

Photographic Guide to the Common Insects Observed in Madison County, IL, and Adjacent Environs including Prairies, Ponds, Streams, and Oak Hickory Climax Forest

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INTRODUCTION

The following photographs are of common insects associated with local prairies and ponds of Madison County, Illinois. All photographs are of insects found in local habitats. In particular, the Heartland Prairie in Alton, IL, The Nature Institute Sanctuary and Preserve in Godfrey, IL, Lewis and Clark Community College campus, also in Godfrey, and the Riverlands Migratory Bird Sanctuary in West Alton, MO, were major sites for photographing the images included in this guide. Although many insects appear in the spring, there are those that appear only during late summer and fall along with numerous species of Goldenrod and Aster that bloom during that period. This guide will cover the more common insect orders found locally and although it presents a good representation of local species it does not represent all species occurring in the varied habitats found in the study area. For those individuals interested in more natural history information on the species included here, there are numerous resources available including field guides and internet sites, especially USDA websites and those supported by state departments of agriculture and natural history and state universities and colleges with programs in entomology, insect pest control, agriculture and horticulture. Over 1,000 species are included in this guide.

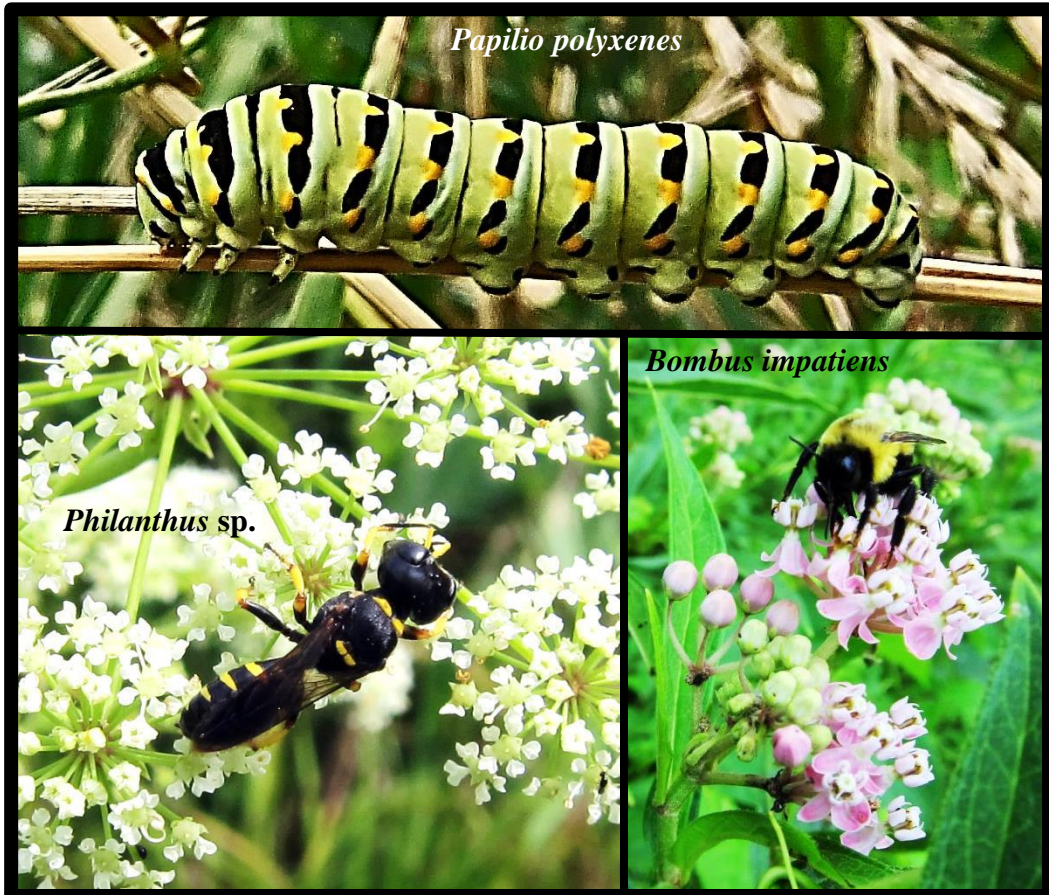


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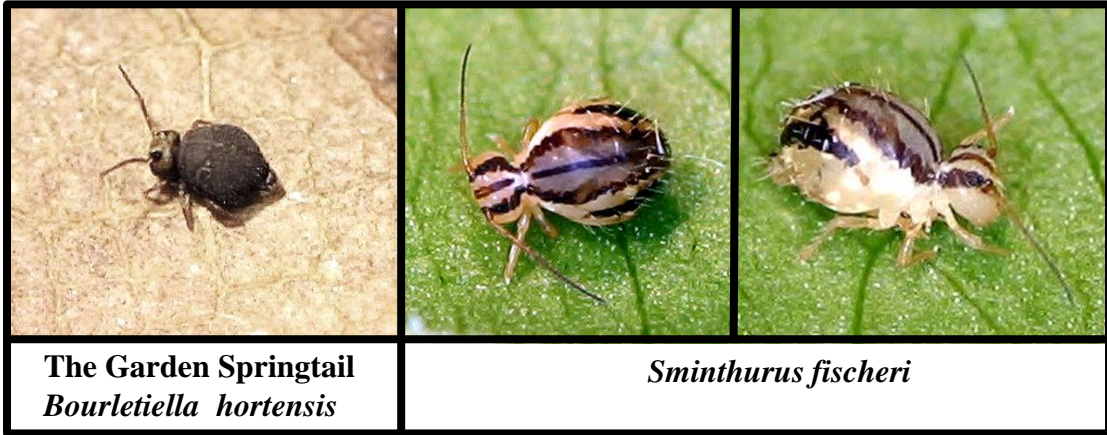


Milesia virginiensis

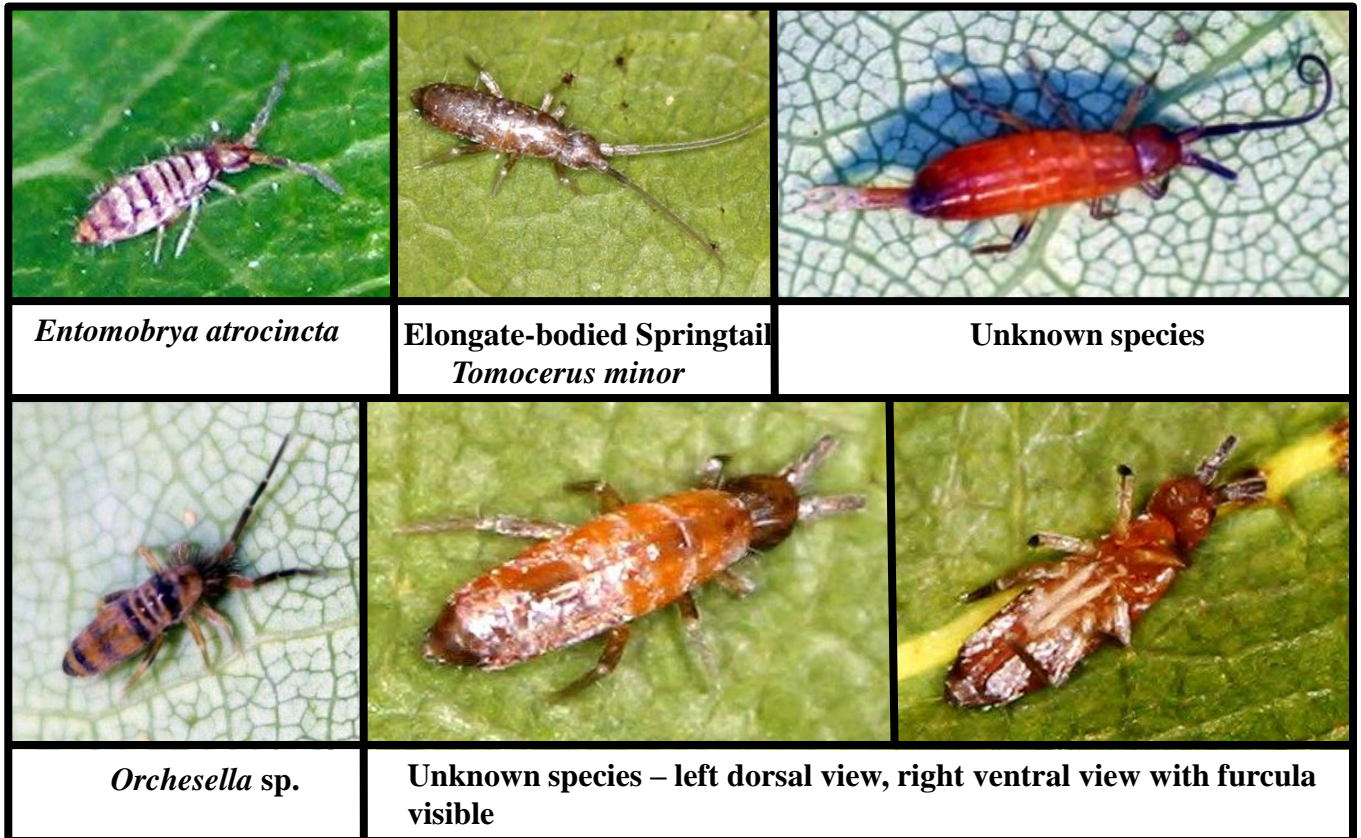
Class Insecta

Order Collembola – Springtails

Family Sminthuridae – Globular Springtails



Family Entomobryidae - Slender Springtails





Hexagenia limbata

Order Thysanura - Silverfish and Firebrats
Family Lepismatidae - Silverfish and Firebrats



Firebrat, *Thermobia domestica*

Order Ephemeroptera – Mayflies
Family Baetidae – Small Minnow Mayflies



Proclotron bifidum

Proclotron rivulare nymphs

Family Heptageniidae – Flatheaded Mayflies



Maccaffertium modestum

Stenonema femoratum nymphs



Epeorus pleuralis

Family Caenidae - Small Squaregill Mayflies



Nymphs of the Mayfly genus *Caenis* (Angler's Curses)

Family Ephemeridae – Common Burrowing Mayflies



Hexagenia limbata male

Hexagenia limbata female



Hexagenia bilineata - Note paired penes and claspers at tip of abdomen in the male at right are absent in the female at left.



Pachydiplax longipennis

Order Odonata – Dragonflies and Damselflies

Suborder Anisoptera – Dragonflies

Family Aeshnidae - Darners

COMMON GREEN DARNER

Anax junius (Drury)



SWAMP DARNER

Epiaeschna heros (Fabricius)



CYRANO DARNER
Nasiaeschna pentacantha



Family Gomphidae - Clubtails

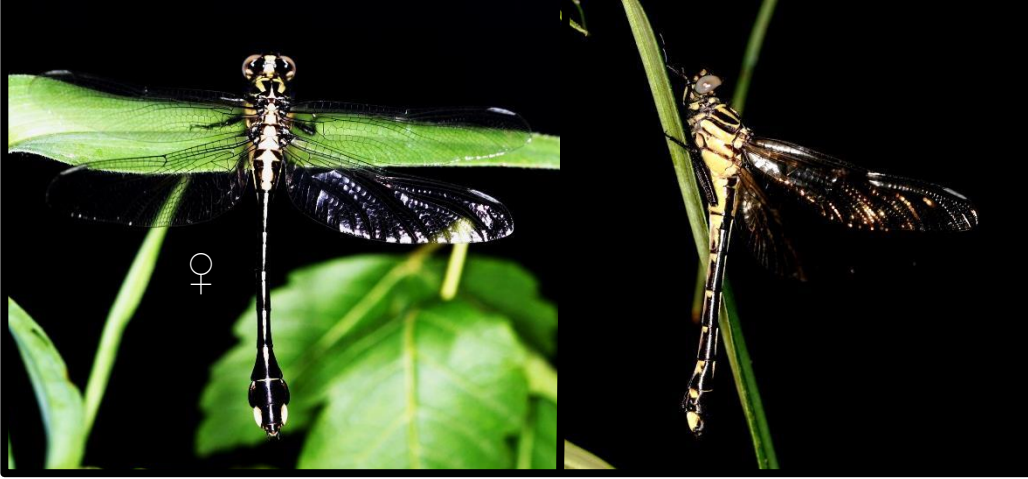
JADE CLUBTAIL
Argiogomphus submedianus (Williamson)



FLAG-TAILED SPINYLEG
Dromogomphus spoliatus (Hagen) in Selys



COBRA CLUBTAIL
Gomphus (Gomphurus) vastus Walsh



PLAINS CLUBTAIL
Gomphus (Gomphurus) externus Hagen



COMMON SANDDRAGON
Progomphus obscurus (Rambur)



Family Libellulidae - Skimmers

ROYAL RIVER CRUISER
Macromia taeniolata Rambur



SLATY BLUE
Libellula incesta



RUBY MEADOWHAWK
Sympetrum rubicundulum (Say)



VARIEGATED MEADOWHAWK

Sympetrum corruptum (Hagen)



BLUE DASHER

Pachydiplax longipennis (Burmeister)



EASTERN PONDHAWK

Erythemis simplicicollis (Say)



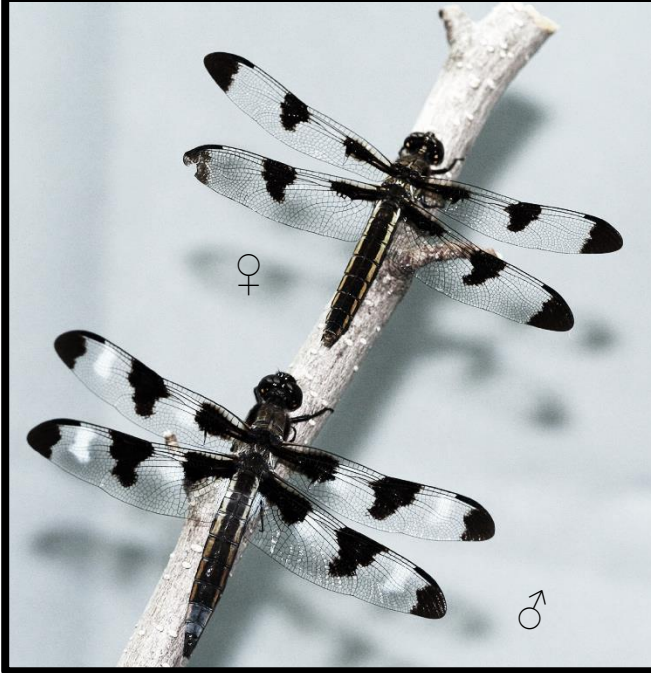
WIDOW SKIMMER
Libellula luctuosa Burmeister



COMMON WHITETAIL
Plathemis (Libellula) lydia (Drury)



TWELVE-SPOTTED SKIMMER
Libellula pulchella Drury



RED SADDLEBAGS
Tramea onusta Hagen



DOT-TAILED WHITEFACE
Leucorrhinia intacta (Hagen)



BLACK SADDLEBAGS
Tramea lacerata Hagen



PRINCE BASKETTAIL
Epitheca (Epicordulia) princeps (Hagen)



