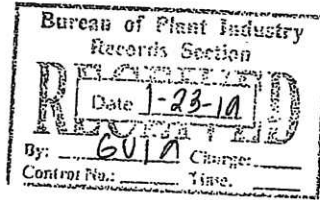




Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
 Office of the Secretary  
 Elliptical Road, Diliman, Quezon City, 1100 Philippines  
 Tax Identification Number: 000-845-895

12 November 2018

**DEPARTMENT CIRCULAR**  
 No. 18  
 Series of 2018



**SUBJECT : PHILIPPINES LIST OF REGULATED PLANT PESTS**

WHEREAS, the Philippines is a member of the International Plant Protection Convention (IPPC), an international treaty securing action to prevent the spread and introduction of pests of plants and plant products, and to promote appropriate measures for their control;


WHEREAS, the Plant Quarantine Service of the Bureau of Plant Industry, by virtue of Presidential Decree 1433, otherwise known as the *Plant Quarantine Law of 1978* is the official National Plant Protection Organization (NPPO) and is tasked with national reporting obligations (NRO's) to ensure that a minimum amount of official phytosanitary information is available that can be used as the basis for ensuring safe trade, safeguarding food security and protecting the environment from plant pests.

WHEREAS, the IPPC approved International Standard for Phytosanitary Measures No. 19 *Guidelines on List of Regulated Pests*, in order to enhance transparency and technically justify phytosanitary measures. A regulated pest is a quarantine pest (a pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and being officially controlled) or a regulated non-quarantine pest (a non-quarantine pest whose presence in plants for planting affects the intended use of those plants with an economically unacceptable impact and which is therefore regulated within the territory of the importing contracting party).

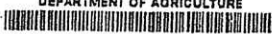
WHEREAS, the list of regulated pest is based on Pest Risk Analysis conducted by BPI.

WHEREAS, the list of regulated plant pests requires updating when pests are added or deleted, or the category of listed pests changes, or when information is added or changed.

NOW, THEREFORE, I, EMMANUEL F. PIÑOL, Secretary of the Department of Agriculture, by virtue of the powers vested in me by law, do hereby issue this initial list of regulated plant pest (Annex 1) for the guidance of all concerned.

  
**EMMANUEL F. PIÑOL**  
 Secretary

**BUREAU OF PLANT INDUSTRY**  
 Office of the Director *201-0119*  
**RECEIVED**  
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DEPARTMENT OF AGRICULTURE  
  
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# ANNEX 1

## Philippines List of Regulated Pests (Initial)

### List of Quarantine Pests

#### Mites

Scientific Name	Common Name(s)	Host(s)
<i>Aceria tulipae</i> (Keifer, 1938)	Dry bulb mite Garlic mite Onion mite Wheat curl mite	<u>Major hosts</u> <i>Allium</i> (onions, garlic, leek, etc.), <i>Tulipa</i> (tulip)
<i>Hyalobydeus destructor</i> (Tucker)	Red-legged earth mite Black sand mite	<u>Minor hosts</u> <i>Allium chinense</i> (spring onion)
		<u>Major hosts</u> <i>Brassica napus</i> var. <i>napus</i> (rape), Brassicaceae (cruciferous crops), <i>Capsicum annuum</i> (bell pepper), Cucurbitaceae (cucurbits), <i>Lupinus angustifolius</i> (lupin), <i>Lupinus luteus</i> (yellow lupin), <i>Medicago sativa</i> (lucerne), <i>Pisum sativum</i> (pea), <i>Trifolium repens</i> (white clover), <i>Trifoliumsubterraneum</i> (subterranean clover), <i>Vicia faba</i> (broad bean)
		<u>Minor hosts</u> <i>Asparagus officinalis</i> (asparagus), <i>Avena sativa</i> (oats), <i>Beta vulgaris</i> (beetroot), <i>Brassicarapa</i> ssp. <i>oleifera</i> (turnip rape), <i>Cicer arietinum</i> (chickpea), <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita pepo</i> (ornamental gourd), <i>Hordeum vulgare</i> (barley), <i>Lactuca sativa</i> (lettuce), <i>Lathyrus odoratus</i> (sweet pea), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Lolium boucheanum</i> , <i>Lolium rigidum</i> (rigid ryegrass), <i>Lupinus</i> (lupins), <i>Lupinusalbus</i> (white lupine), <i>Lycopersicon esculentum</i> (tomato), <i>Medicago</i> (medic), <i>Nicotiana tabacum</i> (tobacco), <i>Phaseolus vulgaris</i> (common bean), <i>Ranunculus</i> (Buttercup), <i>Raphanus sativus</i> (radish), <i>Solanum tuberosum</i> (potato), <i>Trifolium</i> (clovers), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (wheat), <i>Vicia narbonensis</i> (Narbonne vetch), <i>Vicia sativa</i> (common vetch), <i>Viola</i> (violet)

**Insects**

Scientific Name	Common Name(s)	Host(s)
<i>Anastrepha fraterculus</i> Wiedemann	South American fruit fly West Indian fruit fly	<p><u>Major hosts</u>  <i>Annona cherimola</i> (cherimoya), <i>Citrus</i>, <i>Eugenia</i>, <i>Prunus</i> (stone fruit), <i>Psidium guajava</i> (guava), <i>Syzygium</i></p> <p><u>Minor hosts</u>  <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Annona</i>, <i>Annona muricata</i> (sour sop), <i>Annona squamosa</i> (sugar apple), <i>Averrhoa carambola</i> (carambola), <i>Citrusaurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus maxima</i> (pummelo), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Coffea arabica</i> (arabica coffee), <i>Coffea liberica</i> (Liberian coffee tree), <i>Cydonia oblonga</i> (quince), <i>Diospyros</i> (malabar ebony), <i>Diospyros kaki</i> (persimmon), <i>Eriobotrya japonica</i> (loquat), <i>Eugeniadombeyi</i> (Brazil cherry), <i>Eugenia uniflora</i> (surinam cherry), <i>Feijoa sellowiana</i> (Horn of plenty), <i>Ficus carica</i> (fig), <i>Fortunella japonica</i> (round kumquat), <i>Fragaria vesca</i> (wild strawberry), <i>Inga edulis</i> (ice-cream bean), <i>Juglans neotropica</i> (Andean walnut), <i>Juglans regia</i> (walnut), <i>Malus</i> (ornamental species apple), <i>Malusdomestica</i> (apple), <i>Mangifera indica</i> (mango), <i>Manilkara zapota</i> (sapodilla), <i>Olea europaea</i> subsp. <i>europaea</i> (olive), <i>Persea americana</i> (avocado), <i>Pouteria obovata</i>, <i>Prunus armeniaca</i> (apricot), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Psidium guineense</i> (Guinea guava), <i>Psidium longipes</i> (strawberry guava), <i>Punica granatum</i> (pomegranate), <i>Pyrus</i> (pears), <i>Pyrus communis</i> (European pear), <i>Solanum quitoense</i> (Naranjillo), <i>Spondias purpurea</i> (red mombin), <i>Spondias dulcis</i> (otahete apple), <i>Spondias mombin</i> (hog plum), <i>Spondias purpurea</i> (red mombin), <i>Syzygium jambos</i> (rose apple), <i>Syzygium malaccense</i> (malay-apple), <i>Terminalia catappa</i> (Singapore almond), <i>Theobroma cacao</i> (cocoa), <i>Vitis vinifera</i> (grapevine)</p>

<i>Anastrepha ludens</i> (Loew)	Mexican fruit fly	<p><u>Major hosts</u>  <i>Annona cherimola</i> (cherimoya), <i>Citrus</i>, <i>Mangifera indica</i> (mango), <i>Prunuspersica</i> (peach)</p> <p><u>Minor hosts</u>  <i>Anacardium occidentale</i> (cashew nut), <i>Annona</i>, <i>Annona muricata</i> (soursop), <i>Annona reticulata</i> (Bullock's heart), <i>Annona squamosa</i> (sugarapple), <i>Carica papaya</i> (papaw), <i>Casimiroa edulis</i> (white sapote), <i>Citrus aurantiifolia</i> (lime), <i>Citrus aurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrusmaxima</i> (pummelo), <i>Citrus medica</i> (citron), <i>Citrus reticulata</i> (mandarin), <i>Citrus reticulata x paradisi</i> (tangelo), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Coffea arabica</i> (arabica coffee), <i>Cydonia oblonga</i> (quince), <i>Diospyros kaki</i> (persimmon), <i>Feijoa sellowiana</i> (Horn of plenty), <i>Malus domestica</i> (apple), <i>Mammea americana</i> (mamey apple), <i>Passifloraedulis</i> (passionfruit), <i>Persea americana</i> (avocado), <i>Pouteria sapota</i> (mamey sapote), <i>Prunus salicina</i> (Japanese plum), <i>Psidium guajava</i> (guava), <i>Psidium longipes</i> (strawberry guava), <i>Punica granatum</i> (pomegranate), <i>Pyrus communis</i> (European pear), <i>Sargentia greggii</i>, <i>Spondias purpurea</i> (red mombin), <i>Syzygium jambos</i> (rose apple)</p>
<i>Anastrepha obliqua</i> (Macquart)	West Indian fruit fly Antillean fruit fly	<p><u>Major hosts</u>  <i>Mangifera indica</i> (mango), <i>Spondias</i> (purple mombin)</p> <p><u>Minor hosts</u>  <i>Anacardium occidentale</i> (cashew nut), <i>Averrhoa carambola</i> (carambola), <i>Brosimum alicastrum</i> (Breadnut), <i>Citrus</i>, <i>Citrus aurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Coffea arabica</i> (arabica coffee), <i>Diospyros ebenaster</i> (black sapote), <i>Eriobotrya japonica</i> (loquat), <i>Malpighia glabra</i> (acerola), <i>Manilkara zapota</i> (sapodilla), <i>Passiflora quadrangularis</i> (giant granadilla), <i>Pouteria sapota</i> (mamey sapote), <i>Pouteria viridis</i> (green sapote), <i>Prunusdulcis</i> (almond), <i>Prunus salicina</i> (Japanese plum), <i>Psidium guajava</i> (guava), <i>Psidium longipes</i> (strawberry guava), <i>Pyrus communis</i> (European pear), <i>Spondias dulcis</i> (otahete apple), <i>Spondias mombin</i> (hog plum), <i>Spondiaspurpurea</i> (red mombin), <i>Syzygium jambos</i> (rose apple), <i>Syzygiummalaccense</i> (malay-apple)</p>

<p><i>Anastrepha serpentina</i> (Wiedemann)</p>	<p>Sapodilla fruit fly Sapote fruit fly Dark fruit fly Black fruit fly (USA)</p>	<p><u>Major hosts</u> <i>Chrysophyllum cainito</i> (caimito), <i>Citrus</i>, <i>Manilkara zapota</i> (sapodilla)</p> <p><u>Minor hosts</u> <i>Annona</i>, <i>Citrus aurantium</i> (sour orange), <i>Citrus maxima</i> (pummelo), <i>Citrusreticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Cydonia oblonga</i> (quince), <i>Eriobotrya japonica</i> (loquat), <i>Malusdomestica</i> (apple), <i>Mammea americana</i> (maney apple), <i>Mangifera indica</i> (mango), <i>Manilkara</i>, <i>Persea americana</i> (avocado), <i>Pouteria cainito</i>, <i>Pouteria campechiana</i> (canistel), <i>Pouteria obovata</i>, <i>Pouteria sapota</i> (mammy sapote), <i>Pouteria viridis</i> (green sapote), <i>Prunus avium</i> (sweet cherry), <i>Prunus persica</i> (peach), <i>Psidium guajava</i> (guava), <i>Pyrus communis</i> (European pear), <i>Spondias mombin</i> (purple mombin), <i>Spondias mombin</i> (hog plum), <i>Spondias purpurea</i> (red mombin)</p>
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<i>Anastrepha suspensa</i> Loew	Caribbean fruit fly	<p><u>Major hosts</u>  <i>Annona reticulata</i> (Pullock's heart), <i>Eugenia</i>, <i>Fortunella margarita</i> (oval kumquat), <i>Manilkara zapota</i> (sapodilla), <i>Psidium</i> (guava), <i>Psidium guajava</i> (guava), <i>Syzygium</i>, <i>Syzygiumjambos</i> (rose apple), <i>Terminalia catappa</i> (Singapore almond)</p> <p><u>Minor hosts</u>  <i>Annona glabra</i> (pond apple), <i>Annona squamosa</i> (sugarapple), <i>Averrhoa carambola</i> (carambola), <i>Blighia sapida</i> (Akee apple), <i>Canella winterana</i>, <i>Capsicum annuum</i> (bell pepper), <i>Carica papaya</i> (papaw), <i>Casimiroa edulis</i> (white sapote), <i>Chrysobalanus icaco</i> (icaco plum), <i>Chrysophyllum cainito</i> (caimito), <i>Chrysophyllum oliviforme</i>, <i>Citrofortunella mitis</i>, <i>Citrus</i>, <i>Citrus aurantiifolia</i> (lime), <i>Citrus aurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus limon</i> (lemon), <i>Citrus limonia</i> (mandarin lime), <i>Citrus maxima</i> (pummelo), <i>Citrusreticulata</i> (mandarin), <i>Citrus reticulata x paradisi</i> (tangelo), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Clausena lansium</i> (wampi), <i>Coccoloba uvifera</i> (seaside grape), <i>Diospyros blancoi</i> (mabolo), <i>Diospyros kaki</i> (persimmon), <i>Diospyros virginiana</i> (persimmon (common)), <i>Dovyalis caffra</i> (kei apple), <i>Eriobotrya japonica</i> (loquat), <i>Eugenia dombevi</i> (Brazil cherry), <i>Eugenia uniflora</i> (surinam cherry), <i>Ficus carica</i> (fig), <i>Flacourtia indica</i> (governor's plum), <i>Fortunella</i> (kumquats), <i>Fortunella x crassifolia</i> (meiwa kumquat), <i>Garcinia</i> (mangosteens), <i>Garcinia livingstonei</i> (African mangosteens), <i>Lycopersicon esculentum</i> (tomato), <i>Malpighia glabra</i> (acerola), <i>Malus domestica</i> (apple), <i>Mangifera indica</i> (mango), <i>Momordicabalsamina</i> (common balsamapple), <i>Momordica charantia</i> (bitter melon), <i>Muntingia calabura</i> (Jamaica cherry), <i>Murraya</i>, <i>Pearsea americana</i> (avocado), <i>Phoenix dactylifera</i> (date-palm), <i>Pimenta dioica</i> (Allspice), <i>Pouteria campechiana</i> (canistel), <i>Prunus persica</i> (peach), <i>Prunussalicina</i> (Japanese plum), <i>Psidium guineense</i> (Guinea guava), <i>Psidium longipes</i> (strawberry guava), <i>Punica granatum</i> (pomegranate), <i>Pyrus communis</i> (European pear), <i>Pyrus pyrifolia</i> (Oriental pear tree), <i>Spondias</i> (purple mombin), <i>Spondias dulcis</i> (otahete apple), <i>Spondiasmombin</i> (hog plum), <i>Synsepalum dulcificum</i>, <i>Syzygium cumini</i> (black plum), <i>Syzygiummalaccense</i> (Malay-apple), <i>Syzygium samarangense</i> (water apple), <i>Triphasia</i></p>
<i>Anthonomus quadrigibbus</i> Say	<p>Apple curculio  Larger apple curculio  Western apple curculio  Cherry curculio</p>	<p><u>Major hosts</u>  <i>Amelanchier alnifolia</i> (saskatoon serviceberry), <i>Malus domestica</i> (apple)</p> <p><u>Minor hosts</u>  <i>Prunus cerasus</i> (sour cherry), <i>Pyrus communis</i> (European pear)</p>

