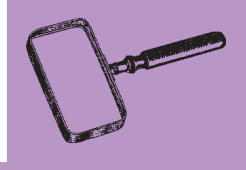


II. Supplemental Information



Host Plants and Associated Pests	13
Functional Ecology of How Pests Feed	16
Taxonomic Groups of Insects, Mites and Spiders	17



Host Plants and Associated Pests

Alder (*Alnus*)

aphids

Apple/flowering crabapple (*Malus*)

aphids
calico scale
cankerworms
clearwing borers
Eastern tent caterpillar
European fruit tree lecanium
European red mite
fall webworm
flatheaded appletree borer
gypsy moth
Japanese beetle
oystershell scale
roundheaded apple tree borer
scurfy scale
spider mites
whitemarked tussock moth
woolly apple aphid
yellownecked caterpillar

Arborvitae (*Arborvitae*)

arborvitae leafminer
bagworm
Fletcher scale
spruce spider mite

Ash (*Fraxinus*)

aphids
ash flower gall mite
ash plant bug
boxelder bug
brownheaded ash sawfly
cankerworm
clearwing borers
fall webworm
lace bugs
leafhoppers
oystershell scale

Azalea (*Rhododendron*)

azalea lace bug
black vine weevil
clearwing borers

Barberry (*Berberis*)

black vine weevil
strawberry root weevil

Beech (*Fagus*)

aphids
bagworm
cankerworms
obscure scale

oystershell scale
yellownecked caterpillar

Birch (*Betula*)

aphids
birch leafminer
bronze birch borer
clearwing borers
dusky birch sawfly
fall webworm
gypsy moth
Japanese beetle
oystershell scale

Bittersweet (*Celastrus*)

aphids
euonymus scale
tree hoppers

Black Locust (*Robinia*)

bagworm
locust borer
locust leaf miner
yellownecked caterpillar

Blueberry (*Vaccinium*)

black vine weevil

Boxelder (*Acer negundo*)

bagworm
black vine weevil
boxelder bug
fall webworm

Boxwood (*Buxus*)

boxwood spider mite
oystershell scale
strawberry root weevil

Buckeye (see Horsechestnut)

Catalpa (*Catalpa*)

Cedar (see Juniper)

Clematis (*Clematis*)

clearwing borers

Cotoneaster (*Cotoneaster*)

black vine weevil
European red mite
lace bugs
oystershell scale
pear sawfly
strawberry root weevil
twospotted spider mite

Currant (*Ribes*)

aphids
clearwing borers

Dogwood (*Cornus*)

calico scale
clearwing borers
dogwood sawfly
leafhoppers
oystershell scale
scurfy scale

Elm (*Ulmus*)

aphids
calico scale
elm borer
elm casebearer
elm leaf beetle
European elm bark beetle
European elm scale
European fruit tree lecanium
European red mite
flatheaded appletree borer
gypsy moth
Japanese beetle
leafhoppers
scurfy scale
twig pruner
twospotted spider mite
woolly apple aphid
woolly alder aphid
yellownecked caterpillar

Euonymus (*Euonymus*)

aphids
black vine weevil
euonymus scale
twospotted spider mite

Fir (*Abies*)

bagworm
balsam twig aphid
Pales weevil
spruce budworm
spruce spider mite

Flowering fruits (*Prunus*) (Cherry,

Peach, Plum, Almond)
aphids
cankerworms
clearwing borers
Eastern tent caterpillar
European fruit lecanium
European red mite
fall webworm
Japanese beetle
oystershell scale



Host Plants and Associated Pests (continued)

pear sawfly
twospotted spider mite
yellownecked caterpillar

Forsythia (*Forsythia*)
four-lined plant bug

Ground covers
black vine weevil
strawberry root weevil

Hackberry (*Celtis*)
hackberry nipple gall maker
lace bugs

Hawthorn (*Crataegus*)
aphids
European red mite
lace bugs
leafhoppers
twospotted spider mite
woolly apple aphid

Hazelnut (*Corylus*)
aphids
oystershell scale

Hemlock (*Tsuga*)
bagworm
hemlock rust mite
hemlock woolly adelgid
spruce spider mite

Hickory (*Carya*)
aphids
fall webworm
lace bugs
tuliptree scale
twig girdler
walnut caterpillar

Holly (*Ilex*)
spider mites

Honeylocust (*Gleditsia*)
aphids
flatheaded appletree borer
honeylocust plant bug
honeylocust spider mite
leafhoppers
mimosa webworm

