

Year:	2017
State:	Connecticut
Cooperative Agreement Name:	Cooperative Agricultural Pest Survey
Cooperative Agreement Number:	17-8209-0327
Project Funding Period:	January 1 – December 31, 2017
Project Report:	CAPS Infrastructure Report
Project Document Date:	3/30/18
Cooperators Project 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 workplan. When the output can be quantified, a computation of cost per unit is required when useful.

- **Activities:**
 - **Committee Service:**
 - Katherine Dugas, SSC, maintained contact with the CT PPQ office and state CAPS committee.
 - Katherine Dugas, Dr. Victoria Smith, and Dr. Kirby Stafford ran the spring statewide CAPS committee meeting on May 17th. SSC prepared minutes of spring statewide CAPS committee meeting (12 attendees; see appendix).
 - Katherine Dugas began developed 2018 CAPS work plans based on feedback from committee discussions.
 - Katherine Dugas, Dr. Victoria Smith, and Dr. Kirby Stafford ran the fall statewide CAPS committee meeting on December 13th. SSC prepared minutes of fall statewide CAPS committee meeting (see appendix)
 - **Other Survey Work:**
 - Katherine Dugas ordered additional trapping supplies from IPHIS in March after receiving funding for a 2017 vineyard survey through Farm Bill.
 - 10 May 2017: Katherine Dugas accompanied USDA APHIS surveyors Ken DiVito, Eric Chamberlain, and Chuck Baker on a mollusk survey in Darien.
 - 5 October 2017: Katherine Dugas ordered traps and lures from IPHIS for 2018 CAPS survey.
- **Outreach and Education:**
 - **Interviews (TV/Radio/Newspaper/Magazines):**
 - 31 January 2017: Dr. Kirby Stafford was interviewed about gypsy moth in 2017 by Shawn Bourgeois, WINY-AM radio, Putnam, CT.
 - 7 March 2017: Dr. Stafford was interviewed about gypsy moth in 2017 by Judy Benson, The Day New London.
 - 27 March 2017: Dr. Stafford was interviewed by Greg Hladky of the Hartford Courant about gypsy moth.
 - 7 April 2017: Dr. Stafford assisted and was interviewed by Lauren Schneiderman, visual journalist for the Hartford Courant, with locating and photographing gypsy moth egg masses.
 - 27 April 2017: Dr. Stafford was interviewed by Ray Dunaway, WTIC radio, about gypsy moth.
 - 3 May 2017: Dr. Stafford was interviewed by Heather Burian, NBC Connecticut, about the gypsy moth.
 - 5 May 2017: Dr. Stafford was interviewed by Mark Sims, Connecticut Radio Network, about the potential for gypsy moth control by the fungus with current rains.