<p><i>Bactrocera papayae</i> Drew &amp; Hancock</p>	<p>Papaya fruit fly Asian papaya fruit fly</p>	<p><u>Major hosts</u> <i>Anacardium occidentale</i> (cashew nut), <i>Annona glabra</i> (pond apple), <i>Annona reticulata</i> (bullock's heart), <i>Annona squamosa</i> (sugarapple), <i>Areca catechu</i> (betelnut palm), <i>Artocarpus altilis</i> (breadfruit), <i>Artocarpus integer</i> (champedak), <i>Averrhoa bilimbi</i> (Blimbe), <i>Borassus flabellifer</i> (toddy palm), <i>Carrica papaya</i> (papaw), <i>Castanopsis</i> (evergreen chinikapin), <i>Chrysophyllum cainito</i> (caimito), <i>Citrofortunella mitis</i>, <i>Citrus aurantiifolia</i> (lime), <i>Citrus limon</i> (lemon), <i>Citrus maxima</i> (pummelo), <i>Citrus reticulata</i> (mandarin), <i>Citrus x paradisi</i> (grapefruit), <i>Clausena lansium</i> (wampi), <i>Coffea arabica</i> (arabica coffee), <i>Coffea canephora</i> (robusta coffee), <i>Cucumis sativus</i> (cucumber), <i>Diospyros blancoi</i> (mabolo), <i>Eriobotrya japonica</i> (loquat), <i>Ficus benjamina</i> (Benjamina fig), <i>Ficus microcarpa</i> (Indian laurel tree), <i>Flacourtia rukam</i> (rukam), <i>Fortunella japonica</i> (round kumquat), <i>Fortunella margarita</i> (oval kumquat), <i>Garcinia mangostana</i> (mangosteen), <i>Lycopersiconesculentum</i> (tomato), <i>Malpighia glabra</i> (acerola), <i>Mangifera foetida</i> (bachang), <i>Mangifera indica</i> (mango), <i>Mangifera odorata</i> (kurwini mango), <i>Minusops elengi</i> (spanish cherry), <i>Morinda citrifolia</i> (Indian mulberry), <i>Morus alba</i> (mora), <i>Muntingia calabura</i> (Jamaica cherry), <i>Musa acuminata</i> (wild banana), <i>Musa balbisiana</i>, <i>Musa x paradisiaca</i> (plantain), <i>Passifloraquadrangularis</i> (giant granadilla), <i>Passiflora suberosa</i> (Corky passionflower), <i>Persea americana</i> (avocado), <i>Phaseolus vulgaris</i> (common bean), <i>Pouteria campechiana</i> (canistel), <i>Prunus persica</i> (peach), <i>Psidium cattleianum</i> (strawberry guava), <i>Punica granatum</i> (pomegranate), <i>Rhizophora</i> (mangrove), <i>Rollinia pulchrinervis</i>, <i>Solanum incanum</i> (grey bitter-apple), <i>Solanum melongena</i> (aubergine), <i>Syzygium samarangense</i> (water apple), <i>Terminalia catappa</i> (Singapore almond), <i>Theobroma cacao</i> (cocoa), <i>Thevetia peruviana</i> (exile tree), <i>Ziziphus jujuba</i> (common jujube)</p> <p><u>Minor hosts</u> <i>Annona muricata</i> (soursop), <i>Arenga pinnata</i> (sugar palm), <i>Artocarpus heterophyllus</i> (jackfruit), <i>Averrhoa carambola</i> (carambola), <i>Calophyllum inophyllum</i> (Alexandrian laurel), <i>Capsicumannuum</i> (bell pepper), <i>Citrus sinensis</i> (navel orange), <i>Eugenia uniflora</i> (surinam cherry), <i>Manilkara zapota</i> (sapodilla), <i>Momordica charantia</i> (bitter gourd), <i>Nephetium lappaceum</i> (rambutan), <i>Passiflora edulis</i> (passionfruit), <i>Psidium guajava</i> (guava), <i>Solanum torvum</i> (turkey berry), <i>Spondias dulcis</i> (otahete apple), <i>Syzygium aqueum</i> (watery rose-apple), <i>Syzygium jambos</i> (rose apple), <i>Syzygium malaccense</i> (malay-apple), <i>Ziziphus mauritiana</i> (jujube)</p>
<p><i>Cacopsylla pyricola</i> (Förster, 1848)</p>	<p>Pear psylla Pear psyllid Pear sucker</p>	<p><u>Major hosts</u> <i>Pyrus communis</i> (European pear)</p>

<i>Ceratitis capitata</i> (Wiedemann)	Mediterranean fruit fly Medfly	<p><u>Major hosts</u>  <i>Annona cherimola</i> (cherimoya), <i>Capsicum annuum</i> (bell pepper), <i>Citrus</i>, <i>Coffea</i> (coffee), <i>Ficus carica</i> (fig), <i>Malus domestica</i> (apple), <i>Prunus</i> (stone fruit), <i>Prunus salicina</i> (Japanese plum), <i>Psidium guajava</i> (guava), <i>Theobroma cacao</i> (cocoa)</p> <p><u>Minor hosts</u>  <i>Anacardium occidentale</i> (cashew nut), <i>Annona reticulata</i> (bullock's heart), <i>Calophyllum</i> (beauty-leaf), <i>Capsicum frutescens</i> (chili), <i>Carrica papaya</i> (papaw), <i>Carrisa</i>, <i>Carrisa edulis</i> (egyptian carissa), <i>Casimiroa edulis</i> (white sapote), <i>Chrysophyllum cainito</i> (cainito), <i>Chrysophyllum molle</i>, <i>Citrus aurantiifolia</i> (lime), <i>Citrus aurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus limon</i> (lemon), <i>Citrus limonia</i> (mandarin lime), <i>Citrus maxima</i> (pummelo), <i>Citrus nobilis</i> (tangor), <i>Citrus reticulata</i> (mandarin), <i>Citrus reticulata</i> x <i>paradisi</i> (tangelo), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Coffea arabica</i> (arabica coffee), <i>Coffea liberica</i> (Liberian coffee tree), <i>Cydonia oblonga</i> (quince), <i>Cyphomandra</i>, <i>Cyphomandra betacea</i> (tree tomato), <i>Diospyros</i> (malabar ebony), <i>Diospyros kaki</i> (persimmon), <i>Dovyalis caffra</i> (kei apple), <i>Eriobotrya japonica</i> (loquat), <i>Eugenia</i>, <i>Eugenia dombevi</i> (Brazil cherry), <i>Eugenia uniflora</i> (surinam cherry), <i>Feijoa sellowiana</i> (Horn of plenty), <i>Fortunella</i> (kumquats), <i>Fortunella japonica</i> (round kumquat), <i>Garcinia mangostana</i> (mangosteen), <i>Juglans regia</i> (walnut), <i>Litchi chinensis</i> (Litchi), <i>Malpighia glabra</i> (acerola), <i>Mangifera indica</i> (mango), <i>Manilkara zapota</i> (sapodilla), <i>Mespilus germanica</i> (medlar), <i>Morus nigra</i> (black mulberry), <i>Muntingia calabura</i> (Jamaica cherry), <i>Opuntia</i> (Pricklypear), <i>Passiflora coerulea</i> (Blue-crown passionflower), <i>Persea americana</i> (avocado), <i>Phoenix dactylifera</i> (date-palm), <i>Physalis peruviana</i> (cape gooseberry), <i>Pouteriasapota</i> (mammei sapote), <i>Pouteria viridis</i> (green sapote), <i>Prunus armeniaca</i> (apricot), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Psidium longipes</i> (strawberry guava), <i>Punica granatum</i> (pomegranate), <i>Pyrus communis</i> (European pear), <i>Rubus loganobaccus</i> (loganberry), <i>Santalum album</i> (Indian sandalwood), <i>Solanum incanum</i> (grey bitter-apple), <i>Solanum nigrum</i> (black nightshade), <i>Spondias dulcis</i> (otahete apple), <i>Spondias purpurea</i> (red mombin), <i>Syzygium cumini</i> (black plum), <i>Syzygium jambos</i> (rose apple), <i>Syzygium malaccense</i> (malay-apple), <i>Syzygium samarangense</i> (water apple), <i>Terminalia catappa</i> (Singapore almond), <i>Thevetia peruviana</i> (exile tree), <i>Vitis vinifera</i> (grapevine)</p>
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<i>Ceroplastes floridensis</i> Comstock	Soft scale Florida wax scale	<p><u>Major hosts</u>  <i>Citrus aurantiifolia</i> (lime), <i>Citrus deliciosa</i> (Mediterranean mandarin), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Cocos nucifera</i> (coconut), <i>Malpighia glabra</i> (acerola), <i>Mangifera indica</i> (mango), <i>Syzygium aromaticum</i> (clove), <i>Ziziphusjujuba</i> (common jujube)</p> <p><u>Minor hosts</u>  <i>Acacia farnesiana</i> (huisache), <i>Anacardium occidentale</i> (cashew nut), <i>Annona cherimola</i> (cherimoya), <i>Annona muricata</i> (sourp), <i>Annona reticulata</i> (bullock's heart), <i>Annona squamosa</i> (sugarapple), <i>Arbutus</i>, <i>Arbutus unedo</i> (arbutus), <i>Camellia sinensis</i> (tea), <i>Carissa</i>, <i>Chrysanthemum indicum</i> (chrysanthemum), <i>Coffea arabica</i> (arabica coffee), <i>Convolvulus</i> (morning glory), <i>Cycas revoluta</i> (sago cycas), <i>Cydonia oblonga</i> (quince), <i>Diospyros</i> (malabar ebony), <i>Eleagnus angustifolia</i> (oleaster), <i>Elaeodendron</i>, <i>Eugenia</i>, <i>Euonymus japonicus</i> (Japanese spindle), <i>Feijoa sellowiana</i> (Horn of plenty), <i>Ficus</i>, <i>Ficus carica</i> (fig), <i>Hedera</i> (Ivy), <i>Heliconia</i>, <i>Ilex</i> (Holly), <i>Lagerstroemia indica</i> (Indian crape myrtle), <i>Laurus</i> (laurel), <i>Laurus nobilis</i> (sweet bay), <i>Lindera benzoin</i> (spicebush), <i>Malus sylvestris</i> (crab-apple tree), <i>Manilkara zapota</i> (sapodilla), <i>Morus alba</i> (mora), <i>Musa</i> (banana), <i>Myrtus communis</i> (myrtle), <i>Nephelemlappaceum</i> (rambutan), <i>Nerium oleander</i> (oleander), <i>Persea</i>, <i>Philodendron</i>, <i>Pinus</i> (pines), <i>Pistacia lentiscus</i> (mastic), <i>Pitiosporum</i>, <i>Platanus</i> (planes), <i>Plumeria rubra</i> var. <i>acutifolia</i> (Mexican frangipani), <i>Prunus persica</i> (peach), <i>Psidium guajava</i> (guava), <i>Punica granatum</i> (pomegranate), <i>Pyrus communis</i> (European pear), <i>Vaccinium</i> (blueberries)</p>
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<i>Ceroplastes rusci</i> (Linnaeus, 1758)	Fig wax scale Fig scale	<p><u>Major hosts</u>  <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Annona</i>, <i>Annona cherimola</i> (cherimoya), <i>Annonamuricata</i> (soursop), <i>Annona reticulata</i> (Bullock's heart), <i>Annona squamosa</i> (sugarapple), <i>Citrus</i>, <i>Citrus aurantium</i> (sour orange), <i>Citrus limon</i> (lemon), <i>Citrus x paradisi</i> (grapefruit), <i>Ficus carica</i> (fig)</p> <p><u>Minor hosts</u>  <i>Crataegus</i> (hawthorns), <i>Cydonia</i> (quince), <i>Euphorbia longana</i> (longan), <i>Ficus</i>, <i>Gossypium</i> (cotton), <i>Hedera helix</i> (ivy), <i>Ilex aquifolium</i> (holly), <i>Ipomoea batatas</i> (sweet potato), <i>Juncus</i> (rushes), <i>Litchi chinensis</i> (lichi), <i>Mangifera indica</i> (mango), <i>Mespilus germanica</i> (medlar), <i>Morus</i> (mulberrytree), <i>Musa</i> (banana), <i>Myrtus communis</i> (myrtle), <i>Nepheleum lappaceum</i> (rambutan), <i>Nerium oleander</i> (oleander), <i>Persea americana</i> (avocado), <i>Piper nigrum</i> (black pepper), <i>Pistacia</i>, <i>Platanus</i> (planes), <i>Populus</i> (poplars), <i>Prunus</i> (stone fruit), <i>Psidium guajava</i> (guava), <i>Pyruscommunis</i> (European pear), <i>Ruscus</i>, <i>Vitis vinifera</i> (grapevine)</p>
<i>Chrysodeixis includens</i> (Walker, 1858)	Soybean looper	<p><u>Major hosts</u>  <i>Abelmoschus esculentus</i> (okra), Brassicaceae (cruciferous crops), <i>Cajanus cajan</i> (pigeon pea), Cucurbitaceae (cucurbits), <i>Daucus carota</i> (carrot), <i>Glycine max</i> (soybean), <i>Gossypium</i> (cotton), <i>Ipomoea batatas</i> (sweet potato), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Phaseolus</i> (beans), <i>Saccharum officinarum</i> (sugarcane), <i>Solanum melongena</i> (aubergine), <i>Sorghum bicolor</i> (sorghum), <i>Zea mays</i> (maize)</p> <p><u>Minor hosts</u>  <i>Allium sativum</i> (garlic), <i>Apium graveolens</i> (celery), <i>Arachis hypogaea</i> (groundnut), <i>Asparagusofficinalis</i> (asparagus), <i>Begonia</i>, <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Capsicum annuum</i> (bell pepper), <i>Chrysanthemum</i> (daisy), <i>Citrullus lanatus</i> (watermelon), <i>Gyamopsis tetragonoloba</i> (guar), <i>Dianthus caryophyllus</i> (carnation), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Geranium</i> (cranesbill), <i>Gossypium hirsutum</i> (Bourbon cotton), <i>Helianthus annuus</i> (sunflower), <i>Mentha</i> (mints), <i>Nasturtium officinale</i> (watercress), <i>Nicotiana tabacum</i> (tobacco), <i>Peperomia obtusifolia</i> (pepper-face), <i>Persea americana</i> (avocado), <i>Phaseolus lunatus</i> (lima bean), <i>Physalis</i> (Groundcherry), <i>Pueraria montana</i> var. <i>lobata</i> (kudzu), <i>Saintpaulia ionantha</i> (African violet), <i>Solanum tuberosum</i> (potato)</p>