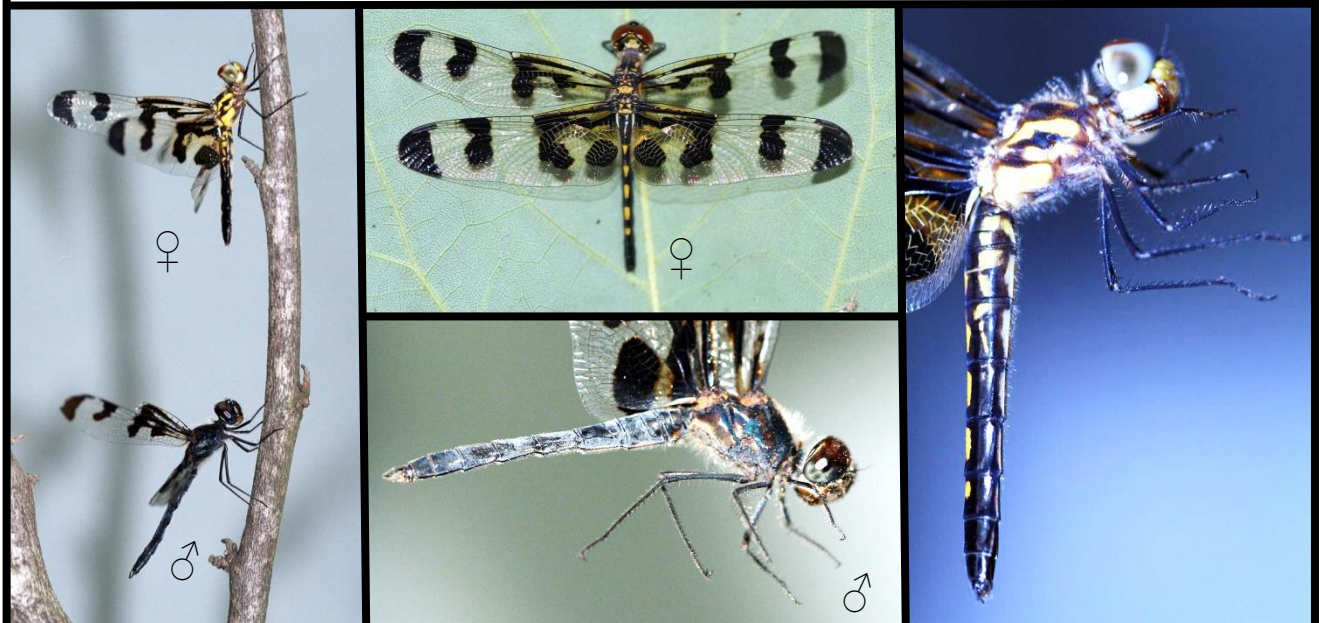
EASTERN AMBERWING
Perithemis tenera (Say)



HALLOWEEN PENNANT
Celithemis eponina (Drury)



BANDED PENNANT
Celithemis fasciata Kirby

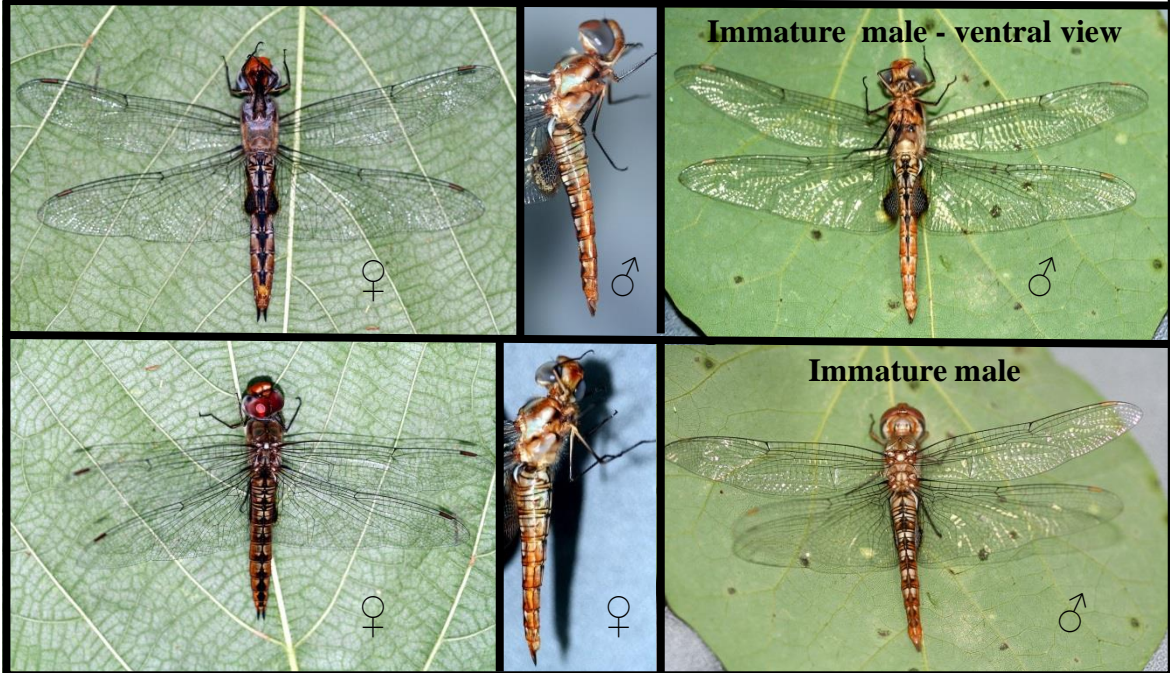


Subfamily Libellulinae

WANDERING GLIDER *Pantala flavescens* (Fabricius)



SPOT-WINGED GLIDER *Pantala hymenaea* (Say)



Family Corduliinae – Emeralds

MOCHA EMERALD
Somatochlora linearis (Hagen)



Suborder Zygoptera – Damselflies Family Calopterygidae – Common Damselflies

EBONY JEWELWING
Calopteryx maculata (Beauvois)

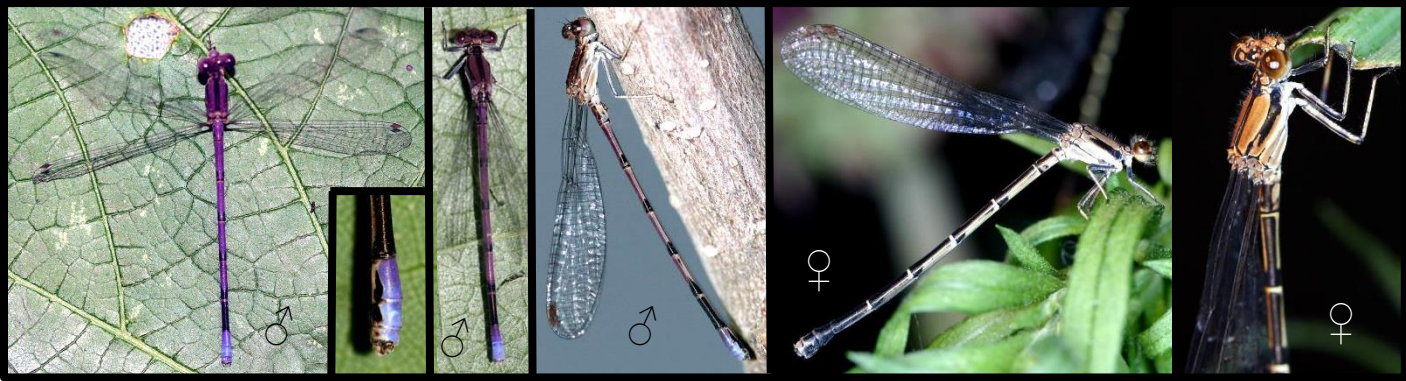


Family Coenagrionidae - Dancers

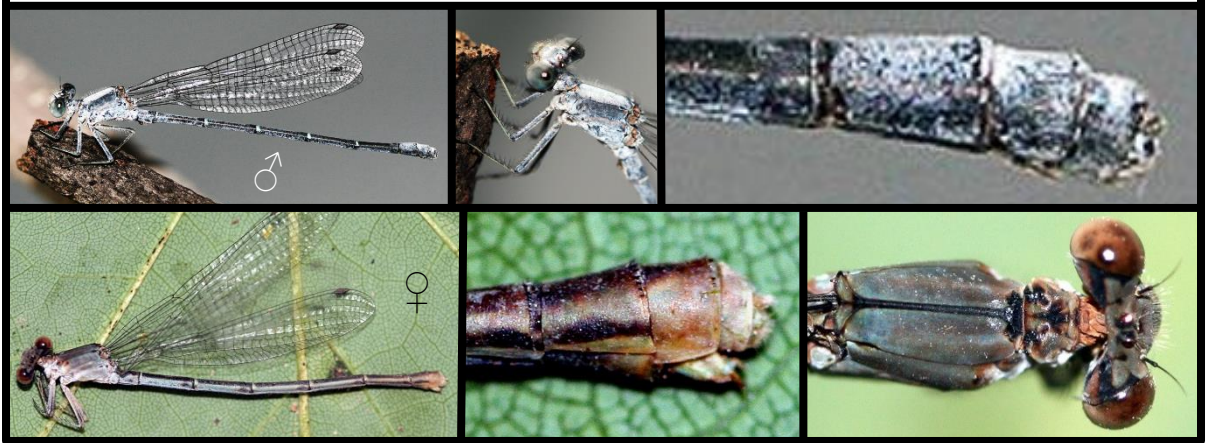
BLUE-FRONTED DANCER
Argia apicalis (Say)



VIOLET DANCER
Argia fumipennis violacea (Burmeister)



POWDERED DANCER
Argia moesta (Hagen)



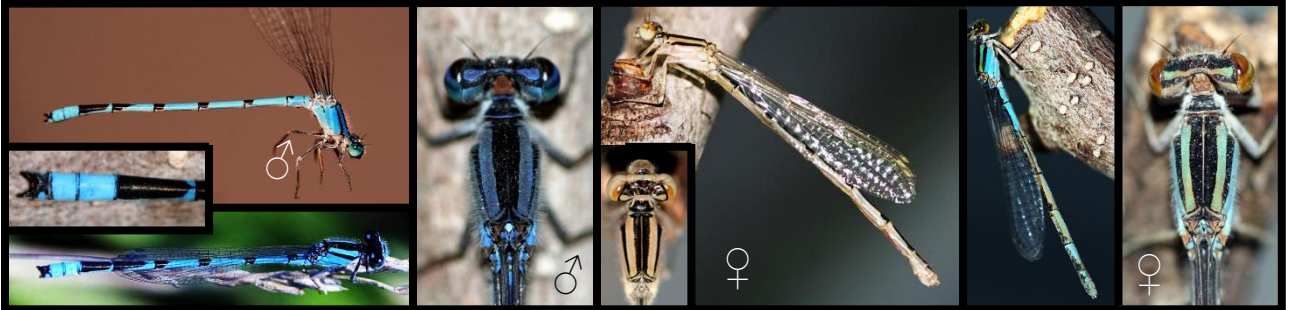
BLUE-TIPPED DANCER
Argia tibialis (Rambur)



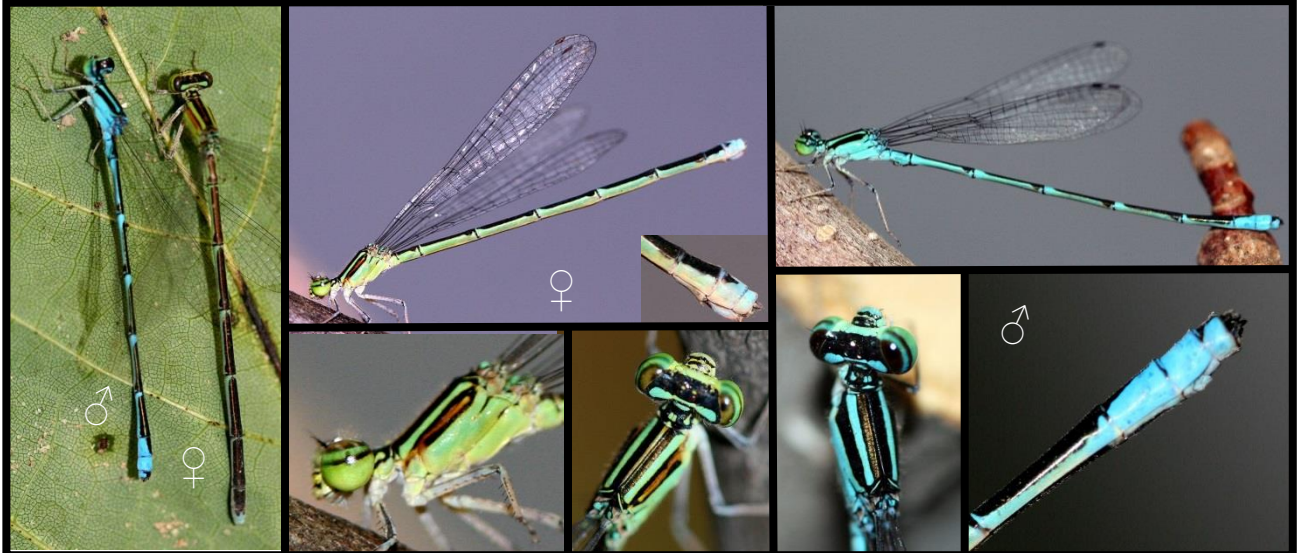
DOUBLE-STRIPPED BLUET
Enallagma basidens Calvert



FAMILIAR BLUET
Enallagma civile (Hagen)



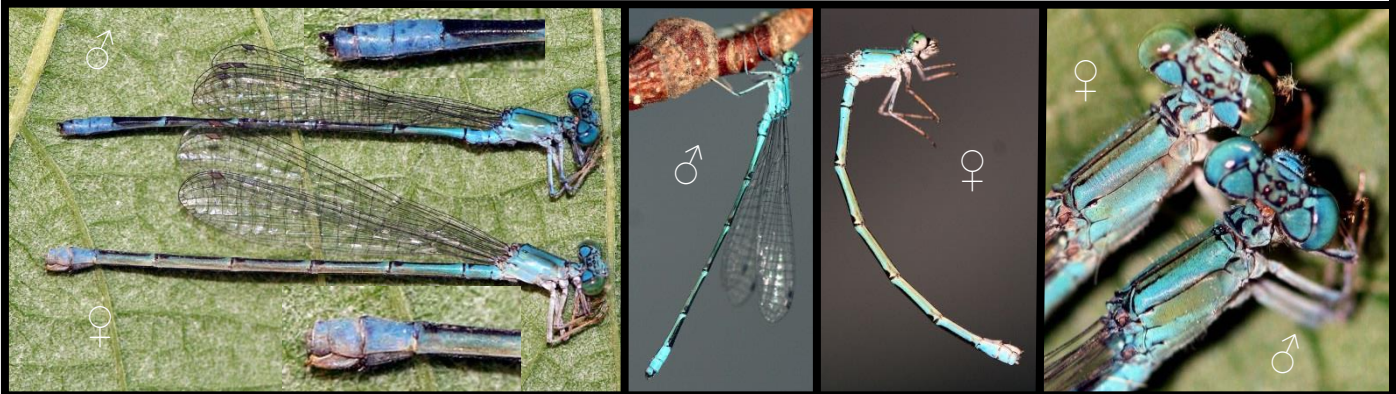
STREAM BLUET
Enallagma exsulans (Hagen)



ORANGE BLUET
Enallagma signatum (Hagen)



SLENDER BLUET
Enallagma traviatum Selys



FRAGILE FORKTAIL
Ischnura posita (Hagen)



EASTERN FORKTAIL
Ischnura verticalis (Say)



Damselfly Nymphs



Dancer damselfly nymph, *Argia* sp.



***Calopteryx maculata* nymph and adults, Family Calopterygidae.**



Narrow-winged damselfly nymph, *Enallagma basidens*, Family Coenagrionidae.

Dragonfly Nymphs



Aeshna sp. nymphs
Family Aeshnidae
(Blue Darner)

Family Libellulidae (various skimmer larvae)



Pachydiplax longipennis
Blue dasher nymph



Family Gomphidae Clubtail
dragonfly nymph



Progomphus obscurus nymphs
Family Gomphidae (Sanddragons)

Order Mantodea - Mantids Family Mantidae - Mantids

Chinese Mantid
Tenodera aridifolia





Tenodera aridifolia

Carolina Mantid
Stagmomantis carolina



Order Blattodea -Cockroaches
Superfamily Blaberoidea
Family Ectobiidae
Subfamily Blattellinae



Ischnoptera deropeltiformis



Parcoblatta pennsylvanica



Parcoblatta sp. (Wood Cockroach)



Parcoblatta lata

Order Plecoptera – Stoneflies
Family Perlidae – Common Stoneflies



Perlesta sp. Nymph and adult

Order Isoptera – Termites
Family Rhinotermitidae



Reticulitermes flavipes

Order Dermaptera – Earwigs
Family Labiidae - Little Earwigs



Vostox brunneipennis

Order Phasmatodea
Family Heteronemiidae - Walkingsticks



Diapheromera femorata



Amblycorypha rotundifolia

Order Orthoptera – Grasshoppers, crickets and katydids

Suborder Ensifera – Long-Horned Orthoptera

Family Gryllidae

Subfamily Gryllinae - House and Field Crickets



Fall Field Cricket, *Gryllus pennsylvanicus*, male (right) and female (left).

