

Pest Detection / CAPS Infrastructure Work Plan - Fiscal Year 2020

Cooperator:	The Connecticut Agricultural Experiment Station		
State:	Connecticut		
Project:	Infrastructure		
Project funding source:	PD / CAPS Infrastructure <input checked="" type="checkbox"/>		
Project Coordinator:	Katherine Dugas		
Agreement Number			
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This Work Plan reflects a cooperative relationship between the Connecticut Agricultural Experiment Station (the Cooperator) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for supporting the following surveys: Nursery Pest Survey and the related roles and responsibilities of the parties [e.g., APHIS role(s) and Cooperator role(s)] as negotiated.

I) OBJECTIVES AND NEED FOR ASSISTANCE

What relevant need or problem within the cooperator's mission area requires a solution in carrying out a public purpose of support or stimulation authorized by a law of the United States? How does the need or problem align with the mission area and strategic goals of APHIS?

Connecticut needs to protect its commercial, agricultural, and natural environment from exotic insects, weeds and diseases that may come in from other countries through various routes. The purpose of this project is to build the infrastructure of the Connecticut CAPS program and enhance communication and networking among targeted stakeholders to support detection and response efforts for exotic pests. The ultimate goal of this work plan is to further the Homeland Security Initiative by protecting our nation's and Connecticut's food production and natural resources from exotic pests and bioterrorism.

The health of Connecticut's agricultural and horticultural industries, as well as its environment, depends on keeping pests, both exotic and native, under control. The 2017 Census of Agriculture lists 5,521 individual farms in Connecticut, totaling 381,539 acres. Top production by total sales as of 2015 include nursery, greenhouse, floriculture and sod (42%) milk from cows (13%), poultry/eggs (15%), fruit farming (7%), tobacco(6%) and vegetable and melon farming(8%).

There are also currently 199 farms in Connecticut that produce maple syrup, generating a total of 17,378 gallons per year as of 2017.

According to a 2015 study by UConn that used Agricultural Census data, the CT agricultural industry generates approximately 21,000 jobs in the state. The study also concluded that around \$132 million in revenue was generated for the state solely through the forest product industry, which provides lumber, flooring, building materials, firewood, mulch, and specialty items. Another significant industry noted in the study was agritourism, including CSA programs, farm-to-table events, pick your own, and farm tours, which contributes an estimated \$90 million in sales, 800 jobs, and \$30 million in wages.

Introductions of exotic pests and the ensuing control efforts that must be undertaken for their control may negatively impact agricultural crops, pastures, and forests, resulting in severe economic losses for the state. Subsequent environmental losses from exotic species could also result in reduction in air, soil and water quality, reduced open space, and endanger native wildlife.

II) RESULTS OR BENEFITS EXPECTED

The Cooperator seeks to conduct a program which is expected to result in:

- A point of contact, the State Survey Coordinator (SSC), to coordinate and ensure that the CAPS program objectives are met.
- Accurate and timely survey, data entry, and management of the CAPS program.
- Improved networking with stakeholders including but not limited to nursery and forest product industries.
- Efficient and effective response to pest emergencies from agriculture stakeholders, the nursery and forest product industries and concerned residents.
- Improved outreach about pests of concern and the Connecticut CAPS program to stakeholders and other state agencies.

III) APPROACH

What is the plan of action or approach to the work?

A. The Cooperator Will:

1. By function, what work is to be accomplished?

a. Activities:

1. Committee Service:

- SSC will maintain a state CAPS committee that will meet at least twice a year to discuss fostering the goals of CAPS. (June, November)
- 2021 CAPS guidelines and 2020 CAPS surveys in Connecticut will be discussed using APHIS, CAES and state committee member input during the spring 2020 statewide committee meeting. SSC will then review current CAPS AHP and commodity pest lists, GPDD and NAPFAST to make recommendations to the state CAPS committee for 2021 survey pests.(May-August)