- 9 May 2017: Dr. Stafford was interviewed by Mary Biekert, Norwich Bulletin, about the gypsy moth fungus.
- 9 May 2017: Dr. Stafford was interviewed by Judy Benson, The New London Day, about the gypsy moth.
- 30 May 2017: Dr. Stafford was interviewed by Heather Burian, NBC, about gypsy moth.
- 5 June 2017: Dr. Stafford was interviewed by Cassandra Day, Middletown Press, about the gypsy moth.
- 6 June 2017: Dr. Stafford was interviewed by Alan Aronow, about the gypsy moth fungus for the Haddam Bulletin.
- 12 June 2017: Dr. Stafford was interviewed by Patrick Skahill, WNPR, about the gypsy moth.
- 16 June 2017: Dr. Stafford was interviewed by Heather Burian, NBC Universal, about gypsy moth.
- 16 June 2017: Dr. Stafford was interviewed by Anna Bisaro, New Haven Register, about local gypsy moth activity.
- 19 June 2017: Dr. Stafford was interviewed by Mike Puffer, Republic American, about gypsy moth.
- 19 June 2017: Dr. Stafford was interviewed by Susan Dunne, Hartford Courant, about managing gypsy moth droppings.
- 20 June 2017: Dr. Stafford was interviewed by Mike Morrisette, WILI Radio Willimantic, CT and by Madi Van Den Eynde, Journal Inquirer, Manchester, CT (June 20) about gypsy moths.
- 26 June 2017: Dr. Stafford was interviewed by Gregory Hladky, Hartford Courant, about the gypsy moth outbreak.
- 26 June 2017: Dr. Stafford was interviewed by Shawn Bourgeois, WINY Radio in Putnam, CT about the gypsy moth outbreak.
- 29 June 2017: Dr. Stafford was interviewed by Jesse Buchanan, Record Journal, about the gypsy moth.
- **Outreach materials (Pamphlets/ brochures/ posters):**
 - Katherine Dugas updated the fact sheets for all CAPS 2017 target pests. These fact sheets were distributed to all survey participant nurseries and landowners, as well as being made available at the CNLA and CTPA meetings.
 - Katherine Dugas updated the CAPS outreach posters to include 2017 survey pests. These posters are on display at all CNLA and CTPA meetings.
- **Publications:**
 - “The Gypsy Moth.” Dr. Kirby Stafford III, CAES.
http://www.ct.gov/caes/lib/caes/documents/publications/fact_sheets/entomology/gypsy_moth_fact_sheet.pdf
- **Public Service Announcements (PSA):**
 - 23 March 2017: Dr. Stafford participated in a media press conference with DEEP on the gypsy moth held at CT Forest &

Park Association Headquarters in Rockfall, CT and interviewed by Tony Terzi of Fox61 News, Tina Detelj from Channel News 8, WTNH, Kristen Johnson from NBC CT Channel 3, and Mark Sims, CT Radio.

- **Meetings:**
 - **Conference calls:**
 - Katherine Dugas, SSC, participated in CAPS conference calls on the following dates: January 26th, March 16th, May 11th, September 14th, and November 16th.
 - 31 January 2017: Dr. Stafford participated in a gypsy moth conference call with Connecticut and Rhode Island state foresters.
 - 2 February 2017: Dr. Stafford participated in a gypsy moth PSA meeting call with CTPA and DEEP.
 - 6 April 2017: Dr. Stafford participated on a gypsy moth conference call with state foresters for CT, MA, and RI.
 - 1 June 2017: Dr. Stafford participated on a regional gypsy moth conference call with state foresters for Connecticut, Massachusetts, and Rhode Island.
 - 8 August 2017: Vicki Smith participated in a meeting of Gypsy Moth Program managers, sponsored by the US Forest Service via conference call in, to report on gypsy moth conditions in CT; approximately 25 participants.
 - **Conferences:**
 - 19 January 2017: Katherine Dugas participated in the CT Tree Protective Association Winter Meeting, held at the Aqua Turf Club in Southington. Katherine staffed an information booth that showcased CAPS survey targets for 2017.
 - 25 January 2017: Dr. Victoria Smith and Katherine Dugas participated in the CT Nursery and Landscape Association Winter Symposium, held at the Aqua Turf in Southington. Dr. Smith gave a talk titled: "Inspection, Registration, and Early Detection: Activities of the Office of the State Entomologist." Katherine staffed an information booth that showcased CAPS survey targets for 2017.
 - 7 March 2017: Victoria Smith hosted the annual Forest Health Monitoring Workshop, held in Jones Auditorium. Participants included Experiment Station personnel and guests from UConn, DEEP, regional water authorities, and USDA-APHIS Plant Protection and Quarantine. There were 48 participants total. Presentations have been archived at <http://www.ct.gov/caes/cwp/view.asp?a=2826&Q=591230&PM=1>
 - 3-6 April 2017: Victoria Smith, Tia Blevins, Jeff Fengler, and Katherine Dugas attended and participated in the 92nd annual meeting of the Eastern Plant Board, held at the Holiday Inn in

Martinsburg, West Virginia; 120 participants. This meeting also includes HIS and CAPS members.