<p><i>Cydia pomonella</i> Linnaeus</p>	<p>Walnut worm Codling moth</p>	<p><u>Major hosts</u>  <i>Cydonia oblonga</i> (quince), <i>Juglans regia</i> (walnut), <i>Malus</i> (ornamental species apple),  <i>Malusdomestica</i> (apple), <i>Prunus armeniaca</i> (apricot), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i>  (almond), <i>Prunus persica</i> (peach), <i>Pyrus</i> (pears), <i>Pyrus communis</i> (European pear), <i>Zea mays</i>  (maize)</p> <p><u>Minor hosts</u>  <i>Prunus salicina</i> (Japanese plum)</p>
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<p><i>Diaspidiotus perniciosus</i> (Comstock) Cockerell, Danzig</p>	<p>San José scale California scale (Russia) Perniciosus scale Chinese scale</p>	<p><u>Major hosts</u> <i>Malus</i> (ornamental species apple), <i>Morus</i> (mulberrytree), <i>Prunus</i> (stone fruit), <i>Pyrus</i> (pears), <i>Ribes</i> (currants), <i>Rubus</i> (blackberry, raspberry), <i>Vaccinium</i> (blueberries)</p> <p><u>Minor hosts</u> <i>Acacia</i> (wattles), <i>Acer</i> (maples), <i>Actinidia</i>, <i>Aesculus</i> (buckeye), <i>Ailanthus</i>, <i>Akebia</i>, <i>Albizia</i>, <i>Aleurites</i>, <i>Alnus</i> (alders), <i>Aloe</i> (grey alder), <i>Althaea</i> (hollyhocks), <i>Amelanchier</i> (serviceberries), <i>Ampelopsis</i>, <i>Anthrinum</i> (snapdragon), <i>Aralia</i>, <i>Arbutus</i>, <i>Aristolochia</i> (dutchman's pipe), <i>Asclepias</i> (Silkweed), <i>Asparagusofficinalis</i> (asparagus), <i>Aster</i>, <i>Aucuba</i>, <i>Baccharis</i>, <i>Bambusa</i> (bamboo), <i>Berberis</i> (barberries), <i>Betula</i> (birches), <i>Bignonia</i>, <i>Buddleia</i> (Butterflybush), <i>Buxus</i> (box), <i>Callistemon</i> (Bottle brush), <i>Camellia</i>, <i>Canna</i>, <i>Carragana</i>, <i>Carpinus</i> (hornbeams), <i>Carya</i> (hickories), <i>Caryopteris</i> (blue-beard), <i>Castanea</i> (chestnuts), <i>Catalpa</i>, <i>Ceanothus</i> (white-thorn), <i>Cedrus</i> (cedars), <i>Celtis</i> (nettle tree), <i>Cephalanthus</i> (buttonbush), <i>Cercis</i> (redbud), <i>Chaenomeles</i> (flowering quinces), <i>Chamaecyparis</i> (false cypress), <i>Chrysanthemum</i> (daisy), <i>Cinnamomum</i>, <i>Cistus</i> (rockrose), <i>Citrus</i>, <i>Cladrastis</i>, <i>Clematis</i>, <i>Clerodendrum</i> (Fragrant clerodendron), <i>Convolvulus</i> (morning glory), <i>Cornus</i> (Dogwood), <i>Corylopsis</i>, <i>Corylus</i>, <i>Cotoneaster</i>, <i>Crataegus</i> (hawthorns), <i>Cupressus</i> (cupresses), <i>Cydonia</i> (quince), <i>Cytisus</i> (Broom), <i>Dahlia</i>, <i>Daphne</i>, <i>Daucus</i> (carrot), <i>Deutzia</i>, <i>Diervilla</i> (bush-honeysuckle), <i>Diospyros</i> (malabar ebony), <i>Elaeagnus</i>, <i>Erica</i> (heaths), <i>Eriogon</i> (Fleabane), <i>Eriobotrya</i>, <i>Eucalyptus</i> (Eucalyptus tree), <i>Euonymus</i> (spindle trees), <i>Euphorbia</i> (spurges), <i>Fagus</i> (beeches), <i>Ficus</i>, <i>Forsythia</i> (golden bells), <i>Fragaria</i> (strawberry), <i>Fraxinus</i> (ashes), <i>Gaylussacia</i> (huckleberry), <i>Genista</i> (broom), <i>Ginkgo</i>, <i>Gymnocladus</i>, <i>Hammamelis</i> (witchhazel), <i>Hedera</i> (Ivy), <i>Hibiscus</i> (rosemallows), <i>Hydrangea</i> (hydrangeas), <i>Hypericum</i> (st Johnsworts), <i>Ilex</i> (Holly), <i>Inula</i> (Elecampane), <i>Jasminum</i> (jasmine), <i>Juglans</i> (walnuts), <i>Juniperus</i> (junipers), <i>Kalmia</i> (laurel), <i>Kerria</i>, <i>Laburnum anagyroides</i> (Laburnum), <i>Lagerstroemia</i>, <i>Larix</i> (larches), <i>Laurus</i> (laurel), <i>Lespedeza</i>, <i>Ligustrum</i> (privet), <i>Lilium</i> (lily), <i>Lindera</i> (spicebush), <i>Liquidambar</i> (amber tree), <i>Liriodendron</i> (tulip tree), <i>Lonicera</i> (honeysuckles), <i>Lycium</i> (boxthorn), <i>Maclura</i> (osage-orange), <i>Magnolia</i>, <i>Mahonia</i> (holly grape), <i>Malva</i> (mallow), <i>Mesembryanthemum</i>, <i>Mespilus</i> (medlar), <i>Myrica</i> (waxmyrtles), <i>Myrtus</i> (myrtle), <i>Nerium</i> (oleander), <i>Nyssa</i> (tupelo), <i>Olea</i> (olive), <i>Ostrya</i>, <i>Paeonia</i> (peonies), <i>Panicum</i> (millets), <i>Paulownia</i>, <i>Persca</i>, <i>Petroselinum</i> (parsley), <i>Phellodendron</i> (cork tree), <i>Philadelphus</i>, <i>Philadelphus coronarius</i> (mock orange), <i>Phlox</i>, <i>Physocarpus</i>, <i>Picea</i> (spruces), <i>Pinus</i> (pines), <i>Piper</i> (pepper), <i>Pittosporum</i>, <i>Platanus</i> (planes), <i>Polygonum</i> (knotweed), <i>Poncirus</i>, <i>Populus</i> (poplars), <i>Potentilla</i> (Cinquefoil), <i>Prunus salicina</i> (Japanese plum), <i>Ptelea</i>, <i>Punica</i>, <i>Pyracantha</i> (Firethorn), <i>Rhododendron</i> (Azalea), <i>Rhus</i> (Sumach), <i>Ricinus</i>, <i>Robinia</i> (locust), <i>Rosa</i> (roses), <i>Rosmarinus</i>, <i>Rudbeckia</i> (coneflower), <i>Ruscus</i>, <i>Salix</i> (willows), <i>Sambucus</i> (Elderberry), <i>Sassafras</i>, <i>Schinus</i> (pepper tree), <i>Sciadopitys</i>, <i>Smilax</i> (greenbriar), <i>Solanum</i> (nightshade), <i>Sophora</i>, <i>Sorbaria</i>, <i>Sorbus</i> (rowan), <i>Spartium</i>, <i>Spiraea</i>,</p>
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		<p>Stephanandra, Symphoricarpos (snowberry), Tamarix (tamarisk), Taxodium (pondcypress), Taxus (yew), Tecoma, Ternstroemia, Thuja, Tilia (limes), Trachelospermum, Tsuga (hemlocks), Ulmus (elms), Urtica spp., Viburnum, Vinca (periwinkle), Vitex, Vitis (grape), Wisteria, Yucca</p>
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<p><i>Frankliniella occidentalis</i> (Pergande)</p>	<p>Western flower thrips Alfalfa thrips</p>	<p><u>Major hosts</u>  <i>Allium cepa</i> (onion), <i>Amaranthus palmeri</i> (Palmer amaranth), <i>Arachis hypogaea</i> (groundnut), <i>Begonia</i>, <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i> Capsicum annuum</i> (bell pepper), <i>Carthamus tinctorius</i> (safflower), <i>Chrysanthemum morifolium</i> (chrysanthemum (florists)), <i>Citrus x paradisi</i> (grapefruit), <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita maxima</i> (giant pumpkin), <i>Cucurbita pepo</i> (ornamental gourd), Cucurbitaceae (cucurbits), <i>Cyclamen</i>, <i>Dahlia</i>, <i>Daucus carota</i> (carrot), <i>Dianthus caryophyllus</i> (carnation), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Ficus carica</i> (fig), <i>Fragariaanassa</i> (strawberry), <i>Fuchsia</i>, <i>Geranium</i> (cranesbill), <i>Gerbera jamesonii</i> (African daisy), <i>Gladiolus</i> hybrids (sword lily), <i>Gossypium</i> (cotton), <i>Gypsophila</i> (baby's breath), <i>Hibiscus</i> (rosemallows), <i>Impatiens</i> (balsam), <i>Kalanchoe</i>, <i>Lactuca sativa</i> (lettuce), <i>Lathyrus odoratus</i> (sweet pea), <i>Leucaena leucocephala</i> (leucaena), <i>Limonium sinuatum</i> (sea pink), <i>Lisianthus</i>, <i>Lycopersicon esculentum</i> (tomato), <i>Malus domestica</i> (apple), <i>Medicago sativa</i> (lucerne), Orchidaceae (orchids), <i>Petroselinum crispum</i> (parsley), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Prunus armeniaca</i> (apricot), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Prunus persica</i> var. <i>nucipersica</i> (nectarine), <i>Purshia tridentata</i> (bitterbrush), <i>Raphanusraphanistrum</i> (wild radish), <i>Rhododendron</i> (Azalea), <i>Rosa</i> (roses), <i>Saintpaulia ionantha</i> (African violet), <i>Salvia</i> (sage), <i>Secale cereale</i> (rye), <i>Sinapis arvensis</i> (wild mustard), <i>Sinningia speciosa</i> (gloxinia), <i>Solanum melongena</i> (aubergine), <i>Sonchus</i> (Sowthistle), <i>Syzgium jambos</i> (rose apple), <i>Trifolium</i> (clovers), <i>Triticum aestivum</i> (wheat), <i>Vitis vinifera</i> (grapevine), <i>Zinnia</i></p> <p><u>Minor hosts</u>  <i>Pelargonium</i> (pelargoniums), <i>Prunus salicina</i> (Japanese plum)</p>
<p><i>Grapholita packardii</i> Zeller</p>	<p>Cherry fruitworm</p>	<p><u>Major hosts</u>  <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry)</p> <p><u>Minor hosts</u>  <i>Cydonia oblonga</i> (quince), <i>Malus domestica</i> (apple), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Pyraecantha</i> (Firethorn), <i>Pyrus communis</i> (European pear), <i>Rosa</i> spp., <i>Vaccinium corymbosum</i> (blueberry)</p>

<i>Grapholita prunivora</i> (Walsh)	Plum moth Lesser appleworm	<u>Major hosts</u> <i>Malus domestica</i> (apple), <i>Prunus</i> (stone fruit), <i>Prunus domestica</i> (plum)
		<u>Minor hosts</u> <i>Amelanchier</i> (serviceberries), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunuspersica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Pyrus</i> (pears), <i>Rosa</i> (roses)
<i>Hyphantria cunea</i> Drury	Mulberry moth Blackheaded webworm Redheaded webworm Fall webworm American white moth	<u>Major hosts</u> <i>Carya illinoensis</i> (pecan), <i>Carya ovata</i> (shagbark hickory), <i>Diospyros virginiana</i> (persimmon (common)), <i>Juglans nigra</i> (black walnut), <i>Liquidambar styraciflua</i> (Sweet gum), <i>Malus domestica</i> (apple), <i>Morus alba</i> (mora), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunusdomestica</i> (plum), <i>Pyrus communis</i> (European pear)
		<u>Minor hosts</u> <i>Ailanthus altissima</i> (tree-of-heaven), <i>Carya</i> (hickories), <i>Hops</i> , <i>Juglans regia</i> (walnut), <i>Pinusdensiflora</i> (Japanese umbrella pine), <i>Prunus salicina</i> (Japanese plum), <i>Ulmus americana</i> (American elm), <i>Vitis vinifera</i> (grapevine)
<i>Leptinotarsa decemlineata</i> Say	Colorado potato beetle Colorado beetle	<u>Major hosts</u> <i>Solanum tuberosum</i> (potato)
		<u>Minor hosts</u> <i>Hyoscyamus niger</i> (black henbane), <i>Lycopersicon esculentum</i> (tomato), <i>Nicotiana tabacum</i> (tobacco), <i>Solanum melongena</i>

<i>Listroderes costirostris</i> Schönherr	Vegetable weevil Australian tomato weevil Buff-colored tomato weevil Brown vegetable weevil Dirt-colored weevil Carrot weevil Turnip weevil	<u>Major hosts</u> <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Arachis hypogaea</i> (groundnut), <i>Beta vulgaris</i> (beetroot), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassicaoleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassicaoleracea</i> var. <i>italica</i> (broccoli), <i>Capsicum annuum</i> (bell pepper), <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Cichorium endivia</i> (endives), <i>Daucus carota</i> (carrot), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Nicotiana tabacum</i> (tobacco), <i>Pastinaca sativa</i> (parsnip), <i>Petroselinum crispum</i> (parsley), <i>Raphanus raphanistrum</i> (wild radish), <i>Solanummelongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Spinacia oleracea</i> (spinach) <u>Minor hosts</u> <i>Gynura bicolor</i> , <i>Papaver</i> (poppies), <i>Petunia hybrida</i> , <i>Phlox</i> , <i>Viola wittrockiana</i> hybrids
<i>Nasonovia ribisnigri</i> (Mosley)	Currant-lettuce aphid Lettuce aphid	<u>Major hosts</u> <i>Ribes</i> (currants), <i>Ribes alpinum</i> (alpine currant), <i>Ribes aureum</i> (golden currant), <i>Ribes nigrum</i> (blackcurrant), <i>Ribes rubrum</i> (red currant), <i>Ribes uva-crispa</i> (gooseberry) <u>Minor hosts</u> <i>Cichorium</i> (chicory), <i>Cichorium endivia</i> (endives), <i>Cichorium intybus</i> (chicory), <i>Lactuca</i> (lettuce), <i>Lactuca sativa</i> (lettuce), <i>Nicotiana</i> , <i>Petunia</i>
<i>Nesidiocoris tenuis</i> (Reuter)	Tomato bug Tomato suck bug Tobacco capsid Tobacco leaf bug Tomato mirid	<u>Major hosts</u> Cucurbitaceae (cucurbits), <i>Lagenaria siceraria</i> (bottle gourd), <i>Lycopersicon esculentum</i> (tomato), <i>Nicotiana tabacum</i> (tobacco), <i>Paulownia</i> , <i>Sesamum indicum</i> (sesame), Solanaceae, <i>Solanummelongena</i> (aubergine), <i>Solanum tuberosum</i> (potato)