Subfamily Nemobiinae – Ground Crickets



Allonemobius fasciatus

Allonemobius socius

Subfamily Eneopterinae – Restless Bush Crickets



Restless Bush Crickets, *Hapithus agitator*, one on right with Rhopalosomatid(?) ectoparasite

Subfamily Oecanthinae – Tree Crickets



Snowy Tree Cricket
Oecanthus fultoni



Two-Spotted Tree Cricket
Neoxabea bipunctata



Black-Horned Tree Cricket
Oecanthus nigricornis

Subfamily Rhaphidophoridae – Cave and Camel Crickets



Walker's Camel Cricket
Ceuthophilus walkeri



Ceuthophilus maculatus



Spotted Camel Cricket
Ceuthophilus maculatus

Family Gryllotalpidae – Mole Crickets



Northern Mole Cricket,
Gryllotalpa hexadactyla

Family Gryllacrididae – Leaf-Rolling Cricket



Carolina Leaf-Rolling Cricket
Camptonotus carolinensis

Subfamily Trigonidiinae - Trigs



Handsome trig, *Phyllopalpus pulchellus*

Family Tettigoniidae - Katydid Subfamily Phaneropterinae – Leaf Katydid



Oblong-Winged Katydid
Amblycorypha rotundifolia



Greater Angle-Wing Katydid
Microcentrum rhombifolium



Fork-Tailed Bush Katydid, *Scudderia furcata*, adult female and nymphs

Subfamily Conocephalinae - Meadow Grasshoppers



Straight-Lanced Meadow Katydid
Conocephalus strictus



Conocephalus fasciatus



Conocephalus nemoralis



Orchelimum gladiator



Short-Winged Meadow Katydid, *Conocephalus brevipennis*



Subfamily Copiphorinae – Cone-Headed Grasshoppers



Sword-Bearing Conehead, *Neoconocephalus ensiger*



Greater Anglewing Katydid
Microcentrum rhombifolium

Family Acrididae

Subfamily Melanoplinae – Spur-Throated Grasshoppers



Narrow-Winged Spurthroated
Grasshopper
Melanoplus angustipennis



Migratory Grasshopper
Melanoplus sanguinipes



Differential Grasshopper
Melanoplus differentialis



Forest Grasshopper
Melanoplus pachycercus

Red-Legged Grasshopper
Melanopolus femurrubrum

Pinetree Spurthroated Grasshopper
Melanoplus punctulatus

Subfamily Cyrtacanthacridinae – Bird Locusts



American Bird Grasshopper
Schistocerca americana

Obscure Bird Grasshopper
Schistocerca obscura

Subfamily Gomphocerinae- Stridulating Slant-Faced Grasshoppers



Short-Winged Green Grasshopper, *Dichromorpha viridis*



Handsom Grasshopper, *Syrbula admirabilis*

Subfamily Oedipodinae – Band-Winged Grasshoppers



Orange-Winged Grasshopper, *Pardalophora phoenicopota*



Spharagemon bolli Scudder



Carolina Grasshopper, *Dissosteira carolina*



Autumn Yellow-Winged Grasshopper
Arphia xanthoptera

Northern
Green-Striped Grasshopper,
Chortophaga viridifasciata,
showing color variations
(5 images, center and left)



Family Tetrigidae – Pygmy Grasshoppers or Grouse Locusts



Black-Sided Grouse locust, *Tettigidea lateralis*

Ornate Pygmy Grasshopper - *Tetrix ornata*



Tetrix arenosa

Tetrix arenosa-angusta

Tettigidea armata

Tetrix subulata



Hooded Grouse Locust, *Paratettix cucullatus*, showing variation in shape and color

Family Tridactylidae – Pygmy Mole Crickets



Minute Pigmy Mole cricket, *Ellipes minutus*



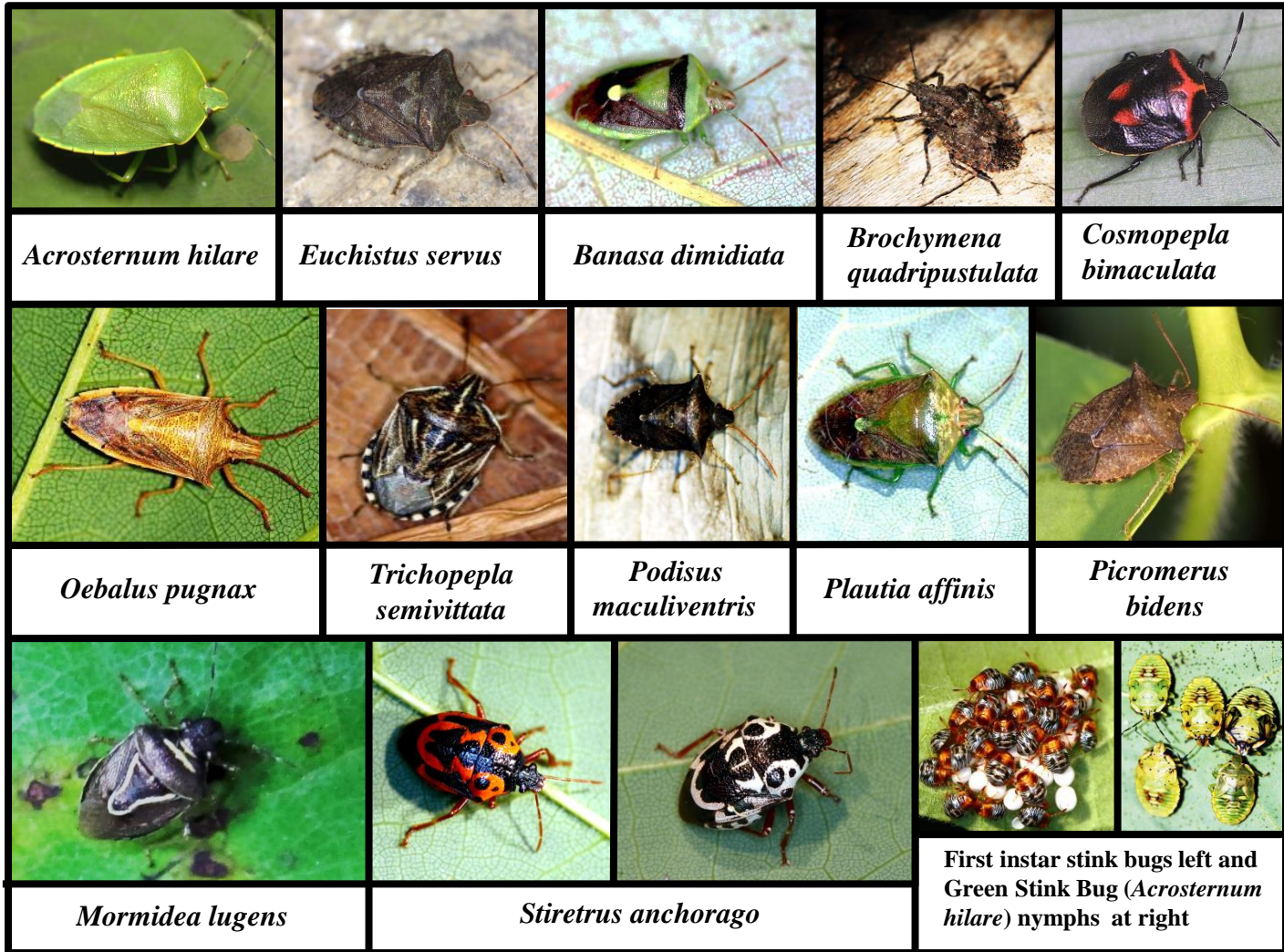
Pselliopus cinctus

Order Hemiptera – True Bugs and Other Hemipteroids

Suborder Heteroptera – Overlapping Winged Bugs

Family Pentatomidae – Stink Bugs

Subfamily - Pentatominae



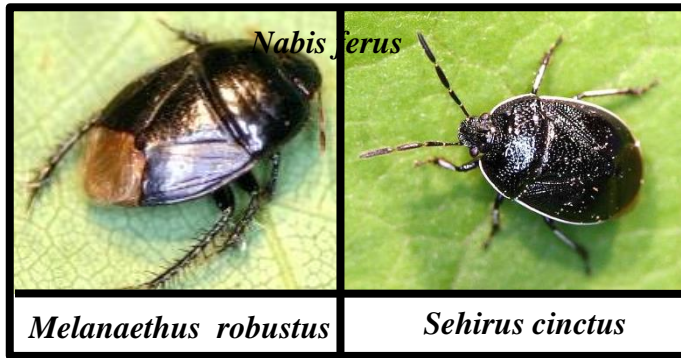
Two predatory Pentatomid stink bugs attacking and consuming a monarch caterpillar (*Danaus plexxipus*).

Family Thyreocoridae – Negro Bugs

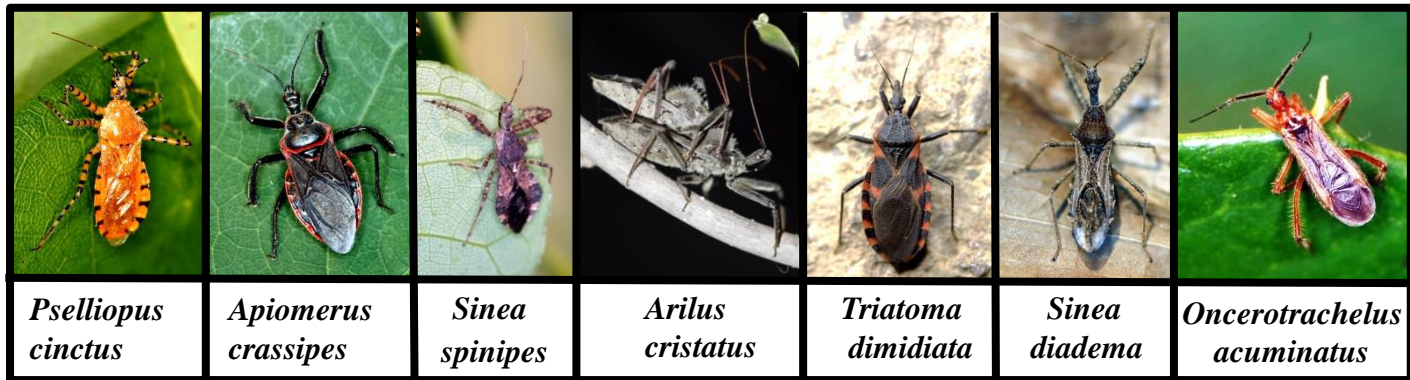


Corimelaena pulicaria

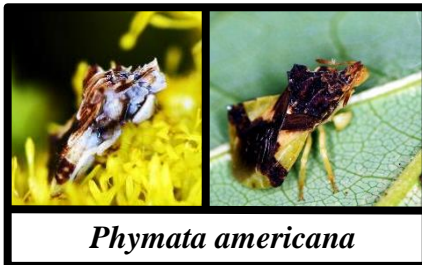
Family Cydnidae – Burrower Bugs



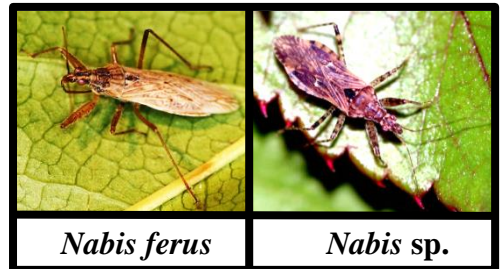
Family Reduviidae – Assassin Bugs and Thread-Legged Bugs



