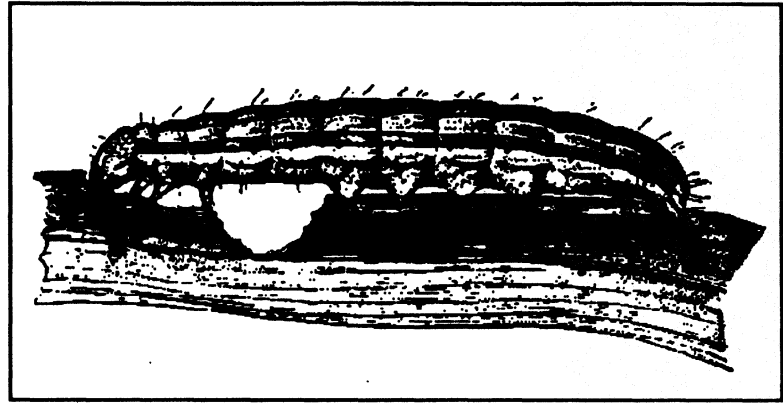


**OHIO
ECONOMIC
INSECTS
AND
RELATED
ARTHROPODS**



Armyworm feeding on corn; 2x. (USDA)

This list was prepared in cooperation with faculty of the Ohio Cooperative Extension Service, the Ohio Agricultural Research and Development Center, the Ohio Department of Agriculture, the Ohio Department of Health, The Ohio State University and the Plant Pest Control Division of the United States Department of Agriculture.



Ohio Cooperative Extension Service
The Ohio State University

OHIO ECONOMIC INSECTS AND RELATED ARTHROPODS

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INTRODUCTION

This list of Ohio Economic Insects and Related Arthropods was first assembled back in 1962-1964 while employed as the first "Survey Entomologist" of Ohio based at The Ohio Agricultural Research and Development Center, Wooster, Ohio. It was felt that such a list would serve as a valuable reference and useful purpose for commercial, government and public needs.

This list was prepared and updated in cooperation with faculty of the Ohio Cooperative Extension Service, the Ohio Agricultural Research and Development Center, the Ohio Department of Agriculture, the Ohio Department of Health, the Ohio State University and the Plant Pest Control Division of the United States Department of Agriculture. Common and scientific names are listed under various host and habitat categories.

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Revised 3/89

CORN

Armyworm *Pseudaletia unipuncta*
 Black Cutworm *Agrotis ipsilon*
 Bluegrass Billbug *Sphenophorus parvulus*
 Bristly Cutworm *Lacinipolia renigera*
 Cereal Leaf Beetle *Oulema melanopus*
 Chinch Bug *Blissus leucopterus*
 Claybacked Cutworm *Agrotis gladiaria*
 Corn Billbug *Sphenophorus zeae*
 Corn Earworm *Heliothis zea*
 Corn Flea Beetle *Chaetocnema pulicaria*
 Corn Leaf Aphid *Rhopalosiphum maidis*
 Corn Root Aphid *Anuraphis maidiradicis*
 Corn Root Webworm *Crambus caliginosellus*
 Dingy Cutworm *Feltia subgothica*
 Dusky Sap Beetle *Carpophilus lugubris*
 European Corn Borer *Ostrinia nubilalis*
 Fall Armyworm *Laphygma frugiperda*
 Garden Symphylan *Scutigera immaculata*
 Glassy Cutworm *Crymodes devastator*
 Grape Colaspis *Maecolaspis flavida*
 Japanese Beetle *Popillia japonica*
 Maize Billbug *Sphenophorus maidis*
 Mites *Tarsonemus scaurus*, *Schizotetranychus lycurus*
 Northern Corn Rootworm *Diabrotica longicornis barberi*
 Palestriped Flea Beetle *Systema blanda*
 Picnic Beetle *Glischrochilus quadrisignatus*, *G. fasciatus*
 Potato Flea Beetle *Epitrix cucumeris*
 Redheaded Flea Beetle *Systema frontalis*
 Redlegged Grasshoppers *Melanoplus femurrubrum*
 Rose Chafer *Macrodactylus subspinosus*
 Salt Marsh Caterpillar *Estigmene acraea*
 Seedcorn Beetle *Stenolophus lecontei*
 Seedcorn Maggot *Delia platura*
 Slugs *Limax* spp.
 Sod Webworm *Crambus* spp.
 Southern Corn Rootworm *Diabrotica undecimpunctata howardi*
 Spotted Cutworm *Amathes c-nigrum*
 Stalk Borer *Papaipema nebris*
 Thrips *Anaphothrips obscurus*, *Frankliniella tenuicornis*, *Rhipidothrips graciosus*
 Twospotted Spider Mite *Tetranychus urticae*
 Western Corn Rootworm *Diabrotica virgifera virgifera*
 Wheat Curl Mite *Aceria tulipae*
 White Grubs *Phyllophaga* spp.

CORN cont'd...

Wireworms Melanotus communis, Conoderus sp.
 Yellow Striped Armyworm Prodenia ornithogalli

SOYBEANS

Bean Leaf Beetle Cerotoma trifurcata
 Black Cutworm Agrotis ipsilon
 Blister Beetles Epicauta spp.
 Brown Stink Bug Euchistus servus
 Claybacked Cutworm Agrotis gladiaria
 Clover Head Weevil Hypera mele
 Clover Root Curculio Sitona hispidula
 Corn Earworm Heliothis zea
 Corn Rootworm Diabrotica sp.
 Differential Grasshopper Melanoplus differentialis
 Garden Symphylan Scutigera immaculata
 Grape Webworm Loxostege similalis
 Grape Colaspis Maecolaspis flavida
 Gray Garden Slug Deroceras reticulatum
 Green Stink Bug Acrosternum hilare
 Green Cloverworm Plathypena scabra
 Japanese Beetle Popillia japonica
 Locust Leafminer Xenochalepus dorsalis
 Mexican Bean Beetle Epilachna varivestis
 Painted Lady Cynthia cardui
 Potato Leafhopper Empoasca fabae
 Redlegged Grasshopper Melanoplus femurrubrum
 Seedcorn Beetle Agonoderus lecontei
 Seedcorn Maggot Delia platura
 Slug Deroceras laeve
 Soybean Leafminer Odontota horni
 Soybean Thrips Sericothrips variabilis
 Spider Mites Tetranychus spp.
 Tarnished Plant Bug Lygus lineolaris
 Thistle Caterpillar Vanessa sp.

GRAINS, GRASSES AND FORAGE CROPS

Alfalfa Blotch Leafminer Agromyza frontella
 Alfalfa Caterpillar Colias eurytheme
 Alfalfa Plant Bug Adelphocoris lineolatus
 Alfalfa Weevil Hypera postica
 Apple Grain Aphid Rhopalosiphum fitchii

GRAINS, GRASSES AND FORAGE CROPS cont'd...

Armyworm Pseudaletia unipuncta
 Blister Beetles Epicauta pennsylvanica, E. pestifera
 Bronzed Cutworm Nephelodes emmedonia
 Cereal Leaf Beetle Oulema melanopus
 Chinch Bug Blissus leucopterus
 Clover Aphid Nearctaphis bakeri
 Clover Head Weevil Hypera meles
 Clover Leaf Weevil Hypera punctata
 Clover Leafhopper Aceratagallia sanguinolenta
 Clover Nomophila Nomophila noctuella
 Clover Root Borer Hylastinus obscurus
 Clover Root Curculio Sitona hispidula
 Clover Stem Borer Languria mozardi
 Clouded Sulfur Colias philodice
 Corn Leaf Aphid Rhopalosiphum maidis
 Cutworms Agrotis ipsilon, Feltia subgothica, Peridroma saucia,
Amathes c-nigrum
 English Grain Aphid Macrosiphum avenae
 European Chafer Amphimallon majalis
 Flea Beetles Dibolia borealis
 Greenbug Schizaphis graminum
 Green Cloverworm Plathypena scabra
 Hessian Fly Mayetiola destructor
 Hop Flea Beetle Psylliodes punctulatus
 Japanese Beetle Popillia japonica
 Leafhoppers Draeculacephala sp., Endria inimica, Aceratagallia sp.
 Lesser Clover Leaf Weevil Hypera nigrirostris
 Margined Blister Beetle Epicauta pestifera
 Meadow Plant Bug Leptopterna dolabrata
 Meadow Spittlebug Philaenus spumarius
 Mites Penthaleus major, Bryobia spp.
 Onespot Stink Bug Euschistus variolarius
 Pea Aphid Acyrtosiphon pisum
 Potato Leafhopper Empoasca fabae
 Rapid Plant Bug Adelphocoris rapidus
 Redlegged Grasshopper Melanoplus femurrubrum
 Sawfly Dolerus sp.
 Sixspotted Leafhopper Macrosteles divisus
 Slugs Deroceras sp.
 Sod Webworms Crambus sp.
 Spotted Alfalfa Aphid Therioaphis maculata
 Spotted Cutworm Amathes c-nigrum
 Springtails Entomobrya spp., Sira spp., Lepidocyrtus spp., Heteromurus spp.,
Orchesella spp.
 Sweetclover Weevil Sitona cylindricollis

GRAINS, GRASSES AND FORAGE CROPS cont'd...

