates:</b> | 03/01/2023 – 02/28/2024 | 03/01/2023 – 02/28/2024 |

### **Nursery and Ornamental Survey**

|                      | <b>Proposed</b>         | <b>Actual</b>           |
|----------------------|-------------------------|-------------------------|
| <b>Survey Dates:</b> | 03/01/2023 – 02/28/2024 | 03/01/2023 – 02/28/2024 |

## **2. Benefits and results of survey:**

### **Corn Commodity Survey**

|                      | <b>Positive</b> | <b>Negative</b> | <b>Total Number</b> |
|----------------------|-----------------|-----------------|---------------------|
| <b>Traps/Visuals</b> | 0               | 264             | 264                 |

First in County Record: *Pareuidella weedi* - Delphacidae - Hemiptera – Suwannee County, Florida

First in County Record: *Norvellina seminuda* - Cicadellidae - Hemiptera – Hamilton County, Florida

### **Cotton Commodity Survey**

|                      | <b>Positive</b> | <b>Negative</b> | <b>Total Number</b> |
|----------------------|-----------------|-----------------|---------------------|
| <b>Traps/Visuals</b> | 0               | 68              | 68                  |

### **Exotic Wood Borer/Bark Beetle Commodity Survey**

|                      | <b>Positive</b> | <b>Negative</b> | <b>Total Number</b> |
|----------------------|-----------------|-----------------|---------------------|
| <b>Traps/Visuals</b> | 0               | 472             | 472                 |

New US Continental Record: *Platyscelio pulchricornis* - Scelionidae – Hymenoptera - Hillsborough County, Florida

First in County Record: *Pareuidella triloba* - Delphacidae – Hemiptera – Brevard County, Florida

First in County Record: *Empicoris rubromaculatus* - Reduviidae – Hemiptera – Brevard County, Florida

First in County Record: *Isodelphax basivitta* - Delphacidae – Hemiptera – Hillsborough County, Florida

First in County Record: *Schizoptera bispina* - Schizopteridae – Hemiptera – Orange County, Florida

First in County Record: *Dagbertus semipictus* - Miridae – Hemiptera – Brevard County, Florida

First in County Record: *Hamatophylus guttulosus* - Miridae – Hemiptera – Brevard County, Florida

First in County Record: *Neoclytus jouteli simplarius* - Cerambycidae - Coleoptera – Marion County, Florida

First in County Record: *Schizoptera bispina* - Schizopteridae - Hemiptera – St. Lucie County, Florida

First in County Record: *Empicoris rubromaculatus* - Reduviidae - Hemiptera – Duval County, Florida

First in County Record: *Stenolemus lanipes* - Reduviidae - Hemiptera – Duval County, Florida

First in County Record: *Pilophorus nasicus* - Miridae - Hemiptera – Collier County, Florida

First in County Record: *Lipoptena mazamae* - Hippoboscidae - Diptera – Jackson County, Florida

First in County Record: *Erythroneura calycula* - Cicadellidae - Hemiptera – Jackson County, Florida

First in County Record: *Empicoris rubromaculatus* - Reduviidae - Hemiptera – Alachua County, Florida

First in County Record: *Empicoris rubromaculatus* - Reduviidae - Hemiptera – Nassau County, Florida

First in County Record: *Apache degeerii* - Derbidae - Hemiptera – Citrus County, Florida

First in County Record: *Neortholomus jamaicensis* - Lygaeidae - Hemiptera – Jackson County, Florida

First in County Record: *Fulvius anthocoroides* - Miridae - Hemiptera – Hernando County, Florida

First in County Record: *Passandrophloeus sp.* - Laemophloeidae - Coleoptera – Alachua County, Florida

First in County Record: *Emesaya brevipennis* - Reduviidae - Hemiptera – Duval County, Florida

First in County Record: *Flavoclypeus nigrifacies* - Delphacidae - Hemiptera – St. Lucie, Florida

First in County Record: *Chionomus herkos* - Delphacidae - Hemiptera – Manatee, Florida

First in County Record: *Peritropis saldaeformis* - Miridae - Hemiptera – Citrus, Florida

### **Nursery and Ornamental Survey**

|               | Positive | Negative | Total Number |
|---------------|----------|----------|--------------|
| Traps/Visuals | 0        | 503      | 503          |

First in County Record: *Sinomegoura citricola* - Aphididae - Hemiptera – Pinellas County, Florida

First in County Record: *Sinomegoura citricola* - Aphididae - Hemiptera – Brevard County, Florida

### **3. Database submissions:**

Was all Pest Detection / CAPS survey data entered into the National Agricultural Pest Information System (NAPIS)? If not, please provide a justification. *ADODRs should consult with the [CAPS Accountability Report](#) to confirm data entry.*

- B.** If appropriate, explain why objectives were not met.\* All objectives have been met.  
 \*\*Many pests in this report may appear to be under-surveyed based on proposed numbers.