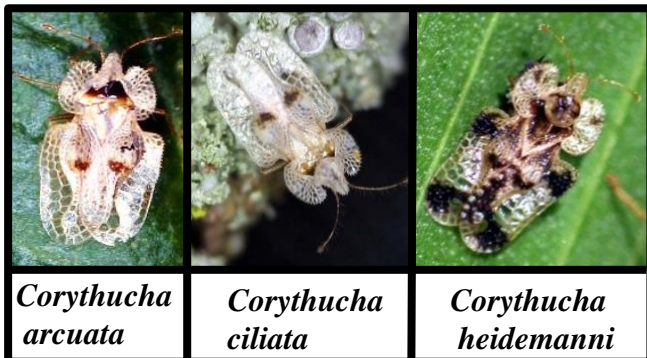
Family Phymatidae – Ambush Bugs



Family Nabidae – Damsel Bugs



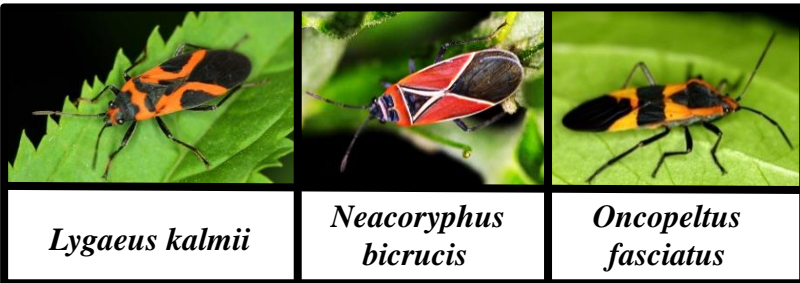
Family Tingidae – Lace Bugs



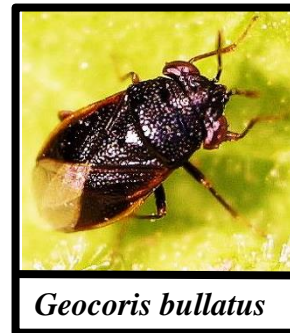
Family Aradidae – Flat Bugs



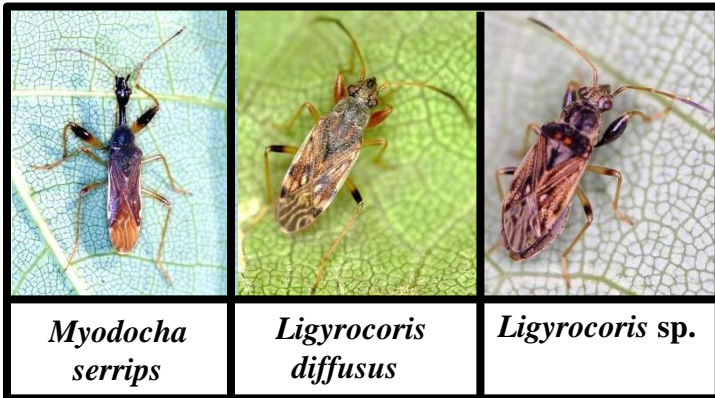
Family Lygaeidae – Seed Bugs



Family Geocoridae Big-Eyed Bugs



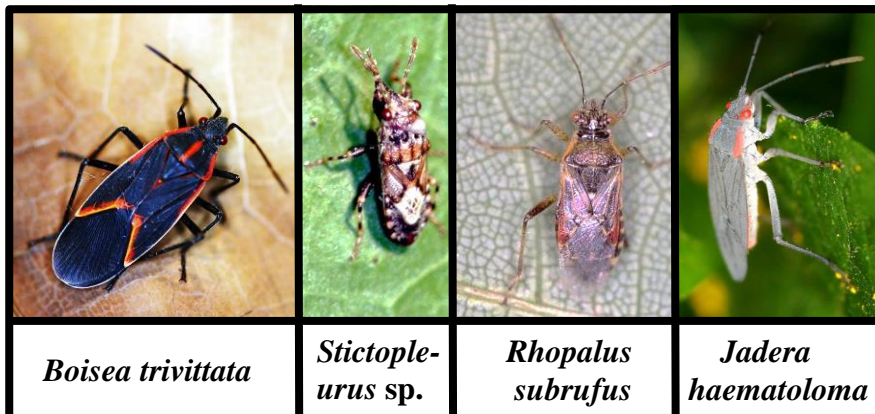
Family Rhyparochromidae



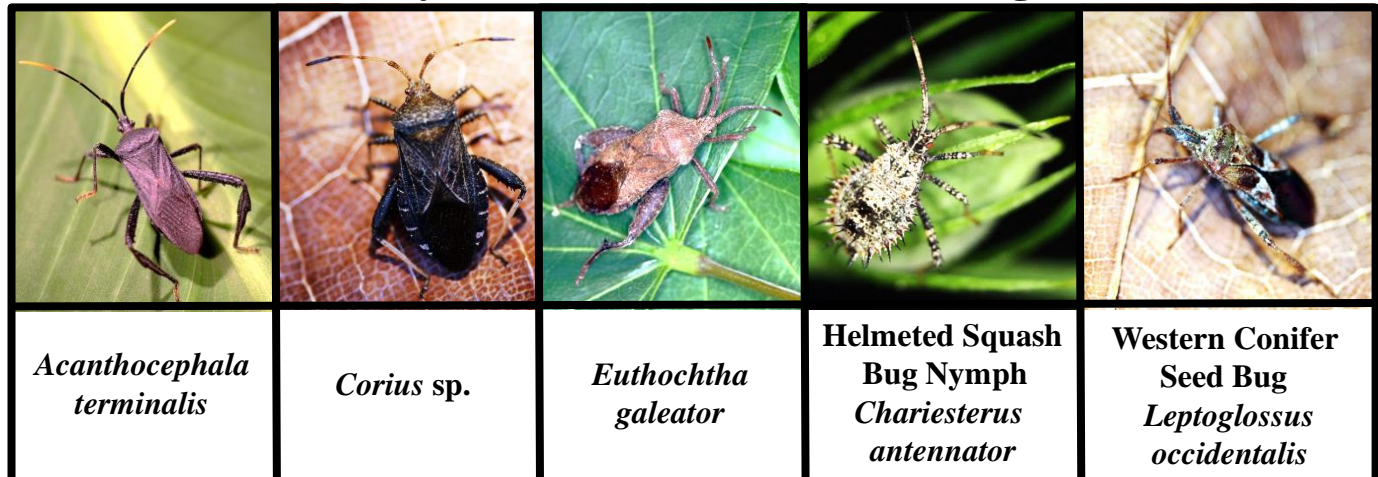
Family Berytidae – Stilt Bugs



Family Rhopalidae – Scentless Plant Bugs



Family Coreidae – Leaf-Footed Bugs



Family Miridae – Plant Bugs



Adelphocoris lineolatus



Coccobaphens frontifer



Lygus lineolaris



Miris dolabratus



Neurocolpus nubilus



Prepops insitivus

Family Alydidae – Broad-Headed Bugs



Alydus eurinus



Alydus pilosulus

Family Belostomatidae Giant Water Bugs



Lethocerus americanus



Family Nepidae – Water Scorpions



Ranatra quadridentata

Family Corixidae – Water Boatmen



Sigara alternata



Family Notonectidae Backswimmers



Notonecta irrorata



Family Gelastocoridae – Toad Bugs



Gelastocoris oculatus



Family Saldidae – Shore Bugs



Saldula opacula

Family Ochteridae – Velvety Shore Bugs



Ochterus americanus

Family Veliidae – Smaller Water Striders



Microvelia sp.

Family Hydrometridae Water Measurers



Hydrometra martini

Family Gerridae – Water Striders



Trepobates spp.



Gerris comatus



Gerris sp.

Heteroptera Nymphs



Various unidentified heteroptera nymphs, many of which vary considerably from adult forms.