Tarnished Plant Bug Lygus lineolaris
 Thrips Anaphothrips obscurus
 Wheat Curl Mite Aceria tulipae
 Wheat Head Armyworm Moth Faronta diffusa
 Wheat Jointworm Harmolita tritici
 Wheat Midge Sitodiplosis mosellana
 Wheat Stem Sawfly Cephus cinctus
 White Grubs Phyllophaga spp.
 Winter Grain Mite Penthaleus major
 Wireworms Ctenicera cylindriciformis
 Variegated Cutworm Peridroma saucia
 Yellowstriped Armyworm Prodenia ornithogalli
 Yellow Clover Aphid Therioaphis trifolii

TOBACCO

Corn Earworm Heliothis zea
 Flea Beetles Epitrix hirtipennis, E. fuscata
 Grasshoppers Melanoplus differentialis
 Green June Beetles Cotinis nitida
 Green Peach Aphid Myzus persicae
 Tobacco Hornworm Protoparce sexta
 Tomato Hornworm Protoparce quinquemaculata

SUGAR BEETS

Beet Leafminer Pegomya betae
 Blister Beetles Epicauta pennsylvanica
 Eastern Field Wireworm Limonius agonus
 Grasshoppers Melanoplus differentialis
 Margined Blister Beetle Epicauta pestifera
 Spinach Flea Beetle Disonycha xanthomelas
 Spinach Leafminer Pegomya hyoscyami
 Sugarbeet Root Aphid Pemphigus populivenerae

FRUIT

Apple Aphid Aphis pomi
 Apple Bark Borer Synanthedon sp.
 Apple Curculio Tachypterellus quadrigibbus
 Apple Flea Weevil Rhynchaenus pallicornis
 Apple Grain Aphid Rhopalosiphum fitchii

FRUIT cont'd...

Apple Leafhopper Empoasca maligna
 Apple Leaf Skeletonizer Psorosina hammondi
 Apple Leaf Trumpet Miner Tischeria malifoliella
 Apple Maggot Rhagoletis pomonella
 Apple Red Bugs Lygidea mendax, Heterocordylus malinus
 Apple Rust Mite Aculus schlechtendali
 Apple Seed Chalcid Torymus varians
 Bagworm Thyridopteryx ephemeraeformis
 Black Cherry Aphid Myzus cerasi
 Black Cherry Fruit Fly Rhagoletis fausta
 Blackfaced Climbing Cutworm Eupsilia sp.
 Broadnecked Root Borer Prionus laticollis
 Bronzed Cutworm Nephelodes minians
 Brown Stink Bug Euschistus servus
 Buffalo Treehopper Stictocephala bisonia
 Cherry Fruit Fly Rhagoletis cingulata, Rhagoletis fausta
 Cigar Casebearer Coleophora serratella
 Claybacked Cutworm Agrostis gladiaria
 Clover Mite Bryobia praetiosa
 Clover Stink Bug Thyanta custator
 Codling Moth Cydia pomonella
 Comstock Mealybug Pseudococcus comstocki
 Cutworms or Fruitworms Rhynchagrotis cupida, Lithophane unimoda,
Amphipyra pyramidoides
 Darkfaced Climbing Cutworm Eupsilia morrisoni
 Dock Sawfly Ametastegia glabrata
 Dog Day Cicada Tibicen pruinosa
 Dusky Cutworm Feltia venerabilis
 Dusky Stink Bug Euschistus tristigmus
 Eastern Tent Caterpillar Malacosoma americanum
 European Fruit Lecanium Parthenolecanium corni
 European Red Mite Panonychus ulmi
 Eyespotted Bud Moth Spilonota ocellana
 Forbes Scale Quadraspidiotus forbesi
 Fall Cankerworm Alsophila pometaria
 Flatheaded Apple Tree Borer Chrysobothris femorata
 Forest Tent Caterpillar Malacosoma disstria
 Fruittree Leafroller Archips argyrospila
 Grasshoppers Melanoplus spp.
 Green Apple Aphid Aphis pomi
 Green Fruit Worm Lithophane antennata
 Green June Beetle Cotinis nitida
 Green Peach Aphid Myzus persicae
 Green Stink Bug Acrosternum hilare
 Japanese Beetle Popillia japonica

FRUIT cont'd...

Lesser Apple Worm Grapholitha prunivora
 Lesser Peach Tree Borer Synanthedon pictipes
 Locust Leafminer Odontota dorsalis
 Mealy Plum Aphid Hyalopterus pruni
 Morrison's Climbing Cutworm Eupsilia morrisoni
 Mottled Gray Cutworm Rhynchagnotis alternata
 Obliquebanded Leafroller Choristoneura rosaceana
 Obliquestriped Apple Leafhopper Erythroneura lawsoniana
 Onespotted Stink Bug Euschistus variolarius
 Oriental Fruit Moth Grapholitha molesta
 Oystershell Scale Lepidosaphes ulmi
 Pale Apple Leafroller Pseudexentera mali
 Peach Bark Beetle Phloeotribus liminaris
 Peach Leafminer Phytomyza persicae
 Peach Silver Mite Aculus cornutus
 Peach Tree Borer Synanthedon exitiosa
 Peach Twig Borer Anarsia lineatella
 Pearleaf Blister Mite Phytoptus pyri
 Pear Psylla Psylla pyricola
 Pear Rust Mite Epitrimerus pyri
 Pear Sawfly Caliroa cerasi
 Pistol Casebearer Coleophora malivorella
 Plant Hopper Delphacodes lutulenta
 Plum Curculio Conotrachelus nenuphar
 Plum Fingergall Mite Eriaphyes emarginatae
 Potato Leafhopper Empoasca fabae
 Putnam Scale Diaspidiotus ancyclus
 Pyramidal Fruitworm Amphipyra pyramidoides
 Redbanded Leaf Roller Argyrotaenia velutinana
 Redhumped Caterpillar Schizura concinna
 Rose Chafer Macrodactylus subspinosus
 Rose Leafhopper Edwardsiana rosae
 Rosy Apple Aphid Dysaphis plantaginea
 Roundheaded Apple Tree Borer Saperda candida
 Rusty Plum Aphid Hysteroneura setariae
 San Jose Scale Quadraspidiotus perniciosus
 Scurfy Scale Chionaspis furfura
 Seventeen Year Cicada or Periodical Cicada Magicicada cassini, Magicicada septendecula, Magicicada septendecim
 Shieldbacked Cutworm Sunira bicolarago
 Shothole Borer Scolytus rugulosus
 Speckled Green Fruitworm Orthosia hibisci
 Spotted-sided Cutworm Agrotis badinodis
 Spotted Tentiform Leafminer Phyllonorycter blancardella
 Spring Cankerworm Paleacrita vernata

FRUIT cont'd...

Tarnished Plant Bug Lygus lineolaris
 Terrapin Scale Mesolecanium nigrofasciatum
 Thistle Aphid Brachycaudus cardui
 Tree Crickets Oecanthus spp.
 Tufted Apple Budmoth Platynota idaeusalis
 Twospotted Spider Mite Tetranychus urticae
 Unspotted Tentiform Leafminer Callisto geminatella
 White Apple Leafhopper Typhlocyba pomaria
 Whitemarked Tussock Moth Orgyria leucostigma
 Woolly Apple Aphid Eriosoma lanigerum
 Yellownecked Caterpillar Datana ministra

SMALL FRUITS

Black Vine Weevil Otiorhynchus sulcatus
 Blueberry Tip Borer Hendecaneura shawiana
 Cherry Fruitworm Grapholitha packardii
 Climbing Cutworms Abagrotis barnesi, Agrotis ipsilon,
Euxoa messoria, Euxoa scandens, Euxoa tessellata,
Feltia subgothica, Lacinipolia meditata, Lacinipolia
renigera, Peridroma saucia, Rhynchagrotis cupida,
Rhynchagrotis placida, Spaelotis clandestina
 Crickets Gryllus assimilis
 Cutworms Agrotis ipsilon, Amathes c-nigrum,
Feltia subgothica
 Cyclamen Mite Steneotarsonemus pallidus
 Eastern Grape Leafhopper Erythroneura comes
 Eastern Raspberry Fruitworm Byturus rubi
 Eightspotted Forester Alypia octomaculata
 Elderberry Longhorn Desmocerus palliatus
 Elder Shoot Borer Achatodes zeae
 European Fruit Lecanium Lecanium corni
 European Red Mite Panonychus ulmi
 Fourlined Plant Bug Poecilocapsus lineatus
 Fruit Fly Drosophila melanogaster
 Grasshoppers Melanoplus differentialis
 Grape Berry Moth Endopiza viteana
 Grape Blister Gall Cecidomyia sp.
 Grape Blossom Midge Contarinia johnsoni
 Grape Cane Gallmaker Ampelogypter sesostris
 Grape Cane Girdler Ampelogypter ampelopsis
 Grape Colaspis Colaspis flavida
 Grape Curculio Craponius inaequalis
 Grape Erineum Mite Colomerus vitis

SMALL FRUITS cont'd...

Grape Flea Beetle Altica chalybea
 Grape Leafroller Desmia funeralis
 Grape Leafminer Antispila viticordifoliella
 Grape Leaf Skeletonizer Harrisina americana
 Grape Mealybug Pseudococcus maritimus
 Grape Pelidnota Pelidnota punctata
 Grape Phylloxera Daktulosphaira vitifoliae
 Grape Plume Moth Geina persicelidactylus
 Grape Root Borer Vitacea polistiformis
 Grape Rootworm Fidia viticida
 Grape Sawfly Erythraspides vitis
 Grape Scale Diaspidiotus uvae
 Grape Seed Chalcid Evoxysoma vitis
 Grape Tomato Gall Lasioptera vitis
 Grape Trunk Borer Clytoleptus albofasciatus
 Grape Tube Gallmaker Cecidomyia viticola
 Grapevine Aphid Aphis illinoisensis
 Grapevine Epimenis Psychomorpha epimenis
 Green Fruitworms Amphipyra pyramidoide, Lithophane antennata,
Orthosia hibisci
 Imported Currantworm Nematus ribesii
 Japanese Beetle Popillia japonica
 Other Cicadas Magicicada cassinii, Magicicada septendecula
 Periodical Cicada Magicicada septendecim
 Picnic Beetle Glischrochilus quadrisignatus, G. fasciatus
 Potato Leafhopper Empoasca fabae
 Raspberry Cane Borer Oberea bimaculata

Raspberry Sawfly Monophadnoides geniculatus
 Redbanded Leafroller Argyrotaenia velutinana
 Rednecked Cane Borer Agrilus ruficollis
 Rose Chafer Macroductylus subspinosus
 Rose Scale Aulacaspis rosae
 Rough Strawberry Root Weevil Otiorhynchus rugosostriatus
 Seventeen Year Cicada Magicicada cassini, Magicicada septendecula
 Spittlebug Philaenus spumarius
 Spotted Pelidnota Pelidnota punctata
 Strawberry Aphid Chaetosiphon fragaefolii
 Strawberry Crown Borer Tyloclerum fragariae
 Strawberry Leafroller Ancylis comptana fragariae
 Strawberry Root Aphid Aphis forbesi
 Strawberry Root Weevil Otiorhynchus ovatus
 Strawberry Rootworm Paria fragariae
 Strawberry Sap Beetle Stelidota geminata
 Strawberry Weevil Anthonomus signatus

SMALL FRUITS cont'd...