This is due to the USDA-PPQ Pest Survey Specialists not being able to enter their data electronically because they lost access to the shared (DPI/PPQ) Survey 123 database back in July 2023. Because of this issue, approximately eight months of data from some of the USDA-PPQ Pest Survey Specialists is not reflected in this report.

☐ Check if objectives were not met due to the impact(s) of the coronavirus COVID-19. Explain how the impacts affected surveys and/or survey operations.

- C.** Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000. \*  
None

*\*indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.51*



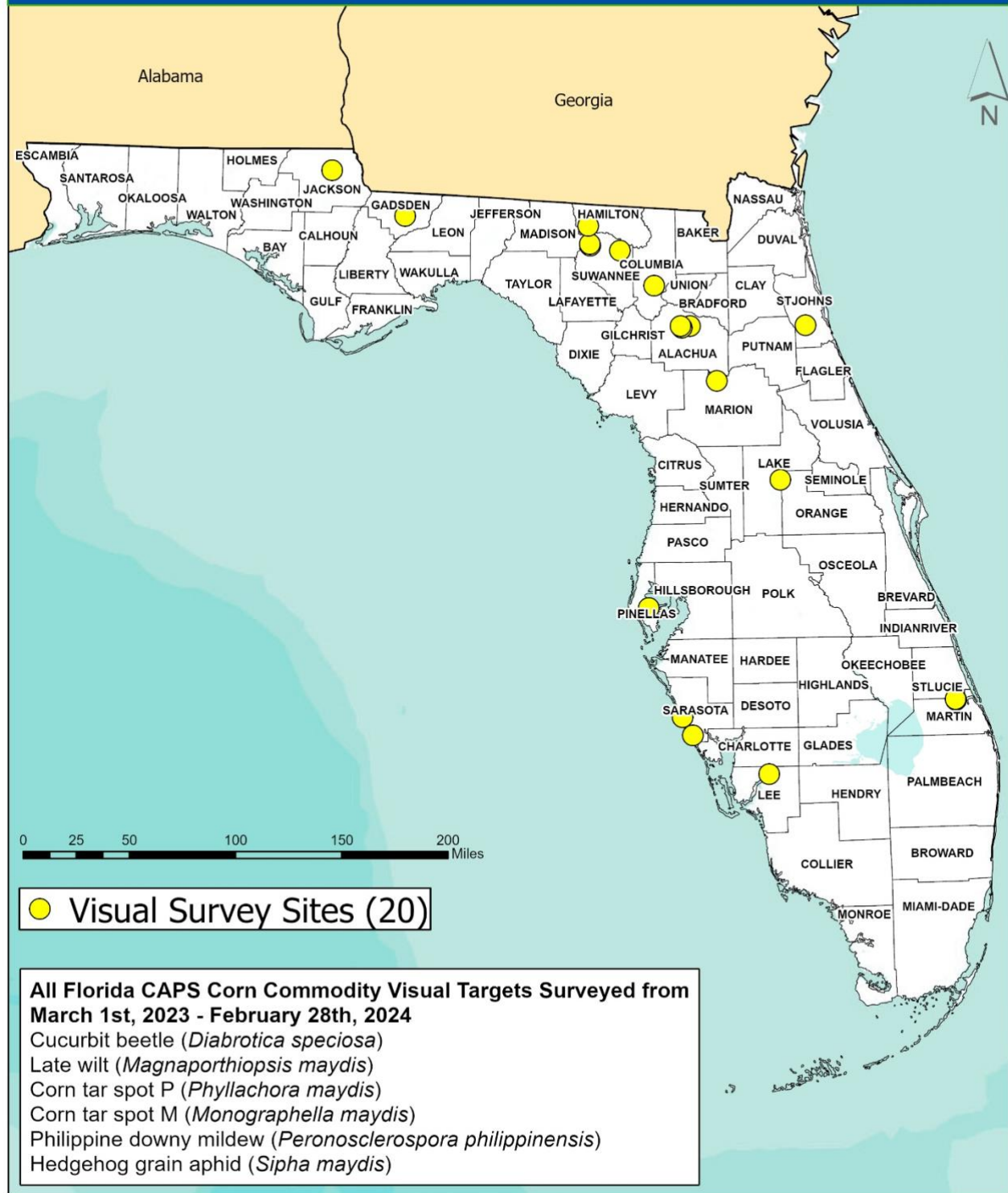
FDACS, DPI, CAPS  
K. Burnette, L. Whilby, B. Danner  
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 5/15/2024