Honeysuckle (*Lonicera*)
bagworm
honeysuckle witch's broom aphid
spruce spider mite

Horsechestnut (*Aesculus*)
bagworm
oystershell scale
whitemarked tussock moth

Hydrangea (*Hydrangea*)
aphids
spider mites

Ivy (*Parthenocissus*)
black vine weevil
Japanese beetle
leafhoppers
oystershell scale
strawberry root weevil

Japanese flowering quince
(*Chaenomeles*)
aphids

Juniper (*Juniperus*)
bagworm
Fletcher scale
juniper scale
spittlebugs

Laurel (*Kalmia*)
black vine weevil
clearwing borers

Lilac (*Syringa*)
clearwing borers
oystershell scale

Linden (*Tilia*)
aphids
cankerworms
cottony maple scale
fall webworm
flatheaded appletree borer
gypsy moth

Japanese beetle
lace bugs
spider mites
tuliptree scale

Magnolia (*Magnolia*)
tuliptree scale
twospotted spider mite

Maple (*Acer*)
aphids
boxelder bug
calico scale
cankerworms
cottony maple scale
flatheaded appletree borer

gloomy scale
Japanese beetle
leafhoppers
maple spindlegall mite
maple velvet erinieum gall
oystershell scale
yellownecked caterpillar

Mountainash (*Sorbus*)
European red mite
fall webworm
Japanese beetle
lace bugs
mountainash sawfly
woolly apple aphid

Ninebark (*Physocarpus*)
aphids

Oak (*Quercus*)
aphids
cankerworms
fall webworm
forest tent caterpillar
gypsy moth
lace bugs
oak cynipid galls
obscure scale
redhumped caterpillar
spider mites
twig girdler
twig pruner
twolined chestnut borer
yellownecked caterpillar

Pachysandra (*Pachysandra*)
euonymous scale

Persimmon (*Diospyros*)
fall webworm

Pine (*Pinus*)
aphids
bagworm
Eastern pine shoot borer
European pine sawfly
European pine shoot moth
gypsy moth
Pales weevil
pine bark adelgid
pine bark engraver
pine needle scale
pine root collar weevil
pine shoot beetle
pine tortoise scale
pine thrips



Host Plants and Associated Pests (continued)

redheaded pine sawfly
spittlebugs
spruce spider mite
white pine aphid
white pine sawfly
white pine weevil
whitespotted sawyer

Poplar (*Populus*)

cottonwood leaf beetle
fall webworm
gypsy moth
imported willow leaf beetle
Japanese beetle
oystershell scale
poplar-and-willow borer
poplar tentmaker

Privet (*Ligustrum*)

black vine weevil
clearwing borers
oystershell scale
strawberry root weevil

Purple leaf plum (*Prunus*)

clearwing borers
Japanese beetle

Pyracantha (*Pyracantha*)

bagworm
European red mite
spider mites

Redbud (*Cercis*)

leafhoppers
redhumped caterpillar
spider mites
tuliptree scale
whitemarked tussock moth

Rhododendron (*Rhododendron*)

black vine weevil
clearwing borers
lace bugs

Rose (*Rosa*)

aphids
Japanese beetle
sawflies
spider mites

Rose of sharon (*Hibiscus*)

aphids
four-lined plant bug
Japanese beetle
spider mites

Sassafras (*Sassafras*)

Japanese beetle

Spirea (*Spiraea*)

aphids

Spruce (*Picea*)

bagworms
balsam twig aphid
Cooley spruce gall adelgid
Eastern spruce gall adelgid
sawflies
smaller spruce bud scale
spruce budworm
spruce spider mite
white pine weevil

Sweetgum (*Liquidambar*)

bagworm
calico scale
Eastern tent caterpillar
fall webworm
gloomy scale

Sycamore / London planetree

(*Pseudoplatanus*)

aphids
fall webworm
flatheaded apple tree borer
Japanese beetle
lace bugs
whitemarked tussock moth

Taxus (see Yew)

Tuliptree (*Liriodendron*)

aphids
oystershell scale
tuliptree scale

Turf

Aphodius beetle
armyworm
armyworm, fall
black turfgrass Ataenius
bluegrass billbug
chinch bugs
cutworm, black
cutworm, bronzed
cutworm, variegated
false chinch bug
false Japanese beetle
greenbug
green June beetle
Japanese beetle
leafhoppers
May/June beetles

