

MAINE CAPS REPORT | 2019/2020



2019 CAPS (2 surveys):

1. Nursery Commodity Survey; DACF Animal and Plant Health.

TARGET	SURVEY METHOD	SURVEY PERIOD	# SITES/ hosts	# POS	# NEG
Asian longhorned beetle (<i>Anoplophora glabripennis</i>)	Visual	May-Oct	36/ 5991	0	5991
Citrus longhorned beetle (<i>Anoplophora chinensis</i>)	Visual	May-Oct	36/ 8325	0	8325
Apple proliferation (<i>Candidatus Phytoplasma mali</i> 16SrX-A)	Visual	May-Oct	35/ 2729	0	2729
Almond witches' broom (<i>C. Phytoplasma phoenicium</i> 16SrIX-B)	Visual	May-Oct	22/ 502	0	502
Pine witches' broom (<i>C. Phytoplasma pini</i> 16SrXXI-A)	Visual	May-Oct	19/ 1448	0	1448
European stone fruit yellows (<i>C. Phytoplasma prunorum</i> 16SrX-F)	Visual	May-Oct	30/ 1443	0	1443
Pine processionary moth (<i>Thaumetopoea pityocampa</i>)	Red Plastic Delta Trap	Jun-Sep	10	0	10
Pine tree lappet (<i>Dendrolimus pini</i>)	Milk Carton Trap	Jun-Sep	10	0	10
Siberian silk moth (<i>Dendrolimus sibiricus</i>)	Milk Carton Trap	Jun-Sep	10	0	10
Pine sawfly (<i>Diprion pini</i>)	Red Plastic Delta Trap	Jun-Sep	10	0	10

2. Exotic Woodboring/Bark Beetle Survey; DACF Forest Health and Monitoring.

TARGET	SURVEY METHOD	SURVEY PERIOD	# SITES	# POS	# NEG
European spruce bark beetle (<i>Ips typographus</i>), Six-toothed bark beetle (<i>I. sexdentatus</i>), Mediterranean pine engraver (<i>Orthotomicus erosus</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	5	0	5
Oak ambrosia beetle (<i>Platypus quercivorus</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Aug	6	0	6
Goldspotted oak borer (<i>Agrilus auroguttatus</i>)	PPT/no lure	May-Jul	6	0	6
Oak splendour beetle (<i>A. biguttatus</i>)	Cerceris	Jul-Aug	6	0	6
Black spruce beetle (<i>Tetropium castaneum</i>), Brown spruce longhorned beetle (<i>T. fuscum</i>)	Cross Vane Panel Trap, Black	May-Sep	5	0	5

2019 PPA Projects (5):

1. Small Fruit Pest Survey; DACF Animal and Plant Health / University of Maine Cooperative Extension.

TARGET	SURVEY METHOD	SURVEY PERIOD	# SITES	# POS	# NEG
Summer fruit tortrix moth (<i>Adoxophyes orana</i>)	Paper Delta Trap	Jun-Sep	10	0	10
Light brown apple moth (<i>Epiphyas postvittana</i>)	Jackson Trap	Jun-Sep	18	0	18
Cotton cutworm (<i>Spodoptera litura</i>)	Plastic Bucket Trap	Jun-Sep	18	0	18
European grape berry moth (<i>Eupoecilia ambiguella</i>)	Wing Trap	Jun-Sep	8	0	8
European grapevine moth (<i>Lobesia botrana</i>)	Red Plastic Delta Trap	Jun-Sep	8	0	8
Spotted lanternfly (<i>Lycorma delicatula</i>)	Visual	Jun-Sep	8	0	8
Australian grapevine yellows (<i>Candidatus Phytoplasma australiense</i> 16SrXII-B)	Visual	Jun-Sep	8	0	8
Flavescence doree (<i>C. Phytoplasma vitis</i> 16SrV-C)	Visual	Jun-Sep	8	0	8
Stolbur disease (<i>C. Phytoplasma solani</i> 16SrXII-A)	Visual	Jun-Sep	8	0	8
Rotbrenner (<i>Pseudopezicula tracheiphila</i>)	Visual	Jun-Sep	8	0	8

2. **Vegetable Crops Pest Survey:** DACF Animal and Plant Health / University of Maine Cooperative Extension.

TARGET	SURVEY METHOD	SURVEY PERIOD	# SITES	# POS	# NEG
Allium leafminer (<i>Phytomyza gymnostoma</i>)	Visual	Jun-Sep	12	0	12
Leek moth (<i>Acrolepiopsis assectella</i>)	White Plastic Delta Trap	Jun-Sep	12	1	11
Tomato leafminer (<i>Tuta absoluta</i>)	Red Plastic Delta Trap	Jun-Sep	10	0	10
Golden twin spot moth (<i>Chrysodeixis chalcites</i>)	Plastic Bucket Trap	Jun-Sep	10	0	10
Cabbage moth (<i>Mamestra brassicae</i>)	Plastic Bucket Trap	Jun-Sep	12	0	12
Swede midge (<i>Contarinia nasturtii</i>)	Jackson Trap	Jun-Sep	12	1	11

3. **Potato Pest Survey (PCN/Blackleg):** DACF Animal and Plant Health - Seed Potato Inspection Staff.