<i>Platynta stulkana</i> Walsingham	Omnivorous leaf roller	<p><u>Major hosts</u>  <i>Capsicum annuum</i> (bell pepper), <i>Citrus</i>, <i>Gossypium</i> (cotton), <i>Medicago sativa</i> (lucerne), <i>Prunuspersica</i> (peach), <i>Punica granatum</i> (pomegranate), <i>Pyrus</i> (pears), <i>Vitis vinifera</i> (grapevine), <i>Zeamays</i> (maize)</p> <p><u>Minor hosts</u>  <i>Actinidia arguta</i> (tara vine), <i>Apium graveolens</i> (celery), <i>Arachis</i>, <i>Aster</i>, <i>Beta vulgaris</i> (beetroot), <i>Chenopodium album</i> (fat hen), <i>Chrysanthemum</i> (daisy), <i>Citharexylum spinosum</i>, <i>Citrus limon</i> (lemon), <i>Citrus maxima</i> (pummelo), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Cotoneaster</i>, <i>Cyclamen</i>, <i>Dianthus caryophyllus</i> (carnation), <i>Eucalyptus</i> (Eucalyptus tree), <i>Gardenia</i>, <i>Ginkgo</i>, <i>Glycine max</i> (soybean), <i>Juglans regia</i> (walnut), <i>Juniperus</i> (junipers), <i>Lycopersicon esculentum</i> (tomato), <i>Malus</i> (ornamental species apple), <i>Malva</i> (mallow), <i>Mentha</i> (mints), <i>Pelargonium</i> (pelargoniums), <i>Persea americana</i> (avocado), <i>Phaseolus</i> (beans), <i>Pinus</i> sp. (pine), Poaceae (grasses), <i>Portulaca grandiflora</i> (Rose moss), <i>Ribes</i> (currants), <i>Rosa</i> (roses), <i>Rubus</i> (blackberry, raspberry), <i>Sorghum bicolor</i> (sorghum), <i>Taxus</i> (yew), Theaceae, <i>Trifolium</i> (clovers), <i>Vigna unguiculata</i> (cowpea), <i>Zea</i></p>
<i>Pseudococcus comstocki</i> (Kuwana)	Comstock mealybug	<p><u>Major hosts</u>  <i>Citrus limon</i> (lemon), <i>Coffea</i> (coffee), <i>Ficus carica</i> (fig), <i>Malus domestica</i> (apple), <i>Morus</i> (mulberry tree), <i>Musa</i> (banana), <i>Prunus</i> (stone fruit), <i>Punica granatum</i> (pomegranate), <i>Pyruspyrifolia</i> (Oriental pear tree)</p>
<i>Psila rosae</i> (Fabricius)	Carrot root fly Carrot rust fly	<p><u>Major hosts</u>  <i>Apium graveolens</i> (celery), <i>Apium graveolens</i> var. <i>rapaceum</i> (celerniac), <i>Carum carvi</i> (caraway), <i>Daucus carota</i> (carrot), <i>Levisticum officinale</i> (lovage), <i>Pastinaca sativa</i> (parsnip), <i>Petroselinumcrispum</i> (parsley)</p> <p><u>Minor hosts</u>  <i>Anethum graveolens</i> (dill), <i>Anthriscus cerefolium</i> (chervil), <i>Coriandrum sativum</i> (coriander), <i>Foeniculum vulgare</i> (fennel)</p>

<i>Rhagoletis pomonella</i> Walsh	Apple maggot Railroad worm	<u>Major hosts</u> <i>Malus domestica</i> (apple)
		<u>Minor hosts</u> <i>Malus</i> (ornamental species apple), <i>Malus baccata</i> (siberian crab apple), <i>Prunus americana</i> (apricot), <i>Prunus angustifolia</i> (Mountain cherry tree), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus persica</i> (peach), <i>Prunus virginiana</i> (common chokecherry tree), <i>Pracantha coccinea</i> (Scarlet firethorn), <i>Rosa rugosa</i> (Rugosa rose), <i>Rosa virginiana</i> (Virginia rose)
<i>Trialeurodes variabilis</i> (Quaintance)	Papaya whitefly	<u>Major hosts</u> <i>Carica papaya</i> (papaw)
<i>Trogoderma granarium</i> Everts	Khapra beetle	<u>Major hosts</u> <i>Arachis hypogaea</i> (groundnut), <i>Gossypium</i> (cotton), <i>Hordeum vulgare</i> (Barley), <i>Oryza sativa</i> (rice), <i>Panicum miliaecum</i> (millet), <i>Sesamum indicum</i> (sesame), <i>Sorghum bicolor</i> (sorghum), stored products (dried stored products), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (wheat), <i>Zea mays</i> (maize)
		<u>Minor hosts</u> <i>Vigna unguiculata</i> (cowpea)

## Bacteria

Scientific Name	Common Name(s)	Host(s)
<i>Burkholderia caryophylli</i> (Burkholder) Yabuuchi et al.	Bacterial wilt of carnation Bacterial stem crack of carnation	<u>Major hosts</u> <i>Dianthus caryophyllus</i> (carnation) <u>Minor hosts</u> <i>Gypsophila paniculata</i> (baby's breath), <i>Helianthus annuus</i> (sunflower), <i>Limonium sinuatum</i> (sea pink)
<i>Candidatus Liberibacter sonolacearum</i> Garnier et al.	African greening Greening of citrus Huanglongbing Yellow branch Greening	<u>Major hosts</u> <i>Calodendrum capense</i> (cape chestnut), <i>Citrus</i> , <i>Citrus nobilis</i> (tangor), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange) <u>Minor hosts</u> <i>Catharanthus roseus</i> (Pink periwinkle)
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Spieckermann & Kothoff) Dye & Kemp	Potato ring rot Bacterial ring rot of potato Ring rot of potato Vascular potato wilt	<u>Major hosts</u> <i>Lycopersicon esculentum</i> (tomato), <i>Lycopersicon pimpinellifolium</i> (currant tomato), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato)
<i>Pectobacterium rhapontici</i> (Millard) Patel & Kulkarni	Rhubarb crown rot Wheat pink seed Cereal pink grain	<u>Major hosts</u> <i>Rheum hybridum</i> (rhubarb), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (wheat) <u>Minor hosts</u> <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Cichorium</i> (chicory), <i>Cyclamen persicum</i> (cyclamens), <i>Dianthus</i> (carnation), <i>Hippeastrum</i> , <i>Hyacinthus orientalis</i> (hyacinth), <i>Lycopersicon esculentum</i> (tomato), <i>Morus</i> (mulberry tree), <i>Morus alba</i> (mora), <i>Pisum sativum</i> (pea), <i>Pyrus</i> (pears)