Map 1: Corn Commodity Survey – Trap locations for *Autographa gamma*, *Helicoverpa armigera*, *Laodelphax striatellus*, and *Thaumatotibia leucotreta*.

## Florida CAPS Corn Commodity Survey - Visual Survey Sites

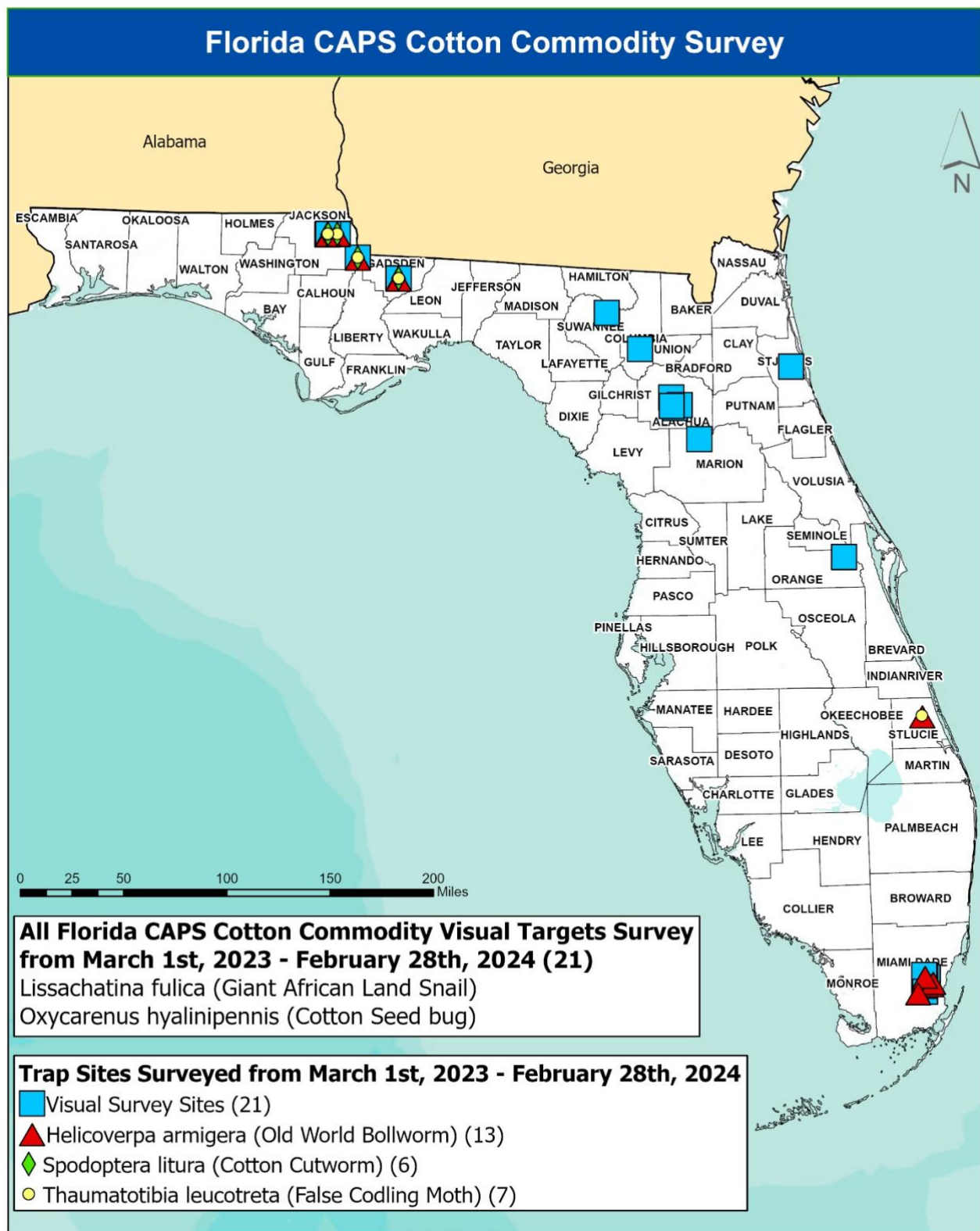


FDACS, DPI, CAPS  
K. Burnette, L. Whilby, B. Danner  
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 5/15/2024

Map 2: Corn Commodity Survey – Visual survey locations for *Diabrotica speciosa*, *Magnaporthiopsis maydis*, *Monographella maydis*, *Peronosclerospora philippinensis*, and *Phyllachora maydis*.