2. Other Survey Work:

- SSC will enter data into PPQ approved database (NAPIS) as requested by PPQ. (October – December)
 - SSC will enter new pest records into PPQ approved database within 48 hours of confirmation of identification per PPQ. (Yearwide)
 - SSC will collect survey data and enter it into a PPQ approved database throughout the survey season as data becomes available. (June – December)
 - SSC will prepare 2020 Farm Bill survey and outreach workplans if approved. (March-April)
 - SSC will submit 2021 survey trap and lure orders into the IPHIS supply ordering database and follow up on procurements. (September)
 - SSC will order additional survey supplies for 2020 Farm Bill surveys, if required. (March-April)
3. Emergency Response Planning:
- SSC will assist in responses to trace forwards and CAPS-related pest inquiries. (Yearwide)
 - SSC will screen and respond to questions and requests for pest information from the NAPIS database. (Yearwide)
4. Networking:
- SSC will maintain contact with cooperators, growers' groups, and industry and landowner associations, forwarding relevant pest information and invitations to participate in upcoming CAPS/Farm Bill surveys. (Yearwide)
 - SSC will attend relevant growers' meetings and conferences, in order to educate/update groups on the CAPS program and mission, as well as current surveys and pests of concern. (Yearwide)
- b. Outreach and Education:
1. Interviews (TV/Radio/Newspaper/Magazines):
- SPRO and/or SSC will provide information to media outlets as requested. (Yearwide)
2. Outreach materials (Pamphlets/ brochures/ posters):
- SSC will obtain or create fact sheets about the 2020 survey pests to give to cooperators. SSC will mail survey information packets and pest fact sheets to growers participating in pest surveys. (January – April)
 - SSC will update CAPS program and pest information posters for display at grower meetings. (January)
3. Publications:
- SSC will produce and/or update relevant fact sheets for pests targeted in the 2020 CAPS and Farm Bill surveys. (January – April)
4. Public Service Announcements (PSA):
- CAES will produce press releases regarding any new state detections of pests. (Yearwide)
- c. Meetings:
1. Conference calls:
- SSC will join in on bi-monthly regional CAPS SSC conference calls. (January, March, May, July, September, November)

2. *Conferences:*

- SSC will attend the Eastern plant board/CAPS meeting as funding allows. (April)
- 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. (January, July)

3. *Webinars:*

- SSC will attend relevant webinars involving the CAPS program or relevant pests. (Yearwide)

d. *Training:*

- SSC will train other Connecticut CAPS personnel in database use and data entry as needed. (Yearwide)
- SSC will train summer workers in trapping, screening, and survey functions during trapping season. (May-June)

e. *Other:*

- Throughout the year, SSC and other CAES personnel will staff tables at industry meetings, and give talks to grower groups as requested regarding the CAPS mission and pests of concern. Specific meetings include –CT Nursery and Landscape Association, CT Tree Protective Association, CT Christmas Tree Grower Association. (Yearwide)
- 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. (Yearwide)
- Throughout the year, SSC will interact with the public, to impart awareness of new pests and established pests of public concern. (Yearwide)

2. What is the quantitative projection of accomplishments to be achieved?

a. *By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?*

See above timelines.

b. *What criteria will be used to evaluate the project? What are the anticipated results and successes?*

- Pest detection survey, outreach and other infrastructure project activities will be completed in the time frame outlined in this work plan.
- All data collected from the pest detection surveys will be entered into the PPQ approved database (NAPIS, IPHIS) in the time frames outlined in this work plan.
- Maps of pest detection survey activities will be produced to aid in the planning of future surveys, pathway risk and analysis and outreach activities. CAES will provide data to PPQ for map making purposes.
- A semi-annual report will be submitted in July, and an annual report will be submitted in January.

3. **What numbers and types of personnel will be needed and what will they be doing?**
 - Dr. Kirby Stafford, SPRO and Dr. Victoria L. Smith, DSPRO, will provide informational support and state guidance. Dr. Smith has immediate oversight of the CAPS program.
 - Katherine Dugas, CAES, will serve as SSC. She will perform the duties outlined in section III)A.

4. **What equipment will be needed to perform the work?**
 - a. *What equipment will be provided by the cooperator?*
Cooperator will provide large format printers and state vehicle.
 - b. *What equipment will be requested from APHIS on loan?*
None.
 - c. *What equipment will be purchased in whole or in part with APHIS funds?*
None.
 - d. *How will the equipment be used?*
Printers will be used for producing outreach materials; state vehicle will be used to conduct survey and for travel to meetings and outreach events.
 - e. *What is the proposed method of disposition of the equipment upon termination of the agreement/project?*
N/A

5. **Identify information technology equipment, e.g., computers, and their ancillary components.**
 1. IT equipment currently used by SSC:
 - a. Laptop – purchased with APHIS funds from previous agreement
 - b. LCD Projector– purchased with APHIS funds from previous agreement
 - c. GPS Unit – purchased with APHIS funds from previous agreement
 2. IT equipment currently used by all personnel:
 - a. CAES network computers, access to Internet via CAES computer network.

6. **What supplies will be needed to perform the work?**
 - a. *What supplies will be provided by the Cooperator?*
Office supplies.
 - b. *What supplies will be requested from APHIS (list supplies)?*
Printed outreach material when available.
 - c. *What supplies will be purchased in whole or in part with APHIS funds?*
Large format printer paper, color printer ink cartridges.
 - d. *How will the supplies be used?*
Supplies will be used to produce work plans, reports, and to produce and distribute outreach materials.
 - e. *What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?*
N/A

7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?

- The state system of purchasing from contracted vendors will be used.