<p><i>Pseudomonas cichorii</i> (Swingle) Stapp</p>	<p>Bacterial blight of endive Varnish spot of lettuce Bacterial rot of lettuce Leaf spot of ornamentals Brown stem of celery Bud blight of chrysanthemum Leaf spot of chrysanthemum Bacterial spot of ornamentals Lettuce varnish spot Bacterial blight of celery Endive bacterial blight Leaf rot of pepper Leaf spot of Geranium spp. Drippy gill of mushrooms Leaf spot of vegetables</p>	<p><u>Major hosts</u> <i>Apium graveolens</i> (celery), <i>Chrysanthemum daisy</i>, <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Chrysanthemum morifolium</i> (chrysanthemum (Florists')), <i>Chrysanthemumvestitum</i>, <i>Cichorium endivia</i> (endives), <i>Cichorium endivia</i> subsp. <i>endivia</i> (endives), <i>Cichoriumendivia</i> var. <i>crispum</i> (Winter endive), <i>Cichorium intybus</i> (chicory), <i>Gerbera</i> (Barbeton daisy), <i>Gerbera jamesonii</i> (African daisy), <i>Hibiscus rosa-sinensis</i> (China-rose), <i>Lactuca sativa</i> (lettuce), <i>Pelargonium</i> (pelargoniums), <i>Vigna angularis</i> (adzuki bean)</p> <p><u>Minor hosts</u> <i>Abelmoschus esculentus</i> (okra), <i>Agaricus</i>, <i>Allium sativum</i> (garlic), <i>Arracaciaanthorrhiza</i> (arracacha), <i>Barleria cristata</i> (philippine violet), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassicaoleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica rapa</i> ssp. <i>oleifera</i> (turnip rape), <i>Brassica rapa</i> subsp. <i>chinensis</i> (Chinese cabbage), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe-tsai), <i>Calendula officinalis</i> (Pot marigold), <i>Camellia</i>, <i>Capsicum</i> (peppers), <i>Capsicum annuum</i> (bell pepper), <i>Carthamus tinctorius</i> (safflower), <i>Centaurea cyanus</i> (cornflower), <i>Citrullus lanatus</i> (watermelon), <i>Coffea arabica</i> (arabica coffee), <i>Cyclamen</i>, <i>Daucuscarota</i> (carrot), <i>Ficus lyrata</i> (fiddle-leaf fig), <i>Glycine max</i> (soybean), <i>Hedera helix</i> (ivy), <i>Helianthus</i> (sunflower), <i>Hydrangea</i> (hydrangeas), <i>Lycopersicon esculentum</i> (tomato), <i>Magnoliagrandidiflora</i> (Southern magnolia), <i>Matis domestica</i> (apple), <i>Mentha arvensis</i> (Corn mint), <i>Monstera deliciosa</i> (ceriman), <i>Musa</i> (banana), <i>Nicotiana tabacum</i> (tobacco), <i>Ocimum basilicum</i> (basil), <i>Panax ginseng</i> (Asiatic ginseng), <i>Papaver nudicaule</i> (Iceland poppy), <i>Papaver orientale</i> (Oriental poppy), <i>Pernettya mucronata</i> (prickly heath (UK)), <i>Phaseolus vulgaris</i> (common bean), <i>Potentilla</i> (Cinqufoil), <i>Primula polyantha</i>, <i>Prunus persica</i> (peach), <i>Pyracantha</i> (Firethorn), <i>Pyruscommunis</i> (European pear), <i>Ranunculus acris</i> (Meadow buttercup), <i>Rhododendron catwbiense</i>, <i>Scindapsus</i>, <i>Solanum melongena</i> (aubergine), <i>Spathiphyllum</i>, <i>Triticum aestivum</i> (wheat), <i>Viburnum</i>, <i>Xanthosoma brasiliense</i> (Tahitian spinach)</p>
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<p><i>Pseudomonas marginalis</i> pv. <i>marginalis</i> (Brown) Stevens</p>	<p>Lettuce marginal leaf blight Lettuce kansas disease Bacterial leaf rot (of lettuce) Butt-rot (of lettuce) Pseudomonas soft rot Pink rib of lettuce Bacterial soft rot</p>	<p><u>Major hosts</u> <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Anemone coronaria</i> (Poppy anemone), <i>Apiumgraveolens</i> (celery), <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> var. <i>cicla</i>, <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe- tsai), <i>Capsicumannuum</i> (bell pepper), <i>Cichorium</i> (chicory), <i>Cucumis sativus</i> (cucumber), <i>Daucus carota</i> (carrot), <i>Dianthus caryophyllus</i> (carnation), <i>Helianthus annuus</i> (sunflower), <i>Hyacinthus orientalis</i> (hyacinth), <i>Lactuca sativa</i> (lettuce), <i>Lactuca sativa</i> var. <i>capitata</i> (head lettuce), <i>Lobelia erinus</i> (Dwarf blue lobelia), <i>Lycopersicon esculentum</i> (tomato), <i>Nicotiana tabacum</i> (tobacco), <i>Nigelladamascena</i> (Love-in-a-mist), <i>Onobrychis vicifolia</i> (sainfoin), <i>Petroselinum crispum</i> (parsley), <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus vulgaris</i> (common bean), <i>Philodendronbipinnatifidum</i> (lacy tree philodendron), <i>Populus</i> (poplars), <i>Prunus amygdalus</i>, <i>Prunus persica</i> (peach), <i>Raphanus sativus</i> (radish), <i>Rheum hybridum</i> (rhubarb), <i>Solanum tuberosum</i> (potato), <i>Zingiber officinale</i> (ginger)</p> <p><u>Minor hosts</u> <i>Aconitum napellus</i> (aconite monkshood), <i>Agapanthus africanus</i> (African blue lily), <i>Alliumchinense</i> (spring onion), <i>Ananas comosus</i> (pineapple), <i>Armoracia rusticana</i> (horseradish), <i>Chrysanthemum vestitum</i>, <i>Dahlia pinnata</i> (garden dahlia), <i>Eutrema wasabi</i> (Wasabi), <i>Frisgermanica</i> (German iris), <i>Papaver somniferum</i> (Opium poppy), <i>Primula</i> (Primrose), <i>Syngonium</i>, <i>Syngonium podophyllum</i> (Arrowhead vine)</p>
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<p><i>Pseudomonas syringae</i> pv. <i>syringae</i> van Hall</p>	<p>Bacterial canker or blast (stone and pome fruits) Bacterial brown spot (beans) Bacterial sheath rot Bacterial eye spot Blast of citrus Blister spot of apple Pear blossom blight Bacterial leaf spot Bacterial black spot Apoplexy of apricots Peach-tree short-life Bacterial necrosis on kiwifruit</p>	<p><u>Major hosts</u> <i>Abelmoschus esculentus</i> (okra), <i>Aconitum</i> (monkshoods), <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Actinidia deliciosa</i> (kiwifruit), <i>Allium cepa</i> (onion), <i>Allium chinense</i> (Spring onion), <i>Allium fistulosum</i> (Welsh onion), <i>Allium porrum</i> (leek), <i>Alnus glutinosa</i> (European alder), <i>Aralia</i>, <i>Arbutus</i>, <i>Atriplex hortensis</i> (garden orache), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Betula pendula</i> (common silver birch), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe-tsai), <i>Calystegia sepium</i> (great bindweed), <i>Capsicum annuum</i> (bell pepper), <i>Carthamus tinctorius</i> (safflower), <i>Centaurae-stoebe</i> subsp. <i>micranthos</i> (spotted knapweed), <i>Chrysanthemum indicum</i> (chrysanthemum), <i>Cinnamomum camphora</i> (camphor laurel), <i>Citrus aurantium</i> (sour orange), <i>Citrus limon</i> (lemon), <i>Citrus maxima</i> (pummelo), <i>Citrus medica</i> (citron), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Coffea arabica</i> (arabica coffee), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita</i> (pumpkin), <i>Cucurbita maxima</i> (giant pumpkin), <i>Cyamopsis tetragonoloba</i> (guar), <i>Cydonia oblonga</i> (quince), <i>Cyphomandra betacea</i> (tree tomato), <i>Dahlia pinnata</i> (garden dahlia), <i>Daphne odora</i> (Winter daphne), <i>Desmodium</i> (tick clovers), <i>Diospyros kaki</i> (persimmon), <i>Echinochloa crus-galli</i> (Barnyard grass), <i>Erysimum cheiri</i> (wallflower), <i>Forsythia intermedia</i> (Golden bells), <i>Fortunella</i> (kumquats), <i>Fragaria vesca</i> (wild strawberry), <i>Glycine max</i> (soybean), <i>Hibiscus</i> (rosemallows), <i>Hibiscus rosa-sinensis</i> (China-rose), <i>Hordeum vulgare</i> (barley), <i>Impatiens balsamina</i> (garden balsam), <i>Juglans regia</i> (walnut), <i>Labiab purpureus</i> (hyacinth bean), <i>Lactuca sativa</i> (lettuce), <i>Ligustrum ovalifolium</i> (california privet), <i>Lycopersicon esculentum</i> (tomato), <i>Magnolia</i>, <i>Magnolia grandiflora</i> (Southern magnolia), <i>Malus domestica</i> (apple), <i>Mangifera indica</i> (mango), <i>Mathiola incana</i> (stock), <i>Medicago sativa</i> (Lucerne), <i>Mucuna pruriens</i> (Buffalobean), <i>Musa x paradisiaca</i> (plantain), <i>Nerium oleander</i> (oleander), <i>Nicotiana tabacum</i> (tobacco), <i>Oryza sativa</i> (rice), <i>Panicum</i> (millets), <i>Panicum miliaceum</i> (millet), <i>Passiflora edulis</i> (passionfruit), <i>Pennisetum glaucum</i> (pearl millet), <i>Pennisetum purpureum</i> (elephant grass), <i>Persea americana</i> (avocado), <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (common bean), <i>Philadelphus</i>, <i>Pinus radiata</i> (radiata pine), <i>Piper nigrum</i> (black pepper), <i>Pisum sativum</i> (pea), <i>Pisum sativum</i> var. <i>arvense</i> (Austrian winter pea), <i>Populus</i> (poplars), <i>Populus balsamifera</i> (Balm of Gilead), <i>Populus balsamifera</i> subsp. <i>trichocarpa</i> (black cottonwood), <i>Populus nigra</i> (black poplar), <i>Populus tremula</i> (aspen (European)), <i>Prunus amygdalus</i>, <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasifera</i> (myrobalan plum), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus laurocerasus</i> (cherry laurel), <i>Prunus mume</i> (Japanese apricot tree), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Prunus serrulata</i> (Japanese flowering cherry), <i>Pyrus communis</i> (European pear), <i>Quercus agrifolia</i> (California live oak), <i>Quercus wislizenii</i> (Interior live oak), <i>Rhododendron</i> (Azalea), <i>Rosa</i> (roses), <i>Rubus ursinus</i> (boysenberry), <i>Salix</i> (willows), <i>Sorghum bicolor</i> (sorghum), <i>Sorghum halepense</i> (Johnson grass), <i>Sorghum sudanense</i> (Sudan grass), <i>Syringa vulgaris</i> (Lilac),</p>
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		<p><i>Trifolium alexandrinum</i> (Berseem clover), <i>Trifolium dubium</i> (yellow suckling clover), <i>Trifolium hybridum</i> (Alsike clover), <i>Trifolium incarnatum</i> (Crimson clover), <i>Trifolium pratense</i> (purple clover), <i>Trifolium repens</i> (white clover), <i>Trigonella foenum-graecum</i> (fenugreek), <i>Triticum aestivum</i> (wheat), <i>Vaccinium</i> (blueberries), <i>Vernicia fordii</i> (central China wood oil tree), <i>Vicia faba</i> (broad bean), <i>Vicia villosa</i>, <i>Vigna angularis</i> (adzuki bean), <i>Vigna unguiculata</i> (cowpea), <i>Vitis</i> (grape), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (maize)</p> <p>Minor hosts  <i>Chenopodium quinoa</i> (quinoa)</p>
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<p><i>Pseudomonas viridiflava</i> (Burkholder) Dowson</p>	<p>Bacterial leaf blight of tomato (USA) Hydrangea bud blight (USA) Bacterial leaf necrosis of basil (USA) Bacterial rot of lettuce (Korea Republic) Bacterial rot of Chinese cabbage (Korea Republic) Bacterial soft rot of tomato (USA, Crete) Bacterial blossom blight of kiwi (New Zealand)</p>	<p><u>Major hosts</u> <i>Actinidia deliciosa</i> (kiwifruit), <i>Allium cepa</i> (onion), <i>Anethum graveolens</i> (dill), <i>Apium graveolens</i> (celery), <i>Apium graveolens</i> var. <i>dulce</i> (celery), <i>Brassica</i> spp., <i>Capsicum annuum</i> (bell pepper), <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita maxima</i> (giant pumpkin), <i>Hydrangea</i> (hydrangeas), <i>Lycopersicon esculentum</i> (tomato)</p> <p><u>Minor hosts</u> <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Allium fistulosum</i> (Welsh onion), <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Calendula officinalis</i> (Pot marigold), <i>Capsicum frutescens</i> (chilli), <i>Carthamus tinctorius</i> (safflower), <i>Chrysanthemum indicum</i> (chrysanthemum), <i>Cichorium endivia</i> (endives), <i>Citrus aurantium</i> (sour orange), <i>Citrus macrophylla</i> (alemow), <i>Citrus sinensis</i> (havel orange), <i>Cyclamen persicum</i> (cyclamens), <i>Eschscholzia californica</i> (california poppy), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Eutrema wasabi</i> (Wasabi), <i>Forsythia suspensa</i>, <i>Glycine max</i> (soyabean), <i>Labiab purpureus</i> (hyacinth bean), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Lupinus angustifolius</i> (lupin), <i>Medicago sativa</i> (lucerne), <i>Nicotiana rustica</i> (wild tobacco), <i>Papaver</i> (poppies), <i>Papaver nudicaule</i> (Iceland poppy), <i>Passiflora edulis</i> (passionfruit), <i>Pastinaca sativa</i> (parsnip), <i>Petroselinum crispum</i> (parsley), <i>Petunia hybrida</i>, <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Pseudopanax</i>, <i>Pyrus communis</i> (European pear), <i>Rosa</i> (roses), <i>Sorghum bicolor</i> (sorghum), <i>Sorghum sudanense</i> (Sudan grass), <i>Tanacetum coccineum</i> (common pyrethrum), <i>Trifolium pratense</i> (purple clover), <i>Tropaeolum majus</i> (common nasturtium), <i>Vaccinium corymbosum</i> (blueberry), <i>Vicia faba</i> (broad bean), <i>Vigna angularis</i> (adzuki bean), <i>Vigna unguiculata</i> (cowpea), <i>Viola</i> (violet), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (maize), <i>Zinnia elegans</i> (zinnia)</p>
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<p><i>Rhodococcus fascians</i> (Tilford) Goodfellow</p>	<p>Fasciation: leafy gall Witches'-broom syndrome Cauliflower disease: ornamentals Cauliflower disease: strawberry Fasciation: strawberry Leafy gall: tobacco</p>	<p><u>Major hosts</u> <i>Asparagus densiflorus</i> (Asparagus fern), <i>Begonia tuberhybrida</i>, <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brodiaea</i>, <i>Chrysanthemum indicum</i> (chrysanthemum), <i>Chrysanthemum maximum</i> hybrids, <i>Cucumis melo</i> (melon), <i>Dahlia pinnata</i> (garden dahlia), <i>Dianthus caryophyllus</i> (carnation), <i>Erysimum cheiri</i> (wallflower), <i>Euphorbia</i> (spurge), <i>Fragaria</i> (strawberry), <i>Fragariaananassa</i> (strawberry), <i>Freesia</i>, <i>Gloriosa</i>, <i>Hebe</i>, <i>Kalanchoe</i>, <i>Lathyrus odoratus</i> (sweet pea), <i>Lilium longiflorum</i> (Easter lily), <i>Lilium regale</i> (Regal lily), <i>Pelargonium zonale</i> hybrids, <i>Pisum sativum</i> var. <i>arvense</i> (Austrian winter pea), <i>Triteleia</i></p>
<p><i>Xanthomonas fragariae</i> Kennedy &amp; King</p>	<p>Angular leaf spot Leaf blight of strawberry Vascular collapse of strawberry</p>	<p><u>Minor hosts</u> <i>Antirrhinum majus</i> (snapdragon), <i>Beloperone</i> (Shrimp bush), <i>Beta vulgaris</i> (beetroot), <i>Brassicoleracea</i> (cabbages, cauliflowers), <i>Buddleia davidii</i> (butterfly bush (UK)), <i>Capsicum annuum</i> (bell pepper), <i>Casuarina equisetifolia</i> (casuarina), <i>Chamaemelum nobile</i> (common chamomile), <i>Chrysanthemum vestitum</i>, <i>Cicor arietinum</i> (chickpea), <i>Cichorium inybus</i> (chicory), <i>Consolidaambigua</i> (rocket larkspur), <i>Datura innoxia</i> (Downy thornapple), <i>Dianthus barbatus</i> (sweet williams), <i>Erysimum allionii</i>, <i>Euphorbia pulcherrima</i> (poinsettia), <i>Forsythia suspensa</i>, <i>Fragariavasca</i> (wild strawberry), <i>Gladiolus</i> hybrids (sword lily), <i>Glycine max</i> (soyabean), <i>Gypsophiliapaniculata</i> (Baby'sbreath), <i>Hebe andersonii</i> hybrids, <i>Hyacinthus</i> (hyacinth), <i>Impatiens walleriana</i> (Busy-lizzy), <i>Kalanchoe blossfeldiana</i> (Flaming katy), <i>Lycopersicon esculentum</i> (tomato), <i>Mesembryanthemum</i>, <i>Muscari botryoides</i> (grapehyacinth), <i>Nicotiana glauca</i> (sweet-scented tobacco), <i>Nicotiana rustica</i> (wild tobacco), <i>Nicotiana tabacum</i> (tobacco), <i>Pelargonium</i> (pelargoniums), <i>Petuniahybrida</i>, <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus vulgaris</i> (common bean), <i>Phlox</i>, <i>Physalis</i> (Groundcherry), <i>Pisum sativum</i> (pea), <i>Rhododendron</i> (Azalea), <i>Spinacia oleracea</i> (spinach), <i>Tagetes erecta</i> (African marigold), <i>Tagetes patula</i> (French marigold), <i>Triteleia laxa</i> (ithuriel's spear), <i>Tropaeolum majus</i> (common nasturtium), <i>Tulipa</i> (tulip), <i>Viburnumopulus</i> (Guelder rose), <i>Vicia faba</i> (broad bean)</p>
		<p><u>Major hosts</u> <i>Fragaria ananassa</i> (strawberry)</p>

## Phytoplasma

Scientific Name	Common Name(s)	Host(s)
Aster yellows phytoplasma group	Tomato big bud Western aster yellows Periwinkle little leaf Eastern aster yellows Purple coneflower yellows Multiplier disease Maryland aster yellows Dwarf western aster yellows Marguerite yellows Periwinkle yellows Periwinkle witches' broom and virescence Italian lettuce yellows Hydrangea phyllody and virescence American aster yellows Onion yellows and virescence Gladiolus virescence Anemone virescence Chrysanthemum yellows <i>etc.</i>	<u>Major hosts</u> <i>Allium cepa</i> (onion), <i>Alstroemeria</i> (Inca lily), <i>Anemone coronaria</i> (Poppy anemone), <i>Apiumgraveolens</i> (celery), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Callistephus chinensis</i> (China aster), <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Chrysanthemum frutescens</i> (marguerite), <i>Daucus carota</i> (carrot), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus</i> hybrids (sword lily), <i>Hydrangea macrophylla</i> (French hydrangea), <i>Lactuca sativa</i> (lettuce), <i>Paulownia tomentosa</i> (paulownia), <i>Primula</i> sp. (primrose), <i>Ranunculus asiaticus</i> (garden crowfoot), <i>Spinacia oleracea</i> (spinach), <i>Tagetes patula</i> (French marigold), <i>Trifolium repens</i> (white clover), <i>Zea mays</i> (maize)  <u>Minor hosts</u> <i>Cathartanthus roseus</i> (Pink periwinkle), <i>Celtis australis</i> (European nettle wood), <i>Cornus racemosa</i> (gray dogwood), <i>Cryptotaenia canadensis</i> (honewort), <i>Cucurbita pepo</i> (ornamental gourd), <i>Cyclamen persicum</i> (cyclamens), <i>Delphinium</i> hybrids (florist's larkspur), <i>Echinacea purpurea</i> (purple coneflower), <i>Eupatorium capillifolium</i> (Dog fennel), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Lycopersicon esculentum</i> (tomato), <i>Morus bombycis</i> (Japanese mulberry), <i>Myrtus communis</i> (myrtle), <i>Olea europaea</i> subsp. <i>europaea</i> (olive), <i>Opuntia</i> sp. (pricklypear), <i>Petroselinum crispum</i> (parsley), <i>Populus</i> (poplars), <i>Populus nigra</i> (black poplar), <i>Prunus armeniaca</i> (apricot), <i>Prunus persica</i> var. <i>nucipersica</i> (nectarine), <i>Prunus salicina</i> (Japanese plum), <i>Santalum album</i> (Indian sandalwood), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Solidago</i> (Goldenrod), <i>Spiraea tomentosa</i> (Hardhack), <i>Trifolium pratense</i> (purple clover), <i>Vaccinium</i> (blueberries), <i>Vitis vinifera</i> (grapevine)
Candidatus Phytoplasma asteris	Aconitium proliferation Aconitium virescence Alberta aster yellows Alfalfa stunt Alstroemeria decline American aster yellows Anemone virescence	Very wide host range