- July 19 2017: Donna Ellis attended the Massachusetts Nursery and Landscape Association Summer Conference, Princeton, MA, July 19, 2017. Invited presentation on pests in nurseries and landscapes, including exotic pests.
- 20 July 2017: Katherine Dugas participated in the CT Tree Protective Association Summer Meeting, held at the Farmington Club. Vicki Smith presented a talk titled “Forest Health—Insects and Diseases”; approximately 700 attendees.
- 24-27 July 2017: Vicki Smith participated in a workshop, sponsored by US Forest Service and PA Department of Natural Resources, on Oak Wilt and Emerald Ash Borer, held at the Frick Environmental Center in Pittsburgh, PA; 60 participants.
- 26 July 2017: Katherine Dugas participated in the CT Nursery and Landscape Association Summer meeting, held at Pride’s Corner Farms in Lebanon. Donna Ellis gave a presentation on pests in nurseries and landscapes, including exotic pests. (400 attendees)
- 19 October 2017: Vicki Smith participated in a meeting of the Yale Biosafety Committee, held at 135 College Street, New Haven; 20 participants.
- 24-25 October 2017: Vicki Smith participated in the annual meeting of the US Forest Service Durham Field Office cooperators, held at Rhode Island Department of Environmental Management Office in Providence, RI, with a presentation on CT forest conditions, including the recent gypsy moth outbreak; 40 participants.
- 16 November 2017: Vicki Smith participated in a meeting of the Yale Biosafety Committee, held at 135 College Street, New Haven; 20 participants.
- 29 November 2017: Vicki Smith participated in a joint seminar, with USDA-APHIS-Plant Protection and Quarantine and USDA-APHIS-Veterinary Services, held at Yale University Environmental Health and Services meeting room, at 135 College Street, New Haven, on the regulatory and permitting process; 20 participants.
- 15 December 2017: Donna Ellis attended the UConn Integrated Pest Management (IPM) Program Team Meeting, UConn, Storrs, CT. Discussion on project activities, including exotic pests. (12 attendees)
- 21 December 2017: Vicki Smith participated in a meeting of the Yale Biosafety Committee, held at 135 College Street, New Haven; 20 participants.

- **Webinars**

- **Training:**
 - July – August 2017: Donna Ellis of UConn conducted 11 Integrated Pest Management (IPM) training sessions and hands-on field demonstrations with nursery producers and staff in Fairfield, New Haven, and Windham Counties, CT. The training sessions included information on exotic insects and weeds.
 - Fall Semester 2017: Donna Ellis taught 2 UConn courses - SPSS 2001W, Sustainable Plant Pest Communication, and SAPL 810, Plant Pest Control. Course content included exotic plant, insect, and disease detection.
- **Other:**
 - 20 April 2017: Dr. Stafford presented a talk on gypsy moths in Sterling, CT sponsored by the Sterling Ag Commission (120 attendees).
 - 19 July 2017: presented a talk to Experiment Station interns, directed by Lindsay Triplett, on inspection and registration at the Experiment Station; 13 participants.
 - 11 October 2017: Katherine Dugas presented a talk to the Old Lyme Lions Club titled “The Gypsy Moth in Connecticut.” (20 attendees)

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

All objectives are currently being met.

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

No cost overruns have occurred.

D. Supporting Documents

See Appendix.

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

Approved and signed by

Cooperator

Date: _____

Date: _____

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APPENDIX:

USDA APHIS COOPERATIVE AGRICULTURAL PEST SURVEY (CAPS) PROGRAM STATE CAPS COMMITTEE MEETING

New Haven, CT

Wednesday, May 17th, 2017; 10:00 a.m. – 11:00 a.m.