Strawberry Whitefly Trialeurodes packardi
 Tarnished Plant Bug Lygus lineolaris
 Threebanded Leafhopper E. tricincta
 Tree Crickets Oecanthus spp.
 Twospotted Spider Mite Tetranychus urticae
 Virginia Creeper Leafhopper E. ziczac
 Whitefly Trialeurodes vaporariorum, T. packardi
 White Grubs Phyllophaga spp.

VEGETABLES

Asparagus Beetles Crioceris asparagi
 Asparagus Miner Melanagromyza simplex
 Bean Aphid Aphis fabae
 Bean Leaf Beetle Cerotoma trifurcata
 Bean Weevil Acanthoscelides obtectus
 Black Blister Beetle Epicauta pennsylvanica
 Black Onion Fly Tritoxa flexa
 Black Swallowtail Papilio polyxenes asterius
 Cabbage Aphid Brevicoryne brassicae
 Cabbage Curculio Ceutorhynchus rapae
 Cabbage Looper Trichoplusia ni
 Cabbage Maggot Hylemya brassicae
 Carrot Rust Fly Psila rosae
 Carrot Weevil Listronotus oregonensis
 Celery Leaf-tier Udea rubigalis
 Celery Looper Anagrapha falcifera
 Claybacked Cutworm Agrotis gladiaria
 Colorado Potato Beetle Leptinotarsa decemlineata
 Corn Flea Beetle Chaetocnema pulicaria
 Crucifer Flea Beetle Phyllotreta cruciferae
 Cutworms or Fruitworms Agrotis ipsilon, Amathes c-nigrum,
Lithophane unimeda, Lithophane antennata, Orthosia hibisci,
Amphipyra pyramidoides, Euxoa spp.
 Diamondback Moth Plutella xylostella
 Dusky Sap Beetle Carpophilus lugubris
 Eastern Subterranean Termite Reticulitermes flavipes
 Eggplant Lacebug Gargaphia solani
 European Corn Borer Ostrinia nubilalis
 Fall Armyworm Laphygma frugiperda
 Field Cricket Acheta assimilis

Fruit Fly Drosophila melanogaster
 Garden Symphylan Scutigera immaculata

VEGETABLES cont'd...

Grasshoppers Melanoplus differentialis
 Green June Beetle Cotinis nitida
 Green Peach Aphid Myzus persicae
 Imported Cabbageworm Pieris rapae
 Harlequin Bug Murgantia histrionica
 Japanese Beetle Popillia japonica
 Lima Bean Pod Borer Etiella zinckenella
 Margined Blister Beetle Epicauta pestifera
 Melon Aphid Aphis gossypii
 Mexican Bean Beetle Epilachna varivestis
 Nitidulids Carpophilus lugubris, Glischrochilus quadrisignatus
 Onespot Stink Bug Euschistus variolarius
 Onion Maggot Hylemya antiqua
 Onion Thrips Thrips tabaci
 Palestriped Flea Beetle Systema blanda
 Pea Aphid Acyrtosiphon pisum
 Picnic Beetle Glischrochilus quadrisignatus
 Pillbugs Porcellio laevis, Armadillidium vulgare
 Potato Aphid Macrosiphum euphorbiae
 Potato Flea Beetle Epitrix cucumeris
 Potato Leafhopper Empoasca fabae
 Potato Stalk Borer Trichobaris trinotata
 Potato Tuberworm Gnorimoschema operculella
 Rhubarb Curculio Lixus concavus
 Root Knot Nematode Heterodera radiculicola
 Rose Chafer Macroductylus subspinosus
 Saltmarsh Caterpillar Estigmene acrea
 Seedcorn Maggot Hylemya platura
 Sixspotted Leafhopper Macrostoteles fascifrons
 Sod Webworm Crambus spp., Crambus trisectus
 Sowbug or Woodlouse Porcellio scaber, P. laevis
 Spinach Flea Beetle Disonycha xanthomelas
 Spinach Leafminer Pegomya hyoscyami
 Spotted Asparagus Beetle Crioceris duodecimpunctata
 Spotted Cucumber Beetle Diabrotica undecimpunctata howardi
 Spotted Garden Slug Limax maximus
 Squash Beetle Epilachna borealis
 Squash Bug Anasa tristis
 Squash Vine Borer Melittia cucurbitae
 Stalk Borer Papaipema nebris
 Striped Blister Beetle Epicauta vittata
 Striped Cucumber Beetle Acalymma vittatum
 Striped Flea Beetle Phyllotreta striolata
 Sweet Potato Weevil Cylas formicarius
 Tarnished Plant bug Lygus lineolaris

VEGETABLES cont'd...

Threelined Potato Beetle Lema trilineata
 Tobacco Hornworm Protoparce sexta
 Tomato Fruitworm Heliothis zea
 Tomato Hornworm Protoparce quinquemaculata
 Tomato Pinworm Keiferia lycopersicella
 Tomato Russet Mite Vasates lycopersici
 Tortoise Beetle Mettriona bicolor
 Turnip Aphid Rhopalosiphum pseudobrassicae
 Turnip Maggot Hylemya floralis
 Twospotted Spider Mite Tetranychus urticae
 Variegated Cutworm Peridroma saucia
 Whitefly Trialeurodes vaporariorum
 White Grub Phyllophaga spp.
 Whitelined Sphinx Celerio lineata
 Wireworms Limonius agonus
 Zebra Caterpillar Ceramica picta

GREENHOUSE

Banded Greenhouse Thrips Hercinothrips femoralis
 Brown Soft Scale Coccus heperidum
 Cabbage Looper Trichoplusia ni
 Carnation Maggot Delia brunnescens
 Carnation Tip Maggot Hylemya echinata
 Chrysanthemum Aphid Macrosiphoniella chrysanthemi sanborni
 Chrysanthemum Gall Midge Diarthronomyia chrysanthemi
 Chrysanthemum Leafminer Phytomyza syngenesiae
 Citrus Mealybug Planococcus citri
 Corn Earworm Heliothis zea
 Cyclamen Mite Steneotarsonemus pallidus
 European Corn Borer Ostrinia nubilalis
 Flower Thrips Frankliniella tritici, F. occidentalis
 Fourlined Plant Bug Poecilocapsus lineatus
 Fungus Gnats Sciara sp., Orfelia sp. Bradysia sp.
 Garden Fleahopper Halticus bracteatus
 Garden Webworm Loxostege similalis
 Garden Symphylan Scutigera immaculata
 Geranium Plume Moth Platyptilia pica crataea
 Greenhouse Leaf-tier Phyltaenia rebigalis
 Greenhouse Thrips Heliothrips haemorrhoidalis
 Greenhouse Whitefly Trialeurodes vaporariorum
 Green Peach Aphid Myzus persicae
 Leaf-tier Udea rubiaglis
 Leafminer Liriomyza trifolii

GREENHOUSE cont'd...

Leafroller Platynota stultana
 Longtailed Mealybug Pseudococcus longispinus
 Mealybug Pseudococcus marioni
 Melon Aphid Aphis gossypii
 Mite Tyrophagus neiswanderi
 Pritchard's Mealybug Rhizoecus pritchardi
 Rootknot Nematode Heterodera marioni
 Rose Midge Dasyneura rhodophaga
 Serpentine Leafminer Liriomyza brassicae
 Sowbugs Oniscus asellus
 Spittlebug Philaenus spumarius
 Spotted Cucumber Beetle Diabrotica undecimpunctata howardi
 Strawberry Rootworm Paria fragariae
 Tarnished Plant Bug Lygus lineolaris
 Thrips Frankliniella spp., Heliothrip spp.
 Tomato Fruitworm Heliothis zea
 Twospotted Spider Mite Tetranychus urticae
 Variegated Cutworm Peridroma saucia

FOREST, SHADE TREES AND SHRUBS

Abbott's Pine Sawfly Lophyrus abbotti
 Ailanthus Webworm Atteva punctella
 Alder Aphid Oestlundiella flava
 Allegheny Mound Ant Formica exsectoides
 Andromeda Lace Bug Stephanitis takeyi
 Aphid Cinara pini
 Aphid Euceraphis betulae
 Aphid Lachnus montanus
 Aphids Tuberolachnus saligna, Myzocallis discolor,
Longistigma carvae
 Apple Aphid Aphis pomi
 Apple Rust Mite Aculus schlectendali
 Apple Skeletonizer Buccalatrix pomifoliella
 Arborvitae Leafminer Argyresthia thuiella
 Ash Borer/Lilac Borer Podosesia syringae
 Ash Flower Gall Mite Eriophyes fraxiniflora
 Ash Leaf Roller Machimia tentoriferella
 Ash Mid Rib Gill Midge Contarinia canadensis
 Ash Plant Bug Tropidosteptes amoenus
 Ash Purse Gall Mite Eriophyes chondriphora
 Asiatic Oak Weevil Cyrtopistomus castaneus
 Asparagus Aphid Brachycolus asparagi
 Asparagus Beetle Crioceris asparagi

FOREST, SHADE TREES AND SHRUBS cont'd...