	<p>Apple sessile leaf          Apricot chlorotic leaf roll          Azalea little leaf          Basil little leaf          Bermuda grass white leaf          Black currant reversion          Black pepper yellows          Blueberry stunt          Broccoli phyllody          Bunias phyllody          Cactus virescence          Cactus witches' -broom          Calendula virescence  <i>etc.</i></p>	
<p>Clover phyllody          phytoplasma          strawberry</p>	<p>Phyllody of clover          Green petal of strawberry</p>	<p><b>Major hosts</b>  <i>Anemone coronaria</i> (Poppy anemone), <i>Fragaria</i> (strawberry), <i>Ranunculus</i> (Buttercup), <i>Trifolium repens</i> (white clover), <i>Zinnia elegans</i> (zinnia)</p> <p><b>Minor hosts</b>  <i>Alstroemeria</i> (Inca lily), <i>Callistephus chinensis</i> (China aster), <i>Catharanthus roseus</i> (Pink periwinkle), <i>Celtis australis</i> (European nettle wood), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Lilium</i> (lily), <i>Vitis</i> (grape), <i>Vitis vinifera</i> (grapevine)</p>
<p><i>Candidatus Phytoplasma aurantifolia</i> Zreik et al</p>	<p>Lime witches' broom          phytoplasma          Witches' broom disease of lime</p>	<p><b>Major hosts</b>  <i>Citrus aurantifolia</i> (lime)</p> <p><b>Minor hosts</b>  <i>Catharanthus roseus</i> (Pink periwinkle), <i>Citroncirus webberi</i> (citrange), <i>Citrus jambhiri</i> (rough lemon), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus limettoides</i> (palestine sweet lime), <i>Citruslimonia</i> (mandarin lime), <i>Citrus macrophylla</i> (alemow), <i>Citrus medica</i> (citron), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Poncirus trifoliata</i> (Trifoliolate orange)</p>

Fungi

Scientific Name	Common Name(s)	Host(s)
<i>Alternaria japonica</i> Yoshii	Alternaria black spot (and wirestem) Alternaria black spot of radish Leaf spot of radish Black pod blotch of radish	<u>Major hosts</u> <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica rapa</i> subsp. <i>chinensis</i> (Chinese cabbage), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), Brassicaceae (cruciferous crops), <i>Raphanus sativus</i> (radish) <u>Minor hosts</u> <i>Erysimum cheiri</i> (wallflower), <i>Iberis</i> (candytuft), <i>Matthiola</i> , <i>Sinapis arvensis</i> (wild mustard)
<i>Alternaria radicina</i> Meier, Drechsler & E.D. Eddy	Black rot of carrots	<u>Major hosts</u> <i>Daucus carota</i> (carrot)
<i>Balansia oryzae-sativae</i> Hashioka	Urbatta disease Black choke Incense rod false ergot Black ring Sterility disease	<u>Major hosts</u> <i>Oryza sativa</i> (rice), <i>Sorghum bicolor</i> (sorghum) <u>Minor hosts</u> <i>Cynodon dactylon</i> (Bermuda grass), <i>Eragrostis</i> (lovegrasses), <i>Leptochloa chinensis</i> (Chinese sprangletop), <i>Paspalum dilatatum</i> (dallis grass), <i>Pennisetum glaucum</i> (pearl millet), <i>Secalecereale</i> (rye), <i>Setaria italica</i> (foxtail millet)
<i>Botryotinia allii</i> (Sawada) W. Yamam	Neck rot of onion	<u>Minor hosts</u> <i>Allium cepa</i> (onion), <i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic)
<i>Diaporthe phaseolorum</i> var. <i>sojae</i> (Lehman) Wehm.	soybean pod and stem blight pod and stem blight of soybean	<u>Major hosts</u> <i>Glycine max</i> (soybean) <u>Minor hosts</u> <i>Abelmoschus esculentus</i> (okra), <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Arachis hypogaea</i> (groundnut), <i>Capsicum frutescens</i> (chilli), <i>Lepedeza</i> , <i>Lupinus</i> spp., <i>Lycopersicon esculentum</i> (tomato), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (common bean), <i>Vigna unguiculata</i> (cowpea)

<i>Didymella ligulicola</i> (Baker, Dimock & Davis) v. Arx	Ray blight of chrysanthemum	<p><u>Major hosts</u> <i>Chrysanthemum morifolium</i> (chrysanthemum (florists))</p> <p><u>Minor hosts</u> Asteraceae (Plants of the daisy family), <i>Cichorium</i> (chicory), <i>Gynura cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Dahlia pinnata</i> (garden dahlia), <i>Helianthus annuus</i> (sunflower), <i>Lactuca sativa</i> (lettuce), <i>Pyrethrum</i>, <i>Tanacetum cinerariifolium</i> (Pyrethrum), <i>Tanacetum coccineum</i> (common pyrethrum)</p>
<i>Golovinomyces cichoracearum</i> (DC.) V.P. Heluta	White mould Powdery mildew of lettuce Powdery mildew of chicory Powdery mildew of ornamentals	<p><u>Major hosts</u> <i>Abelmoschus esculentus</i> (okra), <i>Cichorium endivia</i> subsp. <i>endivia</i> (endives), <i>Cichorium intybus</i> (chicory), <i>Helianthus annuus</i> (sunflower), <i>Helianthus tuberosus</i> (Jerusalem artichoke), <i>Lactucasativa</i> (lettuce)</p> <p><u>Minor hosts</u> <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Dahlia pinnata</i> (garden dahlia), <i>Scorzonera</i> (salsify), <i>Zinnia elegans</i> (zinnia)</p>
<i>Phytophthora fragariae</i> Hickman	Strawberry red stele root rot Raspberry root rot Red core disease of strawberry Red stele disease of strawberry Red core of strawberry Red stele of strawberry	<p><u>Major hosts</u> <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Rubus idaeus</i> (raspberry)</p>
<i>Puccinia horiana</i> Henn.	White rust of chrysanthemum	<p><u>Major hosts</u> <i>Chrysanthemum</i> (daisy), <i>Chrysanthemum morifolium</i> (chrysanthemum (florists))</p>

<p><i>Sclerophthora macrospora</i> (Sacc.) Thirum., C.G. Shaw &amp; Naras.</p>	<p>Downy mildew Crazy top of maize Yellow wilt of rice Witches' broom on maize</p>	<p><u>Major hosts</u> <i>Avena sativa</i> (oats), <i>Eleusine coracana</i> (finger millet), <i>Hordeum vulgare</i> (barley), <i>Oryza sativa</i> (rice), <i>Pennisetum glaucum</i> (pearl millet), <i>Saccharum officinarum</i> (sugarcane), <i>Sorghum bicolor</i> (sorghum), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (wheat), <i>Zea mays</i> (maize)</p> <p><u>Minor hosts</u> <i>Bromus inermis</i> (Awnless brome), <i>Digitaria sanguinalis</i> (Large crabgrass), <i>Echinochloa crus-galli</i> (Barnyard grass), <i>Eleusine indica</i> (goose grass), <i>Elymus repens</i> (quackgrass), <i>Eragrostis</i> (lovegrasses), <i>Lolium temulentum</i> (darnel), <i>Panicum capillare</i> (tumble panicgrass), <i>Poa</i> (meadow grass), <i>Setaria viridis</i> (green foxtail), <i>Stenotaphrum secundatum</i> (Buffalograss)</p>
<p><i>Sporisorium cruentum</i> (J.G. Kühn) Vánky</p>	<p>Loose kernel smut Loose smut</p>	<p><u>Major hosts</u> <i>Sorghum bicolor</i> (sorghum)</p> <p><u>Minor hosts</u> <i>Saccharum officinarum</i> (sugarcane)</p>
<p><i>Stromatinia cepivorum</i></p>	<p>White rot of onion and garlic Onion white root rot Bulb rot of onion <i>Allium</i> white rot Onion white rot</p>	<p><u>Major hosts</u> <i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion), <i>Allium cepa</i> var. <i>aggregatum</i> (shallot), <i>Allium fistulosum</i> (Welsh onion), <i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic), <i>Allium schoenoprasum</i> (chives)</p>
<p><i>Synchytrium endobioticum</i> (Schilb.) Percival</p>	<p>Wart disease of potato Potato wart disease Black wart of potato Potato black scab</p>	<p><u>Major hosts</u> <i>Solanum tuberosum</i> (potato)</p> <p><u>Wild hosts</u> <i>Solanum</i> (nightshade)</p>

**Viruses**

Scientific Name	Common Name(s)	Host(s)
Alfalfa mosaic virus	Alfalfa yellow spot Tomato necrotic tip curl	<p><b>Major hosts</b>  <i>Apium graveolens</i> (celery), <i>Apium graveolens</i> var. <i>rapaceum</i> (celeriac), <i>Capsicum annuum</i> (bell pepper), <i>Cicer arietinum</i> (chickpea), Cucurbitaceae (cucurbits), <i>Glycine max</i> (soybean), <i>Lablab purpureus</i> (hyacinth bean), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Medicago sativa</i> (lucerne), <i>Nicotiana tabacum</i> (tobacco), <i>Phaseolus</i> (beans), <i>Solanum tuberosum</i> (potato), <i>Trifolium incarnatum</i> (Crimson clover), <i>Trifolium pratense</i> (purple clover), <i>Trifolium repens</i> (white clover), <i>Viburnum opulus</i> (Guelder rose), <i>Vigna radiata</i> (mung bean), <i>Vigna unguiculata</i> (cowpea)</p> <p><b>Minor hosts</b>  <i>Cajanus cajan</i> (pigeon pea), <i>Capsicum</i> (peppers), <i>Cercis siliquastrum</i> (Judas tree), <i>Coriandrum sativum</i> (coriander), <i>Cyphomandra betacea</i> (tree tomato), <i>Euonymus japonicus</i> (Japanese spindle), <i>Eutrema wasabi</i> (Wasabi), <i>Hibiscus cannabifolius</i> (kenaf), <i>Lavandula latifolia</i> (broadleaved lavender), <i>Pelargonium</i> (pelargoniums), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Solanum melongena</i> (aubergine), <i>Trifolium subterraneum</i> (subterranean clover), <i>Vicia faba</i> (broad bean), <i>Vigna angularis</i> (adzuki bean), <i>Vinca minor</i> (common periwinkle), <i>Vitis vinifera</i> (grapevine)</p>
Arabidopsis mosaic virus	Hop bare-bine Forsythia yellow net Strawberry mosaic virus Hop split leaf blotch virus	<p><b>Major hosts</b>  <i>Apium graveolens</i> (celery), <i>Apium graveolens</i> var. <i>dulce</i> (celery), <i>Armoracia rusticana</i> (horseradish), <i>Asparagus officinalis</i> (asparagus), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Buxus sempervirens</i> (common boxwood), <i>Chamaecyparis lawsoniana</i> (Port Orford cedar), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita pepo</i> (ornamental gourd), <i>Cyphomandra betacea</i> (tree tomato), <i>Daphne mezereum</i> (mezeoreon), <i>Daucus carota</i> (carrot), <i>Dianthus caryophyllus</i> (carnation), <i>Forsythia intermedia</i> (Golden bells), <i>Fragaria vesca</i> (wild strawberry), <i>Humulus lupulus</i> (hop), <i>Lactuca sativa</i> (lettuce), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Rheum hybridum</i> (rhubarb), <i>Rosa</i> (roses), <i>Rubus idaeus</i> (raspberry), <i>Syringa vulgaris</i> (lilac), <i>Trifolium repens</i> (white clover), <i>Vitis vinifera</i> (grapevine)</p> <p><b>Minor hosts</b>  <i>Alstroemeria</i> (Inca lily), <i>Fragaria</i> (strawberry), <i>Fraxinus</i> (ashes), <i>Hordeum vulgare</i> (barley), <i>Narcissus</i> (daffodil), <i>Prunus salicina</i> (Japanese plum), <i>Ribes nigrum</i> (blackcurrant), <i>Rubus</i> (blackberry, raspberry)</p>

Beet western yellows virus	Turnip (mild) yellows TuMYV BWYV	<p><u>Major hosts</u>  <i>Brassica carinata</i> (African cabbage), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>alboglabra</i> (Chinese kale), <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassica oleracea</i> var. <i>gongyolodes</i> (kohlrabi), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli), <i>Brassicoleracea</i> var. <i>sabauda</i> (Savoy cabbage), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Brassica perviridis</i> (Spinach mustard), <i>Brassica rapa</i> ssp. <i>oleifera</i> (turnip rape), <i>Brassica rapa</i> subsp. <i>chinensis</i> (Chinese cabbage), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe-tsai), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Brassica rapa</i> subsp. <i>trilocularis</i> (yellow sarson), <i>Brassica rapa</i> var. <i>marinosa</i> (Chinese flat cabbage), <i>Crambe abyssinica</i>, <i>Raphanus sativus</i> (radish), <i>Sinapis alba</i> (white mustard), <i>Spinacioleracea</i> (spinach)</p> <p><u>Minor hosts</u>  <i>Alyssum</i> (alison), <i>Arabis caucasica</i> (snow-in-summer), <i>Cicer arietinum</i> (chickpea), <i>Erysimum cheiri</i> (wallflower), <i>Glycine max</i> (soyabean), <i>Iberis</i> (candytuft), <i>Iberis sempervirens</i> (edging candytuft), <i>Lactuca sativa</i> (lettuce), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Linum usitatissimum</i> (flax), <i>Lupinus albus</i> (white lupine), <i>Lupinus luteus</i> (yellow lupin), <i>Mathiola incana</i> (stock), <i>Ornithopus sativus</i> (Bird's foot), <i>Phacelia tanacetifolia</i> (California bluebell), <i>Pisum sativum</i> (pea), <i>Trifolium incarnatum</i> (Crimson clover), <i>Trifolium resupinatum</i> (Shafal clover), <i>Trifolium subterraneum</i> (subterranean clover), <i>Valerianella locusta</i> (common cornsalad), <i>Vicia faba</i> (broad bean), <i>Viciasativa</i> (common vetch), <i>Zinnia elegans</i> (zinnia)</p>
Clover yellow vein virus	Clover yellow vein potyvirus Pea necrosis virus Bean yellow mosaic virus-S (severe strain) Bean yellow mosaic virus-N (necrotic strain) Statice virus Y	<p><u>Major hosts</u>  <i>Lathyrus odoratus</i> (sweet pea), <i>Phaseolus vulgaris</i> (common bean), <i>Trifolium hybridum</i> (Alsike clover), <i>Trifolium repens</i> (white clover), <i>Trifolium vesiculosum</i> (Arrowleaf clover)</p> <p><u>Minor hosts</u>  <i>Alysicarpus vaginalis</i> (alyce clover), <i>Borago officinalis</i> (Borage), <i>Coriandrum sativum</i> (coriander), <i>Cucurbita pepo</i> (ornamental gourd), <i>Gentiana</i> (gentians), <i>Gladiolus hybrids</i> (sword lily), <i>Impatiens walleriana</i> (Busy-lizzy), <i>Limonium sinuatum</i> (sea pink), <i>Lupinus</i> (lupins), <i>Lupinus albus</i> (white lupine), <i>Lupinus angustifolius</i> (lupin), <i>Lupinus luteus</i> (yellow lupin), <i>Medicago lupulina</i> (black medick), <i>Medicago sativa</i> (lucerne), <i>Melilotus officinalis</i> (field melilot), <i>Pisum sativum</i> (pea), <i>Psophocarpus tetragonolobus</i> (winged bean), <i>Trifolium</i> (clovers), <i>Trifolium incarnatum</i> (Crimson clover), <i>Trifolium pratense</i> (purple clover), <i>Trifolium subterraneum</i> (subterranean clover), <i>Vicia faba</i> (broad bean), <i>Viola odorata</i> (English violet)</p>