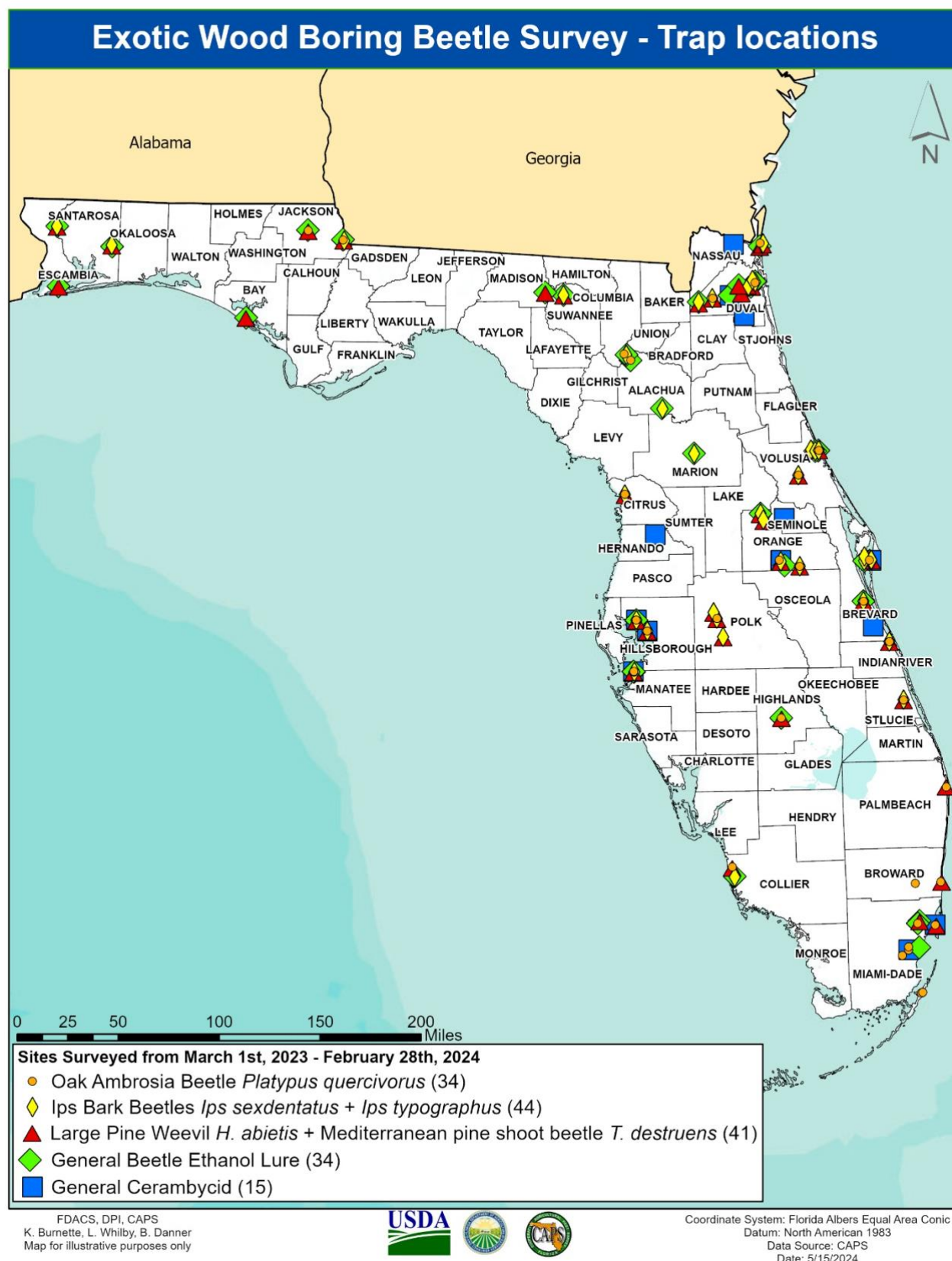


FDACS, DPI, CAPS  
 K. Burnette, L. Whilby, B. Danner  
 Map for illustrative purposes only



