

Pest Detection/CAPS Infrastructure Accomplishment Report – FY2022

<b>Year:</b>	<b>2022</b>
<b>State:</b>	Connecticut
<b>Cooperative Agreement Name:</b>	Cooperative
<b>Cooperative Agreement Number:</b>	AP22PPQFO000C263
<b>Project Funding Period:</b>	05/01/2022 – 04/30/2023
<b>Project Report:</b>	<b>PD/CAPS Infrastructure Report</b>
<b>Project Document Date:</b>	05/15/2023
<b>Cooperators Project Coordinator:</b>	State Survey Coordinator
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Accomplishment Report	<input type="checkbox"/>
Annual Accomplishment Report	<input checked="" type="checkbox"/>

A. Compare actual accomplishments to objectives established as indicated in the work plan. When the output can be quantified, a computation of cost per unit is required when useful.\*

- Activities:

- *Pest Detection / CAPS Survey Work:*

- Develop work plans and budgets. Complete all reporting requirements as stated in the agreements; keeping the SPRO and SPHD updated on any changes as they occur.
      - Prepared and submitted 2021 reports for CAPS and PPA (2021 Vegetable Crops Pest Survey, 2021 CAPS Survey, 2021 CAPS Infrastructure)
      - Negotiated work plans for 2023 (2023 CAPS Survey, 2023 Box Tree Moth Program Pest, 2023 Forest Pest Survey)
    - Manage resources and personnel necessary to complete the CAPS survey goals.
      - Ordered 2023 CAPS and PPA survey supplies
    - Develop data collection methods and train personnel on them prior to survey.
      - Prepared and uploaded 2022 CAPS/PPA Negative Data into appropriate databases, such as NAPIS

- Other APHIS or State Survey Work:

- SSC will maintain contact with cooperators, growers` groups and industry/landowner associations, forwarding relevant pest information and invitations to participate in upcoming CAPS/PPA surveys.
      - Provided factsheets regarding current pests to nurseries and vineyards in 2022 surveys
    - SSC will respond to pest inquiries from the public and industry partners, tracking how they heard of the program, what they called about, method of the report, date of report, and outcome.
      - Responded to inquiries from current nursery owners/workers
      - Forwarded inquiries to CAES Insect Inquiry Office
    - SSC will assist in responses to trace forwards and CAPS-related pest inquiries
      - Assisted in trace-forward events of *Phytophthora ramorum*
    - SSC will screen and respond to questions and requests for pest information from the NAPIS database
      - Responded to various questions and inquiries from nurseries and vineyards regarding pests and diseases seen throughout the summer
    - SSC will attend relevant growers` meetings and conferences to educate/update groups on the CAPS program and mission, as well as current surveys and pests of concern.
      - November 29, 2022 – Attended CT Pomological Society; provided orchard growers with relevant information about the CAPS program and contact information

- SSC will create a spreadsheet of cooperators and stakeholders including information about their role in CAPS or other pest response activities
      - Generating a spreadsheet of previous and newly recruited cooperators and stakeholders from various outreach and growers` meetings.
  - *Committee Service:*
    - SSC will maintain a CAPS Committee that meets twice a year to discuss the CAPS goals and to keep partners and stakeholders engaged in the CAPS program
      - Conducted 2022-2023 Winter CAPS Committee Meeting on January 17, 2023
    - SSC will invite new members to participate in the CAPS committee meetings and disseminate the CAPS meeting minutes to partners and stakeholders who are unable to attend
      - Updated CAPS Committee on CAPS webpage – Replaced Kevin Grady with Olney Knight for CT DEEP
      - Replaced Christopher Martin with Danica Doroski
- Outreach and Education:
  - Interviews (TV/Radio/Newspaper/Magazines):
    - SPRO and/or SSC will provide information to media outlets as requested.
      - Providing information to various writers for articles and online media
  - Outreach materials (Pamphlets/ brochures/ posters):
    - SSC will obtain or create fact sheets about the 2022 survey pests to give to cooperators. SSC will mail survey information packets and pest fact sheets to growers participating in pest surveys
      - Updated and distributed factsheets to participating nurseries and vineyards regarding pests for 2022 surveys
      - Distribution of pest factsheets and outreach materials to local libraries and zoos
    - SSC will update CAPS program and pest information posters for display at grower meeting.
      - Updated and created new posters for various outreach events highlighting CAPS program
    - Throughout the year, SSC will provide CAES webmaster with updates to the CAES CAPS website, including pest information, fact sheets, work plans, committee meeting minutes, and reports.
      - Updated factsheets and added six new factsheets onto CAES CAPS website
      - Updated CAPS contact information on the CAES CAPS website
      - Updated CAPS Committee List on CAES CAPS website
  - Publications:
    - SSC will produce and/or update relevant factsheets for pests targeted in the 2022 CAPS and PPA surveys.
      - Generated new factsheets for pests that did not have updated or current information.

