



Pests of Turf

<i>Aphodius</i> beetle	<i>Aphodius granarius</i>
armyworm	<i>Pseudaletia unipunctata</i>
armyworm, fall	<i>Spodoptera frugiperda</i>
black turfgrass <i>Ataenius</i>	<i>Ataenius spretulus</i>
bluegrass billbug	<i>Sphenophorus parvulus</i>
chinch bugs	<i>Blissus</i> species
cutworm, black	<i>Agrotis ipsilon</i>
cutworm, bronzed	<i>Nephelodes minians</i>
cutworm, variegated	<i>Peridroma saucia</i>
false chinch bug	<i>Nysius raphanus</i>
false Japanese beetle	<i>Strigoderma arvicola</i>
green June beetle	<i>Cotinis nitida</i>
greenbug	<i>Schizaphis graminum</i>
Japanese beetle	<i>Popillia japonica</i>
leafhoppers	several species
May/June beetles	<i>Phyllophaga</i> species
Northern masked chafer	<i>Cyclocephala borealis</i>
Oriental beetle	<i>Anomala orientalis</i>
sod webworms	<i>Crambus</i> and <i>Parapdiasia</i> species



Beneficial Insects, Mites and Spiders

Class Arachnida, Spiders and mites

Order Acari, Mites and ticks

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

Order Araneae, Spiders

Several families
spiders, many 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 picipes*
twicestabbed lady beetle, *Chilocorus stigma*
two-spotted lady beetle, *Adalia bipunctata*

Order Diptera, Flies, gnats, midges, and others

Family Asilidae, Robber flies
robber flies, several species

Family Cecidomyiidae, Gall and predatory midges
predaceous midge, *Aphidoletes aphidimyza*

Family Syrphidae, Syrphid, hover, or flower flies
hover flies, several species





Beneficial Insects, Mites and Spiders (continued)



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
pirate 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
yellowjacket, several 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