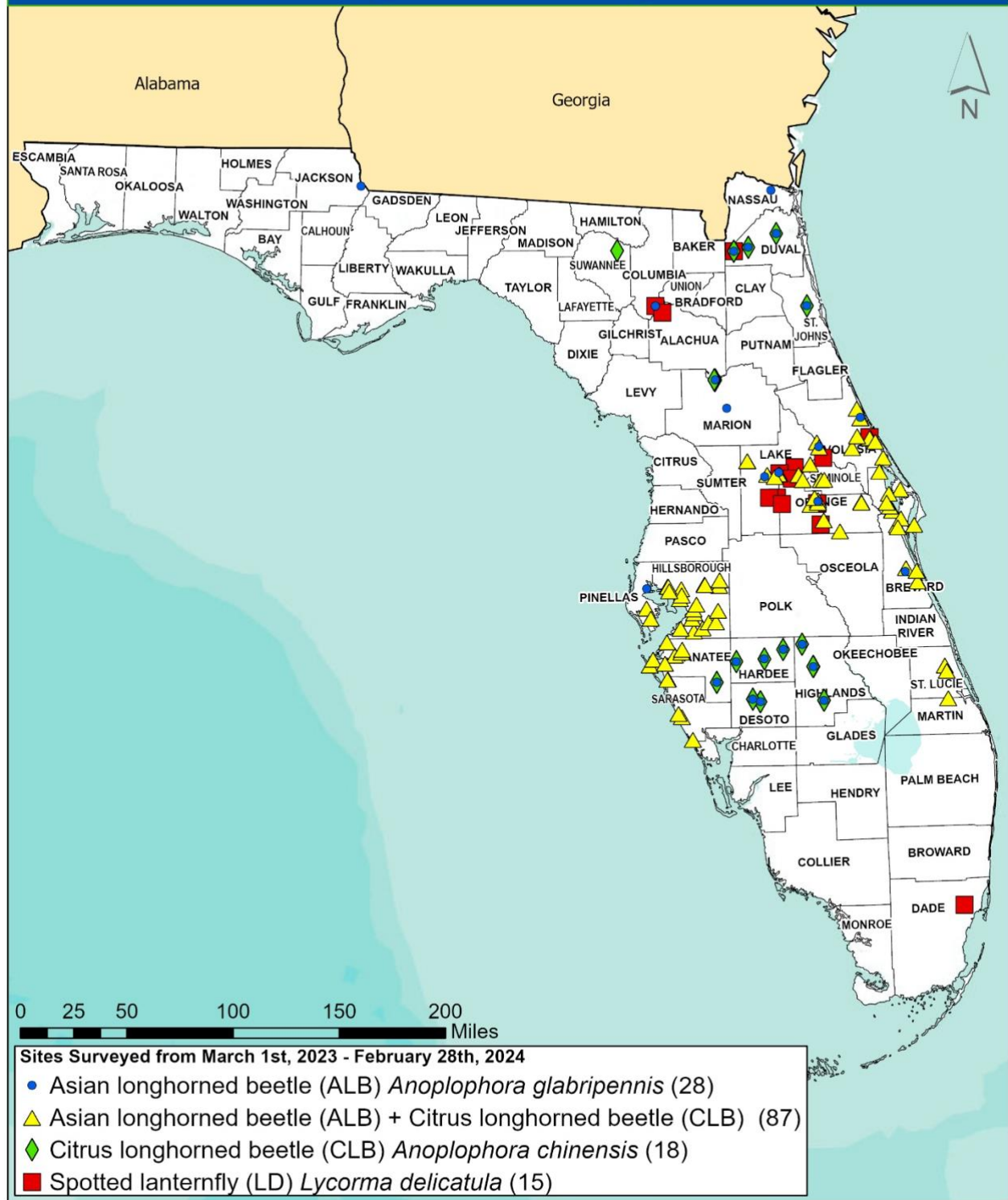
Coordinate System: Florida Albers Equal Area Conic  
 Datum: North American 1983  
 Data Source: CAPS  
 Date: 5/15/2024

Map 3: Cotton Commodity Survey – Trap locations for *Helicoverpa armigera*, *Spodoptera litura*, and *Thaumatotibia leucotreta*. Visual survey locations for *Lissachatina fulica* and *Oxycaenus hyalinipennis*.