- Public Service Announcements (PSA):
  - CAES will produce press releases regarding any new state detection of pests.
- Meetings:
  - Conference calls:
    - SSC will join in on monthly regional CAPS SSC conference calls.
      - Attended monthly State Survey Coordinator Meetings
  - Conferences:
    - SSC and other CAES personnel will present information about CAPS at industry professional meetings such as the CT Tree Protective Association and the CT Nursery and Landscape Association as able and invited.
      - July 21, 2022 – Attended CTPA Summer Meeting
      - July 27, 2022 – Attended CNLA Summer Field Day
      - August 3, 2022 – Attended CAES Plant Science Day 2022
      - September 19, 2022 – Attended Eastern States Exposition in Springfield, MA
      - October 26, 2022 – Attended CT Urban Forest Council Conferences in Southington, CT
      - November 29, 2022 – Attended CT Pomological Society Meeting in Middletown, CT
      - January 4, 2023 – Attended UCONN Vegetable and Small Fruit Conference
      - February 23-24, 2023 – Attended CT Flower and Garden Show
      - March 7, 2023 – Attended the Forest Health Monitoring Workshop held at CAES
      - April 3-6, 2023 – Attended Annual Eastern Plant Board Meeting in Plymouth, MA
      - April 17, 2023 – Attended Spotted Lanternfly Symposium held at CAES
  - Webinars
    - SSC will attend relevant NAPIS webinars as available.
      - June 17, 2022 – Attended Maine Forest Service (Forestry Friday: Beech Leaf Disease – presented information on beech leaf disease, its impacts, and developments)
      - October 27, 2022 – Attended Don`t Move Firewood Team; presented interactive webinar on firewood outreach, resources, and education as part of the Don`t Move Firewood Campaign.
      - March 1-2, 2023 – Attended SLF Summit Webinar
      - March 8-9, 2023 – Attended Phytophthora ramorum 101: Focus on Field Activities Webinar Series

- Training:
  - SSC will train other Connecticut CAPS personnel in database use and data entry as needed
  - SSC will train summer workers in trapping, sorting, and survey functions during trapping season
  - SSC will attend relevant NAPIS training as available
    - June 17, 2022 – Attended CAPS/NAPIS training with James Kruse and Bonnie Dietrich
    - July 19, 2022 – Attended “Workplan Progress and Survey Summary Form Changes” with CAPSIS team
    - September 2, 2022 – Attended NAPIS Data Entry Training with Bonnie Dietrich
    - October 17-18, 2022 – Attended Horticultural Inspection Society Eastern Chapter SLF Training in Ewing, NJ
    - Attended EzFed Grants training sessions
- Other:
  - SSC will respond to cooperative extension, university, and other state cooperator requests for information about CAPS pests of concern and coordinate their submissions for identification, when necessary.

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

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

**B.** Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000. \*

No cost overruns occurred.

**C.** Was all Pest Detection/CAPS survey data entered into the National Agricultural Pest Information System (NAPIS)? If not, please provide a justification.

All Pest Detection/CAPS Survey negative data was entered into the National Agricultural Pest Information System (NAPIS). All sorted samples that were sent to identifiers have received final identification.

**D.** Supporting Documents

## CT State CAPS Committee Meeting (Winter 2023) Minutes

Date: January 17, 2023

Time: 1:00pm – 2:30pm

Facilitator: Dana Crandall, CT State Survey CAPS Coordinator

Attendees:

Dr. Victoria Smith (CAES), Dr. Claire Rutledge (CAES), Katherine Dugas (CAES), Dr. Rose Hiskes (CAES), Dr. Kelsey Fisher (CAES), Dr. Goudarz Molaei (CAES), Kate Aitkenhead (USDA APHIS PPQ), Nichole Carrier (USDA APHIS PPQ), Charles Baker (USDA APHIS PPQ), Erica Willey (USDA APHIS PPQ), Olney Knight (CT DEEP), Danica Doroski (CT DEEP), Nicholas Goltz (UCONN), Ana Legrand (UCONN), Joshua Tracy (Water Authority)

### **Welcome and Introductions**

#### **Updates of 2022 CAPS and PPQ Surveys and Outreach programs**

Dana Crandall- 2022 CAPS and PPA Summary

- ❖ 2022 CAPS Nursery and Retail Plant Pest Survey
  - Primary hosts: *Prunus* spp.
  - Sites: 25 Nurseries throughout all 8 CT counties
  - Survey period: Traps (May-September) Visuals (August-September)
  - 7 total pests: 4 trapped, 3 visuals
  - Awaiting final identification results from Oregon Department of Agriculture
- ❖ 2022 PPA Grape Commodity Survey
  - Primary host: Cultivated grapes, *Vitis vinifera*
  - Sites: 20 Vineyards throughout 7 of 8 CT counties
  - Survey period: Traps (May-August) Visuals (July-August)
  - 10 total pests: 3 trapped, 7 visuals
  - Awaiting final identification results from Oregon Department of Agriculture
  - All pathogen visual survey samples were sent to Pennsylvania Department of Agriculture for PCR testing (all negative results received on December 9, 2022)
- ❖ 2022 PPA *Phytophthora ramorum* Survey
  - Primary hosts: Rhododendron, Viburnum, Camellia, Kalmia, Pieris
  - Sites: 20 Nurseries throughout all 8 CT counties
  - Survey period: September-October
  - Targets: *Phytophthora ramorum*, *Phytophthora kernoviae*
  - Received all results from Pennsylvania Department of Agriculture on December 9, 2022 (all samples negative)
- ❖ 2023 CAPS Tree Nursery Pest Survey Plans
  - Primary hosts: *Pinus*, *Picea*, *Abies*
  - Sites: 35 Nurseries in 2 CT counties: Fairfield and New Haven
  - Survey Period: June-September
- ❖ 2023 PPA Suggestions
  - Orchard Commodity Survey
  - Forest Pest Survey
  - Box Tree Moth Program Pest Survey
  - Solanaceous Commodity Survey
  - Spotted Lanternfly Outreach (Goal 5)