AGENDA

1. Welcome and Introductions [In attendance: Kirby Stafford, CAES; Katherine Dugas, CAES; Chris Maier, CAES; Vicki Smith, CAES; Kate Aitkenhead, APHIS PPQ; Nichole Carrier, APHIS PPQ; Donna Ellis, UConn; Rose Hiskes, CAES](#)
2. Updates of 2017 CAPS and PPQ surveys and outreach programs

Surveys conducted by The Connecticut Agricultural Experiment Station (CAES):

- Oak/Maple – 25 sites
 - a. *Tortrix viridana* (GOTM)
 - b. *Thaumatotibia leucotreta* (FCM)
 - c. *Archips xylosteana* (VGTM)
 - d. *Mamestra brassicae* (CM)
- Xmas Tree – 25 sites
 - a. *Monochamus alternatus* (JPS) and *urussovii* (BFS)
 - b. *Tetropium fuscum* (BSLB) and *castaneum* (BSB)
 - c. *Hyllobius abietis* (LPW)
- EWB/BB – 25 sites
 - a. *Tetropium domesticum* (EHAB) [April - June](#)
 - b. *Platypus quercivorus* (OAB) [July - September](#)
- 2017 Farm Bill Surveys:
 - a. Grape– 20 sites
 1. *Epiphyas postvittana* (LBAM)
 2. *Cryptoblabes gnidiella* (CBM)
 3. *Lobesia botrana* (EGVM)
 4. *Eupoecilia ambiguella* (EGBM)
 5. *Adoxophyes orana* (SFTM)
 6. *Archips xylosteana* (VGTM)
 7. *Lycorma delicatula* (SLF) [Visual Survey, lure is in development. Found in NY?](#)
 8. *Diabrotica speciosa* (DS) [Visual Survey](#)
 - b. *P. ramorum* – 25 nursery sites, continuation of 2016 – [survey in progress](#)
 - c. National Honey Bee Survey – 25 sites – [2016 samples found no neonics, kits have arrived for 2017 survey. May be last year?](#)
 - d. *Cerceris* – part of Forest Pest

Surveys conducted by USDA APHIS PPQ:

- Forest Pest Survey -

- a. *Monochamus alternatus* & *urrusovii*, *Hylobius abietis*
 - b. *Tetropium fuscum* & *castaneum*,
 - c. *Dendrolimus pini* & *sibiricus* – CAES will add to 2018 CAPS survey
- *Cerceris* Biosurveillance
 - a. *Agrilus biguttatus*, *sulcicolis*, *auroguttatus*, *planipennis*
- Terrestrial Mollusk Survey –
 - a. *Monacha*, *Cochlicella*, *Cernuella* spp.

Mile-a-Minute biological control (UConn + CAES) Discussed challenges with EZFedGrants system. Full funding has been approved, releases begin mid to late June. No new towns. Drought affected weevils last year.

Lily leaf beetle biological control (UConn) Partial funding is approved. 3 parasitized larvae found last year. Gail Reynolds (Master Gardener) working with Lisa Tewksbury of URI.

Forest Pest Outreach Report – In MA, no quarantine expansion.

3. 2018 CAPS Guidelines

- Program Changes
- Priority Survey
- Pest and Survey Lists

4. Proposed 2018 Surveys – CAPS: Nursery Survey (with generalist scolytid trap, tortricid, and EWBB), Christmas Tree Survey (with *Monochamus*, *Tetropium*, pine processionary moth, and *Dendrolimus*). Farm Bill: Orchard, Solanaceous survey?

5. Other old or new business

- Next State CAPS Committee meeting will be in fall 2017

**USDA APHIS COOPERATIVE AGRICULTURAL PEST SURVEY (CAPS) PROGRAM
STATE CAPS COMMITTEE MEETING**

Hamden, CT

Wednesday, December 13th, 2017; 10:00 a.m. – 11:00 a.m.