Map 4: Exotic Wood Borer/Bark Beetle Survey – Trap locations for *Hylobius abietis*, *Ips sedentatus*, *Ips typographus*, *Platypus quercivorus*, and *Tomicus destruens*.

# Exotic Wood Boring Beetle Survey - Visual locations



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Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 6/12/2024

Map 5: Exotic Wood Borer/Bark Beetle Survey – Visual survey locations for *Anoplophora chinensis*, *Anoplophora glabripennis*, and *Lycorma delicatula*.

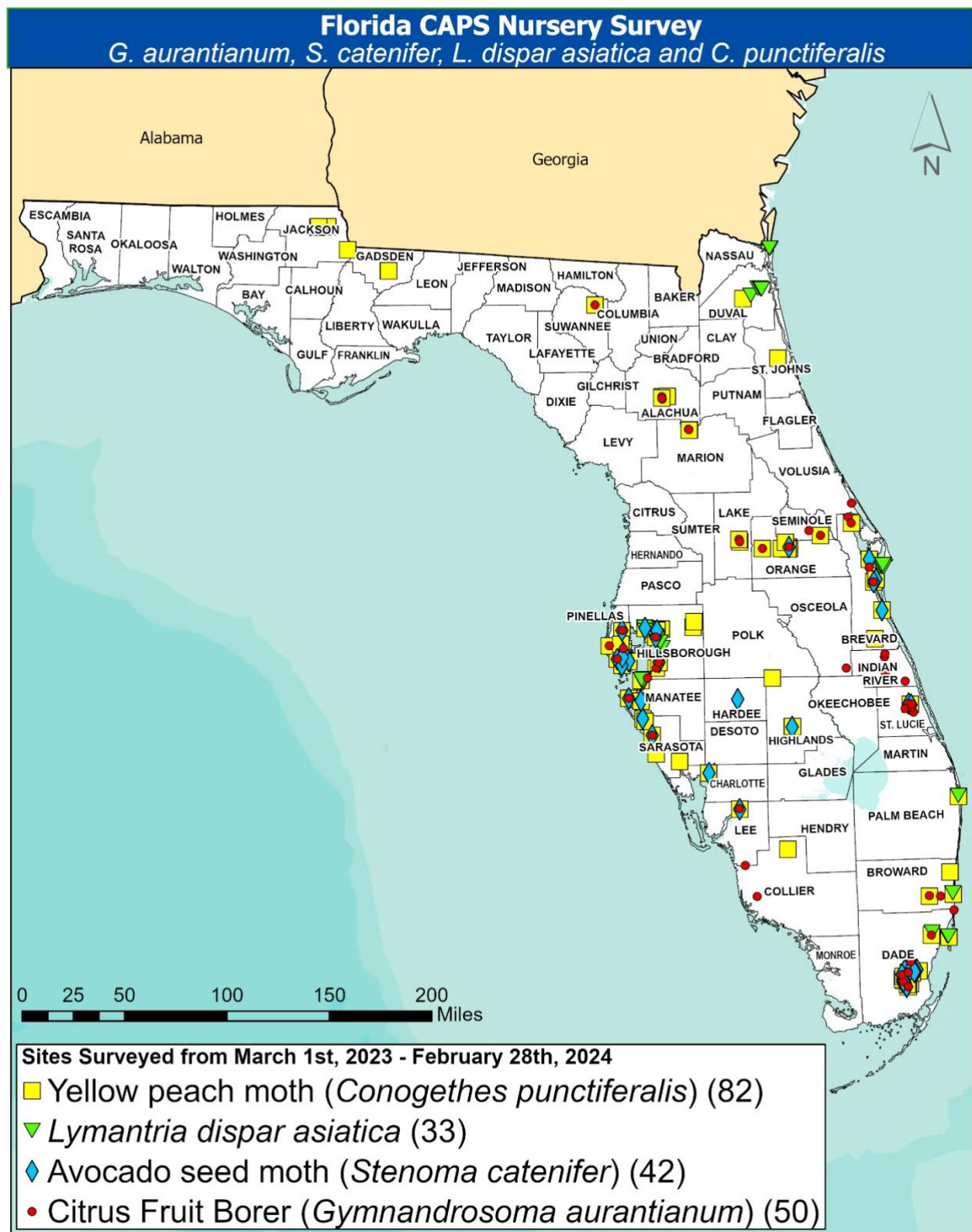


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K. Burnette, L. Whilby, B. Danner  
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 5/10/2024

Map 6: Nursery and Ornamental Survey – Trap locations for *Helicoverpa armigera*, *Spodoptera litura*, and *Thaumatotibia leucotreta*.

