Aphids

Damage to Plants: Honeydew & dark frass, leaf discoloration, puckered leaves.

Solutions:
- Green Lacewing - Chrysoperla rufilabris
- Ladybugs - Hippodamia convergens
- Minute Pirate Bug - Orius insidiosus
- Assassin Bugs - Zelus renardii
- Aphid Parasites - Aphelinus abdominalis, Aphidius ervi & Aphidius colemani
- Aphid Predator - Aphidoletes aphidimyza
- Spinosad
- Beauveria bassiana

Cyclamen & Broad Mites

Damage to Plants: Flowers can wither, distorted leaves, leaves curled inward, dark & streaked foliage, compact leaf masses.

Solutions:
- Mite Predator - Neoseiulus (=Amblyseius) fallacis, Amblyseius andersoni, Neoseiulus (=Amblyseius) californicus & Amblyseius swirskii
- Thrips Predator - Neoseiulus (=Amblyseius) cucumeris

Flea Beetles

Damage to Plants: Jumping insects, chewed leaves, small white buckshot holes.

Solutions:
- Assassin Bugs - Zelus renardii
- Beauveria bassiana
- NemaSeek Beneficial Nematodes - Heterorhabditis bacteriophora (Hb)

Fungus Gnats

Damage to Plants: Yellowing leaves, wilting plants, lack of root structure, damage may appear as nutrient deficiency.

Solutions:
- Fungus Gnat Predator - Stratiolaelaps scimitus (=Hypoaspis miles)
- Rove Beetle - Dalotia coriaria
- NemaSeek Beneficial Nematodes - Steinernema feltiae (Sf)
- Beauveria bassiana
- Bacillus thuringiensis israelensis (Bti)

Grubs

Damage to Plants: Yellowing leaves, wilting plants, lack of root structure, damage may appear as nutrient deficiency, non-existent roots.

Solutions:
- NemaSeek Beneficial Nematodes - Heterorhabditis bacteriophora (Hb)
- NemaSeek Beneficial Nematodes - Steinernema riobrave (Sr)
Mealybugs/Scale

Damage to Plants: Leaves may wilt, drop off easily, be discolored or reduced in size. Infested plants may have a distorted stem or growing points.

Solutions:
- Ladybugs - Hippodamia convergens
- Mealybug Destroyer - Cryptolaemus montrouzieri

Root Aphids

Damage to Plants: Lack of vigor, withering leaves, yellowing leaves, signs of nutrient deficiency.

Solutions:
- NemAttack Beneficial Nematodes
  - Heterorhabditis bacteriophora (Hb)
- Beauveria bassiana

Russet Mites

Damage to Plants: Leaflets curl, chlorosis, necrosis, lower leaves dry out, leaves look bronze in color.

Solutions:
- Thrips Predator - Neoseiulus (=Amblyseius) cucumeris
- Mite Predator - Amblyseius andersoni, Neoseiulus (=Amblyseius) fallacis, Neoseiulus (=Amblyseius) californicus & Galendromus occidentalis
- Sulfur

Slugs/Snails

Damage to Plants: Silver trail left on leaves, holes in leaves.

Solutions:
- Spinosad
- Iron Phosphate

Spider Mites

Damage to Plants: Webbing, leaf edges curling or burned, slowed growth, speckled, leathery golden leaves.

Solutions:
- Mite Predators - Amblyseius andersoni, Phytoseiulus persimilis, Neoseiulus (=Amblyseius) fallacis, Mesoseiulus longipes, Galendromus occidentalis & Neoseiulus (=Amblyseius) californicus
- Minute Pirate Bug - Orius insidiosus
- Spidermite Destroyer - Feltiella acarisuga & Stethorus punctillum
- Ladybugs - Hippodamia convergens
- Assassin Bugs - Zeulus renardii

Thrips

Damage to Plants: Silver/bronze scarring on leaves & stems, browning & drying leaves, puckered leaves.

Solutions:
- Green Lacewing - Chrysoperla rufilabris
- Assassin Bugs - Zeulus renardii
- Mite Predator - Amblyseius swirskii
- NemAttack Beneficial Nematodes
  - Steinernema feltiae (Sf)
- Minute Pirate Bug - Orius insidiosus
- Fungus Gnat Predator - Stratiolaelaps scimitus (=Hypoaspis miles)
- Spinosad
- Beauveria bassiana
- Thrips Predator - Neoseiulus (=Amblyseius) cucumeris

Whiteflies

Damage to Plants: Piercing/sucking marks, dust like substance when touched, silver/white coloring.

Solutions:
- Green Lacewing - Chrysoperla rufilabris
- Minute Pirate Bug - Orius insidiosus
- Whitefly Parasite - Encarsia formosa & Eretmocerus eremicus
- Mite Predator - Amblyseius swirskii
- Whitefly Predator - Delphastus catalinae
- Beauveria bassiana

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