Leek yellow stripe virus	Leek yellow stripe potyvirus	<u>Major hosts</u> <i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic)
Lily mottle virus	Lily mottle potyvirus Tulip breaking virus Lily mosaic virus	<u>Major hosts</u> <i>Lilium</i> (lily) <u>Minor hosts</u> <i>Tulipa</i> (tulip)
Lily virus X	Lily X potexvirus	<u>Minor hosts</u> <i>Tulipa</i> (tulip)
Onion yellow dwarf virus	Garlic mosaic virus Onion yellow dwarf potyvirus Garlic yellow streak virus Garlic yellow stripe virus	<u>Major hosts</u> <i>Allium cepa</i> (onion), <i>Allium cepa</i> var. <i>aggregatum</i> (shallot), <i>Allium sativum</i> (garlic) <u>Minor hosts</u> <i>Allium chinense</i> (spring onion)
Potato yellow dwarf virus	Potato yellow dwarf nucleorhabdovirus Yellow dwarf of potato	<u>Major hosts</u> <i>Solanum tuberosum</i> (potato) <u>Minor hosts</u> <i>Catharanthus roseus</i> (Pink periwinkle), <i>Lycopersicon esculentum</i> (tomato), <i>Mirabilis jalapa</i> (marvel of Peru), <i>Nicotiana glauca</i> (sweet-scented tobacco), <i>Tagetes erecta</i> (African marigold), <i>Zinnia elegans</i> (zinnia)

<p>Prunus necrotic ringspot virus</p>	<p>Almond bud failure Almond calico Almond line pattern Almond necrotic ringspot Apricot line pattern Apricot necrotic ringspot Cherry ringspot Cherry rugose mosaic Cherry tatter leaf Cherry lace leaf Cherry necrotic ringspot Peach mule's ear Peach necrotic leafspot Peach necrotic ringspot Peach willow leaf Plum decline Plum oak leaf Peach ringspot Sour cherry fruit necrosis Sour cherry line mosaic Cherry steckenberger disease Sour cherry necrotic ringspot Cherry line pattern Cherry (sour) necrotic ringspot virus Necrotic ringspot virus</p>	<p><u>Major hosts</u> <i>Cucumis sativus</i> (cucumber), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Prunus saichina</i> (Japanese plum), <i>Rosa</i> (roses), <i>Rubus</i> (blackberry, raspberry)</p> <p><u>Minor hosts</u> <i>Corylus avellana</i> (hazel), <i>Humulus lupulus</i> (hop), <i>Malus domestica</i> (apple), <i>Prunus</i> (stone fruit), <i>Prunus amygdalus</i>, <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus serrulata</i> (Japanese flowering cherry)</p>
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Strawberry latent C virus	Strawberry latent C disease	<u>Major hosts</u> <i>Fragaria chiloensis</i> (Chilean strawberry), <i>Fragaria vesca</i> (wild strawberry), <i>Fragaria virginiana</i> (scarlet strawberry) (UK))
		<u>Minor hosts</u> <i>Potentilla</i> (Cinquefoil)
Strawberry latent ringspot virus	Latent ring spot of strawberry	<u>Major hosts</u> <i>Apium graveolens</i> (celery), <i>Asparagus officinalis</i> (asparagus), <i>Fragaria ananassa</i> (strawberry), <i>Lilium</i> (lily), <i>Narcissus</i> (daffodil), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Rheum hybridum</i> (rhubarb), <i>Ribes nigrum</i> (blackcurrant), <i>Ribes rubrum</i> (red currant), <i>Rosa</i> (roses), <i>Rubus fruticosus</i> (blackberry), <i>Trifolium repens</i> (white clover), <i>Vitis vinifera</i> (grapevine)
		<u>Minor hosts</u> <i>Aesculus</i> (buckeye), <i>Humulus lupulus</i> (hop), <i>Pastinaca sativa</i> (parsnip), <i>Prunus salicina</i> (Japanese plum)
Strawberry mild yellow edge virus	Strawberry mild yellow edge disease Strawberry yellow edge Strawberry mild yellow edge potexvirus Strawberry mild yellow edge associated virus Strawberry xanthosis	<u>Major hosts</u> <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Fragaria chiloensis</i> (Chilean strawberry), <i>Fragaria ovalis</i> , <i>Fragaria vesca</i> (wild strawberry), <i>Fragaria virginiana</i> (scarlet strawberry) (UK))
		<u>Minor hosts</u> <i>Rubus rosaeifolius</i> (mauritus raspberry)
Strawberry vein banding virus	Vein banding of strawberry Strawberry leaf curl	<u>Major hosts</u> <i>Fragaria vesca</i> (wild strawberry)
		<u>Minor hosts</u> <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry)

Tobacco rattle virus	Spraying of potato Corky ringspot of potato Internal rust of potato	<p><u>Major hosts</u> <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Capsicum annuum</i> (bell pepper), <i>Freesia</i>, <i>Gladiolus</i> hybrids (sword lily), <i>Iris</i> (irises), <i>Lilium candidum</i> (madonna lily), <i>Nicotiana tabacum</i> (tobacco), <i>Secale cereale</i> (rye), <i>Solanum tuberosum</i> (potato), <i>Tulipa</i> (tulip)</p> <p><u>Minor hosts</u> <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Alstroemeria</i> (Inca lily), <i>Anemone</i> (windflower), <i>Brassica</i> sp., <i>Cyclamen</i>, <i>Gynura cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Fraxinus</i> (ashes), <i>Hosta</i> spp., <i>Lactuca sativa</i> (lettuce), <i>Lilium longiflorum</i> (Easter lily), <i>Narcissus</i> (daffodil), <i>Peperomia</i>, <i>Phaseolus vulgaris</i> (common bean), <i>Phlox</i>, <i>Phlox paniculata</i> (summer perennial phlox)</p>
Tobacco ringspot virus	Tobacco ringspot nepovirus Anemone necrosis virus Tobacco ringspot virus No. 1 Nicotiana virus 12 Blueberry necrotic ringspot virus Soybean bud blight virus Tobacco Brazilian streak virus	<p><u>Major hosts</u> <i>Capsicum</i> (peppers), <i>Capsicum annuum</i> (bell pepper), <i>Citrullus lanatus</i> (watermelon), <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita pepo</i> (ornamental gourd), <i>Gladiolus</i> hybrids (sword lily), <i>Glycine max</i> (soyabean), <i>Lycopersicon esculentum</i> (tomato), <i>Nicotiana tabacum</i> (tobacco), <i>Vaccinium</i> (blueberries)</p> <p><u>Minor hosts</u> <i>Pelargonium</i> (pelargoniums), <i>Prunus</i> (stone fruit), <i>Rubus</i> (blackberry, raspberry), <i>Solanum melongena</i> (aubergine), <i>Solanum nigrum</i> (black nightshade), <i>Solanum tuberosum</i> (potato), <i>Vitis vinifera</i> (grapevine)</p>

Tobacco streak virus	Tobacco streak ilarvirus Asparagus stunt virus New logan virus Asparagus stunt virus Datura quercina virus Nicotiana virus 8 Nicotiana virus vulnerans Strawberry necrotic shock virus Black raspberry latent virus Black raspberry latent ilarvirus Bean red node strain Black raspberry latent strain	<p><u>Major hosts</u>  <i>Asparagus officinalis</i> (asparagus), <i>Capsicum annuum</i> (bell pepper), <i>Cynara cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Fragaria</i> (strawberry), <i>Glycine max</i> (soyabean), <i>Gossypiumherbaceum</i> (short staple cotton), <i>Helianthus annuus</i> (sunflower), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Medicago sativa</i> (Lucerne), <i>Nicotiana tabacum</i> (tobacco), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Rubus occidentalis</i> (black raspberry), <i>Solanum tuberosum</i> (potato), <i>Trifolium pratense</i> (purple clover), <i>Vigna unguiculata</i> (cowpea)</p> <p><u>Minor hosts</u>  <i>Carica papaya</i> (papaw), <i>Cenopodium quinoa</i> (quinoa), <i>Cicer arietinum</i> (chickpea), <i>Cichoriumendivia</i> (endives), <i>Cucumis sativus</i> (cucumber), <i>Cyphomandra betacea</i> (tree tomato), <i>Dahlia</i>, <i>Eustoma grandiflorum</i> (Lisianthus (cut flower crop)), <i>Gladiolus</i> hybrids (sword lily), <i>Melilotus alba</i> (honey clover), <i>Rubus</i> (blackberry, raspberry), <i>Rubus ursinus</i> (boysenberry), <i>Trigonella foenum-graecum</i> (fenugreek), <i>Vigna angularis</i> (adzuki bean)</p>
Tomato black ring virus	Ring spot of beet Yellow vein of celery Ring spot of lettuce Bouquet of potato Pseudo-ancuba of potato Black ring of tomato Ring spot of bean	<p><u>Major hosts</u>  <i>Allium cepa</i> (onion), <i>Allium porrum</i> (leek), <i>Apium graveolens</i> (celery), <i>Beta vulgaris</i> var. <i>sacharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Capsicum</i> (peppers), <i>Cucumis sativus</i> (cucumber), <i>Cynara cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus</i> hybrids (sword lily), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Narcissus</i> (daffodil), <i>Phaseolus vulgaris</i> (common bean), <i>Prunus persica</i> (peach), <i>Ribes</i> (currants), <i>Rubus</i> (blackberry, raspberry), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Vitis vinifera</i> (grapevine)</p> <p><u>Minor hosts</u>  <i>Forsythia intermedia</i> (Golden bells), <i>Syringa vulgaris</i> (lilac)</p>

Tomato spotted wilt virus	Tomato spotted wilt Bronze wilt leaf Tomato bronze leaf virus	Major hosts
		<p><i>Ageratum conyzoides</i> (Billy goat weed), <i>Astroemeria</i> (Inca lily), <i>Ananas comosus</i> (pineapple), <i>Anemone</i> (windflower), <i>Anemone coronaria</i> (Poppy anemone), <i>Apium graveolens</i> (celery), <i>Arachis hypogaea</i> (groundnut), <i>Aster</i>, <i>Begonia</i>, <i>Benincasa hispida</i> (wax gourd), <i>Bidens pilosa</i> (blackjack), <i>Calceolaria</i> (pouch flower), <i>Calendula officinalis</i> (Pot marigold), <i>Callistephus</i>, <i>Callistephus chinensis</i> (China aster), <i>Canavalia gladiata</i> (horse bean), <i>Canna indica</i> (Queenstand arrowroot), <i>Capsicum</i> (peppers), <i>Capsicum annuum</i> (Bell pepper), <i>Carica papaya</i> (papaw), <i>Catharanthus roseus</i> (Pink periwinkle), <i>Chrysanthemum morifolium</i> (chrysanthemum (florists')), <i>Cicer arietinum</i> (chickpea), <i>Cichorium</i> (chicory), <i>Cichorium endivia</i> (endives), <i>Citrullus lanatus</i> (watermelon), <i>Coleus</i>, <i>Columnnea</i>, <i>Columnnea hirta</i>, <i>Crotalaria juncea</i> (sunn hemp), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita pepo</i> (ornamental gourd), <i>Cyclamen</i>, <i>Gynura cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Cyphomandra betacea</i> (tree tomato), <i>Dahlia</i>, <i>Dieffenbachia</i> (dumbcane), <i>Eustoma grandiflorum</i> (Lisianthus (cut flower crop)), <i>Ficus elastica</i> (rubber plant), <i>Ficus pumila</i> (creeping fig), <i>Galinosa parviflora</i> (gallant soldier), <i>Gerbera</i> (Barbeton daisy), <i>Gerbera jamesoni</i> (African daisy), <i>Glycine max</i> (soyabean), <i>Gossypium</i> (cotton), <i>Helianthus annuus</i> (sunflower), <i>Impatiens</i> (balsam), <i>Impatiens walleriana</i> (Busy-lizzy), <i>Jacquemontatamniifolia</i> (Smallflower morningglory), <i>Kalanchoe</i>, <i>Lactuca sativa</i> (lettuce), <i>Lathyrus sativus</i> (grasspea), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Lupinus</i> (Lupins), <i>Lycopersicon esculentum</i> (tomato), <i>Mentha piperita</i> (Peppermint), <i>Mirabilis jalapa</i> (marvel of Peru), <i>Nicandra physalodes</i> (apple of Peru), <i>Nicotiana rustica</i> (wild tobacco), <i>Nicotiana tabacum</i> (tobacco), <i>Ocimum</i>, <i>Ocimum basilicum</i> (basil), <i>Oncidium</i> (dancing-lady orchid), <i>Pelargonium</i> (pelargoniums), <i>Pericallis cruenta</i> (common cineraria), <i>Petunia</i>, <i>Petunia hybrida</i>, <i>Phalaenopsis</i>, <i>Phaseolus</i> (beans), <i>Phaseolus vulgaris</i> (common bean), <i>Physalis peruviana</i> (cape gooseberry), <i>Pisum sativum</i> (pea), <i>Saintpaulia ionantha</i> (African violet), <i>Salvia officinalis</i> (common sage), <i>Secchium edule</i> (chayote), <i>Sinningia</i>, <i>Sinningia speciosa</i> (gloxinia), Solanaceae, <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Stephanotis floribunda</i> (madagascar stephanotis), <i>Tagetes</i> (marigold), <i>Tephrosia purpurea</i> (purple tephrosia), <i>Valeriana officinalis</i> (common valerian), <i>Valerianella locusta</i> (common cornsalad), <i>Vicia faba</i> (broad bean), <i>Vigna mungo</i> (black gram), <i>Vigna radiata</i> (mung bean), <i>Vigna unguiculata</i> (cowpea), <i>Vitis vinifera</i> (grapevine), <i>Zantedeschia aethiopica</i> (calla lily), <i>Zinnia</i>, <i>Zinnia elegans</i> (zinnia)</p>