Azalea Bark Scale Eriococcus azaleae
 Azalea Lace Bug Stephanitis pyrioides
 Azalea Leafminer Caloptilia azaleella
 Azalea Mite Azalea atlantazaleae
 Azalea Sawfly Amauronematus azaleae
 Azalea Stem Borer Oberea myops
 Azalea Whitefly Pealius azaleae
 Bagworm Thyridopteryx ephemeraeformis
 Bald Cypress Rust Mite Epitremerus taxodii
 Balsam Twig Aphid Mindarus abietinus
 Balsam Woolly Adelgid Adelges piceae
 Banded Ash Borer Neoclytus caprea
 Banded Ash Clearwing Podosesia aureocineta
 Barberry Aphid Hyadaphis tataricae
 Barberry Looper Coryphista meadi
 Barberry Webworm Omphalocera dentosa
 Basswood Lace Bug Gargaphia tiliae
 Beaked Willow Gall Midge Phytophaga rigidae
 Beech Blight Aphid Prociphilus imbricator
 Birch Bead Gall Mite Phytopus lionatus
 Birch Leafminer Fenusa pusilla
 Birch Tube Maker Acrobasis betulella
 Blackberry Psyllid Trioza tripunctata
 Black Blister Beetle Epicauta pennsylvanica
 Black Cherry Aphid Myzus cerasi
 Blackheaded Ash Sawfly Tethida cordigera
 Blackhorned Pine Borer Callidum sp.
 Black Vine Weevil Otiorhynchus sulcatus
 Black Walnut Curculio Conotrachelus retentus
 Black Walnut Leaf Gall Eriophes acavlis
 Black Willow Aphid Pterocomma smithiae
 Black Willow Scale Chionaspis salicis-nigrae
 Blueberry Stem Gall Wasp Hemadas nubilipennis
 Boxelder Aphid Periphyllus negundinis
 Boxelder Bug Leptocoris trivittatus
 Boxelder Erineum Mite Eriophyes negundi
 Boxelder Spider Mite Eurytetranychus buxi
 Boxelder Twig Borer Proteoteras willingana
 Boxwood Leafminer Monarthropalpus buxi
 Boxwood Psyllid Psylla buxi
 Boxwood Spider Mite Eurytetranychus buxi
 Broadnecked Root Borer Prionus laticollis
 Bronze Birch Borer Agrilus anxius
 Brown Prioniol Orthosoma brunneum
 Brown Soft Scale Coccus hesperidum

FOREST, SHADE TREES AND SHRUBS cont'd...

Buck Moth Hemileuca maia
 Buckeye Leafworm Archips rileyana
 Bud Rosette Mite Trisetacus gemmavitiens
 Buffalo Treehopper Stictocephala bubalus
 Butternut Blister Mite Eriophyes cineriae
 Butternut Curculio Conotrachelus juglandis
 Carpenterworm Prionoxystus robiniae
 Catalpa Sphinx Ceratomia catalpae
 Cecropia Moth Hyalophora cecropia
 Chrysanthemum Aphid Macrosiphoniella sanborni
 Chrysanthemum Gall Midge Diarthronomia hypogaea
 Chrysanthemum Lacebug Corythuca marmorata
 Chrysanthemum Leafminer Phytomyza sp.
 Chrysanthemum Leafminer Phytomyza atricornis
 Chrysanthemum Leafminer Phytomyza syngenesiae
 Columbine Blotch Miner Phytomyza aquilegiana
 Columbine Leafminer Phytomyza spp.
 Columbine Leafminer Phytomyza miniscula
 Comstock Mealybug Pseudococcus comstocki
 Cooley Spruce Gall Adelgid Adelges cooleyi
 Cottonwood Sawfly Nematus sp.
 Cottony Azalea Scale Pulvinaria ericicola
 Cottony Cushion Scale Icerya purchasi
 Cottony Maple Leaf Scale Pulvinaria acericola
 Cottony Maple Scale Pulvinaria innumerabilis
 Cottony Scale Pulvinaria ericicola
 Cowpea Aphid Aphis craccivora
 Crimson Erineum Mite Eriophyes elongatus
 Currant Aphid Cryptomyzid ribis
 Cyanophyllum Scale Heimberlesia cyanophylli
 Cyclamen Mite Steneotarsonemus pallidus
 Darkling Beetle Alobates pennsylvanica
 Dog Day Cicada Tibicen pruinosa
 Dogwood Borer Synanthedon scitula
 Dogwood Cambium Borer Agrilus cephalicus
 Dogwood Club Gall Midge Resseliella clavula
 Dogwood Spot Gall Midge Lasioptera corni
 Dogwood Sawfly Macremphytus tarsatus
 Eastern Ash Bark Beetle Leperisinus aculeatus
 Eastern Dusky Winged Oak Aphid Myzocallis discolor
 Eastern Pine Shoot Borer Eucosma gloriola
 Eastern Spruce Gall Aphid Adelges abietis
 Eastern Tent Caterpillar Malacosoma americanum
 Elm Bead Gall Mite Eriophyes ulmi
 Elm Borer Saperda tridentata

FOREST, SHADE TREES AND SHRUBS cont'd...

Elm Casebearer *Coleophora ulmifoliella*
 Elm Finger Gall Mite *Eriophyes filiformis*
 Elm Leaf Aphid *Myzocallis ulmifolii*
 Elm Leaf Beetle *Anthogaleruca luteola*
 Elm Leafminer *Fenusa ulmi*
 Eriophyid Mite *Phyllocoptes adaluis*
 Euonymus Scale *Unaspis euonymi*
 European Alder Leafminer *Fenusa dohrni*
 European Chafer *Amphimallon majalis*
 European Elm Scale *Gossyparia spuria*
 European Fruit Lecanium *Lecanium corni*
 European Hornet *Vespa crabo germana*
 European Peach Scale *Lecanium persicae*
 European Pine Sawfly *Neodiprion sertifer*
 European Pine Shoot Moth *Rhyacionia buoliana*
 European Red Mite *Panonychus ulmi*
 European Weevil *Sciaphilus asperatus*
 European Willow Gall Midge *Rhabdophaga salicis*
 Fall Cankerworm *Alsophila pometaria*
 Fall Webworm *Hyphantria cunea*
 False Spider Mite *Pentamerismus erythreus*
 False Unicorn Caterpillar *Schizura ipomaea*
 Flatheaded Apple Tree Borer *Chrysobothris femorata*
 Flatid Planthopper *Anormenis septentrionalis*
 Fletcher Scale *Lecanium fletcheri*
 Forbes Scale *Aspidiotus forbesi*
 Forest Tent Caterpillar *Malacosoma disstria*
 Fourlined Plant Bug *Poecilocapsis lineatus*
 Germander Crinkle Mite *Aculus teucrii*
 Giant Bark Aphid *Longistigma caryae*
 Giant Swallowtail *Papilio cressphontes*
 Giant Willow Aphid *Tuberolachnus salignus*
 Golden Oak Scale *Asterolecanium variolosum*
 Gouty Oak Gall Wasp *Plagiotrochus punctatus*
 Gouty Vein Gall Midge *Dasyneura communis*
 Grape Mealybug *Pseudococcus maritimus*
 Grape Phylloxera *Daktulosphaira vitifoliae*
 Grape Tomato Gall Midge *Lasioptera vitis*
 Grapevine Aphid *Aphis illinoisensis*
 Grapevine Beetle *Pelidnota punctata*
 Great Ash Sphinx *Sphinx chersis*
 Green Erineum Mite *Eriophyes modestus*
 Green Leaf Bug *Orthotylus chlorionis*
 Green Spruce Leafminer *Epinotia nanana*
 Greenstriped Mapleworm *Anisota rubicunda*

FOREST, SHADE TREES AND SHRUBS cont'd...

Gregarius Oak Leafminer Gracilaria syringella
 Gypsophila Leafminer Liriomyza sp.
 Gypsy Moth Lymantria dispar (L.)
 Hackberry Blister Ball Psyllid Pachypsylla celtidisvesicula
 Hackberry Nipplegall Maker Pachypsylla celtidismamma
 Hag Moth Phobetron pithecium
 Hawthorn Aphid Aphis crataegifoliae
 Hawthorn Lace Bug Corythuca cydoniae
 Hawthorn Leafminer Profenusa canadensis
 Helenium Snout Beetle Baris confinis
 Hemlock Looper Lambdina fiscellaria
 Hemlock Scale Abgrallaspis ithacae
 Hemlock Silver Mite Nalepella tsugifoliae
 Hibiscus Sawfly Atomacera decepta
 Hickory Gall Aphid Phylloxera carvaecaulis
 Hickory Horned Devil Citheronia regalis
 Hickory Seed Gall Aphid Phylloxera caryaesemen
 Hickory Tussock Moth Halisidota caryae
 Holly Leafminer Phytomyza ilicis
 Holly Mites Oligonychus ilicis
 Honeylocust Borer Agrilus difficilis
 Honeylocust Leafhopper Macropsis fumipennis
 Honeylocust Mite Eotetranychus multidigituli
 Honeylocust Plant Bug Diaphnocoris chlorionis
 Honeylocust Pod Gall Midge Dasyneura gleditschae
 Honeylocust Scale Chionaspis gleditschae
 Honeylocust Spider Mite Eurytetranychus multidigituli
 Honeylocust Stunt Mite Aculops gleditsiae
 Honeylocust Treehopper Micrutalus calva
 Honeylocust Twig Gall Midge Neolasioptera sp.
 Honeysuckle Aphid Hyadaphis tataricae
 Horned Oak Gall Wasp Plagiotrochus cornigerus
 Hybrid Yellowjacket Vespula flavopilosa
 Imported Cabbageworm Pieris rapae
 Imported Willow Leaf Beetle Plagiodera versicolora
 Inkberry Leafminer Phytomyza glabricola
 Introduced Pine Sawfly Diprion similis
 Io Moth Automerus io
 Ips Beetles Ips spp.
 Iris Borer Macronoctua onusta
 Ivorymarked Beetle Eburia quadrigeminata
 Ivy Aphid Aphis hederæ
 Ivy Scale Aspidiotus hederæ
 Japanese Beetle Popillia japonica
 Juniper Midge Contarinia juniperina

FOREST, SHADE TREES AND SHRUBS cont'd...

