

Pest Detection/CAPS Survey Performance Report

Year:	2024
State:	Connecticut
Cooperative Agreement Name:	CT FY24 CAPS Combined Survey
Cooperative Agreement Number:	AP24PPQFO000C564
Project Funding Period:	5/1/2024 - 4/30/2025
Project Report:	PD/CAPS Survey Report
Project Document Date:	5/14/2025
Cooperators Project Coordinator:	State Survey Coordinator
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Performance Report	<input type="checkbox"/>
Annual Performance 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.*

Our objective was to conduct a nursery survey to determine whether any of the following exotic pests or pathogens have entered Connecticut through the nursery industry affecting trees commonly sold such as boxwood, oak, or *Prunus* species.

- Old World Bollworm (OWB), *Helicoverpa armigera*
- Box Tree Moth (BTM), *Cydalima perspectalis*
- European Cherry Fruit Fly (ECFF), *Rhagoletis cerasi*
- Oak Ambrosia Beetle (OAB), *Platypus quercivorus*
- Japanese Wax Scale (JWS), *Ceroplastes japonicus*
- Asian Longhorned Beetle (ALB), *Anoplophora glabripennis*
- Citrus Longhorned Beetle (CLB), *Anoplophora chinensis*
- Jujube Witches' Broom (JWB), *Candidatus phytoplasma ziziphi* 16SrV-B
- Apple Proliferation (AP), *Candidatus phytoplasma mali* 16SrX-A
- European Stone Fruit Yellow (ESFY), *Candidatus phytoplasma prunorum* 16SrX-F

Funding Amount	Traps	Visual	Cost Per Unit
Proposed= \$63,613	Proposed= 140	Proposed= 210	Proposed= \$181.75
Actual= \$63,613	Actual= 81	Actual= 150	Actual= \$275.38

1. Survey methodology (trapping protocol):

OWB and BTM:

Plastic bucket traps following national protocols developed by APHIS for both old world bollworm and box tree moth will be installed at thirty-five high risk sites (at or in the vicinity of wholesale and retail nurseries and nursery growing yards) starting in June. The traps will be serviced every two weeks, and lures replaced as needed according to Approved Methods for Pest Surveillance. Sorted samples containing suspect moths will be sent to the Oregon Department of Agriculture Insect Pest Prevention and Management Lab for identification and screening.

ECFF:

Yellow baited sticky cards following national protocols developed by APHIS for the European cherry fruit fly will be installed at thirty-five high risk sites (at or in the vicinity of wholesale and retail nurseries and nursery growing yards) starting in June. The traps will be serviced every two weeks, and lures replaced as needed according to Approved Methods for Pest Surveillance. Sorted samples containing suspect insects will be sent to the Oregon Department of Agriculture Insect Pest Prevention and Management Lab for identification and screening.

OAB:

Multi-funnel traps following national protocols developed by APHIS for the oak ambrosia beetle will be installed at thirty-five high risk sites (at or in the vicinity of wholesale and retail nurseries and nursery growing yards) starting in June. The traps will be serviced every two weeks, and lures replaced as needed according to Approved Methods for Pest Surveillance. Raw samples will be sent to the Carnegie Museum of Natural History’s Biodiversity Services Facility for identification and screening.

JWS, ALB, CLB, JWB, AP, and ESFY:

Visual surveys for Japanese wax scale, Asian longhorned beetle, citrus longhorned beetle, jujube witches’ broom, apple proliferation, and European stone fruit yellows will take place in August and September at thirty-five high risk sites (at or in the vicinity of wholesale and retail nurseries and nursery growing yards).

	Common Name	Scientific Name
Pest:	Old World Bollworm	<i>Helicoverpa armigera</i>
	Box Tree Moth	<i>Cydalima perspectalis</i>
	European Cherry Fruit Fly	<i>Rhagoletis cerasi</i>
	Oak Ambrosia Beetle	<i>Platypus quercivorus</i>
	Japanese Wax Scale	<i>Ceroplastes japonicus</i>
	Asian Longhorned Beetle	<i>Anoplophora glabripennis</i>
	Citrus Longhorned Beetle	<i>Anoplophora chinensis</i>
	Jujube Witches’ Broom	<i>Candidatus phytoplasma ziziphin 16SrV-B</i>
	Apple Proliferation	<i>Candidatus phytoplasma mali 16SrX-A</i>
	European Stone Fruit Yellows	<i>Candidatus phytoplasma prunorum 16SrX-F</i>

	Proposed	Actual
Sites (Locations):	35	25
Traps:	140	81

Number of Counties:	5
Counties:	Fairfield, Litchfield, New Haven, Hartford, Middlesex

2. Survey dates:

Survey Dates:	Proposed	Actual
Trapping	6/1/2024-9/30/2024	5/31/2024-10/7/2024
Visual	9/1/2024-9/30/2024	9/3/2024-10/7/2024

3. Benefits and results of survey:

Nursery Survey:

OWB and BTM:

Plastic bucket traps following national protocols developed by APHIS for both old world bollworm and box tree moth were installed at twenty-one and twenty high risk sites, respectively, starting May 31st. The traps were serviced every two weeks, and lures were replaced as needed according to Approved Methods for Pest Surveillance. Trapping was concluded by October 7th for all sites. Twenty-eight OWB and one BTM samples were sent to the Oregon Department of Agriculture Insect Pest Prevention and Management Lab for identification and screening.

ECFF:

Yellow baited sticky cards following national protocols developed by APHIS for the European cherry fruit fly were installed at twenty-one high risk sites starting May 31st. The traps were serviced every two weeks, and lures were replaced as needed according to Approved Methods for Pest Surveillance. Trapping was concluded by October 7th for all sites. Fourteen ECFF samples were sent to the Oregon Department of Agriculture Insect Pest Prevention and Management Lab for identification and screening.

OAB:

Multi-funnel traps following national protocols developed by APHIS for the oak ambrosia beetle were installed at nineteen high risk sites starting May 31st. The traps were serviced every two weeks, and lures were replaced as needed according to Approved Methods for Pest Surveillance. Trapping was concluded by October 7th for all sites. Raw samples were sent to the Carnegie Museum of Natural History's Biodiversity Services Facility for identification and screening.

JWS, ALB, CLB, JWB, AP, and ESYF:

Visual surveys for Japanese wax scale, Asian longhorned beetle, citrus longhorned beetle, jujube witches' broom, apple proliferation, and European stone fruit yellows took place in August and September at twenty-five high risk sites. No suspect targets were observed or collected.

Traps	Positive	Negative	Total Sites
Old World Bollworm	0	168	21
Box Tree Moth	0	160	20
European Cherry Fruit Fly	0	168	21
Oak Ambrosia Beetle	0	152	19

Visual	Positive	Negative	Total Sites
Japanese Wax Scale	0	25	25
Asian Longhorned Beetle	0	25	25
Citrus Longhorned Beetle	0	25	25
Jujube Witches' Broom	0	25	25
Apple Proliferation	0	25	25
European Stone Fruit Yellows	0	25	25

4. Database submissions:

- A.** 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.*

All pest detection/ CAPS survey data was entered into NAPIS.

B. If appropriate, explain why objectives were not met.*

There were ten less sites than proposed due to lack of nurseries with all potential host plant species available and lack of personnel. Additionally, not all sites available to participate had all four potential host plant species or enough space to available to place all four traps. This resulted in 59 fewer traps set up than proposed. The trapping period continued into October due to a transition period between State Survey Coordinators causing delays and a lack of personnel.

☐ 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. *

No cost overruns have occurred.

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