## Nematodes

Scientific Name	Common Name(s)	Host(s)
<i>Ditylenchus destructor</i> Thorne	Potato tuber nematode Potato eelworm	<p><b>Major hosts</b></p> <p><i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Arachis hypogaea</i> (groundnut), <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Camellia sinensis</i> (tea), <i>Capsicum annuum</i> (bell pepper), <i>Chrysanthemum morifolium</i> (chrysanthemum (florists)), <i>Citrus sinensis</i> (navel orange), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita moschata</i> (pumpkin), <i>Dahlia</i> hybrids, <i>Daucus carota</i> (carrot), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus</i> hybrids (sword lily), <i>Glycine max</i> (soybean), <i>Humulus lupulus</i> (hop), <i>Ipomoea batatas</i> (sweet potato), <i>Iris</i> (irises), <i>Lycopersicon esculentum</i> (tomato), <i>Mentha</i> (mints), <i>Panax ginseng</i> (Asiatic ginseng), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Trifolium</i> (clovers), <i>Triticum aestivum</i> (wheat), <i>Tulipa</i> (tulip), <i>Zea mays</i> (maize)</p>
<i>Ditylenchus dipsaci</i> (Kühn) Filip'ev	Stem and bulb nematode Onion bloat Brown ring disease of hyacinth Bulb eelworm Ring disease of bulbs	<p><b>Major hosts</b></p> <p><i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion), <i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic), <i>Avena sativa</i> (oats), <i>Begonia</i>, <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Cannabis sativa</i> (hemp), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus</i> hybrids (sword lily), <i>Hyacinthus orientalis</i> (hyacinth), <i>Medicago sativa</i> (lucerne), <i>Narcissus</i> (daffodil), <i>Narcissus pseudonarcissus</i> (wild lent lily), <i>Nicotiana tabacum</i> (tobacco), <i>Phaseolus</i> (beans), <i>Phlox drummondii</i> (Annual phlox), <i>Phlox paniculata</i> (summer perennial phlox), <i>Pisum sativum</i> (pea), <i>Secale cereale</i> (rye), <i>Solanum tuberosum</i> (potato), <i>Trifolium pratense</i> (purple clover), <i>Trifolium repens</i> (white clover), <i>Tulipa</i> (tulip), <i>Vicia faba</i> (broad bean), <i>Zea mays</i> (maize)</p> <p><b>Minor hosts</b></p> <p><i>Allium cepa</i> var. <i>aggregatum</i> (shallof), <i>Apium graveolens</i> (celery), <i>Brassic napus</i> var. <i>napus</i> (rape), <i>Carduus acanthoides</i> (Wetted thistle), <i>Crocus sativus</i> (saffron), <i>Cucurbitaceae</i> (cucurbits), <i>Dianthus caryophyllus</i> (carnation), <i>Helianthus annuus</i> (sunflower), <i>Hydrangea</i> (hydrangeas), <i>Ipomoea batatas</i> (sweet potato), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Onobrychis viciifolia</i> (sainfoin), <i>Petroselinum crispum</i> (parsley), <i>Phaseolus coccineus</i> (runner bean), <i>Triticum</i> (wheat)</p>

<p><i>Heterodera schachtii</i> A. Schmidt</p>	<p>Beet cyst eelworm Sugarbeet nematode</p>	<p><u>Major hosts</u>  <i>Alliaria petiolata</i> (garlic mustard), <i>Alyssum argentum</i>, <i>Amaranthus carneus</i>, <i>Amaranthuscaudatus</i> (Love-lies-bleeding), <i>Amaranthus gracizans</i> (prostrate pigweed), <i>Amaranthushybridus</i> (smooth pigweed), <i>Amaranthus palmeri</i> (Palmer amaranth), <i>Amaranthus quitensis</i>, <i>Apium dulce</i>, <i>Arabid alpina</i>, <i>Arabid arenosa</i>, <i>Arabid caucasica</i> (snow-in-summer), <i>Arabid hirsuta</i> (hairy rock-cress (UK)), <i>Arabid muraris</i>, <i>Arabid perfoliata</i>, <i>Arabid turrita</i> (tower rockcress), <i>Arabidvenna</i>, <i>Armoracia rusticana</i> (horseradish), <i>Atriplex confertifolia</i> (shadscale saltbush), <i>Atriplexhastata</i>, <i>Atriplex hortensis</i> (garden orache), <i>Atriplex littoralis</i> (grass-leaved orache), <i>Atriplexpatula</i> (common orache), <i>Atriplex rosea</i> (red orach (USA)), <i>Aubrieta</i> (rainbow rock-cress), <i>Aubrieta columnae</i>, <i>Beta atriplicifolia</i>, <i>Beta corolliflora</i>, <i>Beta foliosa</i>, <i>Beta intermedia</i>, <i>Betatomatogona</i>, <i>Beta macrocarpa</i>, <i>Beta macrohiza</i>, <i>Beta nana</i>, <i>Beta patellaris</i>, <i>Beta trigyna</i>, <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> subsp. <i>maritima</i> (sea beet (UK)), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica</i>, <i>Brassica cernua</i>, <i>Brassica juncea</i> var. <i>juncea</i> (Indian mustard), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassicangra</i> (black mustard), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Brassica rapa</i> ssp. <i>oleifera</i> (turnip rape), <i>Dianthus</i> (carnation), <i>Dianthus barbatus</i> (sweet williams), <i>Dianthus caryophyllus</i> (carnation), <i>Dianthus deltoides</i> (maiden pink), <i>Dianthusplumarius</i> (common pink), <i>Gypsophila acutifolia</i>, <i>Gypsophila elegans</i> (baby's breath), <i>Phaseolusvulgaris</i> (common bean), <i>Phytolacca acinosa</i>, <i>Pisum sativum</i> (pea), <i>Polygonum</i> (knotweed), <i>Polygonum convolvulus</i> (black bindweed), <i>Portulaca oleracea</i> (purslane), <i>Raphanus maritimus</i>, <i>Raphanus raphanistrum</i> (wild radish), <i>Raphanus sativus</i> (radish), <i>Rheum hybridum</i> (rhubarb), <i>Rorippa amphibia</i> (great yellowcress), <i>Rorippa islandica</i> (yellow marshcress), <i>Rumex acetosa</i> (sour dock), <i>Rumex acetosella</i> (field sorrel), <i>Rumex alpinus</i> (alpine dock), <i>Rumex hydrolapathum</i> (water dock), <i>Rumex maritimus</i> (golden dock), <i>Rumex palustris</i>, <i>Rumex patientia</i>, <i>Rumexsanguineus</i> (red-veined dock), <i>Saponaria ocymoides</i> (rock soapwort), <i>Saponaria officinalis</i> (soapwort), <i>Sesbania exaltata</i> (coffeebean (USA)), <i>Sesbania macrocarpa</i>, <i>Silene armeria</i> (garden catchfly), <i>Silene maritima</i>, <i>Silene nutans</i> (nottingham catchfly (UK)), <i>Silene quadrifida</i>, <i>Silenesaxifraga</i>, <i>Sinapis arvensis</i> (wild mustard), <i>Sinapis eruca</i>, <i>Sisymbrium austracum</i>, <i>Sisymbriumirio</i> (London rocket), <i>Sisymbrium loesei</i>, <i>Sisymbrium officinale</i> (Hedge mustard), <i>Sisymbriumorientale</i> (eastern rocket (UK)), <i>Solanum sarrachoides</i> (green nightshade (UK)), <i>Spinacia glabra</i>, <i>Spinacia oleracea</i> (spinach), <i>Tetragonia tetragonioides</i> (Newzealand spinach), <i>Thlaspi arvense</i> (field pennycress), <i>Tropaeolum perigrinum</i>, <i>Vaccaria hispanica</i> (bladder soapwort), <i>Vicia benghalensis</i> (purple vetch), <i>Vigna catjang</i></p>
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<i>Heterodera carotae</i>	Carrot cyst nematode Carrot root eelworm	<u>Major hosts</u> <i>Daucus carota</i> (carrot)
<i>Meloidogyne minor</i> Karssen et al.	---	<u>Major hosts</u> <i>Lycopersicon esculentum</i> (tomato), <i>Solanum tuberosum</i> (potato)  <u>Minor hosts</u> <i>Agrostis stolonifera</i> (creeping bentgrass)
<i>Meloidogyne chitwoodi</i> Golden, O'Bannon, Santo & Finley	Columbia root-knot nematode	<u>Major hosts</u> <i>Daucus carota</i> (carrot), <i>Lycopersicon esculentum</i> (tomato), <i>Medicago sativa</i> (lucerne), <i>Solanum tuberosum</i> (potato)  <u>Minor hosts</u> <i>Chenopodium quinoa</i> (quinoa), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Scorzonera hispanica</i> (oyster plant), <i>Zea mays</i> (maize)
<i>Nacobbus aberrans</i> (Thorne) Thorne & Allen	False root-knot nematode Potato rosary nematode	<u>Major hosts</u> <i>Amaranthus</i> (grain amaranth), <i>Atriplex confertifolia</i> (shadscale saltbush), <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> var. <i>sacharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (cabpages, cauliflowers), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassica oleracea</i> var. <i>gongylodes</i> (kohlrabi), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe-tсай), <i>Capsicum annuum</i> (bell pepper), <i>Chenopodium album</i> (fat hen), <i>Chenopodium quinoa</i> (quinoa), <i>Cucumis sativus</i> (cucumber), <i>Cucurbita maxima</i> (giant pumpkin), <i>Cucurbita pepo</i> (ornamental gourd), <i>Daucus carota</i> (carrot), <i>Gaillardia</i> , <i>Kochia</i> , <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Opuntia</i> (Pricklypear), <i>Pisum sativum</i> var. <i>arvense</i> (Austrian winter pea), <i>Sisymbrium irio</i> (London rocket), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Spergula arvensis</i> (corn spurry), <i>Spinacia oleracea</i> (spinach), <i>Tragopogon portifolius</i> (oysterplant), <i>Tribulus terrestris</i> (puncture vine)
<i>Pratylenchus penetrans</i> (Cobb) Filipjev & Schuurmans Stekhoven	Meadow nematode Root-lesion nematode Cobb's root-lesion nematode Northern root lesion	<u>Wide host range</u>

	nematode	
<i>Pratylenchus thornei</i> Sher & Allen		<p><u>Major hosts</u>  <i>Cicer arietinum</i> (chickpea), <i>Triticum aestivum</i> (wheat), <i>Triticum turgidum</i> (durum wheat)</p> <p><u>Minor hosts</u>  <i>Agrostis</i> (bentgrasses), <i>Allium cepa</i> (onion), <i>Apium graveolens</i> (celery), <i>Arachis hypogaea</i> (groundnut), <i>Avena sativa</i> (oats), <i>Beta vulgaris</i> (beetroot), <i>Citrus limonum</i> (lemon), <i>Cyperus</i> (cyperus), <i>Cynara cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Daucus carota</i> (carrot), <i>Fabaceae</i> (leguminous plants), <i>Fragaria ananassa</i> (strawberry), <i>Glycine max</i> (soybean), <i>Hordeum vulgare</i> (barley), <i>Iberis</i> (candytuft), <i>Juglans regia</i> (walnut), <i>Lathyrus odoratus</i> (sweet pea), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Medicago sativa</i> (lucerne), <i>Mentha piperita</i> (Peppermint), <i>Mentha spicata</i> (Spear mint), <i>Phaseolus vulgaris</i> (common bean), <i>Pinus</i> (pines), <i>Pisum sativum</i> (pea), <i>Prunus</i> (stone fruit), <i>Prunus amygdalus</i>, <i>Prunus dulcis</i> (almond), <i>Rosa</i> (roses), <i>Saccharum officinarum</i> (sugarcane), <i>Solanum tuberosum</i> (potato), <i>Sorghum bicolor</i> (sorghum), <i>Trifolium alexandrinum</i> (Berseem clover), <i>Trifolium fragiferum</i> (strawberry clover), <i>Trifolium repens</i> (white clover), <i>Vicia faba</i> (broad bean), <i>Vigna unguiculata</i> (cowpea), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (maize)</p>

<i>Pratylenchus vulnus</i> Allen & Jensen	Walnut root lesion nematode Root lesion nematode Meadow nematode	<p><b>Major hosts</b></p> <p><i>Actinidia arguta</i> (fara vine), <i>Actinidia deliciosa</i> (kiwifruit), <i>Araucaria araucana</i> (monkey puzzle), <i>Berberis thunbergii</i> (Japanese barberry), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Buxus sempervirens</i> (common boxwood), <i>Carya illinoensis</i> (pecan), <i>Citrus aurantium</i> (sour orange), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Corylus avellana</i> (hazel), <i>Crotalariajunccea</i> (sun hemp), <i>Crotalaria spectabilis</i> (Showy rattlepod), <i>Gydonia oblonga</i> (quince), <i>Cytisusscoparius</i> (broom), <i>Daucus carota</i> (carrot), <i>Eriobotrya japonica</i> (loquat), <i>Ficus carica</i> (fig), <i>Forsythia intermedia</i> (Golden bells), <i>Fragaria ananassa</i> (strawberry), <i>Gossypium hirsutum</i> (Bourbon cotton), <i>Hamamelis</i> (witchhazel), <i>Impatiens balsamina</i> (garden balsam), <i>Juglans hindsii</i> (californian black walnut), <i>Juglans major</i> (arizona walnut), <i>Juglans microcarpa</i> (River walnut tree), <i>Juglans nigra</i> (black walnut), <i>Juglans regia</i> (walnut), <i>Juniperus chinensis</i> (Chinese juniper), <i>Lathyrus odoratus</i> (sweet pea), <i>Ligustrum ovalifolium</i> (california privet), <i>Lilium longiflorum</i> (Easter lily), <i>Lilium speciosum</i> (Showy lily), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Mahonia</i> (holly grape), <i>Malus sylvestris</i> (crab-apple tree), <i>Medicago sativa</i> (Lucerne), <i>Melilotus alba</i> (honey clover), <i>Nicotiana tabacum</i> (tobacco), <i>Olea europaea</i> subsp. <i>europaea</i> (olive), <i>Papaversomiferum</i> (Opium poppy), <i>Persea americana</i> (avocado), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (common bean), <i>Pistacia vera</i> (pistachio), <i>Pisum sativum</i> (pea), <i>Prunusamygdalus</i>, <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus besseyi</i> (Bessey cherry), <i>Prunus cerasifera</i> (myrobalan plum), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus persica</i> (peach), <i>Pterocarya stenoptera</i> (chinese wing nut), <i>Pyrus communis</i> (European pear), <i>Rosa</i> (roses), <i>Rosa canina</i> (Dog rose), <i>Rosa chinensis</i> (China rose), <i>Rosa multiflora</i> (Multiflora rose), <i>Rubus</i> (blackberry, raspberry), <i>Rubus idaeus</i> (raspberry), <i>Taxus baccata</i> (English yew), <i>Vicia benghalensis</i> (purple vetch), <i>Vicia faba</i> (broad bean), <i>Vigna catjang</i>, <i>Vitis rupestris</i> (sand-grape), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (maize)</p> <p><b>Minor hosts</b></p> <p><i>Hedera helix</i> (ivy), <i>Prunus salicina</i> (Japanese plum), <i>Sequoia sempervirens</i> (coast redwood)</p>
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