TARGET	SURVEY METHOD	SURVEY PERIOD	# SAMPLES	# POS	# NEG
Potato cyst nematode (<i>Globodera pallida</i>); Golden nematode (<i>G. rostochiensis</i>)	Soil Collection	Sep-Oct	4590	0	4590

4. **Forest Pest Outreach and Survey Project (FPOSP):** DACF Animal and Plant Health, with contracts to Maine Natural Areas Program, Saco River Recreational Council, Maine Association of Conservation Districts.

- Staff conducted 71 outreach events in 43 Maine towns.

5. **Firewood Outreach Campaign:** DACF Animal and Plant Health / DACF Bureau of Forestry.

- Maine renewed with Firewood Scout (195 vendors), produced a brochure to help vendors sign up, advertised twice in Maine Campground guide, and ran Facebook promotions to advertise this resource for locating local firewood.
- Bureau of Forestry visited campgrounds and conducted interviews and surveys on firewood origins/usage

NAPIS Data

Data was entered into NAPIS for 40 pests. New positive state records entered in 2019:

Pest Common	Pest Scientific	Positives	Obs. Year(s)
Swede midge	<i>Contarinia nasturtii</i>	2 counties	2019

Other new state finds not entered into NAPIS:

<i>Contarinia quinquenotata</i> (daylily gall midge)	<i>Depressaria depressana</i> (purple carrot seed moth)	<i>Anoplophora macularia</i>
1 residential site	2017-2019; vegetable survey	Resident report (York Co.); dubious obtainment of specimen
		

2020 CAPS (1 survey):

1. **Nursery Commodity Survey;** DACF Animal and Plant Health.

TARGET	SURVEY METHOD	PERIOD	# SITES
Asian longhorned beetle (<i>Anoplophora glabripennis</i>)	Visual	Jun-Oct	20
Citrus longhorned beetle (<i>Anoplophora chinensis</i>)	Visual	Jun-Oct	20
Apple proliferation (<i>Candidatus Phytoplasma mali 16SrX-A</i>)	Visual	Jun-Oct	20
Almond witches' broom (<i>C. Phytoplasma phoenicium 16SrIX-B</i>)	Visual	Jun-Oct	20
European stone fruit yellows (<i>C. Phytoplasma prunorum 16SrX-F</i>)	Visual	Jun-Oct	20
Oak wilt (<i>Ceratocystis fagacearum</i>)	Visual	Jun-Oct	20
Scots pine blister rust (<i>Cronartium flaccidum</i>)	Visual	Jun-Oct	20
Japanese oak wilt (<i>Raffaelea quercivora</i>)	Visual	Jun-Oct	20
Spotted lanternfly (<i>Lycorma delicatula</i>)	Visual	Jun-Oct	20
Pine-tree lappet (<i>Dendrolimus pini</i>)	Milk Carton Trap	Jun-Sep	15
Siberian silk moth (<i>Dendrolimus sibiricus</i>)	Milk Carton Trap	Jun-Sep	15
Pine sawfly (<i>Diprion pini</i>)	Red Plastic Delta Trap	Jun-Sep	15
Pine processionary moth (<i>Thaumetopoea pityocampa</i>)	Red Plastic Delta Trap	Jun-Sep	15
Pine beauty moth (<i>Panolis flammea</i>)	Plastic Bucket Trap	Jun-Sep	15
European cherry fruit fly (<i>Rhagoletis cerasi</i>)	Yellow Sticky Card	Jun-Sep	15

2020 PPA Projects (7):

1. **EWBB Survey;** DACF Division of Forest Health and Monitoring.

TARGET	SURVEY METHOD	PERIOD	# SITES
European spruce bark beetle (<i>Ips typographus</i>), Six-toothed bark beetle (<i>I. sexdentatus</i>),	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	10
Six-toothed spruce bark beetle (<i>Pityogenes chalcographus</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	10
Japanese pine sawyer (<i>Monochamus alternatus</i>), Black fir sawyer (<i>M. urussovii</i>), Large pine weevil (<i>Hylobius abietus</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	10
Oak ambrosia beetle (<i>Platypus quercivorus</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	10
European hardwood ambrosia beetle (<i>Trypodendron domesticum</i>)	Multi-funnel Trap, 8 Funnel, Wet	May-Sep	10
Oak splendour beetle (<i>A. biguttatus</i>)	PPT/no lure Cerceris biosurveillance	May-Jul Jul-Aug	6-12
Black spruce beetle (<i>Tetropium castaneum</i>), Brown spruce longhorned beetle (<i>T. fuscum</i>)	Cross Vane Panel Trap, Black	Apr-Sep	10
Velvet longhorned beetle (<i>Trichoferus campestris</i>)	Cross Vane Panel Trap, Black	Apr-Sep	10

2. **Berry Pest Survey;** DACF Animal and Plant Health / University of Maine Cooperative Extension.