Nichole Carrier- 2022 PPQ Survey Report

- ❖ Forest Pest Survey
  - Target high risk areas in all three states: CT, MA, RI
  - Geographic locations: CT (91 corridor), MA (eastern), RI (northern)
  - 50 sites across 3 states: CT (20), MA (20), RI (10)
    - 2 traps per site being hung in pine, fir, or spruce trees
  - Exotic targets: Two *Monochamus*, *Hylobius*, two *Tetropium*
    - Two CT counties were involved in the pilot use of cerambycid lures (6 component lures)
    - All negative results for targets

- Hung lindgren funnels early (April) to trap other early non-target bark beetles
- *Anisandrus maiche*
  - Three new county records: MA (Worcester) and CT (Hartford)
- *Heteroborips seriatus*
  - New county record in RI (Providence)
- ❖ Box Tree Moth Survey (*Cydalima perspectalis*)
  - Surveys conducted in Hartford and New Haven counties; all traps were set up at nurseries
  - No BTM caught in traps
- ❖ *Xylotrechus pyrrhoderus* Survey
  - Caught the first county record of *X. pyrrhoderus* in MA, Hampden County (August 2020) at a cemetery (lindgren funnel in birch tree with ethanol lure) during forest pest hardwood survey (not targeted)
  - Concentrated traps in MA: Hampshire and Hampden counties
    - Two single *X. pyrrhoderus* specimens were caught
  - Originally started with 5 vineyard sites, but widened the deployment of the traps to a 5-10 mile buffer around the 2020 interception as well as all the vineyards close by

Dr. Claire Rutledge- Emerald Ash Borer

- ❖ Long term data from *Cerceris* Wasp Watchers Survey
  - Volunteer group that tracks emerald ash borers using *Cerceris* wasps
  - EAB populations over time at sites
    - Beginning in 2012; years since detection vs. what proportion of *Cerceris* beetle collection at each site were EAB
  - EAB spread across CT state
    - 2017-2021 (EAB detected in every county; high densities spread across state away from initial location; EAB populations around initial detection in northern New Haven county had low density of EAB due to ash decline)

Dana Crandall- Summary of 2022 Outreach events

- ❖ Outreach events participated in: CTPA, CNLA, Eastern States Exposition, CT Urban Forest Council Conference, CT Pomological Society, CT Vegetable and Small Fruit Conference

Erica Willey- 2022 SLF Updates

- ❖ 2022 was the first year of CT SLF treatments
  - New positive counties: MA (Hampden), CT (Litchfield, Hartford, New London), RI (Washington)

Nicholas Goltz- 2022 samples submitted to UCONN

- ❖ 311 physical samples were submitted to UCONN by homeowners, growers, etc. across CT and adjacent states, such as MA, NY, and RI
  - One suspected regulated sample of *Ralstonia solanacearum* which was sent off for additional identification and came back negative

### **Current 2023 CAPS and PPQ Surveys Plans**

Nichole Carrier- 2023 PPQ plans

- ❖ Forest Pest Survey
  - Number of locations reduced to accommodate *Xylotrechus* survey
    - 15 sites in western CT (Litchfield, Hartford, Fairfield, New Haven counties)
    - One cross vane panel trap with 6-component lure and one cross vane panel trap with ethanol lure
  - Survey period is from mid-May through September (8 collections)
- ❖ *Xylotrechus pyrrhoderus* Survey
  - Surveys will be done entirely in cultivated grape to see if *X. pyrrhoderus* has made it into vineyards (1-3 traps per vineyard)

- 15 sites in CT; focusing on northern CT (staying close to the original detection in MA-Hampden County)
- ❖ Box Tree Moth Survey
  - Sites: CT (30), MA (30), RI (15)
  - Survey period: June- September
- ❖ Specialty Crops Pest Survey
  - Pilot survey only in MA (15 sites) for *Helicoverpa armigera* (Old World Bollworm) and *Autographa gamma* (Silver Y Moth)
    - Require genitalia identification
  - Focusing on the port of Boston (fresh cut flowers and peppers)

**Other old or new business**

Next State CAPS Committee Meeting planned for June 2023 which is to be held in-person

- ❖ Nichole Carrier suggested having a virtual option since the meeting will be in the middle of the survey season

Meeting concluded

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