

Results of IRDA (Institut de Recherche et de Développement en Agroenvironnement) Pest and Disease Survey:

"Adaptation of Phytosanitary Measures Against Pests and Diseases of Fruit Crops in the Context of Climate Change"

Questions: In the last 5 years, have you encountered any invasive species that caused damage OR any endemic species that became a concern in the crops below?

Are you apprehensive of encountering any pests or diseases in these fruit crops?

Common name	Latin name	Crops	Year(s)	Type of pest	Type of damage	Severity L 1 -> 5 H	Comments	Region	State	Source
Spotted lanternfly	<i>Lycorma delicatula</i>	-	-	Apprehensive	-	-		Lake Ontario	New York	Tessa Grasswitz - Survey - Burlington 2016
European cherry fruit fly	<i>Rhagoletis cerasi</i>	-	-	Apprehensive	-	-		Lake Ontario	New York	Tessa Grasswitz - Survey - Burlington 2016
European chafer	<i>Amphimallon majale</i> (<i>Rhizotrogus majalis</i>)	Strawberry	2011-2016	Invasive	Leafs Trunk / Bark	4		-	New Hampshire	George Hamilton - Survey - Brulington 2016
Oriental beetle	<i>Anomala orientalis</i>	Strawberry	2011-2016	Invasive	Trunk / Bark	4		-	New Hampshire	George Hamilton - Survey - Brulington 2016
Prionus borer	<i>Cerambycidae</i>	-	2011	Endemic / naturalized	Roots	4	Very specific area	-	New Hampshire	George Hamilton - Survey - Brulington 2016
Black stem borer	<i>Xylosandrus germanus</i>	Apple Strawberry	2011-2013	Endemic / naturalized	Roots	4	Very specific area	-	New Hampshire	George Hamilton - Survey - Brulington 2016
Black root rot	<i>Thielaviopsis basicola</i>	Strawberry	2010-2016	Endemic / naturalized	Roots	4	Very specific area	-	New Hampshire	George Hamilton - Survey - Brulington 2016
Dogwood borer	<i>Synanthedon scitula</i>	Apple	2010-2016	Endemic / naturalized	Trunk / Bark	4		-	New Hampshire	George Hamilton - Survey - Brulington 2016
South american fruit fly	<i>Anastrepha fraterculus</i>	-	-	Apprehensive	-	-		-	New Hampshire	George Hamilton - Survey - Brulington 2016
Spotted lanternfly	<i>Lycorma delicatula</i>	<i>Ailanthus altissima</i>	2014	Invasive	Trunk / Bark	5	Pennsylvania only	Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
Zaprius indianus	<i>Zaprius indianus</i>	Raspberry	2013-2015	Invasive	Fruits	1		Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
Codling moth	<i>Cydia pomonella</i>	Apple	-	Endemic / naturalized	Fruits	5		Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
Green and brown stink bug	<i>Pentatomidae</i>	Apple	-	Endemic / naturalized	Fruits	3		Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
San jose scale	<i>Quadraspidiotus perniciosus</i>	Apple	-	Endemic / naturalized	Fruits Leafs	5		Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
Dogwood borer	<i>Synanthedon scitula</i>	Apple	-	Endemic / naturalized	Trunk / Bark	-		Hudson Valley	New York	Peter Jentsch - Survey - Burlington 2016
Black stem borer	<i>Xylosandrus germanus</i>	Apple	2013-2016	Invasive	Trunk / Bark	4		-	New York	Juliet Carroll - Survey - Burlington 2016
Thrips	<i>Thripidae</i>	Raspberry	2014	Endemic / naturalized	Flowers Fruits Leafs	4	In high tunnels	-	New York	Juliet Carroll - Survey - Burlington 2016
Fire blight (Streptomycin resistant strain)	<i>Erwinia amylovora</i>	Apple	2012-2014	Endemic / naturalized	Flowers Leafs	3		-	New York	Juliet Carroll - Survey - Burlington 2016
Black stem borer	<i>Xylosandrus germanus</i>	Apple	2013-2016	Endemic / naturalized	Trunk / Bark	4	Technically an invasive, although present in NY since 1932	Western New York	New York	Arthur Agnello - Survey - Burlington 2016
San jose scale	<i>Quadraspidiotus perniciosus</i>	Apple	-	Endemic / naturalized	Fruits Trunk / Bark	3		Western New York	New York	Arthur Agnello - Survey - Burlington 2016
Wolly apple aphid	<i>Eriosoma lanigerum</i>	Apple	-	Endemic / naturalized	Fruits Leafs Trunk / Bark	3		Western New York	New York	Arthur Agnello - Survey - Burlington 2016
Spotted lanternfly	<i>Lycorma delicatula</i>	-	-	Apprehensive	-	-	Currently established in a small area of PA	Western New York	New York	Arthur Agnello - Survey - Burlington 2016
Black stem borer	<i>Xylosandrus germanus</i>	Raspberry Thornless blackberry	2010	Endemic / naturalized	Trunk / Bark	5	Severe on 1 site	-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Apple leaf curling midge	<i>Dasineura mali</i>	Apple	2010-2012	Endemic / naturalized	Leafs	1		-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Broad-necked root borer	<i>Prionus laticollis</i>	Apple	2009	Endemic / naturalized	Roots	5	Severe on 1 site	-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Comstock mealybug	<i>Pseudococcus comstocki</i>	Apple	2011	Endemic / naturalized	Leafs	5	Severe on 1 site	-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Asiatic garden beetle	<i>Maladera castanea</i>	Strawberry	2011	Endemic / naturalized	Roots	2		-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Redhumped caterpillar	<i>Schizura concinna</i>	Apple	Some years	Endemic / naturalized	Leafs	1	In localized spots	-	New Hampshire	Alan Eaton - Survey - Burlington 2016
White-marked tussock moth	<i>Orgyia leucostigma</i>	Apple	2015	Endemic / naturalized	Leafs	5	Severe on 2 sites	-	New Hampshire	Alan Eaton - Survey - Burlington 2016
Spotted lanternfly	<i>Lycorma delicatula</i>	Apple	2014	Invasive	Trunk / Bark	-	Lay eggs on everything	-	Pennsylvania	Greg Krawczyk - Regional updates - Burlington 2016
Wood leopard moth	<i>Zeuzera pyrina</i>	Apple	-	Endemic / naturalized	-	-		-	Pennsylvania	Greg Krawczyk - Regional updates - Burlington 2016
False codling moth	<i>Thaumatotibia leucotreta</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
European grapevine moth	<i>Lobesia botrana</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Light brown apple moth	<i>Epiphyas postvittana</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Spotted lanternfly	<i>Lycorma delicatula</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Silver Y moth	<i>Autographa gamma</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Summer fruit tortrix moth	<i>Adoxophyes orana</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Variiegated golden tortrix	<i>Archips xylosteanus</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Apple proliferation phytoplasma	<i>Candidatus phytoplasma mali</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Asian Gypsy moth	<i>Lymantria dispar asiatica</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Asiatic brown rot	<i>Monilinia polystroma</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet
Cherry bark Tortrix moth	<i>Enarmonia formosana</i>	-	-	Invasive	-	-		-	New York	Invasive Species & Exotic Pests - Factsheet