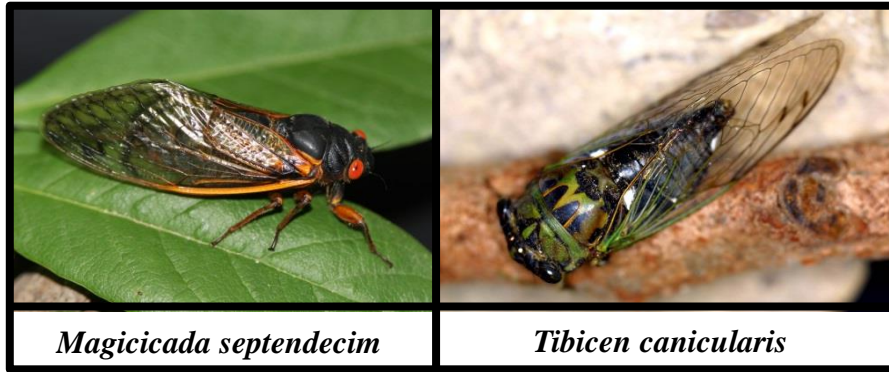


Acanalonia bivittata

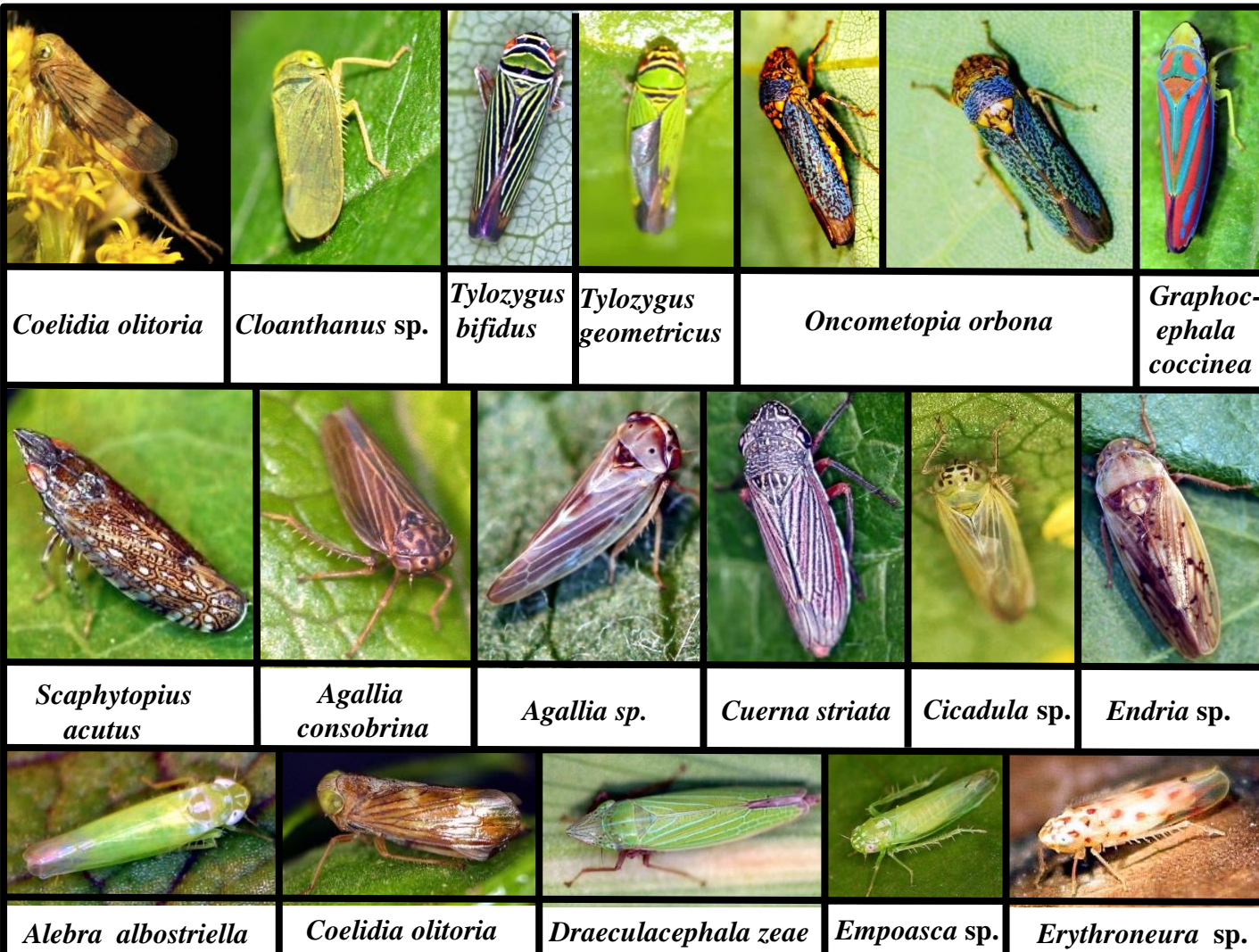
Suborder Auchenorrhyncha – Homoptera

Superfamily Cicadoidea

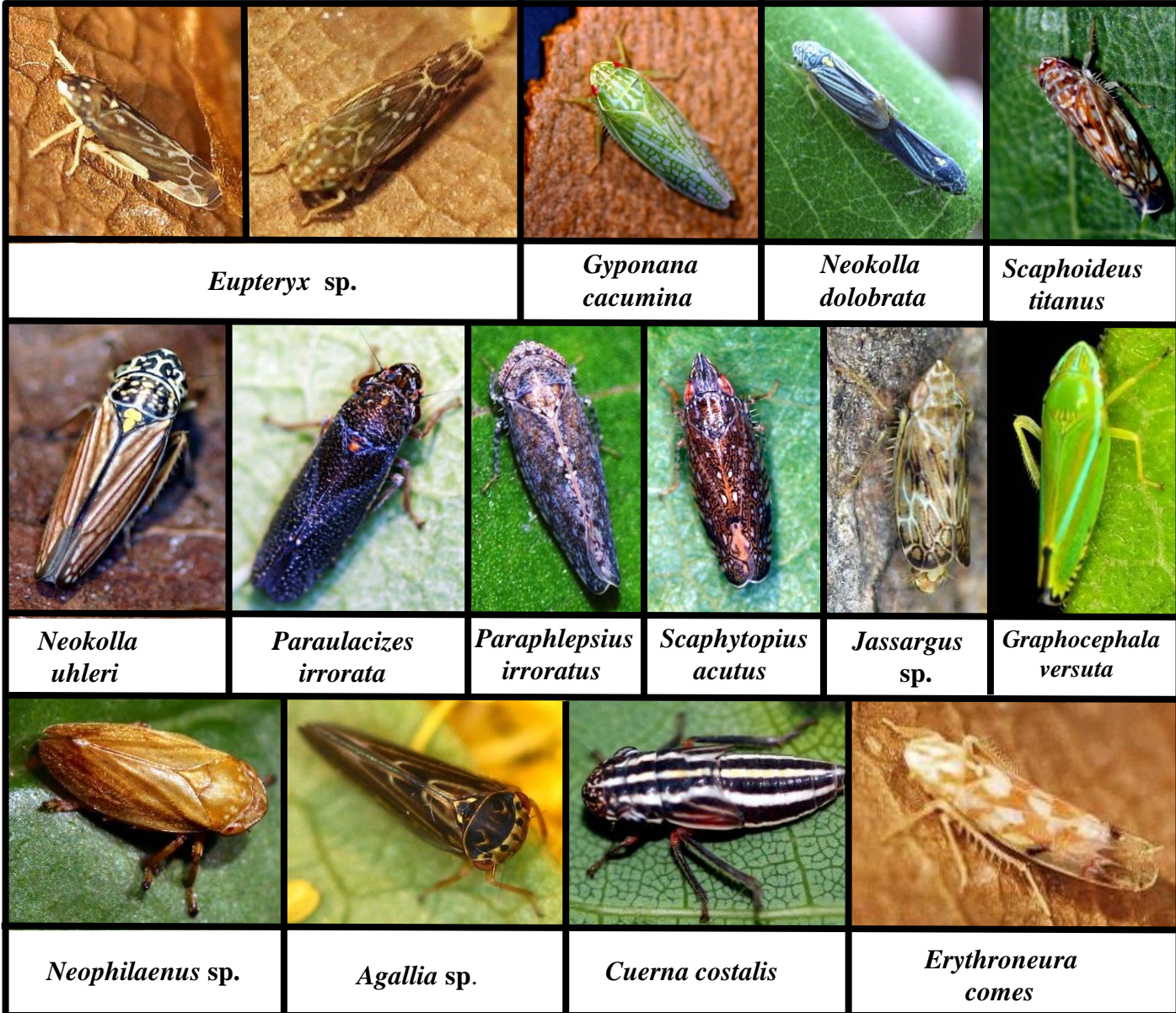
Family Cicadidae - Cicadas



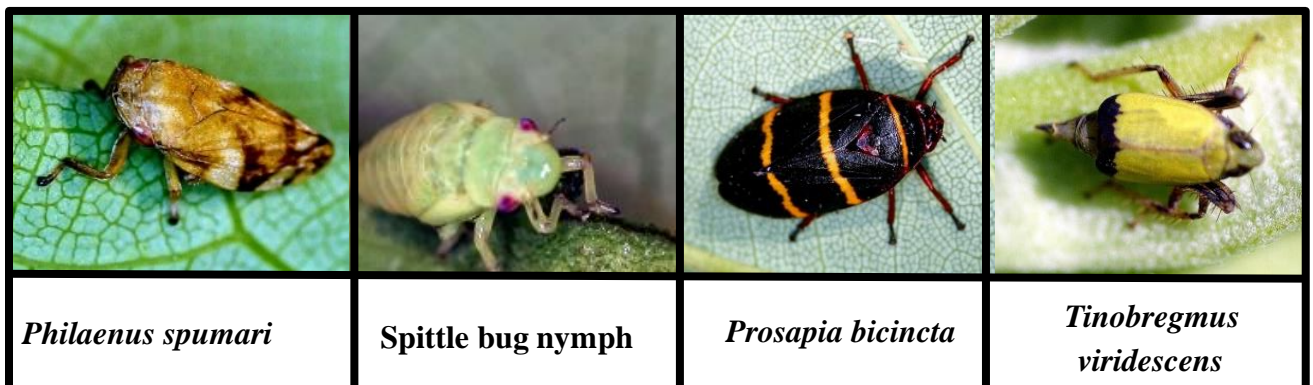
Family Cicadellidae - Leafhoppers



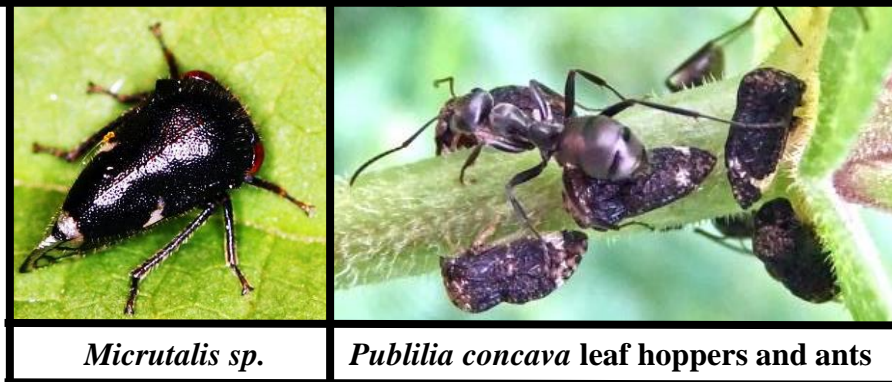
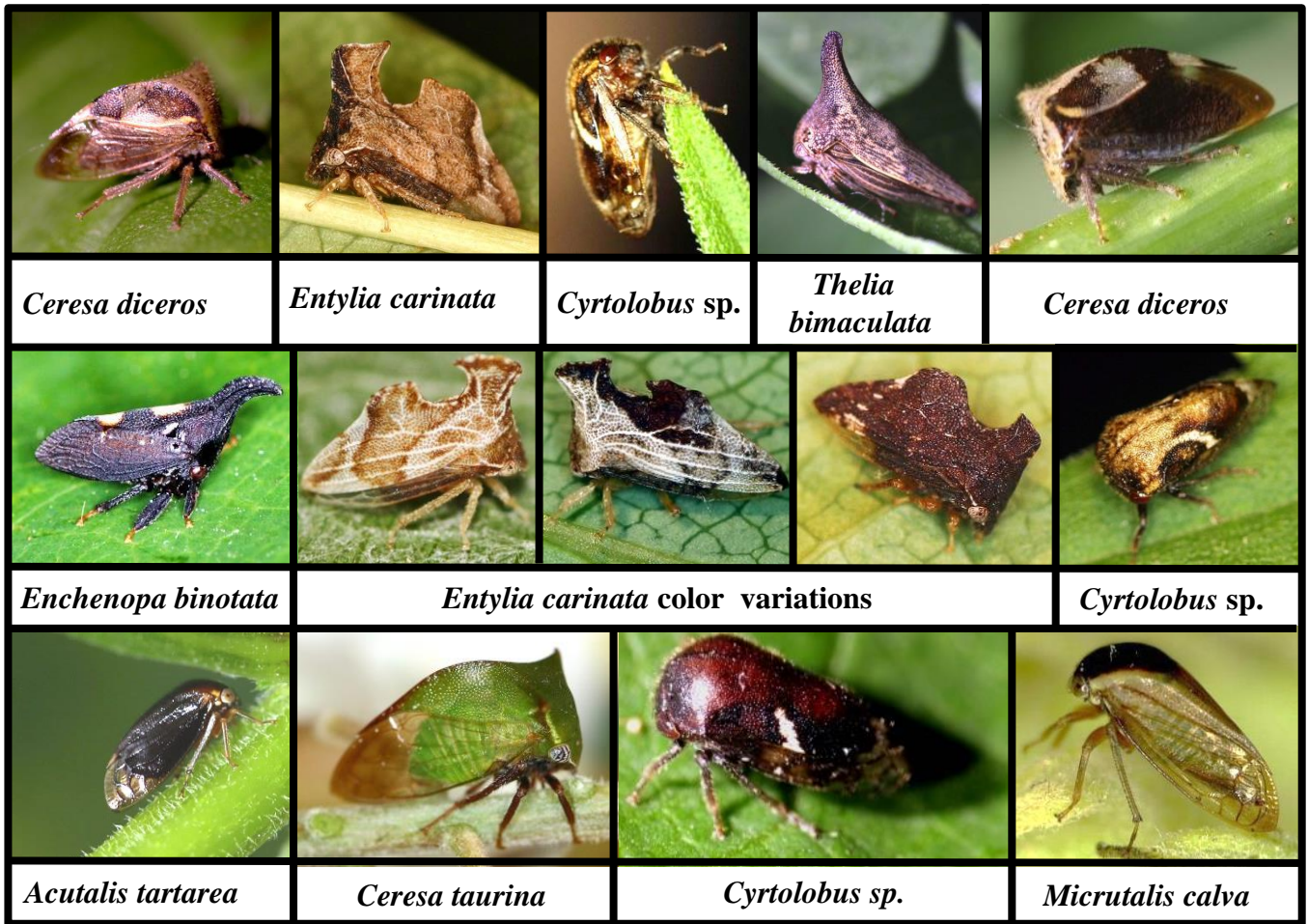
Family Cicadellidae – Leafhoppers (continued)



Family Cercopidae - Spittlebugs



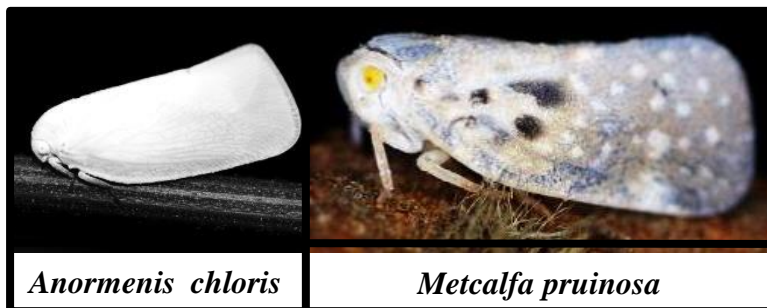
Family Membracidae - Treehoppers



Family Issidae (Acanaloniidae) – Vine and Shrub Planthoppers



Family Flatidae – Wedge-Shaped Planthoppers



Anormenis chloris

Metcalfa pruinosa

Family Dictyopharidae Long-Snouted Planthoppers



Dictyophara sp.

Family Delphacidae



Liburniella ornata

Family Mindaridae



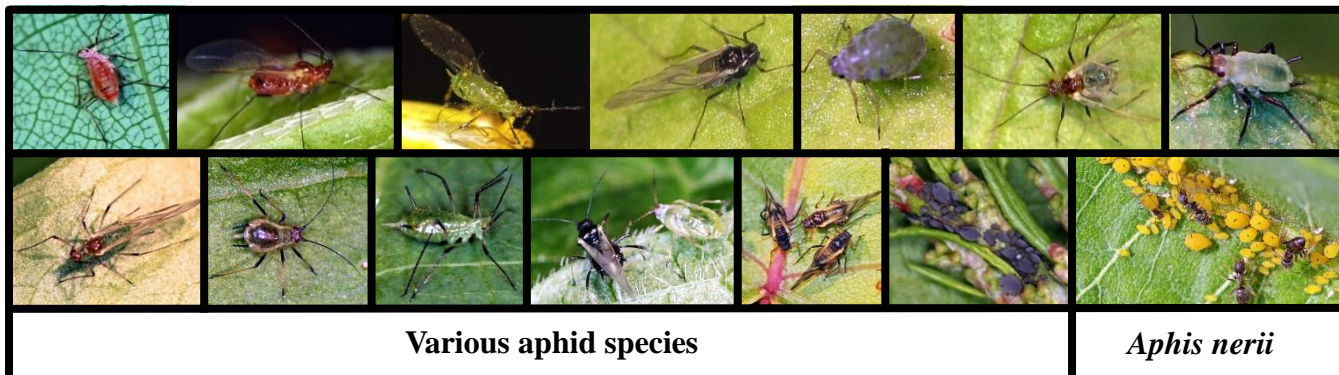
Paraprociophilus sp.

Family Cixiidae Broad Flattened Planthoppers



Oecleus sp.

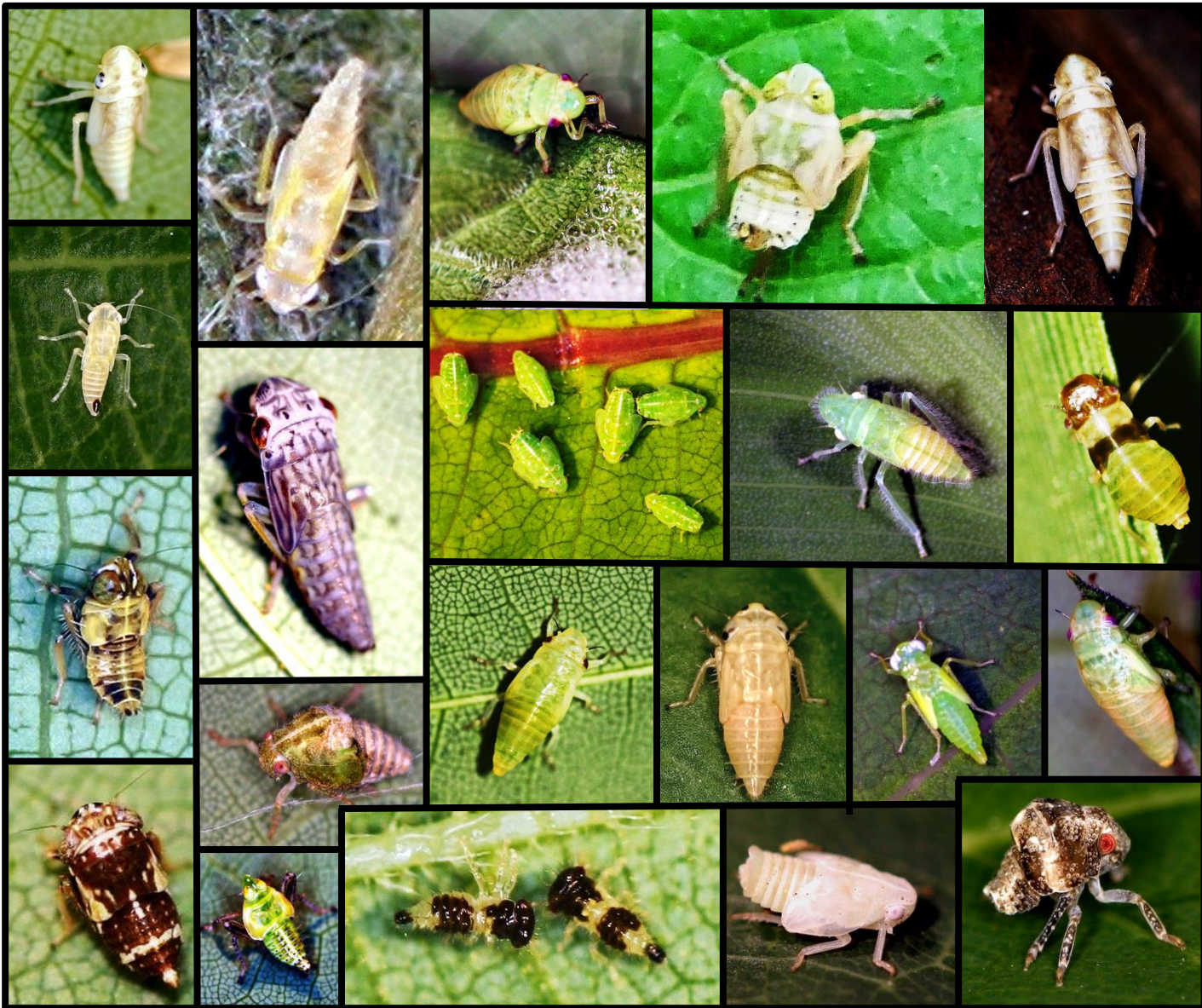
Family Aphididae – Common Aphids or Plant Lice



Various aphid species

Aphis nerii

Various Unidentified Homoptera Nymphs



Order Trichoptera - Caddisflies

Family Hydropsychidae – Net-Spinning Caddisflies



Symphitopsyche slossanae

Various adult net-spinning caddisflies

Order Neuroptera - Lacewings

Family Chrysopidae Green Lacewings



Chrysopa sp. Adult and larva (nymph)

Family Myrmeleontidae Antlions



Dendroleon obsoletum

*Myrmeleon
immaculatus*
(larva)

Family Mantispidae - Mantisflies



Zeugomantispa minuta adult, pupal case, and pupa



Climaceilla brunnea

Dicromantispa sayi

Family Berothidae Beaded Lacewings



Lomamyia sp.

Family Corydalidae – Dobsonflies and Fishflies



Chauliodes pectinicornis



Cornutus sp. Hellgrammite
larva



Dorcaschema alternatum

Order Coleoptera – Beetles

Suborder Archostemata

Family Cupedidae Reticulated Beetles



Tenomerga concolor

Suborder Adephaga

Family Carabidae Ground Beetles and Round Sand Beetles



Bembidion
sp.?



Lebia lobulata



Brachinus
nigricornis



Clivina sp.



Cratacanthus dubius



Dicaelus
dilatatus



Galeritula
junus



Harpalus sp.



Lenbia grandis



Tetragonoderus
fasciatus



Bembidion sp.



Elaphrus
spp.



Panagaeus
fasciatus



Pasimachus sp.



Calosoma scrutator



Various shore beetles
(*Bembidion* sp. ?)



Omophron
tesselatum

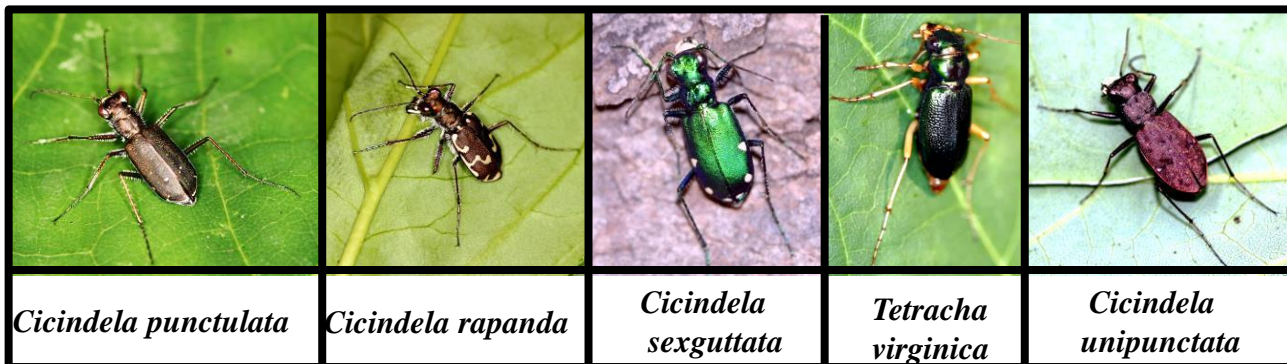


Omophron
americanus

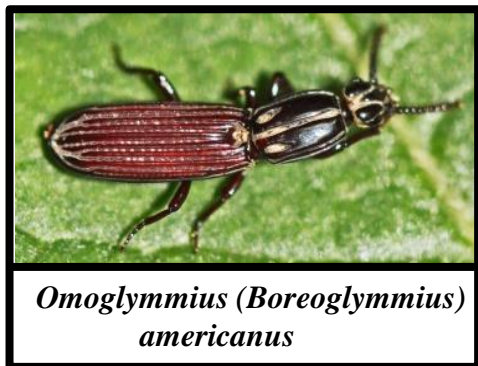


Bembidion
inaequale

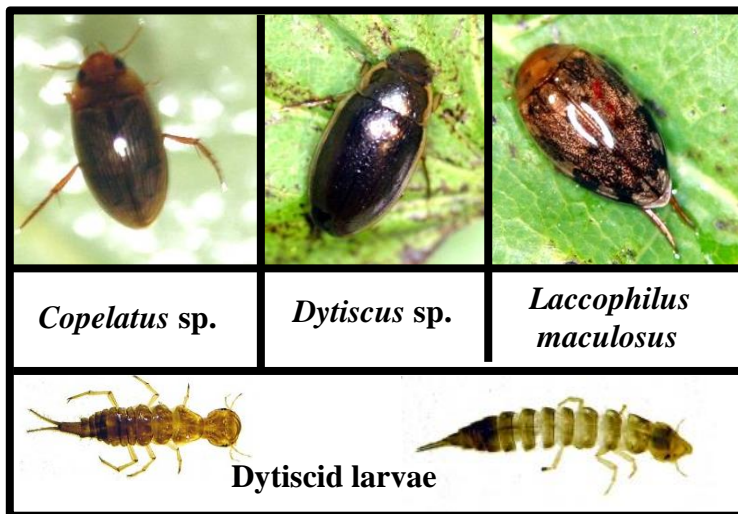
Family Cicindelidae – Tiger Beetles



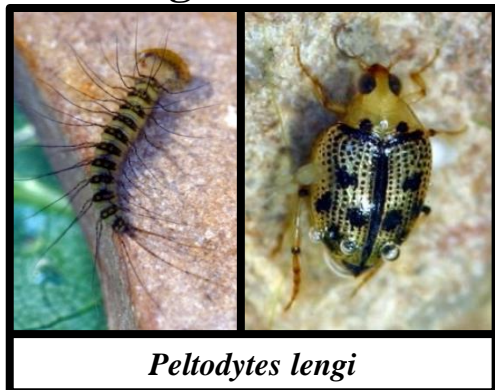
Family Rhysodidae Wrinkled Bark Beetles



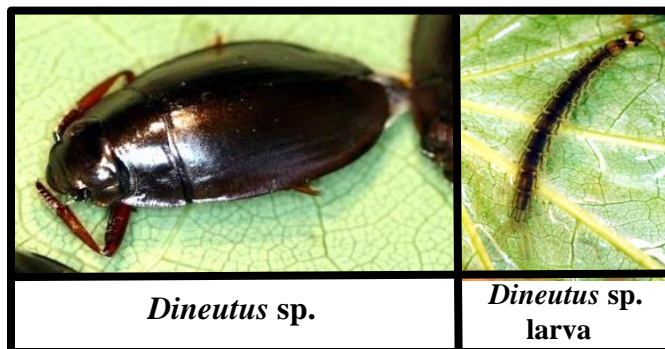
Family Dytiscidae Predaceous Water Beetles



Family Halipidae Crawling Water Beetles



Family Gyrinidae - Whirligig Beetles



Family Elmidae - Riffle Beetles



Family Dryopidae
Long-Toed Water Beetles



Helichus fastigiatus

Family Heteroceridae
Varigated Mud-Loving Beetles



Neoheterocercus pallidus

Family Scirtidae
Marsh Beetles



Elodes sp. larva

Family Hydrophilidae
Water Scavenger Beetles



Tropisternus glaber and
Tropisternus sp. larva

Hydrochara obtusata

Berosus sp.