Juniper Scale Carulaspis juniperi
 Juniper Tip Midge Oligotrophus betheli
 Juniper Webworm Dichomeris marginella
 Larch Aphid Cinara laricis
 Larch Casebearer Coleophora laricella
 Larch Sawfly Pristiphora erichsonii
 Large Chestnut Weevil Curculio caryatrypes
 Larger Elm Leaf Beetle Monocesta coryli
 Larkspur Leafminer Phytomyza spp.
 Latania Scale Heimberlesia lataniae
 Leaf Crumpler Acrobasis indiginella
 Leafcurl Ash Aphid Prociphilus fravinifolii
 Leafcutter Bee Megachile sp.
 Leaf Hoppers Cyponana spp.
 Leafminer Phytomyza obscurella var. nigritella
 Leaf Roller Argyrotaenia guercifoliana
 Leaf Tier Tiascola reductella
 Lesser Peachtree Borer Synanthedon pictipes
 Light Brown Spruce Aphid Cinara engelmanniensis
 Lilac Borer Podosesia syringae
 Lilac Leafminer Caloptilia syringella
 Linden Aphid Eucallipterus tiliae
 Linden Erineum Mite Phytopus tiliae
 Linden Gall Mite Phytocoptella abnormis
 Linden Looper Erannis tiliaria
 Linden Wart Gall Cecidomyia verrucicola
 Locust Borer Megacyllene robiniae
 Locust Leafminer Odontota dorsalis
 Locust Twig Borer Ecdytolopha insiticiana
 Longhorned Beetle Neoclydalis mellita
 Luna Moth Actias luna
 Lupine Aphid Macrosiphum albifrons
 Magnolia Leafminer Phyllocnistis magnoliella
 Magnolia Scale Neolecanium cornuparvum
 Maple Bladdergall Mite Vasates quadripedes
 Maple Callus Borer Synanthedon acerni
 Maple Petiole Borer Caulocampus acericaulis
 Maple Rust Mite Cecidophyes collegiatus
 Maple Seed Caterpillar Proteoteras aesculana
 Maple Shoot Borer Prateoteras sp.
 Maple Spider Mite Oligonychus aceris
 Maple Spindle Gall Mite Eriophyes aceris-crumena
 Maple Trumpet Skeletonizer Epinotia aceriella
 Maple Whitefly Aleurochiton forbesii
 May Beetles Phyllophaga spp.

FOREST, SHADE TREES AND SHRUBS cont'd...

Marginal Fold Gall Maker Itonida foliora
 Meadow Spittlebug Philaenus spumarius
 Mealybugs Pseudococcus spp.
 Midges Oligotrophus apicis, Contariana juniperia
 Mimosa Webworm Homadaula anisocentra
 Mite Oligonychus bicolor
 Monell's Sumac Aphid Rhopalosiphum rhois
 Mottled Willow Borer Cryptorhynchus lapathi
 Mourningcloak Butterfly Nymphalis antiopa
 Mountain Ash Sawfly Pristiphora geniculata
 Mulberry Whitefly Tetraleurodes mori
 Nantucket Pine Tip Moth Rhyacionia frustrana
 Native Elm Bark Beetle Hylurgopinus rufipes
 Native Webworm Tlascala reductella
 Nesting Pine Sawfly Acantholyda luteomaculata
 Nodule Willow Gall Midge Rhabdophaga nodula
 Northern Corn Rootworm Diabrotica longicornis barberi
 Northern Pine Weevil Pissodes approximatus
 Norway Maple Aphid Periphyllus lyropictus
 Noxious Oak Gall Wasp Neuroterus noxiosus
 Oak Apple Gall Wasp Amphibolips sp.
 Oak Borer Paranthrene sp.
 Oak Button Gall Wasp Nueroterus umbilicatus
 Oak Bullet Gall Wasp Disholcaspis globulus
 Oak Flake Gall Wasp Neuroterus floccosus
 Oak Kermes Kermes sp.
 Oak Lace Bug Corythuca arcuata
 Oak Lecanium Lecanium quercifex
 Oak Petiole Gall Wasp Andricus sp.
 Oak Potato Gall Wasp Neuroterus batatus
 Oak Red Mite Oligonychus bicolor
 Oak Skeletonizer Buccalatrix canadensisella
 Oak Twig Girdler Agrilus arcautus
 Oak Twig Pruner Hypermallus villosus
 Oak Wool Sower Gall Callirhytis seminator
 Obscure Scale Melanaspis obscura
 Orange Striped Oakworm Anisota senatoria
 Oriental Fruit Moth Grapholitha molesta
 Osborn Scale Diaspidiotus osborni
 Oystershell Scale Lepidosaphes ulmi
 Painted Beauty Vanessa virginiensis
 Painted Hickory Borer Megacyllene caryae
 Painted Maple Aphid Drepanophis acerifoliae
 Pales Weevil Hylobius pales
 Palmerworm Dichomeris ligulella

FOREST, SHADE TREES AND SHRUBS cont'd...

Peachtree Borer Synanthedon exitiosa
 Pear Leaf Blister Mite Phytopus pyri
 Pear Psylla Psylla pyricola
 Pear Sawfly Caliroa cerasi
 Pear Slug Caliroa cerasi
 Pearlbush Gall Mite Phytopus sp.
 Pepper-and-Salt Moth Biston betularia congartaria
 Periodical Cicada Magicicada septendecim
 Persimmon Psylla Trioza diospyri
 Pin Oak Spider Mite Eotetranychus querci
 Pin Oak Sawfly Caliroa lineata
 Pine Bark Adelgid Pineus strobi
 Pine Candle Moth Exotelia nepheos
 Pine Engraver Ips pini
 Pine Leaf Adelgid Pineus pinifoliae
 Pine Needle Miner Exoteleia pinifoliella
 Pine Needle Scale Chionaspis pinifoliae
 Pine Root Collar Weevil Hylobius radialis
 Pine Rosette Mite Trisetacus gemmavivans
 Pine Sawfly Diprion frutetorum
 Pine Spittlebug Aphrophora parallela
 Pine Tortoise Scale Toumeyella parvicornis
 Pine Tube Moth Argyrotaenia pinatubana
 Pine Webworm Tetralopha robustella
 Pit Scale Lerococcus kalmiae
 Pitmaking Oak Scales Asterolecanium variolosum, A. minus, A. quercicola
 Pitch Mass Borer Synanthedon pini
 Pitch Pine Midge Retinodiplosis resinicola
 Pitch Pine Tip Moth Rhyacionia rigidana
 Pitch Twig Moth Petrova comstockiana
 Pith Twig Beetle Pityophthorus puberulus
 Polyphemus Antheraea polyphemus
 Poplar Borer Saperda calcarata
 Poplar and Willow Borer Cryptorhynchus lapathi
 Poplar Petiole Gall Aphid Pemphigus populitransversus
 Poplar Tentmaker Ichthyura inclusa
 Poplar Vagabond Aphid Mordvilkoja vagabunda
 Possum Haw Leafminer Phytomyza ditmani
 Potato Leafhopper Empoasca fabae
 Powdery Juniper Aphid Cinara pulverulans
 Privet Aphid Myzus ligustri
 Privet Mite Brevipalpus obovatus
 Privet Rust Mite Aculus ligustri
 Privet Thrips Dendothrips ornatus
 Psyllid Phyllopecta tripunctata

FOREST, SHADE TREES AND SHRUBS cont'd...

Putnam Scale Diaspidiotus ancyclus
 Pyralid Moth Salebria semiobscura
 Raspberry Red Mite Panonychus caglei
 Redbanded Leafhopper Erythroneura aclys
 Redbud Leaf Folder Fascista cercerisella
 Redbud Leafhopper Erythroneura aclys
 Reddish-brown Poplar Aphid Pterocomma populi-foliae
 Redheaded Ash Borer Neoclytus acuminatus
 Redheaded Flea Beetle Systema frontalis
 Redheaded Pine Sawfly Neodiprion lecontei
 Red Humped Caterpillar Schizura concinna
 Red Maple Erineum Mite Eriophyes major
 Rednecked Cane Borer Agrilus ruficollis
 Red Oak Borer Enaphalodes rufulus
 Red Oak Leafminer Japanagromyza viridula
 Rhododendron Aphid Amphorophora rhododendronia
 Rhododendron Borer Synanthedon rhododendri
 Rhododendron Lace Bug Stephanitis rhododendri
 Rose Aphid Macrosiphum rosae
 Rose Chafer Macrodactylus subspinosus
 Roseslug Endelomyia aethiops
 Rose Stem Girdler Agrilus aurichalceus
 Rosy Apple Aphid Dysaphis plantaginea
 Rough Bullet Gall Wasp Disholcaspis mamma
 Round Conifer Scale Acutapsis morrisonorum
 Roundheaded Apple Tree Borer Saperda candida
 Saddleback Caterpillar Sibine stimulea
 Saddled Leafhopper Collandonus clitellarius
 San Jose Scale Quadraspidiotus perniciosus
 Sawfly Macremphytus sp.
 Sawfly Trichiocampus viminalis
 Scale Phenacaspis spinicola
 Scale Insect Cryptophyllaspis liquidambaris
 Scurfy Scale Chionaspis furfura
 Shortleaf Pine Sawfly Neodiprion taeda linearis
 Shot Hole Borer Scolytus rugulosus
 Silver Maple Erineum Mite Eriophyes aceris
 Sinulate-striped Flea Beetle Phyllotreta zimmermanni
 Smaller European Elm Bark Beetle Scolytus multistriatus
 Smearred Dagger Moth Acronicta oblinita
 Snowball Aphid Neoceruaphis viburnicola
 Solitary Oak Leafminer Cameraria hamadryadella
 Sourgum Scale Phenacaspis nyssae
 Southern Pine Sawyer Monochamus carolinensis
 Southern Red Mite Oligonychus ilicis

FOREST, SHADE TREES AND SHRUBS cont'd...

