

Overview

- 2018 CAPS and Farm Bill Survey Summaries
- 2019 CAPS and Plant Protection Act Survey Plans



CAPS Program

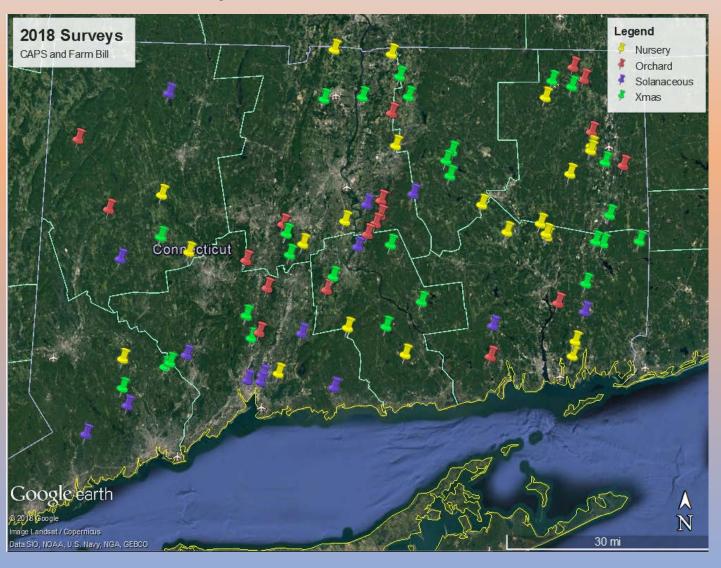
- Cooperative Agricultural Pest Survey
- Joint effort between US Department of Agriculture(USDA)'s Animal and Plant Health Inspection Service (APHIS) Plant Protection and Quarantine (PPQ) and state cooperators
- Purpose is to detect new exotic plant pests, maintain a pest information database, and conduct outreach
 - protecting agriculture and natural resources from economic and environmental damage



Farm Bill/Plant Protection Act

- Separate source of funding from CAPS
- Formerly known as Section 10007 of the Farm Bill. As of FY 2019, it is now known as the Plant Protection Act §7721, PPA 7721 for short.
- Utilizes existing CAPS infrastructure to conduct additional pest surveys
- In FY 2018, \$70 million supported 494 projects in 49 states, Guam and Puerto Rico
- "These projects prevent the introduction or spread of invasive plant pests and diseases that threaten U.S. agriculture and the environment, as well as ensure the availability of a healthy supply of clean plant stock in the United States."

2018 Survey Summaries



2018 CAPS Survey

- Nursery Survey— 25 sites
 - green oak tortrix moth, Tortrix viridana
 - variegated golden tortrix moth, Archips xylosteanus
 - oak processionary moth, Thaumetopoea processionea
 - European hardwood ambrosia beetle, Trypodendron domesticum
 - Oak ambrosia beetle, Platypus quercivorus
 - Plus 1 general scolytid trap
- Christmas tree survey 25 sites
 - brown spruce longhorned beetle, Tetropium fuscum
 - black spruce beetle, *Tetropium castaneum*
 - black fir sawyer, Monochamus urussovii
 - Japanese pine sawyer, Monochamus alternatus
 - large pine weevil, Hylobius abletis
 - Pine processionary moth, Thaumetopoea pityocampa
 - Siberian silk moth, Dendrolimus pini
 - Pine tree lappet, Dendrolimus sibricus

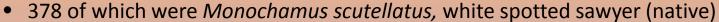




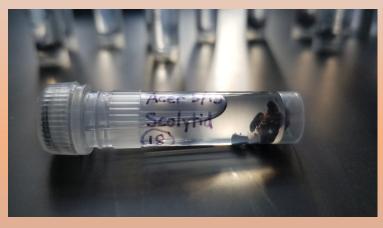


2018 CAPS Survey

- Bark Beetles:
 - 4,991 total Scolytids collected + screened
- Longhorned Beetles:
 - 659 total Cerambycids collected + screened



- Weevils:
 - 131 weevils collected + screened
- Moths:
 - 304 GOTM and OPM traps collected and screened
 - 183 PPM traps collected and screened
- NO SUSPECTS



Planters & 6/13 @ alleks

2018 Farm Bill Orchard Survey

• Insects:

- light brown apple moth,
 Epiphyas postvittana
- summer fruit tortrix moth,
 Adoxophyes orana
- variegated golden tortrix moth, Archips xylosteanus
- pear leaf blister moth, Leucoptera mallifoliella
- cabbage moth,
 Mamestra brassicae
- 20 sites