Family Histeridae
Hister or Clown Beetles



Platysoma lecontei with mites on
ventral side

Family Silphidae – Carrion Beetles



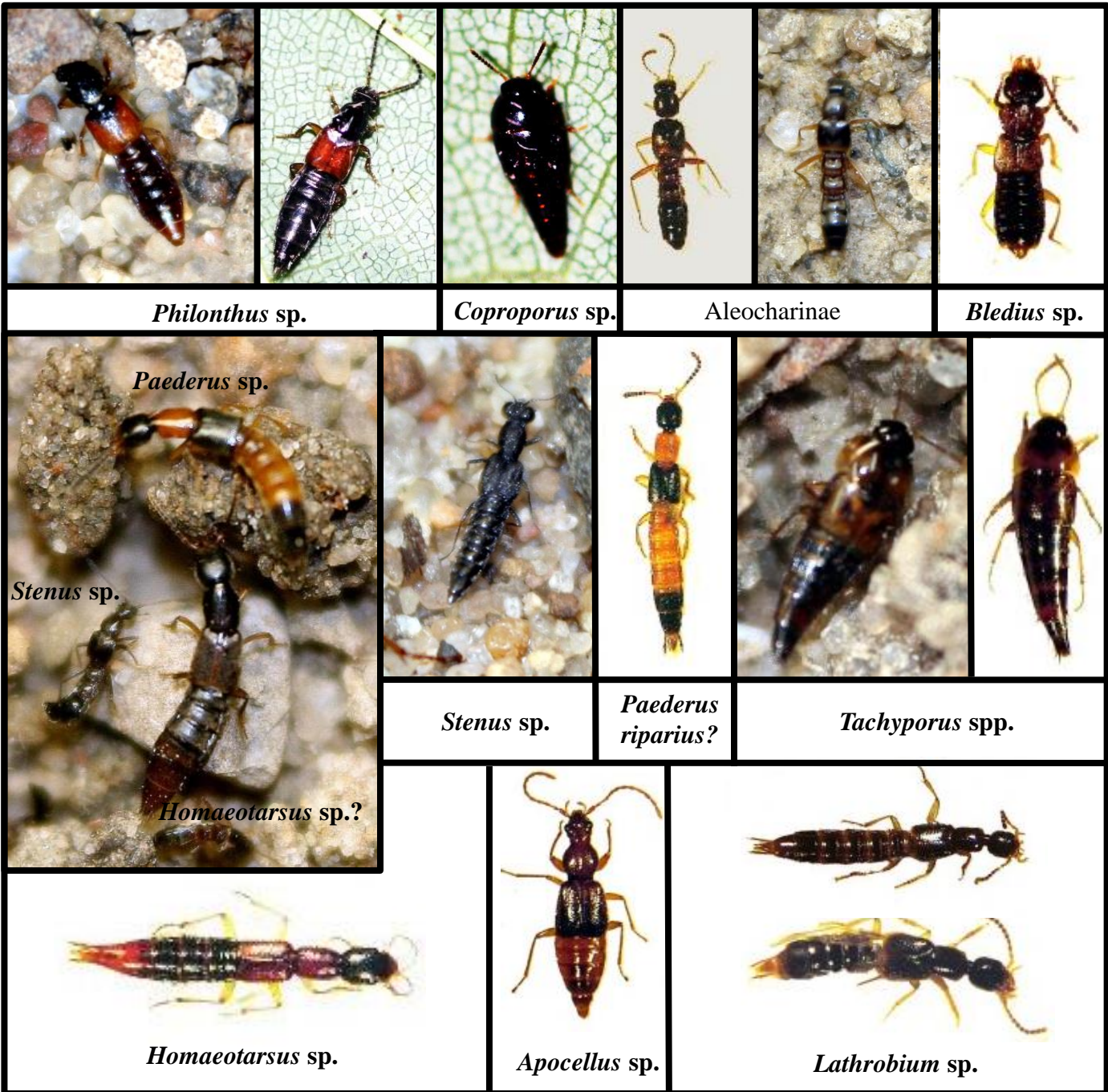
Silpha americana

Nicrophorus sayi



Oiceoptoma noveboracense larva

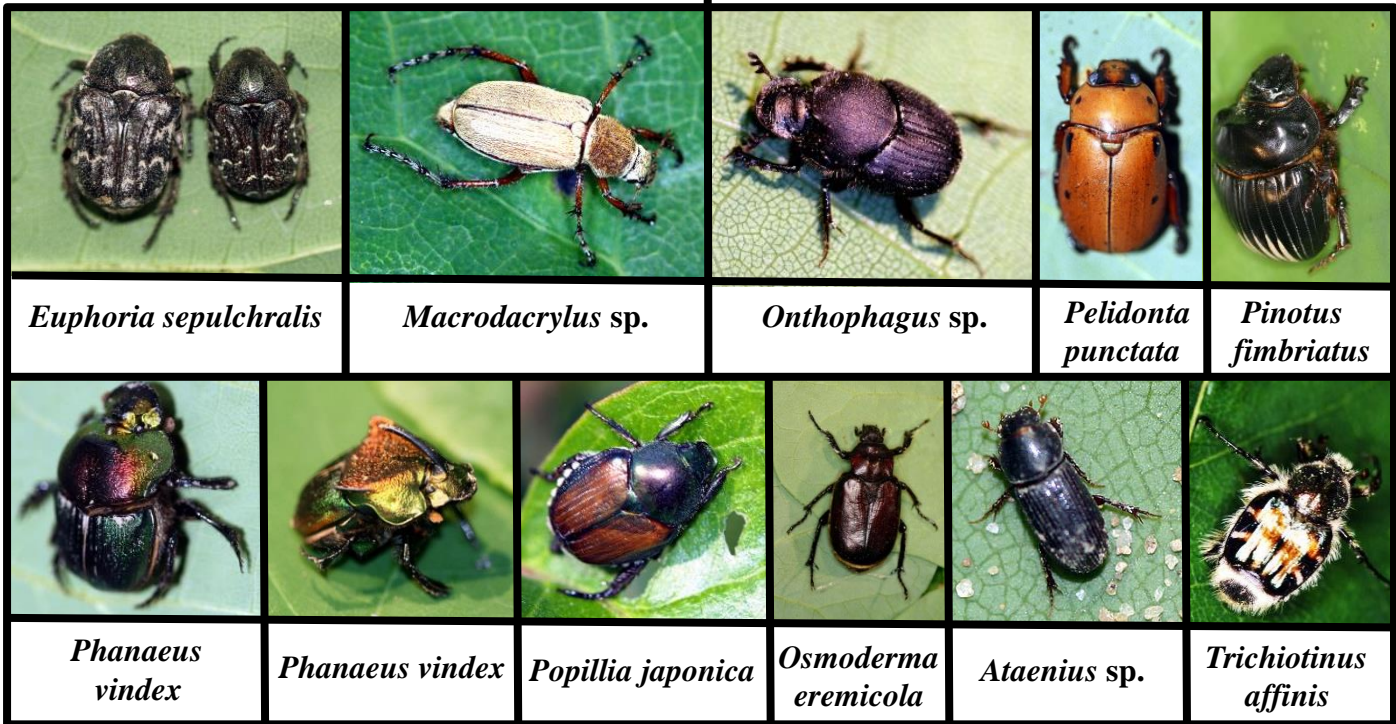
Family Staphylinidae - Rove Beetles



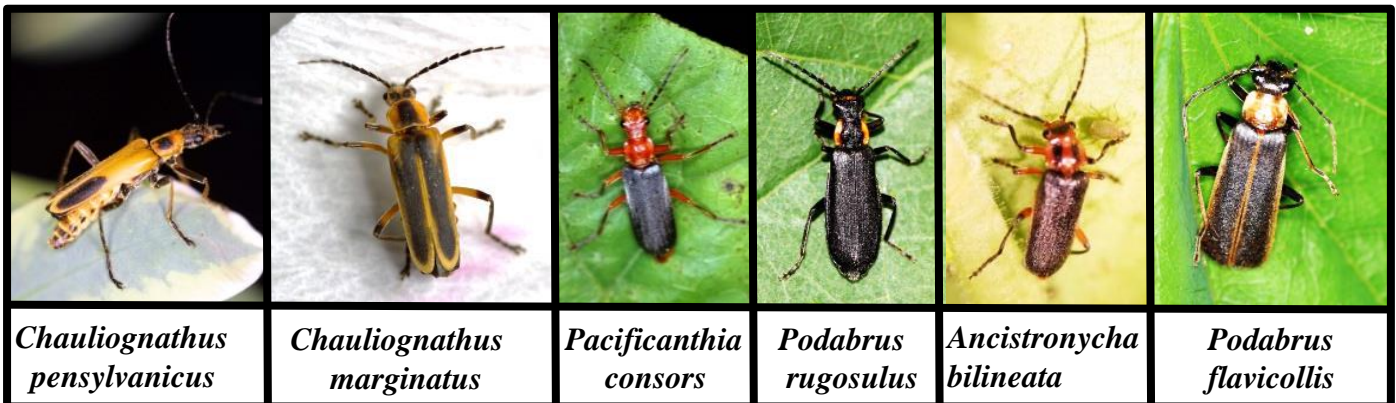
Family Scarabaeidae – Dung Beetles and Tumblebugs



Family Scarabaeidae – Dung Beetles and Tumblebugs (cont.)

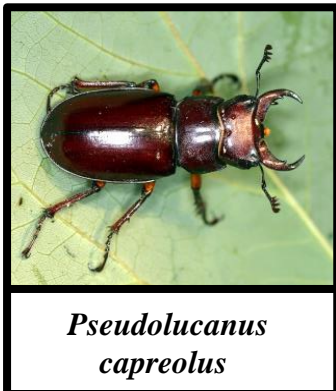


Family Cantharidae – Soldier Beetles

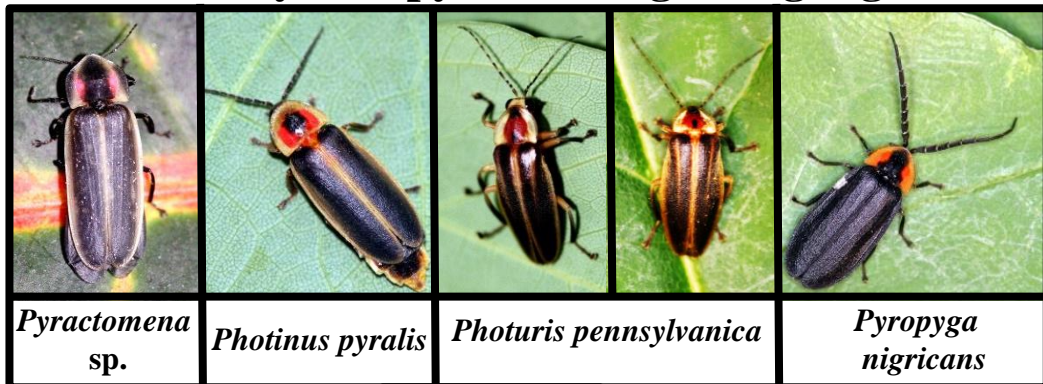


Family Lucanidae

Stag Beetles

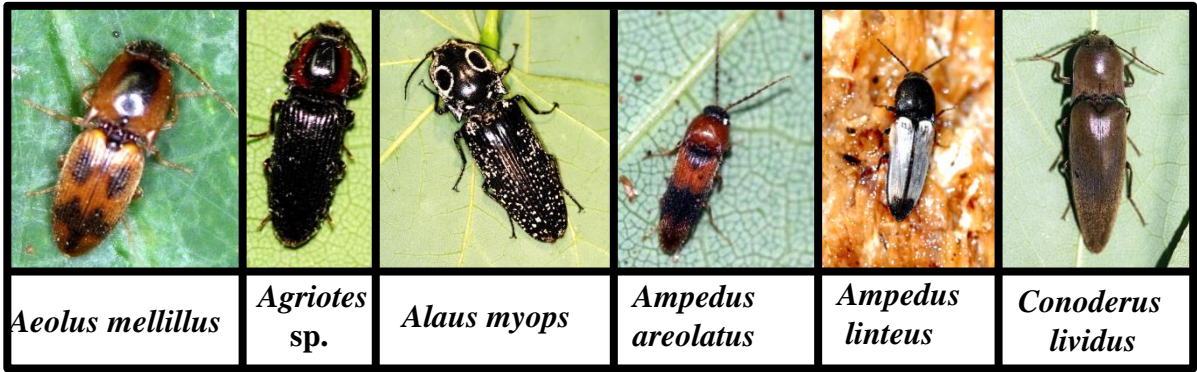


Family Lampyridae - Lightningbugs



Lampyrid larva

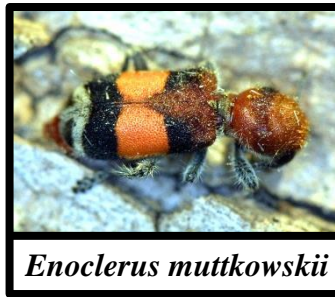
Family Elateridae – Click Beetles and Wireworms



Family Lycidae Net-Winged Beetles



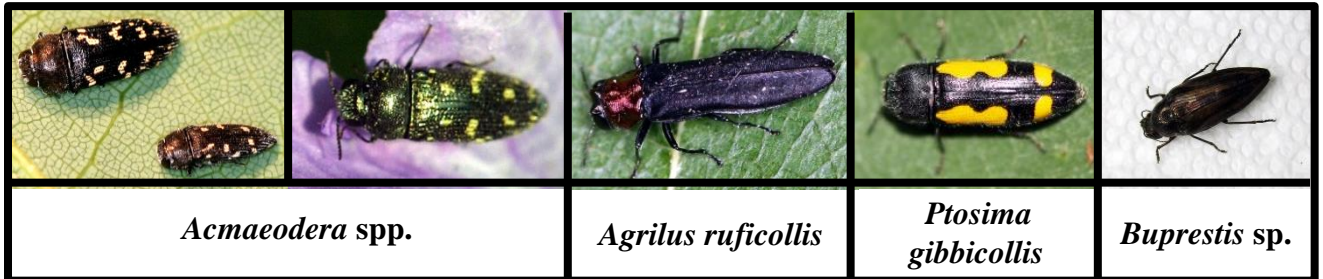
Family Cleridae Checkered Beetles



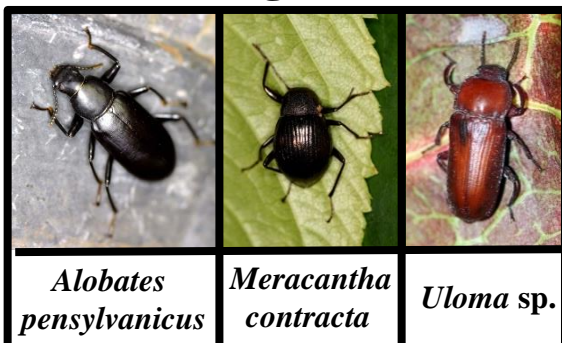
Family Melyridae Soft-Winged Flower Beetles



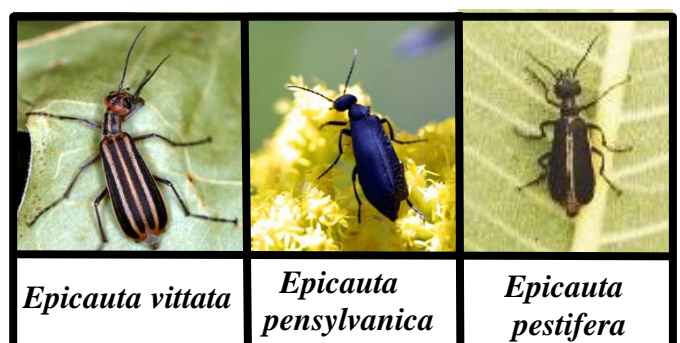
Family Buprestidae Jewel Beetles or Metallic Wood-Boring Beetles



Family Tenebrionidae Darkling Beetles



Family Meloidae Blister Beetles



Family Mordellidae
Tumbling Flower Beetles



Hoshihananomia octopunctata

Variimorda villosa



Mordellochroa abdominalis

Mordella atrata



Hoshihananomia oculata

Family Cucujidae
Flat Bark Beetles



Catogenus rufus

Uleiota dubia

Family Dermestidae
Dermestide Beetles



Anthrenus verbasci

larva

Anthrenus scrophulariae

Family Bostrichidae **Family Eucnemidae**
Banch and Twig Borers **False Click Beetles**



Lichenophanes bicornis



Isorhipis sp.