Spiny Oakworm Anisota stigma
 Spirea Aphid Aphis spiricola
 Spirea Leaf Tier Evora hemidesma
 Spotted Pine Aphid Eulachnus agilus
 Spotted Tussock Moth Halisidota maculata
 Spotted Willow Leaf Beetle Lina interrupta
 Spring Cankerworm Paleacrita vernata
 Spruce Budworm Choristoneura fumiferana
 Spruce Bud Scale Physokermes piceae
 Spruce Needle Miner Endothenia albolineana
 Spruce Spider Mite Oligonychus ununguis
 Stalk Borer Papaipema nebris
 Strawberry Leafroller Ancyliis comptana fragariae
 Strawberry Root Aphid Aphis forbesi
 Strawberry Root Weevil Otiorhynchus ovatus
 Strawberry Rootworm Paria fragariae
 Strawberry Whitefly Trialeurodes packardi
 Striped Cucumber Beetle Acalymma vittata
 Succulent Oak Gall Wasp Andricus palustris
 Sugar Maple Blotch Miner Lithocolletis saccharella
 Sugar Maple Erineum Mite Eriophyes modestus
 Sweetgum Leafminer Phyllocnistis liquidambarisella
 Sweetgum Scale Diaspidiotus liquidambaris
 Sweetgum Webworm Salebria afflictella
 Sycamore Lace Bug Corythuca ciliata
 Sycamore Leafroller Anchylopera platanana
 Sycamore Tussock Moth Halisidota harrisi
 Tanbark Borer Phymtodes testaceus
 Tarnished Plant Bug Lygus lineolaris
 Taxus Mealybug Dysmicoccus wistariae
 Tentacled Prominent Cerura multiscrita
 Terrapin Scale Lecanium nigrofasciatum
 Tipdwarf Mite Calepitremerus thujae
 Thorn Cockscomb Gall Midge Trishormomyia crataegifolia
 Thorn Vein Gall Midge Lobopteromyia venae
 Townsendi's Scale Abgrallaspis townsendi
 Tulip Rust Mite Tetra liriodendronis
 Tulip Spot Gall Midge Thecodiplosis liriodendri
 Tuliptree Aphid Macrosiphum liriodendri
 Tuliptree Leafminer Phyllocnistis liriodendrella
 Tuliptree Scale Toumeyella liriodendri
 Tupelo Gall Mite Eriophyes nyssae
 Tupelo Leafminer Antispila nysaefoliella
 Twig Girdler Oncideres cingulata
 Twig Pruner Elaphidionoides villosus

FOREST, SHADE TREES AND SHRUBS cont'd...

Twolined Chestnut Borer *Agrilus bilineatus*
 Twomarked Treehopper *Enchenopa binotata*
 Twospotted Spider Mite *Tetranychus urticae*
 Twotailed Caterpillar *Cerura scolopendrina*
 Ugly Nest Caterpillar *Archips cerasivoranus*
 Unspotted Tentiform Leafminer *Callisto geminatella*
 Variegated Cutworm *Peridroma saucia*
 Vein Pocket Gall Maker *Itonida* sp.
 Vein Pocket Gall Midge *Cecidomyia* sp.
 Viburnum Aphid *Aphis viburniphila*
 Viburnum Shoot Sawfly *Janus bimaculatus*
 Viceroy *Limenitis archippus*
 Violet Tip Caterpillar *Polygonia interrogationis*
 Virginia Pine Sawfly *Neodiprion pratti pratti*
 Walnut Aphid *Chromaphis juplandicola*
 Walnut Caterpillar *Datana integerrima*
 Walnut Husk Maggot *Rhagoletis suavis*
 Walnut Lace Bug *Corythuca juglandis*
 Walnut Petiole Mite *Eriophyes caulis*
 Waterlily Leaf Cutter *Synlieta oblitalis*
 Weevil *Amblycerus robinae*
 White Apple Leafhopper *Typhlocyba pomaria*
 White Marked Tussock Moth *Hemerocampa leucostigma*
 White Oak Borer *Goes tigrinus*
 White Oak Spider Mite *Oligonychus propetes*
 White Peach Scale *Pseudaulacaspis pentagona*
 White Pine Aphid *Cinara strobi*
 White Pine Cone Beetle *Conophthorus coniperda*
 White Pine Sawfly *Neodiprion pinetum*
 White Pine Shoot Borer *Eucosma gloriola*
 White Pine Weevil *Pissodes strobi*
 Willow Aphid *Clavigenus smithiae*
 Willow Bead Gall Mite *Aculops tetanothrix*
 Willow Beaked Gall Midge *Mayetiola rigidae*
 Willow Cambium Miner *Marmara salictella*
 Willow Lace Bug *Corythuca mollicula*
 Willow Sawfly *Nematus ventralis*
 Willow Scurfy Scale *Chionaspis salicia-nigras*
 Winged Euonymus Scale *Lepidosaphes yanagicola*
 Witch-hazel Cone Gall Aphid *Hormaphis hamamelidis*
 Wool Sower Gall Wasp *Callirhytis seminator*
 Woolly Alder Aphid *Prociphilus tessellatus*
 Woolly Apple Aphid *Eriosoma lanigerum*
 Woolly Elm Aphid *Eriosoma americanum*
 Woolly Fold Gall Midge *Cecidomyia niveipila*

FOREST, SHADE TREES AND SHRUBS cont'd...

Woolly Hawthorn Aphid Eriosoma crataegi
 Woolly Larch Aphid Adelges laricis
 Woolly Oak Leaf Gall Andricus sp.
 Yellownecked Caterpillar Datana ministra
 Yellow Poplar Weevil or Sassafrass Weevil, Tuliptree Leafminer, Magnolia Snout
 Beetle Odontopus calceatus
 Yucca Moth Tegeticula yuccasella
 Yucca Plant Bug Halticotoma valida
 Zebra Caterpillar Ceramica picta
 Zimmerman Pine Moth Dioryctria zimmermani

TURFGRASS

Ants Lasius spp., Formica spp.
 Armyworm Pseudaletia unipuncta
 Asiatic Garden Beetle Maladera castanea
 Billbugs Calendar spp.
 Black Cutworm Agrotis ipsilon
 Black Turfgrass Ataenius Ataenius spretulus
 Bluegrass Webworm Parapediasia teterrella
 Bronze Cutworm Nephelodes emmedonis
 Chiggers Trombicula alfreddugesi
 Chinch Bug Blissus leucopterus
 Cicada Killer Sphecius speciosus
 Clover Mite Bryobia praetiosa
 Cornfield Ant Lasius alienus
 Cranberry Girgler Chysoteuchia toparia
 Cuckoo Wasp Neuroterus batatus
 European Chafer Amphimallon majalis
 Frit Fly Oscinella frit
 Great Golden Digger Sphex ichneumoneus
 Green June Beetle Cotinis nitida
 Green Metallic Bee Agapostemon virescens
 Greenbug Schizaphis graminum
 Hairy Chinch Bug Blissus leucopterus hirtus
 Japanese Beetle Popillia japonica
 June Beetle Phyllophaga spp.
 Larger Sod Webworm Pediasia trisecta
 May Beetle Phyllophaga spp.
 Millipedes Narceus sp.
 Mole Cricket Gryllotalpa hexadactyla
 Northern Masked Chafer Cyclocephala borealis
 Slugs Sciara sp.
 Southern Masked Chafee Cyclocephala immaculata

TURFGRASS cont'd...

Sowbug Porcellio scaber, P. laevis
 Spotted Cutworm Amathes c-nigrum
 Velvet Ant Dasymutilla occidentalis
 Winter Grain Mite Penthaleus major

FLOWERS

Armyworm Pseudaletia unipuncta
 Asiatic Garden Beetle Maladera castanea
 Black Blister Beetle Epicauta pennsylvanica
 Black Vine Weevil Otiorynchus sulcatus
 Buffalo Treehopper Stictocephala bubalus
 Bulb Mite Rhizoglyphus echinopus
 Bumble Flower Beetle Euphoria inda
 Cabbage Looper Trichoplusia ni
 Chrysanthemum Aphis Macrosiphoniella sanborni
 Chrysanthemum Leafminer Phytomyza atricornis
 Cicada Killer Sphecius speciosus
 Columbine Leafminer Phytomyza minuscula
 Corn Earworm Heliothis zea
 Cyclamen Mite Steneotarsonemus pallidus
 Diamondback Moth Plutella maculipennis
 Euonymus Scale Unaspis euonymi
 European Corn Borer Ostrinia nubilalis
 Field Cricket Gryllus spp.
 Flower Thrips Frankliniella tritici
 Fourlined Plant Bug Peocilocapsus lineatus
 Garden Fleahopper Halticus bracteatus
 Garden Symphylan Scutigera immaculata
 Gladiolus Thrips Taeniothrips simplex
 Grape Mealybug Pseudococcus maritimus
 Greenhouse Leaf-tier Udea rubigalis
 Green Peach Aphid Myzus persicae
 Green Stink Bug Acrosternum hilare
 Harlequin Bug Murgantia histrionica
 Hermit Flower Beetle Osmoderma eremicola
 Hollyhock Weevil Apion longirostre
 Imported Cabbageworm Pieris rapae
 Iris Borer Macronoctua onusta
 Japanese Beetle Popillia japonica
 Lace Bug Corythucha ciliata
 Leafhopper Empoasca fabae, Edwardisiana rosae, Macrosteles fascifrons
 Meadow Spittlebug Philaenus spumarius
 Melon Aphid Aphis gossypii

FLOWERS cont'd...