Northern masked chafer
Oriental beetle
sod webworms

Viburnum (*Viburnum*)

aphids
clearwing borers
spider mites

Walnut (*Juglans*)

aphids
fall webworm
Japanese beetle
lace bugs
oystershell scale
spider mites
tuliptree scale
walnut caterpillar

Willow (*Salix*)

aphids
cottonwood leaf beetle
fall webworm
gypsy moth
imported willow leaf beetle
oystershell scale
poplar-and-willow borer
poplar tentmaker
scurfy scale

Winged euonymus (*Euonymus*

alatus)
twospotted spider mite

Wisteria (*Wisteria*)

fall webworm
four-lined plant bug
spider mites

Witchhazel (*Hamamelis*)

Eastern tent caterpillar
yellownecked caterpillar

Yew (*Taxus*)

black vine weevil
Fletcher scale



Functional Ecology of How Pests Feed

Defoliators

Beetles

cottonwood leaf beetle
elm leaf beetle
imported willow leaf beetle
Japanese beetle

Weevils

black vine weevil
strawberry root weevil

Moths and Butterflies

armyworm (turf)
armyworm, fall (turf)
bagworm
cankerworms, spring and fall
cutworms, black, bronzed and
variegated (turf)
Eastern tent caterpillar
elm casebearer
fall webworm
forest tent caterpillar
gypsy moth
mimosa webworm
mourningcloak butterfly
poplar tentmaker
redhumped caterpillar
sod webworms (turf)
spruce budworm
ugly nest caterpillar
walnut caterpillar
whitemarked tussock moth
yellownecked caterpillar

Sawflies

brownheaded ash sawfly
dogwood sawfly
dusky birch sawfly
European pine sawfly
introduced pine sawfly
mountainash sawfly
pear sawfly
redheaded pine sawfly
white pine sawfly
yellowheaded spruce sawfly

Suckers

Leaves, Branches and Trunks

ash plant bug
azalea lace bug
balsam twig aphid
boxelder bug
chinch bugs (turf)
Cooley spruce gall adelgid
Eastern spruce gall adelgid
false chinch bug (turf)
fourlined plant bug

honeylocust plant bug
hemlock wooly adelgid
honeysuckle witches' broom aphid
lace bugs
leafhoppers
pine bark adelgid
pine thrips
planthopper
spittlebugs
treehoppers
white pine aphid
woolly alder aphid
woolly apple aphid

Mites (leaf vagrant mites, gall mites, eriophyid mites)

ash flower gall mite
elm eriophyid mites
eriophyid mites
hemlock rust mite
maple spindlegall mite
maple velvet erineum gall mite

Scales (soft)

calico scale
cottony maple scale
European fruit lecanium
Fletcher scale
pine tortoise scale
spruce bud scale
tuliptree scale

Scales (armored)

black pineleaf scale
euonymus scale
gloomy scale
juniper scale
obscure scale
oystershell scale
pine needle scale
scurfy scale and elm scurfy scale

Scales (kermesidae)

pubescent leaf kermes
pin oak kermes

Scales (felt)

European elm scale

Spider Mites (freeranging, tetranychid mites)

boxwood spider mite
clover mite
cyclamen mite (Tarsonemidae)
European red mite
honeylocust spider mite
spruce spider mite
twospotted spider mite

Galls

hackberry nipple gall maker
maple spindlegall mite
maple velvet erineum gall
oak cynipid galls

Borers

Moths

clearwing borers
Eastern pine shoot borer
European pine shoot moth
Zimmerman pine moth

Beetles

ambrosia bark beetles
Asian longhorned beetle
bronze birch borer
elm borer
emerald ash borer
smaller European elm bark beetle
flatheaded appletree borer
linden borer
locust borer
native elm bark beetle
pine bark engraver
pine shoot beetle
roundheaded appletree borer
twig girdler
twig pruner
twolined chestnut borer
whitespotted sawyer

Weevils

Pales weevil
pine root collar weevil
poplar-and-willow borer
white pine weevil

Miners

arborvitae leafminer
birch leafminer

Root Feeders

Aphodius beetle (turf)
black turfgrass Ataenius (turf)
black vine weevil
bluegrass billbug (turf)
false Japanese beetle (turf)
green June beetle (turf)
Japanese beetle (turf)
strawberry root weevil
May/June beetles (turf)
Northern masked chafer (turf)
Oriental beetle (turf)