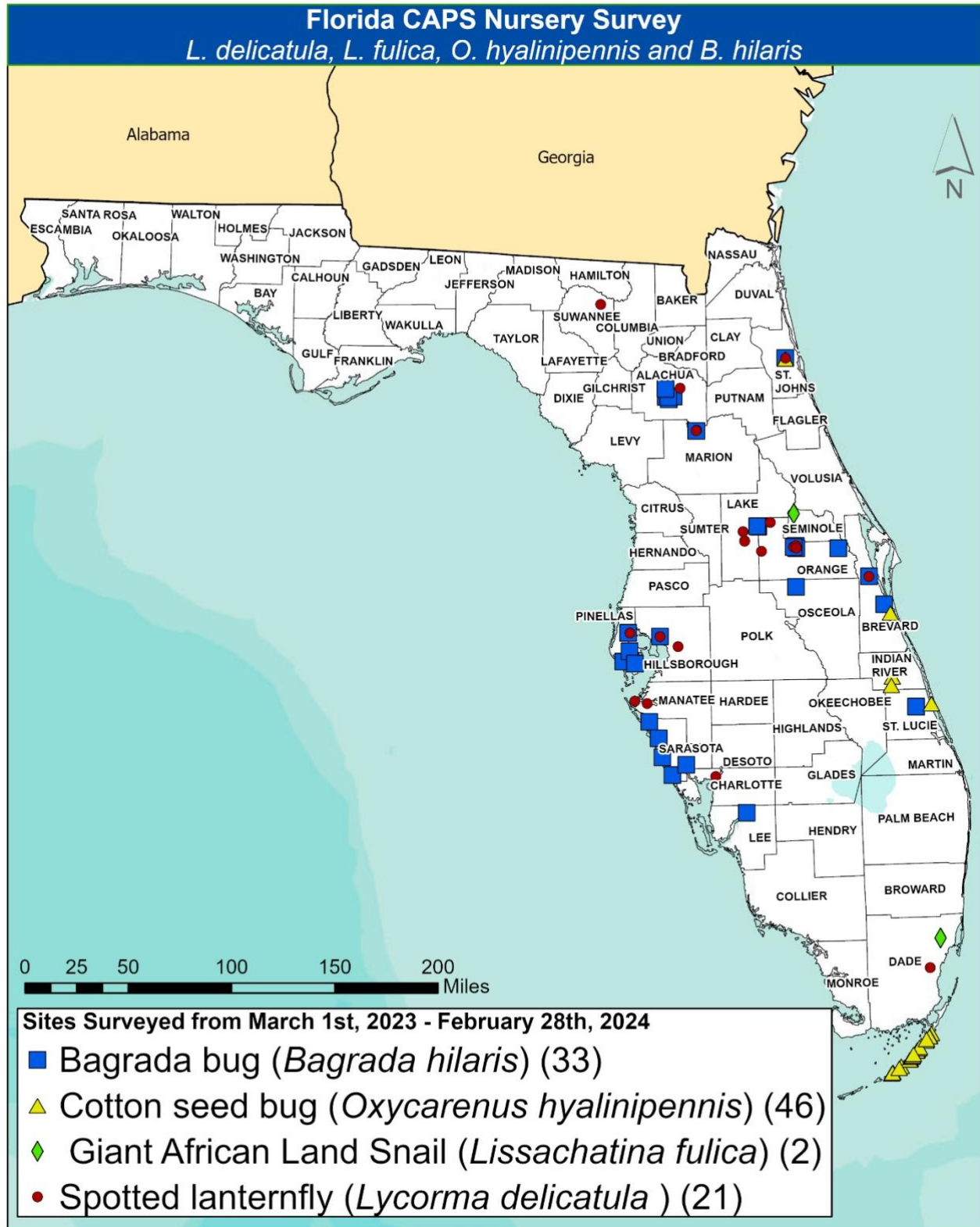


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Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 6/18/2024

Map 7: Nursery and Ornamental Survey – Trap locations for *Conogethes punctiferalis*, *Gymnandrosoma aurantianum*, *Lymantria dispar asiatica*, and *Stenoma catenifer*.