Family Nitidulidae - Sap Beetles



Epuraea helvola

Omosita sp.

Prometopia sexmaculata

Family Languridae - Lizard Beetles



Languria bicolor

Languria trifasciata

Languria mozardi

Family Endomychidae
Handsome Fungus Beetles



Endomychus sp.

Family Erotyidae
Pleasing Fungus Beetles



Megalodacne fasciata

Family Coccinellidae – Lady Beetles



Coccinella septempunctata adults, 4th instar larve and pupa

*Brachyacantha
ursina*

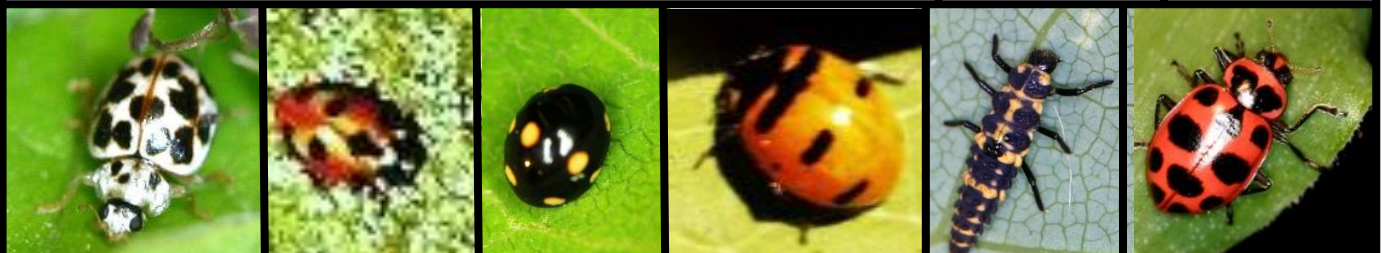
*Hyperaspis
undulata*



Harmonia axyridus mating pair, late instars, and pupa

*Cycloneda
sanguinea*

*Hyperaspis
binotata*



*Psyllobora
virgintimaculata*

*Hippodamia
parenthesis*

*Hyperaspis
binotata*

*Coccinella
transversoguttata*

Coleomegilla fuscilabris 4th
instar larva and adult

Family Cerambycidae Long-Horned Beetles



Monochanus sp.



Acmaeops directus



Astyleiopus sp.



Brachyleptura rubrica



Callimoxys s. *sanguinicollis*



Distenia undata



Dorcaschema alternatum



Eburia quadrigeminata



Euderces dilutus



Graphisuris fasciatus



Hyperplatys aspersa



Leptura plebeja



Lepturges conflens



Lepturges pictus



Mecas sp.



Tetraopes tetrophthalmus



Tetraopes femoratus



Liopinus alpha



Plectrodera scalator



Megacyllene robiniae



Micranoplum sp.



Neoclytus acuminatus

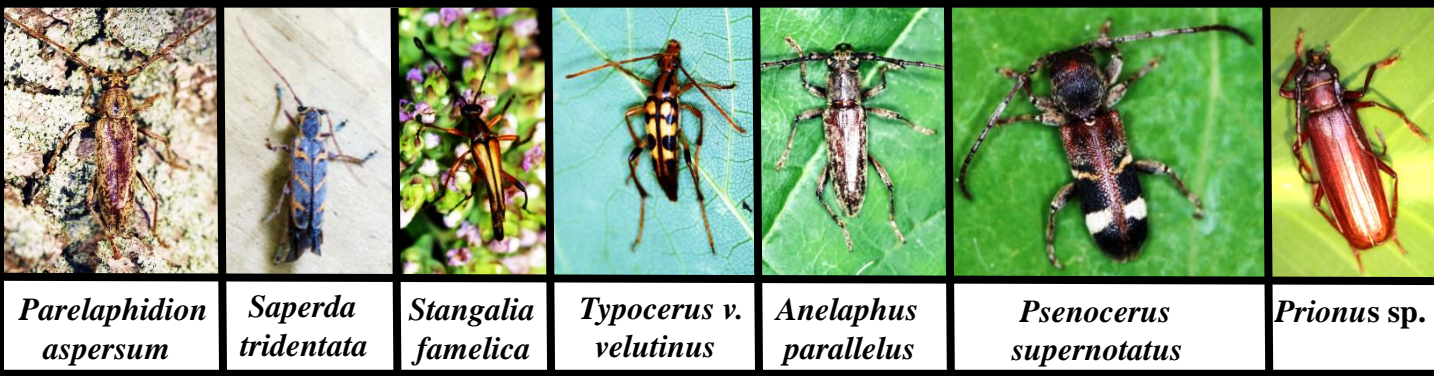


Oberea pruinosa

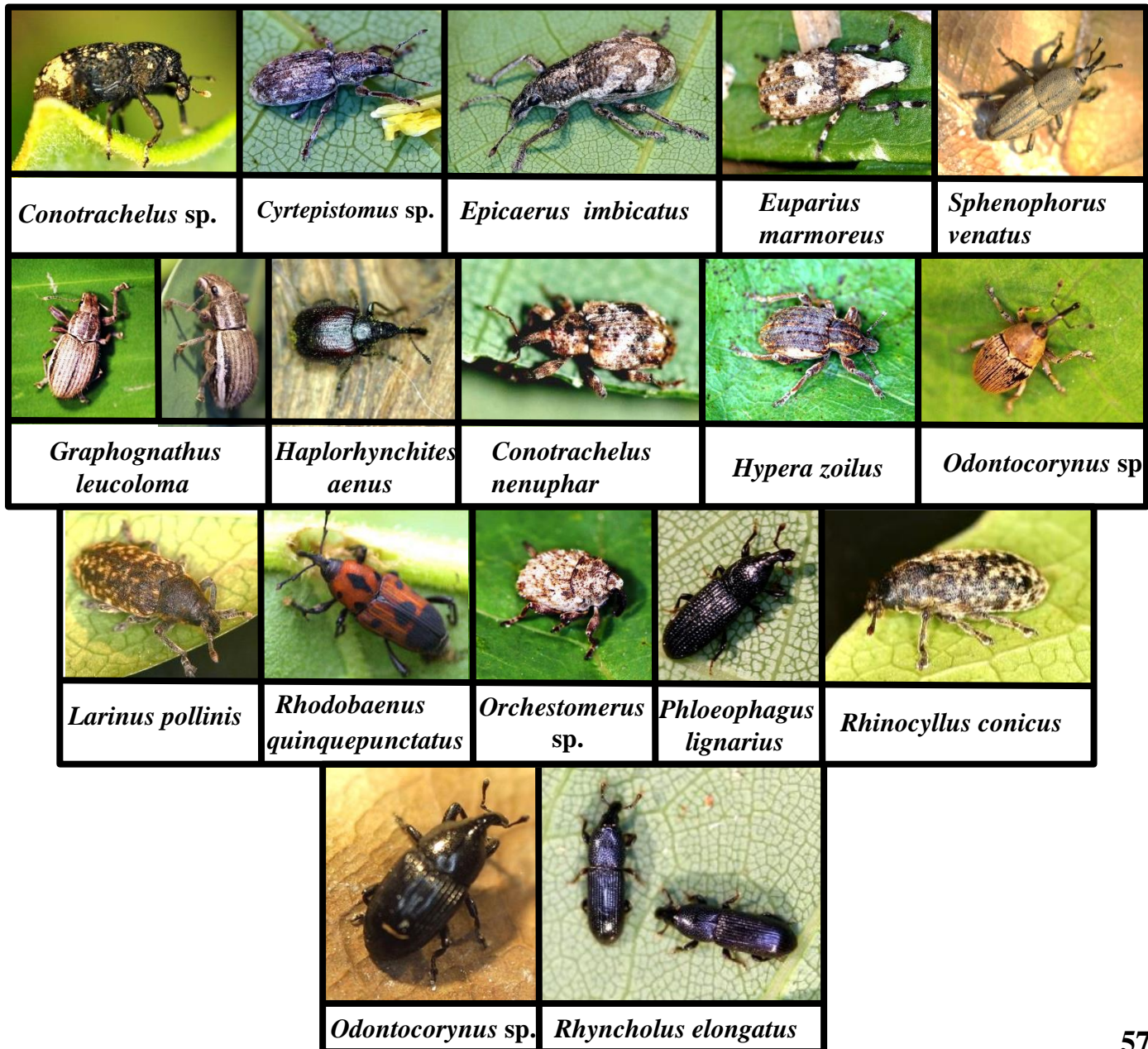


Oncideres cingulata

Family Cerambycidae Long-Horned Beetles (continued)



Family Curculionidae - Weevils



**Family Bruchidae
Bean Beetles**



Gibbobruchus mimus

Family Chrysomelidae – Leaf Beetles



Altica sp.



Anomoea laticlavia



Calligrapha bidenticola



Cerotoma trifurcata



Plagiometriona clavata



Deloyala guttata larva and adult



Microropala vittata



Molorchus bimaculatus



Metriona bicolor



Metriona bicolor



Chrysochus auratus



Labidomera clivicollis



Diabrotica undecimpunctata howardi



Acalymma vittatum



Platemarisa sp.



Stenispisa sp.



Neochlamisus gibbosus



Leptinotarsa decemlineata



Sumitrosis unequalis



Zygogramma suturalis



Calligrapha rhodans



Pachybrachis othonus



Larva carrying exuvia and pupa both of unknown species



Calligrapha rhodans



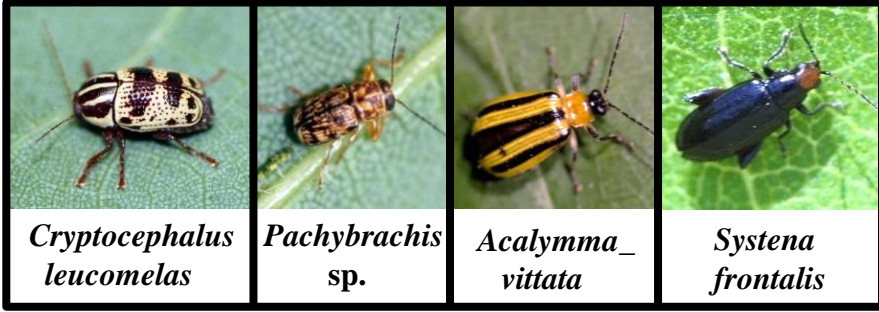
predaceous stink bug mimic (*Stiretrus anchorago*)



Pachybrachis othonus

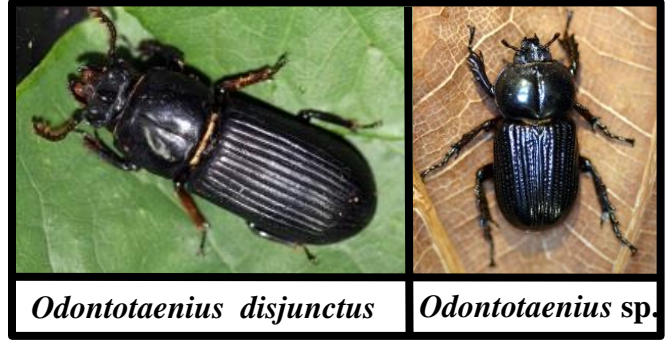
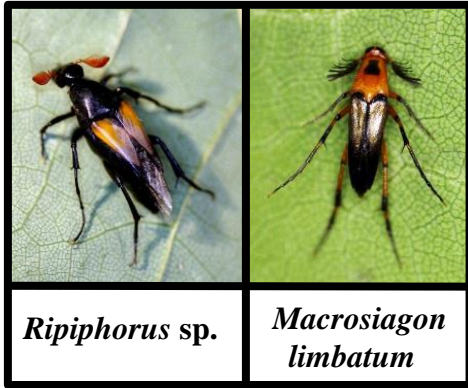
Family Chrysomelidae – Leaf Beetles
(continued)

Family Brentidae
Straight-Snout Beetles

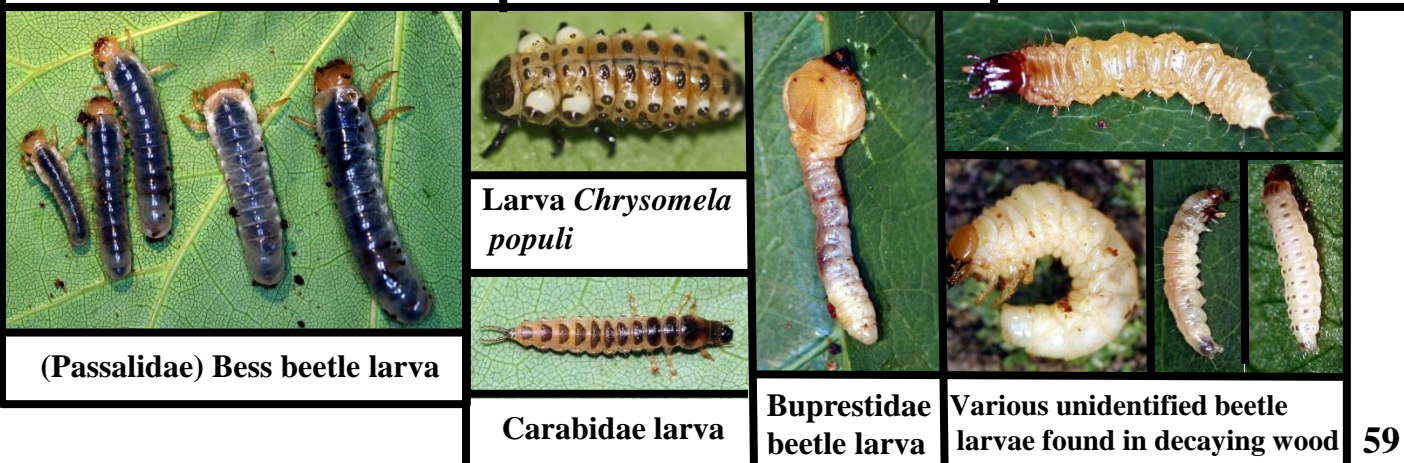
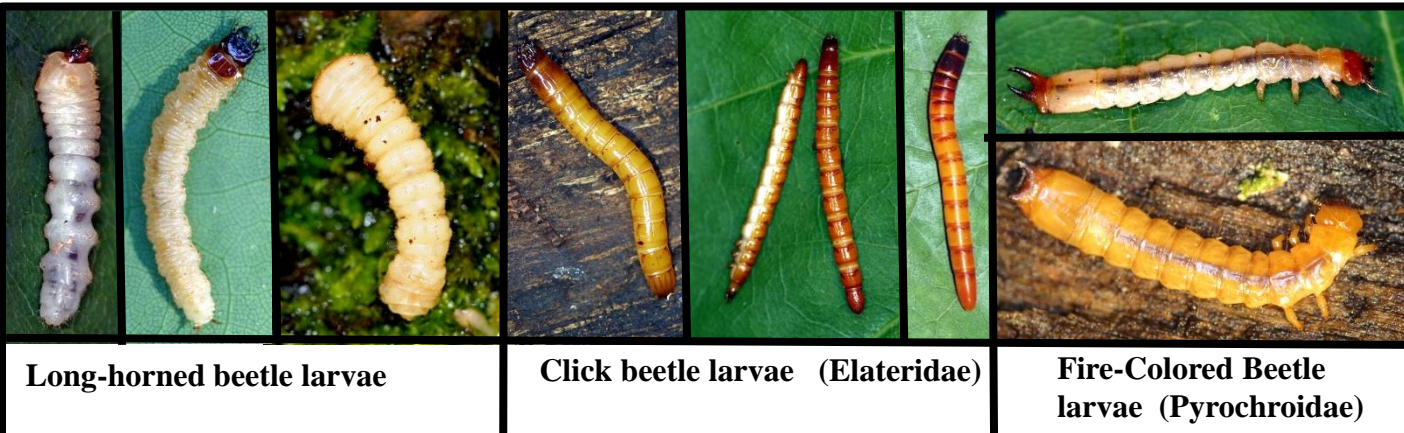


Family Ripiphoridae
Wedge-Shaped Beetles

Family Passalidae
Bess Beetles



Various Beetle Larva





Physocephala sp.