Taxonomic Groups of Insects, Mites and Spiders

Pests of trees and shrubs

Class Arachnida, Spiders and mites

Order Acari, Mites and ticks

Family Eriophyidae, Leaf vagrant, gall, erineae, rust, or eriophyid mites

ash flower gall mite, *Aceria fraxiniflora*
elm eriophyid mite, *Aceria parulmi*
eriophyid mites, several species
hemlock rust mite, *Nalepella tsugifoliae*
maple spindlegall mite, *Vasates aceriscrumena*
maple velvet erineum gall, several species

Family Tarsonemidae, Cyclamen and tarsonemid mites

cyclamen mite, *Phytonemus pallidus*

Family Tetranychidae, Freeranging, spider mites, tetranychid mites

boxwood spider mite, *Eurytetranychus buxi*
clover mite, *Bryobia praetiosa*
European red mite, *Panonychus ulmi*
honeylocust spider mite, *Eotetranychus multidigituli*
spruce spider mite, *Oligonychus ununguis*
twospotted spider mite, *Tetranychus urticae*

Class Insecta, Insects

Order Coleoptera, Beetles

Family Buprestidae, Metallic woodboring beetles

bronze birch borer, *Agrilus anxius*
emerald ash borer, *Agrilus planipennis*
flatheaded appletree borer, *Chrysobothris femorata*
twolined chestnut borer, *Agrilus bilineatus*

Family Cerambycidae, Longhorned beetles

Asian longhorned beetle, *Anoplophora glabripennis*
elm borer, *Saperda tridentata*
linden borer, *Saperda vestita*
locust borer, *Megacyllene robiniae*
roundheaded appletree borer, *Saperda candida*
twig girdler, *Oncideres cingulata*
twig pruner, *Anelaphus villosus*
whitespotted sawyer, *Monochamus scutellatus*

Family Chrysomelidae, Leaf beetles

cottonwood leaf beetle, *Chrysomela scripta*
elm leaf beetle, *Pyrrhalta luteola*
imported willow leaf beetle, *Plagiodera versicolora*

Family Curculionidae, Snout beetles or weevils

black vine weevil, *Otiorhynchus sulcatus*
Pales weevil, *Hylobius pales*
pine root collar weevil, *Hylobius radialis*
poplar-and-willow borer, *Cryptorhynchus lapathi*
strawberry root weevil, *Otiorhynchus ovatus*
white pine weevil, *Pissodes strobi*

Family Scarabaeidae, Scarab beetles

Japanese beetle, *Popillia japonica*

Family Scolytidae, Bark or engraver beetles

ambrosia bark beetle, *Xylosandrus germanus*

elm bark beetle, smaller European *Scolytus multistriatus*
elm bark beetle, native *Hylurgopinus rufipes*
pine bark engraver, *Ips pini*
pine shoot beetle, *Tomicus piniperda*

Order Hemiptera, True bugs, aphids, and scales

Family Adelgidae, Pine and spruce aphids

Cooley spruce gall adelgid, *Adelges cooleyi*
Eastern spruce gall adelgid, *Adelges abietis*
hemlock woolly adelgid, *Adelges tsugae*
pine bark adelgid, *Pineus strobi*

Family Aphididae, Aphids

balsam twig aphid, *Mindarus abietinus*
honeysuckle witches' broom aphid, *Hyadaphis tataricae*
white pine aphid, *Cinara strobi*
woolly alder aphid, *Paraprociophilus tessellatus*
woolly apple aphid, *Eriosoma lanigerum*

Family Cercopidae, Froghoppers or spittlebugs

spittlebugs, several species

Family Cicadellidae, Leafhoppers

leafhoppers, several species

Family Coccidae, Soft, wax and tortoise scales

calico scale, *Eulecanium cerasorum*
cottony maple scale, *Pulvinaria innumerabilis*
European fruit lecanium scale, *Parthenolecanium corni*
Fletcher scale, *Parthenolecanium fletcheri*
pine tortoise scale, *Toumeyella parvicornis*
smaller spruce bud scale, *Physokermes hemicryphus*
tuliptree scale, *Toumeyella liriiodendri*

Family Diaspididae, Armored scales

black pineleaf scale, *Nuculaspis californica*
euonymus scale, *Unaspis euonymi*
gloomy scale, *Melanaspis tenebricosa*
juniper scale, *Carulaspis juniperi*
obscure scale, *Melanaspis obscura*
oystershell scale, *Lepidosaphes ulmi*
pine needle scale, *Chionaspis pinifoliae*
scurfy scale, *Chionaspis furfura*
scurfy scale, elm, *Chionaspis americana*