AGENDA

6. Welcome and Introductions In attendance: Nichole Carrier, USDA; Chuck Baker, USDA; Kirby Stafford, CAES; Donna Ellis, UConn; Chris Maier, CAES; Chris Donnelly, DEEP; Vicki Smith, CAES; Rose Hiskes, CAES; Katherine Dugas, CAES; Kevin Grady, DEEP

7. Updates of 2017 CAPS and PPQ surveys and outreach programs

Surveys conducted by The Connecticut Agricultural Experiment Station (CAES):

- Oak/Maple – 25 sites – no suspects found
 - a. *Tortrix viridana* (GOTM)
 - b. *Thaumetopoea processionea* (OPM)
 - c. *Archips xylosteana* (VGTM)
 - d. *Mamestra brassicae* (CM)
- Xmas Tree – 25 sites – no suspects found
 - a. *Monochamus alternatus* (JPS) and *urussovii* (BFS)
 - b. *Tetropium fuscum* (BSLB) and *castaneum* (BSB)
 - c. *Hylobius abietis* (LPW)
- EWB/BB – 25 sites
 - a. *Trypodendron domesticum* (EHAB)
 - b. *Platypus quercivorus* (OAB)
- 2017 Farm Bill Surveys:
 - a. Grape– 20 sites no suspects found
 - 1. *Epiphyas postvittana* (LBAM)
 - 2. *Cryptoblabes gnidiella* (CBM)
 - 3. *Lobesia botrana* (EGVM)
 - 4. *Eupoecilia ambiguella* (EGBM)
 - 5. *Adoxophyes orana* (SFTM)
 - 6. *Archips xylosteana* (VGTM)
 - 7. *Lycorma delicatula* (SLF) – Future surveys in quarries, hardscapes (urban, tree-of-heaven) – Agricultural pest, not forest pest
 - 8. *Diabrotica speciosa* (DS)
 - b. *P. ramorum* – 25 nursery sites, continuation of 2016
 - c. National Honey Bee Survey – 25 sites – results trickling in
 - d. *Cerceris* – part of Forest Pest – Grand Total of 2,692 buprestid beetles collected, 1,226 EAB

Surveys conducted by USDA APHIS PPQ

Mile-a-Minute biological control (UConn + CAES) – Carole Cheah + Emmet; 4 new MaM towns – map on website. 50 towns total – not as many weevils this year – 2000. Control – plants dry in drought, mugwort takes over. Glastonbury + Norwalk, 51,624 total released in 24 towns at 47 sites – will be 10th year.

Lily leaf beetle biological control (UConn) – Started in 2012 – 3 spp. Of parasitoid wasps from URI. Gale Reynolds – 83 release in 4 towns. Not a lot of recovery, but continuing. Subaware from CT to provide parasitoids. 1,480 releases overall – LLB not as big an issue lately, due to control?

Forest Pest Outreach Update – Collaborating with CTPA listserve about forest pest of concern; make an effort to notify town tree wardens of EAB detections in their towns.

Gypsy Moth – 1,175,000 acres defoliated in 2017

8. 2018 Survey Plans:

- CAES Surveys
 - Nursery – 25 sites
 - *Tortrix viridana* (GOTM)
 - *Thaumetopoea processionea* (OPM)
 - *Trypodendron domesticum* (EHAB)
 - *Platypus quercivorus* (OAB)
 - General Scolytid
 - Xmas Tree – 30 sites
 - *Monochamus alternatus* (JPS) and *urussovii* (BFS); *Hylobius abietis* (LPW)
 - *Tetropium fuscum* (BSLB) and *castaneum* (BSB)
 - *Thaumetopoea pityocampa* (PPM)
 - *Dendrolimus pini* and *sibiricus*
 - Farm Bill Suggestions: Orchard, Solanaceous, *Cerceris* (as part of Forest Pest) – Mid-January spending plan? Goal 1 due by mid-March
- USDA APHIS PPQ Surveys

9. Other old or new business

- Oak wilt – NY, Long Island (bark beetle vector)
- Bacterial leaf scorch (leafhopper vector)
- Winter Moth – UMass fact sheet
- Next State CAPS Committee meeting will be in spring 2018
-