2018 Farm Bill Orchard Survey

- LBAM:
 - 89 traps collected + screened
- SFTM:
 - 84 traps collected + screened
- VGTM:
 - 90 traps collected + screened
- PLBM:
 - 82 traps collected + screened
- CBTM:
 - 88 traps collected + screened
- No suspects found, SLF visual survey negative

2018 Farm Bill Solanaceous Survey

• Insects:

- silver Y moth,
 Autographa gamma
- golden twinspot, Chrysodeixis chalcites
- old world bollworm, Helicoverpa armigera
- tomato fruit borer,
 Neoleucinodes elegantalis
- Egyptian cottonworm, Spodoptera littoralis
- cotton cutworm,
 Spodoptera litura
- tomato leafminer,
 Tuta absoluta
- 20 sites



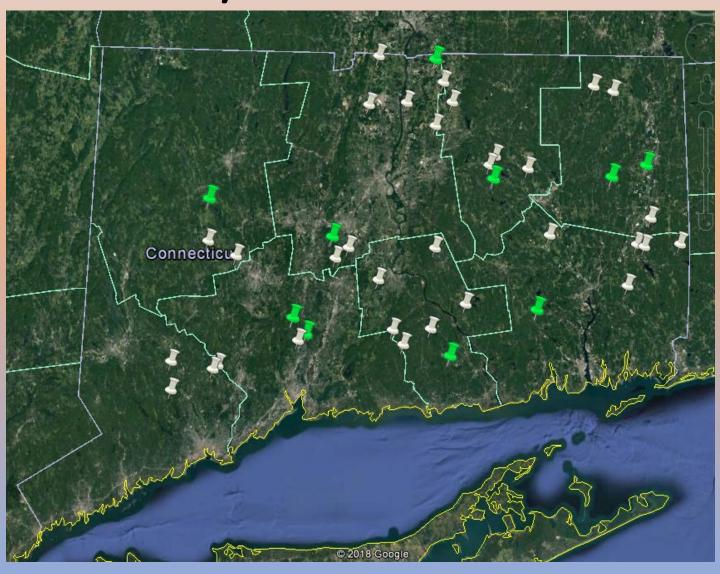




2018 Farm Bill Solanaceous Survey

- SYM:
 - 56 traps collected + screened
 - 40 suspects sent to Cornell for dissection no targets found
- GTS:
 - 58 traps collected + screened
- OWB:
 - 49 traps collected + screened
 - 130 suspects sent to Cornell for dissection no targets found
- TFB:
 - 63 traps collected + screened
- ECW:
 - 50 traps collected + screened
- CCW:
 - 53 traps collected + screened
- TLM:
 - 65 traps collected + screened
- NO TARGETS FOUND

2019 Survey Plans





2019 CAPS Survey



- Nursery Survey
 – 50 sites
 - Sixtoothed bark beetle, *Ips sexdentatus*
 - European spruce bark beetle, Ips typographus
 - large pine weevil, Hylobius abletis
 - Mediterranean pine shoot beetle, *Tomicus destruens*
 - green oak tortrix moth, Tortrix viridana
 - oak processionary moth, Thaumetopoea processionea
 - Pine processionary moth, Thaumetopoea pityocampa
 - Siberian silk moth, Dendrolimus pini
 - Pine tree lappet, *Dendrolimus sibricus*
 - Masson pine moth, Dendrolimus punctatus



2019 PPA Grape Survey

- Insects:
 - European grapevine moth, Lobesia botrana
 - European grape berry moth, Eupoecilia ambiguella
 - Christmas berry webworm, Cryptoblabes gnidella
 - spotted lanternfly, Lycorma delicatula
 - curcurbit beetle,
 Diabrotica speciosa
 - black maize beetle, Heteronychus arator
- 3 Phytoplasmas, australiense, solani, vitis



NAPIS and Pest Tracker

- http://pest.ceris.purdue.edu/
- Contains information on past and present CAPS surveys, searchable by state and by pest

Thank You!

- USDA APHIS PPQ Kate Aitkenhead, Nichole Carrier, and Chuck Baker
- CAES Vicki Smith, Tia Blevins, Jeff Fengler, Zack Brown, and Adam Cohen
- UConn Donna Ellis, Linda Dunscomb, Nicole Gabelman, Jude Hsaing, and Jennifer Dacey
- All the CT farmers/growers/landowners who have generously provided us with permission to trap on their properties!