Family Eriococcidae, felt scales

European elm scale, *Gossyparia spuria*

Family Flattidae, planthoppers

planthoppers, several species

Family Kermesidae, Gall-like scales

pin oak kermes, *Allokermes galliformis*
pubescent leaf kermes, *Nanokermes pubescens*

Family Miridae, Plant bugs

ash plant bug, *Tropidosteptes amoenus*
fourlined plant bug, *Poecilocapsus lineatus*
honeylocust plant bug, *Diaphnocoris chlorionis*

Family Membracidae, Treehoppers

treehoppers, several species



Taxonomic Groups of Insects, Mites and Spiders (continued)

Family Psyllidae, Jumping plantlice or psyllids
hackberry nipple gall maker, *Pachypsylla celtidismamma*

Family Rhopalidae, Scentless plant bugs
boxelder bug, *Boisea trivittatus*

Family Tingidae, Lace bugs
azalea lace bug, *Stephanitis pyrioides*
lace bugs, several species

Order Hymenoptera, Sawflies, parasitic hymenoptera, ants, wasps and bees

Family Cynipidae, Gall wasps
oak cynipid galls, several species

Family Diprionidae, Conifer sawflies
European pine sawfly, *Neodiprion sertifer*
introduced pine sawfly, *Diprion similis*
redheaded pine sawfly, *Neodiprion lecontei*
sawflies, several species
white pine sawfly, *Neodiprion pinetum*

Family Tenthredinidae, Common sawflies
birch leafminer, *Fenusa pusilla*
brownheaded ash sawfly, *Tomostethus multicolor*
dogwood sawfly, *Macremphytus tarsatus*
dusky birch sawfly, *Croesus latitarsus*
mountainash sawfly, *Pristiphora geniculata*
pear sawfly, *Caliroa cerasi*
yellowheaded spruce sawfly, *Pikonema alaskensis*

Order Lepidoptera, Butterflies and moths

Family Arctiidae, Tiger or footman moths
fall webworm, *Hyphantria cunea*

Family Argyresthiidae, Ermine moths
arborvitae leafminer, *Arbyresthia thuiella*

Family Coleophoridae, Casebearers
elm casebearer, *Coleophora ulmifoliella*

Family Galacticidae, Webworms
mimosa webworm, *Homadaula anisocentra*

Family Geometridae, Measuring worms or geometers
cankerworms, fall, *Alsophila pometaria*
cankerworms, spring, *Paleacrita vernata*

Family Lasiocampidae, Tent caterpillars
Eastern tent caterpillar, *Malacosoma americanum*
forest tent caterpillar, *Malacosoma disstria*

Family Lymantriidae, Tussock and gypsy moths
gypsy moth, *Lymantria dispar*
whitemarked tussock moth, *Orgyia leucostigma*

Family Notodontidae, Prominents
poplar tentmaker, *Clostera inclusa*
redhumped caterpillar, *Schizura concinna*
walnut caterpillar, *Datana integerrima*
yellownecked caterpillar, *Datana ministra*

Family Nymphalidae, Brush-footed butterflies
mourningcloak butterfly, *Nymphalis antiopa*

Family Psychidae, Bagworm moths
bagworm, *Thyridopteryx ephemeraeformis*

Family Pyralidae, Pyralid moths
Zimmerman pine moth, *Dioryctria zimmermani*

Family Sesiidae, Clear-winged moths
clearwing borers, several species

Family Tortricidae, Tortricid moths
Eastern pine shoot borer, *Eucosma gloriola*
European pine shoot moth, *Rhyacionia buoliana*
spruce budworm, *Choristoneura fumiferana*
uglynest caterpillar, *Archips cerasivorana*

Order Thysanoptera, Thrips

Family Phlaeothripidae, Phlaeothripid moths
pine thrips, *Gnophothrips* species

Insects feeding on turf

Class Insecta, Insects

Order Coleoptera, Beetles, weevils

Family Curculionidae, Snout beetles or weevils
bluegrass billbug, *Sphenophorus parvulus*

Family Scarabaeidae, Scarab beetles
Aphodius beetle, *Aphodius granarius*
black turfgrass Ataenius, *Ataenius spretulus*
false Japanese beetle, *Strigoderma arbicola*
green June beetle, *Cotinis nitida*
Japanese beetle, *Popillia japonica*
May/June beetles, *Phyllophaga* species
Northern masked chafer, *Cyclocephala borealis*
Oriental beetle, *Anomala orientalis*
white grubs, several species