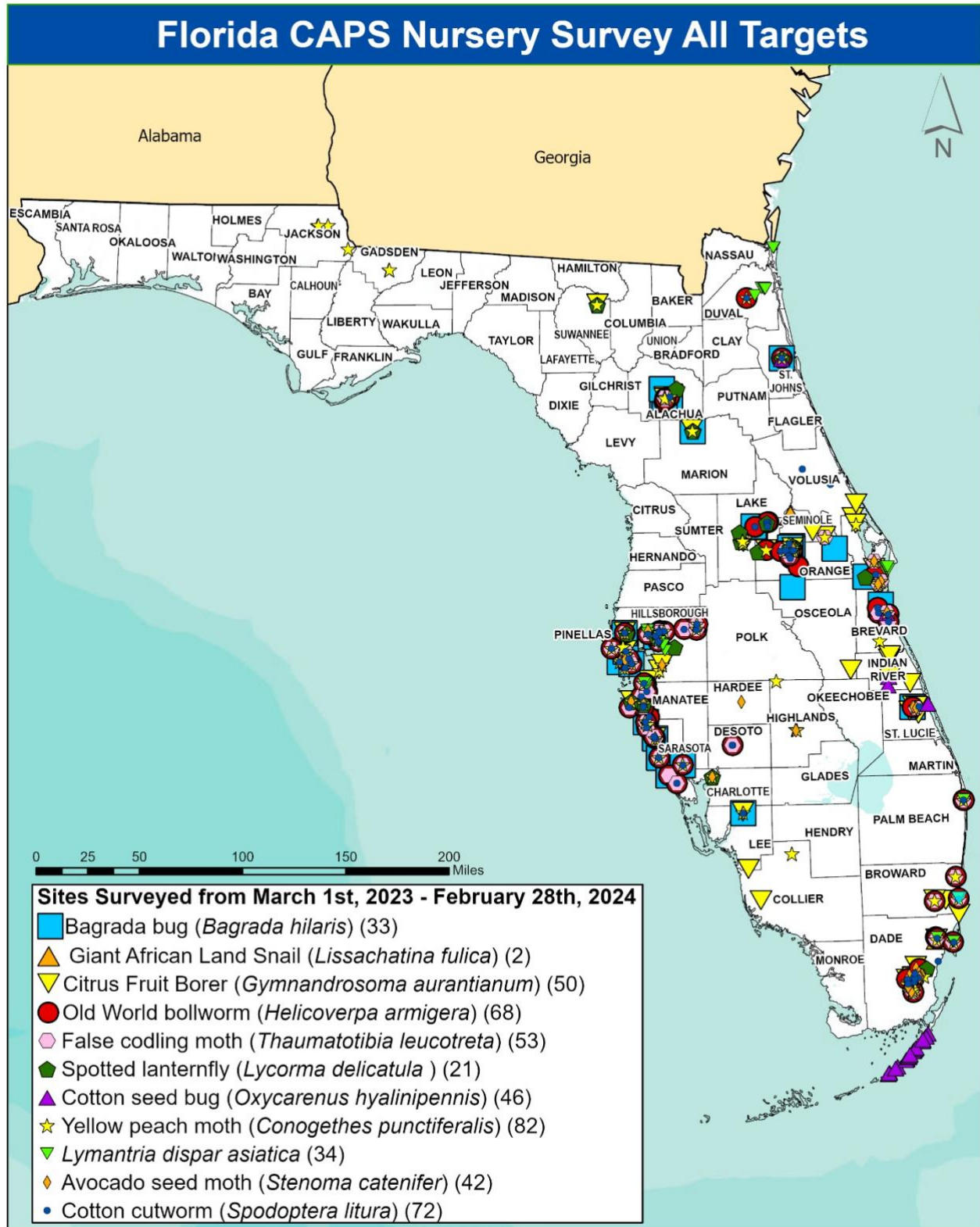


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K. Burnette, L. Whilby, B. Danner  
Map for illustrative purposes only



Coordinate System: Florida Albers Equal Area Conic  
Datum: North American 1983  
Data Source: CAPS  
Date: 5/10/2024

Map 8: Nursery and Ornamental Survey – Visual survey locations for *Bagrada hilaris*, *Lissachatina fulica*, *Lycorma delicatula*, and *Oxycarenus hyalinipennis*.



Map 9: Nursery and Ornamental Survey – Trap and visual survey locations for all targets.

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

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Approved and signed by:

\_\_\_\_\_  
**Dr. Trevor Smith, Cooperator**

**Date:** \_\_\_\_\_

\_\_\_\_\_  
**ADODR**

**Date:** \_\_\_\_\_