8. What are the travel needs for the project?

a. Is there any local travel to daily work sites? Who is the approving official? What are the methods of payment? Local travel to meetings and outreach events will be approved by the Experiment Station Director and Mr. Last. Cooperator will provide a vehicle for local travel as state allows. State will cover operational costs.

b. What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates)? SSC will drive to the regional Plant Board/CAPS meeting using state provided vehicle. Dr. Theodore Andreadis and Mr. Michael Last will approve overnight travel.

9. Reports:

All reports will be completed in ezFedGrants. Reports include:

- a. Narrative Accomplishment Reports in the frequency and timeframe specified on the Agreement Award Face Sheet.
- b. Federal Financial Reports, SF-425 in the frequency and timeframe specified on the Agreement Award Face Sheet.

10. Are there any other contributing parties who will be working on the project?

Listing institutions/agencies that assist in state CAPS committee meetings would be appropriate.

a. If so, list other participating institutions/agencies who will work on the project: The University of Connecticut (UConn), the CT Department of Energy and Environmental Protection (DEEP), and the CT Department of Transportation (DOT)

b. Describe the nature of their effort:

Information sharing regarding CAPS pests, CAPS survey and other plant pest issues. Member participation in statewide CAPS committee meetings and outreach activities.

C. APHIS Will:

1. Outline the Agency's (USDA APHIS PPQ) substantial involvement.

a. Include any significant Agency collaboration and participation.

- Providing any new information that becomes available on pests of concern, appropriate forms, and review data.
- Providing the following resources: funds to the Cooperator to cover costs outlined in the financial plan; specific appropriated funding in the level authorized by APHIS Field Operations will be dedicated to the delivery of CAPS objectives listed above.

- Making arrangements for taxonomic support in confirming identification of suspect exotic pests.
- Producing maps of the survey activities with the location data (latitude and longitude) provided by the Cooperator, if Cooperator does not have the necessary software or resources to produce maps.
- Providing preprinted outreach materials when available.

b. Project oversight and performance management

- The following personnel:
 - The State Plant Health Director, USDA APHIS, will provide informational support, review performance and federal guidance.
 - Pest Survey Specialist, USDA APHIS will assist in developing CAPS pest survey protocols, pest risk analysis, survey apps training, work plan and budget development and other related activities.

c. APHIS will provide the equipment requested by the cooperator in 4.b. & c.

d. APHIS will provide the supplies requested by the cooperator in 6.b. & c.

IV) DATA COLLECTION AND MAINTENANCE

Each State is responsible for entering complete, accurate, and timely pest survey data that was obtained using the [Approved Methods for Pest Surveillance](#). The [National Agricultural Pest Information System](#) (NAPIS) is the final repository for all Pest Detection and Cooperative Agricultural Pest Survey (CAPS) survey results. As such, all data generated from all Pest Detection/CAPS surveys will be entered into NAPIS at <https://napis.ceris.purdue.edu>

- First record for the State and/or County will be entered within **48 hours** of confirmation of identification by a qualified identifier.
- All other required records, both positive and negative survey data, must be entered **within two weeks** of confirmation.
- All records are to be entered into the NAPIS database no later than the date that the final Accomplishment Report is due, otherwise a justification must be provided in the Accomplishment Report. If results have not been returned from an identifier or diagnostic lab by the time the Accomplishment Report is due, please also notify the National Operations Manager for Pest Detection.

V) SIGNATURES

Victoria Lynn Smith 20 Aug 19
ROAR Date

ADODR Date

FY2020 Financial Plan - Infrastructure

COOPERATOR NAME: The Connecticut Agricultural Experiment Station

TIME PERIOD (Cooperative Agreement Year): January 1, 2020 – December 31, 2020

ITEM	APHIS FUNDS	COOPERATOR FUNDS (Show even if zero)
PERSONNEL:		
State Survey Coordinator, 660 hrs. @ \$24.36/hr	\$16,078	\$0
SPRO, 5 hrs. @ \$78.78/hr	\$0	\$394
DSPRO, 70 hrs. @ \$57.40/hr	\$0	\$4,018
Subtotal	\$16,078	\$4,412
FRINGE BENEFITS:		
85% of salary for permanent employees	\$ 13,666	\$3,750
Subtotal	\$ 13,666	\$3,750
TRAVEL:		
Travel by SSC to CAPS Meeting	\$1,108	
Subtotal	\$ 1,108	\$0
EQUIPMENT		
Subtotal	\$0	\$0
SUPPLIES		
Subtotal	\$0	\$0
CONTRACTUAL		
Subtotal	\$0	\$0
OTHER		
Subtotal	\$0	\$0
TOTAL DIRECT COSTS	\$30,852	\$8,162
INDIRECT COSTS (45 % of Salary)	\$7,235	\$2,427
TOTAL	\$ 38,087	\$10,589
Cost Share Information	78.25%	21.75%