TARGET	SURVEY METHOD	PERIOD	# SITES
Summer Fruit Tortrix Moth (<i>Adoxophyes orana</i>)	Paper Delta Trap	Jun-Sep	12
Light Brown Apple Moth (<i>Epiphyas postvittana</i>)	Jackson Trap	Jun-Sep	12
Cotton Cutworm (<i>Spodoptera litura</i>)	Plastic Bucket Trap	Jun-Sep	12
Tomato black ring virus (<i>Nepovirus TBRV</i>)	Visual	Jun-Sep	12

3. **Vegetable Crops Pest Survey;** DACF Animal and Plant Health / University of Maine Cooperative Extension.

TARGET	SURVEY METHOD	PERIOD	# SITES
Leek moth (<i>Acrolepiopsis assectella</i>)	White Plastic Delta Trap	Jun-Sep	10

Tomato leafminer (<i>Tuta absoluta</i>)	Red Plastic Delta Trap	Jun-Sep	10
Golden twin spot moth (<i>Chrysodeixis chalcites</i>)	Plastic Bucket Trap	Jun-Sep	10
Cabbage moth (<i>Mamestra brassicae</i>)	Plastic Bucket Trap	Jun-Sep	10
Swede midge (<i>Contarinia nasturtii</i>)	Jackson Trap	Jun-Sep	10
Silver Y moth (<i>Autographa gamma</i>)	Plastic Bucket Trap	Jun-Sep	10
Old world bollworm (<i>Helicoverpa armigera</i>)	Plastic Bucket Trap	Jun-Sep	10
Cotton cutworm (<i>Spodoptera litura</i>)	Plastic Bucket Trap	Jun-Sep	10
Western bean cutworm (<i>Striacosta albicosta</i>)	Wing Trap	Jun-Sep	10

4. **Tree Fruit Pest Survey;** University of Maine Cooperative Extension.

TARGET	SURVEY METHOD	PERIOD	# SITES
Asian gypsy moth (<i>Lymantria dispar asiatica</i>)	Milk Carton Trap	Jun-Oct	8
Pear leaf blister moth (<i>Leucoptera malifoliella</i>)	Red Plastic Delta Trap	Jun-Oct	8
Cotton cutworm (<i>Spodoptera litura</i>)	Plastic Bucket Trap	Jun-Oct	8
Brown marmorated stink bug (<i>Halyomorpha halys</i>)	Rescue® BMSB Trap	Jun-Oct	8
Spotted lanternfly (<i>Lycorma delicatula</i>)	Visual	Jun-Oct	8
Apple Brown Rot (<i>Monilinia fructigena</i>)	Visual	Jun-Oct	8
Apple Proliferation (<i>Candidatus Phytoplasma mali 16SrX-A</i>)	Visual	Jun-Oct	8

5. **Potato Pest Survey (PCN/Blackleg);** DACF Animal and Plant Health - Seed Potato Inspection Staff.

TARGET	SURVEY METHOD	PERIOD	# SITES
Potato Cyst Nematode (<i>Globodera pallida</i>); Golden Nematode (<i>G. rostochiensis</i>)	Soil Collection	Aug-Nov	>100

6. **Forest Pest Outreach and Survey Project (FPOSP);** to be conducted by DACF Division of Animal and Plant Health, with contracts to DACF Maine Natural Areas Program and Cumberland Co. SWCD.

- This project expands on previous FPOSP by including invasive terrestrial plants that are threats to our forest ecosystems, such as Japanese stiltgrass, Mile-a-minute weed, and other species found to the south of Maine. Additional emphasis will focus on public participation with identifying and reporting plantings of *Ailanthus altissima*, in order to assess spotted lanternfly risk.

7. **Firewood Outreach Campaign;** conducted by DACF Division of Animal and Plant Health, and DACF Bureau of Forestry.

- Billboard: between Boston, MA and the Maine border. The message will be displayed for 4 weeks throughout the month of July in 2020.
- Highway and road signs: work with the Governor’s office as well as the Maine Department of Transportation and Maine Turnpike Authority to gain access to roadside real estate and erect either permanent or mobile signs.
- Print advertising: buy advertising space in appropriate trade publications, such as the Maine Camping Guide, The Maine Sportsman, other sportsman journals, and outdoor magazines.
- Graphic design: contract with a marketing imager to help create graphic and messaging for billboards, signs, and advertisements.
- Encourage campers to “Buy Local” thru Firewood Scout.