Negro Bug Corimelaena pulicaria
 Oystershell Scale Lepidosaphes ulmi
 Periodical Cicada Magicicada septendecim
 Phlox Midge Hyperdiplosis phlox
 Phlox Plant Bug Lopidea davisii
 Pigeon Tremex Tremex columba
 Potato Leafhopper Empoasca fabae
 Rose Aphid Macrosiphum rosae
 Rose Chafer Macroductylus subspinosus
 Rose Midge Dasineura rhodophaga
 Rose Slug Endelomyia aethiops
 Saddleback Caterpillar Sibine stimulea
 Serpentine Leafminer Liriomyza brassicae
 Soft Bodied Flower Beetle Anthocomus bipunctatus
 Soft Scale Coccus hesperidum
 Sowbug Oniscus asellus
 Spotted Cucumber Beetle Diabrotica undecimpunctata howardi
 Squash Bug Anasa tristis
 Stalk Borer Papaipema nebris
 Stink Bug Thyanta sp.
 Striped Cucumber Beetle Acalymma vittatum
 Tarnished Plant Bug Lygus lineolaris
 Tortoise Beetle Metritona bicolor
 Twospotted Spider Mite Tetranychus urticae
 Variegated Cutworm Peridroma saucia
 White Grubs Phyllophaga spp.
 Whitemarked Tussock Moth Hemerocampa leucostigma
 Yellow Rose Aphid Acyrtosiphon porosum
 Yellow Woollybear Caterpillar Diacrisia virginica
 Zebra Caterpillar Ceramica picta

STORED PRODUCTS

American Spider Beetle Mezium americanum
 Angoumois Grain Moth Sitotroga cerealella
 Australian Spider Beetle Ptinus ocellus
 Bean Weevil Acanthoscelides obtectus
 Black Carpet Beetle Attagenus megatoma
 Black Larder Beetle Dermestes ater
 Booklice Psocoptera, Liposcelis corrodens
 Brown Spider Beetle Ptinus clavipes
 Cadelle Tenebioides mauritanicus
 Carpet Moth Trichophaga tapetzella
 Carpet or Tapestry Moth Trichophaga tapetzella

STORED PRODUCTS cont'd...

Casemaking Clothes Moth Tinea pellionella
 Cigarette Beetle Lasioderma serricorne
 Clover Hayworm Hypsopygla costalis
 Confused Flour Beetle Tribolium confusum
 Dark Mealworm Tenebrio obscurus
 Depressed Flour Beetle Palorus subdepressus
 Drugstore Beetle Stegobium paniceum
 European Grain Moth Nemapogon granella
 Flat Grain Beetle Cryptolestes pusillus
 Foreign Grain Beetle Ahasverus advena
 Fungus Beetles Mycetophagus quadriguttatus
 Grain Mite Acarus siro
 Granary Weevil Sitophilus granarius
 Hairy Spider Beetle Ptinus villiger
 Hide Beetle Dermestes maculatus
 Indian Meal Moth Plodia interpunctella
 Khapra Beetle Trogoderma granarium
 Larder Beetle Dermestes lardarius
 Lesser Grain Borer Rhyzopertha dominica
 Lesser Mealworm Alphitobius diaperinus
 Meal Moth Pyralis farinalis
 Mediterranean Flour Moth Anagasta kuehniella
 Merchant Grain Beetle Oryzaephilus mercator
 Minute Brown Scavenger Beetle Lathridiidae
 Mite Tyrophagus putrescentiae
 Red Flour Beetle Tribolium castaneum
 Rice Weevil Sitophilus oryzae
 Sawtoothed Grain Beetle Oryzaephilus surinamensis
 Silken Fungus Beetle Cryptophagidae
 Silverfish Lepisma saccharima
 Smalleyed Flour Beetle Palorus ratzeburgi
 Spider Beetle Gibbium psylloides
 Squarenecked Grain Beetle Cathartus quadricollis
 Webbing Clothes Moth Tineolo bisselliella
 Whitemarked Spider Beetle Ptinus fur
 Yellow Mealworm Tenebrio molitor

HUMANS

Africanized Honey Bee Apis mellifera scutellata
 Baldfaced Hornet Dolichovespula maculata
 Bat Bug Cimex piloselleus, C. adjunctus
 Bat Tick Ophionyssus kelleyi
 Bed Bug Cimex lectularius

HUMANS cont'd...

Black Widow Spider Latrodectus mactans
 Black Fly Simulium spp.
 Bloodsucking Conenose Triatoma sanguisuga
 Body Recluse Louse Pediculus humanus humanus
 Brown Spider Loxosceles reclusa Loxosceles rufescens
 Brown Dog Tick Rhipicephalus sanguineus
 Buffalo Gnat Cnephia pecuarum
 Cat Flea Ctenocephalides felis
 Chigger Mites Eutrombicula splendens E. alfreddugesi
 Chimney Swift Bug Cimexopsis nyctalis
 Crab Louse Phthirus pubis
 Crab Spider Thomisidae
 Deer Flies Chrysops vittatus
 Dog Flea Ctenocephalides canis
 European Hornet Vespa crabro germana
 European Swallow Bug Oeciacus hirundinus
 Eye Gnats Hippelates spp.
 Giant Hornet Vespa crabro germana
 Head Louse Pediculus humanus capitis
 Honey Bee Apis mellifera
 Horse Flies Tabanus spp.
 Horsehair Worm Gordiaceae
 Housefly Musca domestica
 Human Flea Pulex irritans
 Hunting Spider Drassidae
 Io Moth Automeris io
 Masked Hunter Reduvius personatus
 Mosquitoes Aedes communis Aedes canadensis Mansonia perturbans
Culex pipiens Culex restuans Culex salinarius Culex tarsalis Culex
territans Culex erraticus; Aedes vexans Aedes stimulans Aedes dorsalis
Aedes triseriatus Aedes cinereus Aedes excrucians Aedes spenceri;
Culiseta inornata Culiseta morsitans; Uranotaenia sapphirina; Anopheles
punctipennis Anopheles quadrimaculatus; Psorophora confinnis;
Orthopodomyia signifera; Aedes albopictus
 Paper Wasp Polistes fuscatus pallipes
 Punkies Culicoides sp.
 Saddleback Caterpillar Sibine stimulea
 Swallow Bug Oeciacus vicarius
 Tick Ixodes cookei
 Yellowjacket Vespula vidua, Vespula germanica, Vespula vulgaris

HOUSEHOLD AND STRUCTURAL

Aerial Yellowjacket Dolichovespula arenaria

HOUSEHOLD AND STRUCTURAL cont'd...

American Cockroach Periplaneta americana
 Asiatic Oak Weevil Cyrtopistomus castaneus
 Australian Cockroach Periplaneta australasiae
 Beelike Flower Scarab Trichiotinus piger
 Black Carpet Beetle Attagenus piceus
 Black Carpenter Ant Camponotus pennsylvanicus
 Black Corsair Melanolestes picipes
 Black Vine Weevil Otiorhynchus sulcatus
 Black & Yellow Garden Spider Argiope aurantia
 Bloodsucking Conenose Arilus cristatus, Triatoma sanguisuga
 Blue Mud Dauber Chalybion californicum
 Booklice Liposcelis spp.
 Boxelder Bug Leptocoris trivittatus
 Brown Banded Cockroach Supella longipalpa
 Brown Spider Beetle Ptinus clavipes
 Camel Cricket Ceuthophilus maculatus
 Carpenter Ants Camponotus spp.
 Carpenter Bee Xylocopa virginica
 Casemaking Clothes Moth Tinea pellionella
 Centipede Scutigera coleoptrata
 Cheese Mite Tyrophagus casei
 Cheese Skipper Piophilina casei
 Chicken Mite Dermanyssus gallinae
 Cigarette Beetle Lasioderma serricorne
 Citronella Ant or Larger Yellow Ant Acanthomyops interjectus
 Click Beetle Aeolus mellitus
 Cluster Fly Pollenia rudis
 Clover Mite Bryobia praetiosa
 Common Carpet Beetle Anthrenus scrophulariae
 Common Millipede Narceus sp.
 Common Sowbug Oniscus asellus
 Crab Spider Misumenops sp.
 Crane Fly Tipula sp.
 Crazy Ant Paratrechina longicornis
 Daddy Longlegs Hadrobunuo maculosus
 Dobson Fly Corydalus cornutus
 Dogbane Beetle Chrysochus auratus
 Downy Leather Wing Podabrus tomentosus
 Drain Flies Psychodidae
 Drywood Termite Kaloterme sp.
 Drywood Termite Cryptoterme sp.
 Dust Mite Dermatophagoides farinae
 Dung Fly Scatophaga stercoraria
 Earthboring Dung Beetle Geotrupes splendidus
 Eastern Deathwatch Beetle Hadrobregmus carinatus

HOUSEHOLD AND STRUCTURAL cont'd...