Order Hemiptera, True bugs, aphids, and scales

Family Aphididae, Aphids
greenbug, *Schizaphis graminm*

Family Cicadellidae, Leafhoppers
leafhoppers, several species

Family Lygaeidae, Bigeyed bugs
chinch bugs, *Blissus species*
false chinch bug, *Nysius raphanus*

Order Lepidoptera, Butterflies and moths

Family Noctuidae, Noctuid moths
armyworm, *Pseudaletia unipuncta*
armyworm, fall, *Spodoptera frugiperda*
cutworm, black, *Agrotis ipsilon*
cutworm, bronzed, *Nephelodes mimians*
cutworm, variegated, *Peridroma saucia*
sod webworms, *Crambus* and *Parapediasia* species

Beneficial insects, mites and spiders

Class Arachnida, Spiders and mites

Order Acari, Mites and ticks

Family Phytoseiidae, Predatory mites
phytoseiid mites, *Phytoseiulus* species



Taxonomic Groups of Insects, Mites and Spiders (continued)

Order Araneae, Spiders

Several families

spider, several species

Class Insecta, Insects

Order Coleoptera, Beetles

Family Cantharidae, Soldier beetles

soldier beetle, *Chaliognathus pennsylvanicus*

Family Carabidae, Ground beetles

caterpillar hunter, *Calosoma sycophanta*

Family Cicindelidae, Tiger beetles

tiger beetle, several species

Family Coccinellidae, Lady beetles

convergent lady beetle, *Hippodamia convergens*
mealybug destroyer, *Cryptolaemus montrouzieri*
multicolored Asian lady beetle, *Harmonia axyridis*
pink, or twelve-spotted, lady beetle,
Coleomegilla maculata
spider mite destroyer, *Stethorus punctum picipes*
twicestabbed lady beetle, *Chilocorus stigma*
two-spotted lady beetle, *Adalia bipunctata*

Order Diptera, Flies, gnats, midges, tachinids

Family Asilidae, Robber flies

robber fly, several species

Family Cecidomyiidae, Gall and predatory midges

predaceous midge, *Aphidoletes aphidimyza*

Family Syrphidae, Syrphid or hover flies

hover flies, several species

Family Tachinidae, Tachinid flies

tachinid fly, several species

Order Hemiptera, True bugs

Family Anthracoridae, Pirate bugs

insidious flower bug, *Orius insidiosus*

Family Lygaeidae, Bigeyed bugs

bigeyed bug, *Geocoris* species

Family Miridae, Plant or leaf bugs

plant bug, *Deraeocoris nebulosus*

Family Pentatomidae, Stink bugs

spined soldier bug, *Podisus maculiventris*
two-spotted stink bug, *Perillus bioculatus*

Family Reduviidae, Assassin bugs

adult assassin bug, several species
wheel bug, *Arilus cristatus*

Order Hymenoptera, Parasitic wasps, wasps, ants, and bees

Family Aphelinidae, Aphelinid wasps

whitefly parasitoid, *Encarsia formosa*

Family Braconidae, Braconid wasps

braconid wasp, several species
gypsy moth parasitoid, *Cotesia melanoscela*
imported cabbageworm parasitoid, *Cotesia glomerata*
tomato hornworm parasitoid, *Cotesia congregata*

Family Chalcididae, Chalcidid wasps or gall wasps
chalcidid wasp, several species

Family Encyrtidae, Encyrtid wasps
soft scale parasitoid, *Encyrtus fuscus*

Family Ichneumonidae, Ichneumonid wasps
ichneumonid wasp, several species

Family Scelionidae, Scelionid wasps
scelionid wasp, several species

Family Trichogrammatidae, Trichogrammid wasps

Family Vespidae, Wasps
paper wasp, *Polistes* species
potter wasp, several species
yellow jacket, *Vespula* species

Order Neuroptera, Lacewings, mantids, and others

Family Chrysopidae, Green or common lacewings
common green lacewing, *Chrysoperla carnea*

Family Hemerobiidae, Brown lacewings
brown lacewing, several species

Family Mantispidae, Mantidflies
mantidfly, several species

Order Thysanoptera, Thrips

Family Aleoarthropidae, Predatory thrips

Family Phlaeothripidae, Predatory thrips
thrips, several species