Eastern Subterranean Termite Reticulitermes flavipes
 Eastern Yellowjacket Vespula maculifrons
 Elm Leaf Beetle Xanthogaleruca luteola
 European Earwig Forficula auricularia
 Eyed Click Beetle Alas oculatus
 Face Fly Musca autumnalis
 Field Cricket Gryllus pennsylvanicus
 Filter Fly Telmatoscopus albipunctatus
 Firebrat Thermobia domestica
 Fishing or Nursery Web Spider Dolomedes tenebrosus
 Follicle or Demodex Mite Demodex folliculorum
 Fourlined Silverfish Ctenolepisma quadriseriata
 Furniture Carpet Beetle Anthrenus flavipes
 Garden Spider Argiope aurantia
 German Cockroach Blattella germanica
 German Yellowjacket Paravespula germanica
 Giant Stag Beetle Lucanus elaphus
 Giant Water Bug Lethocerus griseus
 Goldnecked Carion Beetle Nicrophorus tomentosus
 Grain Mite Acarus siro
 Gray Silverfish Ctenolepisma longicaudata
 Greater Wax Moth Galleria mellonella
 Hairy Fungus Beetle Typhaea stercorea
 Handsome Fungus Beetle Mycetaea hicta
 Horntail Tremex columba
 House Centipede Scutigera coleoptrata
 House Cricket Acheta domestica
 House Dust Mite Dermatophagoides sp.
 Household Spider Chiricanthium mildei
 Humpbacked Fly Psychoda sp.
 Indian Meal Moth Plodia interpunctella
 Itch or Scabies Mite Sarcoptes scabiei hominis
 Japanese Weevil Calomycterus setarius
 Jumping Spider Phidippus audax
 Khapra Beetle Trogoderma granarium
 Larder Beetle Dermestes lardarius
 Large Milkweed Bug Oncopeltus fasciatus
 Larger Cabinet Beetle Trogoderma inclusum
 Larger Pale Trogiid Trogium pulsatorium
 Leaffooted Bug Leptoglossus clypealis
 Little Black Ant Monomorium minimum
 Mayflies Ephemeroptera
 Millipede Narceus sp.
 Moth Fly Psychoda alternata
 Mouse Mite Liponyssoides sanguineus

HOUSEHOLD AND STRUCTURAL cont'd...

Mud Dauber Sceliphron caementarium
 Nonbiting Midges Chironomus plumosus
 Northern Fowl Mite Ornithonyssus sylviarum
 Northern Widow Spider Latrodectus variolus
 Odorous House Ant Tapinoma sessile
 Oil Beetle Meloe laevis
 Old House Borer Hylotrupes bajulus
 Orb Weaver Spider Araneidae
 Oriental Cockroach Blatta orientalis
 Pavement Ant Tetramorium caespitum
 Pennsylvania Leather Wing Chauliognathus pennsylvanicus
 Pennsylvania Woods Roach Parcoblatta pennsylvanica
 Phantom Midges Chaoborus flavicans, Mochlonyx cinctipes
 Picnic Beetle Glischrochilus quadrisignatus
 Pillbug Armadillidium vulgare
 Pleasing Fungus Beetle Megalodacne heros
 Pomace Fly Drosophila melanogaster
 Powderpost Beetles Lyctus sp.
 Powderpost Termite Cryptotermes brevis
 Pseudoscorpions Larca granulata
 Psychod Fly Psychoda cinerea
 Red Carpenter Ant Camponotus ferrugineus
 Ringlegged Earwig Euborellia annulipes
 Rolled Winged Stonefly Leuctra sp.
 Rough Strawberry Root Weevil Otiorhynchus rugosostriatus
 Rustic Borer Xylotrechus colonus
 Sawtoothed Grain Beetle Oryzaephilus surinamensis
 Scarab Beetle Valgus montgomeryi
 Seed Bug Myodocha serripes
 Silverfish Lepisma saccharina
 Small Winter Stonefly Allocapni sp.
 Soft Tick Ornithodoros sp.
 Strawberry Root Weevil Otiorhynchus ovatus
 Straw Itch Mite Pyemotes tritici
 Subteranean Termite Reticulitermes flavipes
 Swamp Milkweed Leaf Beetle Labidomera clivicollis
 Thief Ant Solenopsis molesta
 Tropical Rat Mite Ornithonyssus bacoti
 Tumblebug Canthon laevis
 Varied Carpet Beetle Anthrenus verbasci
 Velvet Mites Trombidiidae
 Water Scavenger Beetle Hydrophilus triangularis
 Webbing Clothes Moth Tineola bisselliella
 Wharf Borer Nacerdes melanura
 Wolf Spider Lycosa sp.

HOUSEHOLD AND STRUCTURAL cont'd...

Wood Cockroach Parcoblatta pennsylvanica

DOMESTIC ANIMALS

Angora Goat Biting Louse Bovicola limbata
 American Dog Tick Dermacentor variabilis
 Bat Bug Cimex pilosellus
 Bed Bug Cimex lectularius
 Black Blow Fly Phormia regina
 Black Flies - Buffalo Gnat Simulium pecuarum
 Black Horse Fly Tabanus atratus
 Blue Bottle Fly Calliphora spp.
 Brown Dog Tick Rhipicephalus sanguineus
 Budgeriar Scaley Mite Knemidocoptes pilae
 Cat Biting Louse Felicola cati
 Cat Flea Ctenocephalides felis
 Cattle Biting Louse Bovicola bovis
 Chicken Body Louse Menacanthus stramineus
 Chicken Head Louse Cuclotogaster heterographus
 Chicken Mite Dermanyssus gallinae
 Common Cattle Grub Hypoderma lineatum
 Common Horse Bot Fly Gasterophilus intestinalis
 Deer Flies Chrysops parvulus C. niger
 Demodectic Mange Demodex canis
 Dog Flea Ctenocephalides canis
 Dog Sucking Louse Linognathus setosus
 Face Fly Musca autumnalis
 False Stable Fly Muscina stabulans
 Flesh Fly Sarcophaga spp.
 Giant Hornet Vespa crabro germana
 Goat Biting Louse Bovicola caprae
 Goat Sucking Louse Linognathus stenopsis
 Goose Louse Trinoton anserinum
 Greenbottle Fly Phaenicia sericata
 Hog Louse Haematopinus suis
 Horn Fly Haematobia irritans
 Horse Biting Louse Bovicola equi
 Horse Sucking Louse Haematopinus asini
 House Fly Musca domestica
 Itch Mites Sarcoptes scabiei
 Large Duck Louse Trenoton querquedulae
 Large Turkey Louse Chelopistes meleagridis
 Little House Fly Fannia canicularis
 Longnosed Cattle Louse Linognathus vituli

DOMESTIC ANIMALS cont'd...

Louse Fly Ocosta americana
 Northern Cattle Grub Hypoderma bovis
 Northern Fowl Mite Ornithonyssus sylviarum
 Rattailed Maggots Eristalis tenax
 Scaly Leg Mite Knemidokoptes mutans
 Secondary Screwworm Fly Callitroga macellaria
 Shaft Louse Menopan gallinae
 Sheep Biting Louse Bovicola ovis
 Sheep Bot Fly Oestrus ovis
 Sheep Ked Melophagus ovinus
 Sheep Scab Mite Psoroptes ovis
 Shortnosed Cattle Louse Haematopinus eurysternus
 Stable Fly Stomoxys calcitrans
 Striped Horse Fly Tabanus lineola, T. sulcifron, T. quinquevittatus
 Sucking Body Louse Haematopenus ovillus
 Sucking Food Louse Linognathus pedalis
 Throat Bot Fly Gasterophilus nasalis
 Tick Ixodes cookei
 Tropical Rat Mite Ornithonyssus bacoti

BENEFICIAL

Ambush Bugs Phymatidae
 Ant Lions Myrmeleontidae
 Big Eyed Bugs Geocoris spp.
 Black Lady Bird Beetle Stethorus punctum
 Blister Beetles Meloidae
 Braconid Wasps Braconidae
 Brown Lacewings Hemerobiidae
 Bumble Bee Bombus pennsylvanicus
 Cecidomyid Fly Aphidoletes meridionalis
 Chalcid Wasps Chalcidae or Chalcidoidae
 Checkered Beetles Cleridae
 Common Green Lacewing Chrysoperla carnea
 Convergent Lady Beetle Hippodamia convergens
 Cuckoo Wasp Chrysididae
 Damselbugs Nabis spp.
 Damselflies Odonata
 Dragon Flies Odonata
 Ensign Wasp Evaniidae
 Fifteen Spotted Lady Beetle Anatis quindecimpunctata
 Fiery Searcher Calosoma scrutator
 Fireflies Lampyridae
 Flesh Fly Sarcophaga haemorrhoidalis

BENEFICIAL cont'd...

Flower Bug Orius insidiosus
 Ground Beetle Carabidae
 Honey Bee Apis mellifera
 Ichneumon Wasps Ichneumonidae
 Lady Bird Beetles Coccinellidae
 Masked Hunter Reduvius personatus
 Minute Pirate Bug Anthocoridae
 Ninespotted Lady Beetle Hippodamia sinuata
 Paranthesis Lady Beetle Hippodamia parenthesis
 Parasitic Wasps Hymenoptera
 Phytoseiid Mites Phytoseiidae (used in Greenhouse IPM)
 Predator Mite Amblyseius fallacis
 Robber Flies Promachus vertebratus
 Rove Beetles Staphylinidae
 Soldier Beetles Cantharidae
 Spiders Araneida
 Spotted Lady Beetle Coleomegilla maculata
 Syrphid Flies Syrphidae
 Tachinid Flies Tachinidae
 Tarantula Spider Tarantula sp.
 Tiger Beetles Cicindelidae
 Twicestabbed Lady Beetle Chilocorus stigma
 Twospotted Lady Beetle Adalia bipunctata
 Wheel Bug Arilus cristatus
 Yellow Predator Mite Zetzellia male and Agistemus fleschneri