Order Diptera – True Flies

Family Agromyzidae Leaf-Mining Flies



Phytomyza aquilegivorae

Family Anthomyiidae Root Maggot Flies



Eutrichota affinis



Hydrophoria or
Zaphne

Family Empididae Dance Flies



Rhamphomyia longicauda

Family Asilidae – Robber Flies



Laphria sicula



Laphria flavicollis



Promachus bastardii



Cerotainia sp.



Diogmites missouriensis



Diogmites misellus



Diogmites salutans



Efferia sp.



Laphystia sp.



Machimus occidentalis



Neoitamus flavofemoratus

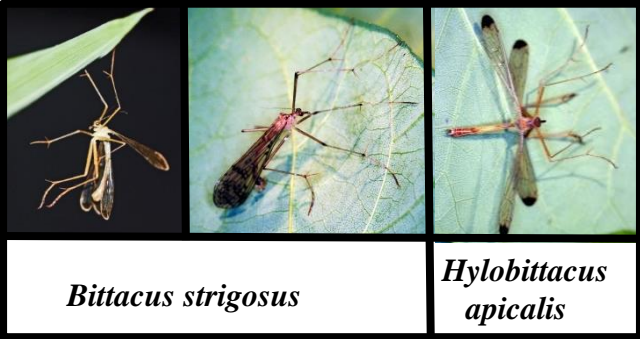


Promachus sp.



Tipulogaster glabrata

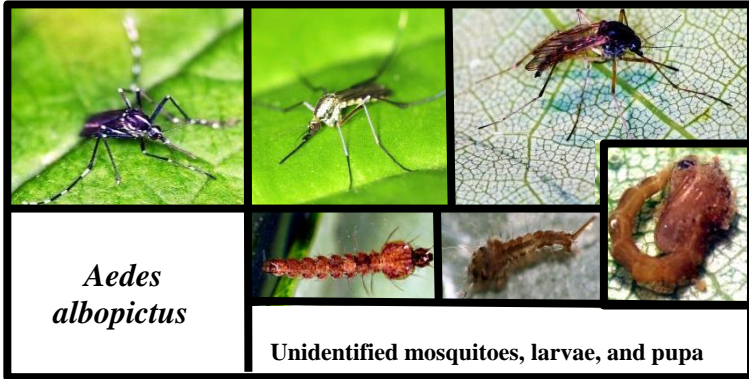
Family Bittacidae Hanging Scorpionflies



Bittacus strigosus

Hylobittacus apicalis

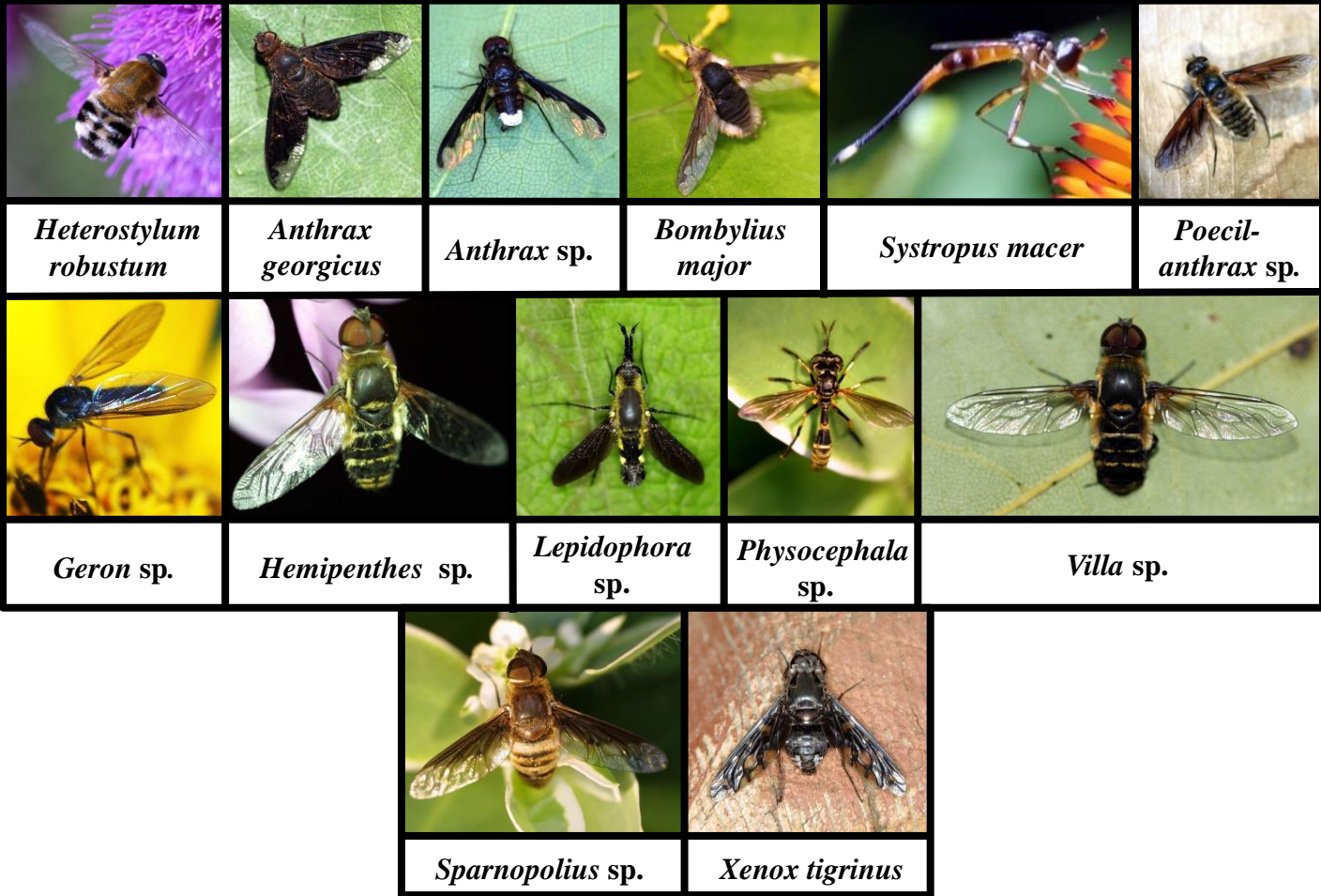
Family Culicidae - Mosquitoes



Aedes albopictus

Unidentified mosquitoes, larvae, and pupa

Family Bombyliidae –Bee Flies



Heterostylum robustum

Anthrax georgicus

Anthrax sp.

Bombylius major

Systropus macer

Poecilanthrax sp.

Geron sp.

Hemipenthes sp.

Lepidophora sp.

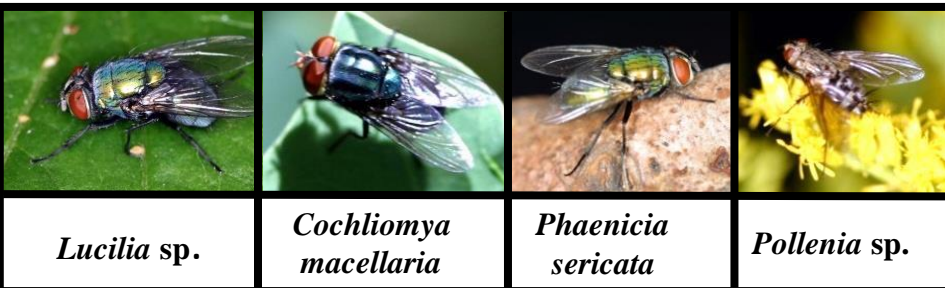
Physocephala sp.

Villa sp.

Sparnopolius sp.

Xenox tigrinus

Family Calliphoridae – Blow Flies



Lucilia sp.

Cochliomya macellaria

Phaenicia sericata

Pollenia sp.

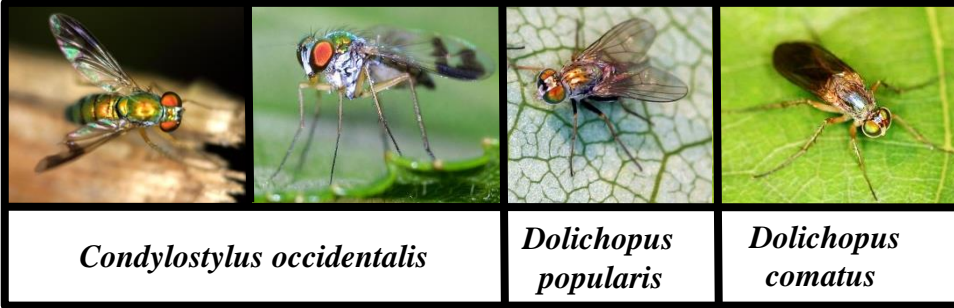
Family Dryomyzidae

Dryomyzid Flies

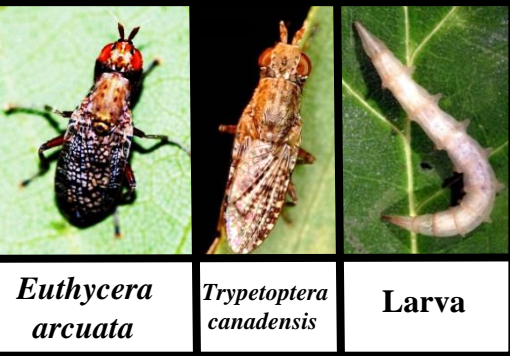


Dryomyza sp.

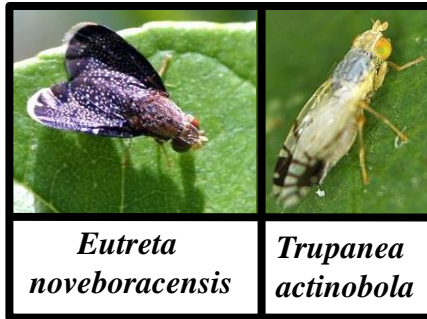
Family Dolichopodidae – Long-Legged Flies



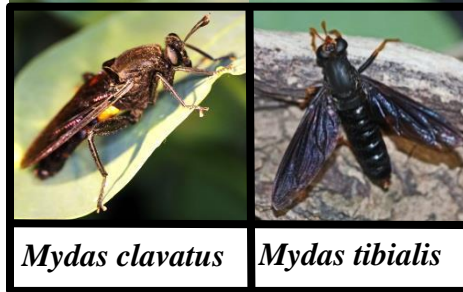
**Family Sciomyzidae
Marsh Flies**



**Family Tephritidae
Fruit Flies**



**Family Mydidae
Mydas Flies**



**Family Piophilidae
Skipper Flies**



**Family Lonchaeidae
Lonchaeid Flies**



**Family Planorpidae
Scorpion Flies**



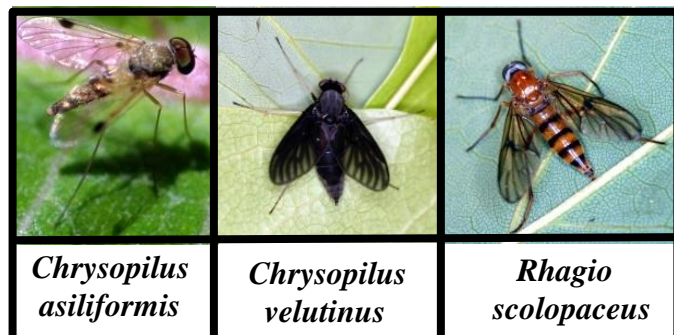
**Family Micropezidae
Stilt-Legged Flies**



**Family Platystomatidae
Platystomid Flies**



Family Rhagionidae – Snipe Flies



Family Psychodidae Family Chloropidae – Grass Flies and Eye Flies

Moth Flies



Psychoda sp.



Meromyza sp.

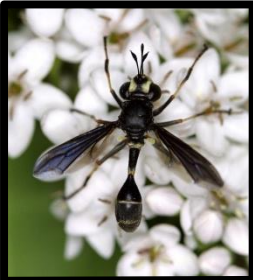


Paramyia nitens



Thaumatomyia glabra

Family Conopidae – Thick-Headed Flies



Physocephala sp. 1



Physocephala sp. 2



Physoconops sp.



Physoconops sp.



Physoconops sp.



Thecophora sp.



Thecophora sp.

**Family Simuliidae
Black Flies and Sand Flies**



Simulium sp.



Simulium sp.



Larva

**Family Sarcophagidae
Flesh Flies**



Sarcophaga haemorrhoidalis



Sarcophaga pernix

**Family Sciaridae
Dark-Winged Fungus Gnats**



Eugnoriste sp.

Family Chironomidae - Midges



Chironomus plumosus

Chironomus dilutus

Ablabesmyia sp.?

Coelotanypus tricolor



Axarus sp.?

Axarus festivus?

Cricotopus sp.?

Unidentified species



Unidentified species

Larvae

Family Stratiomyidae – Soldier Flies



Allognosta sp.

Hermetia illucens

Nemotelus sp.

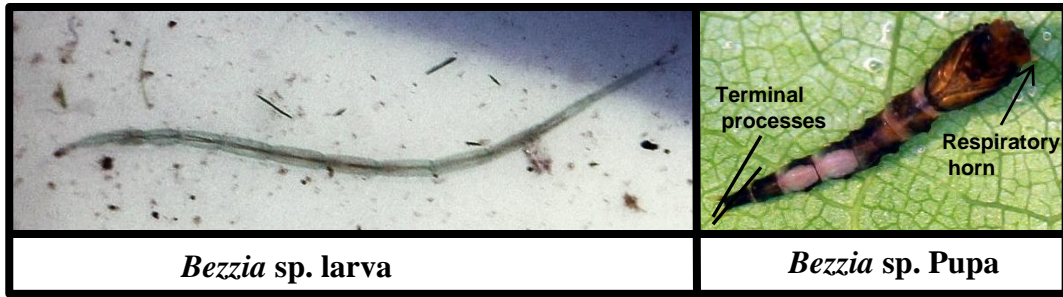
Odontomyia cincta

Stratiomys meigenii

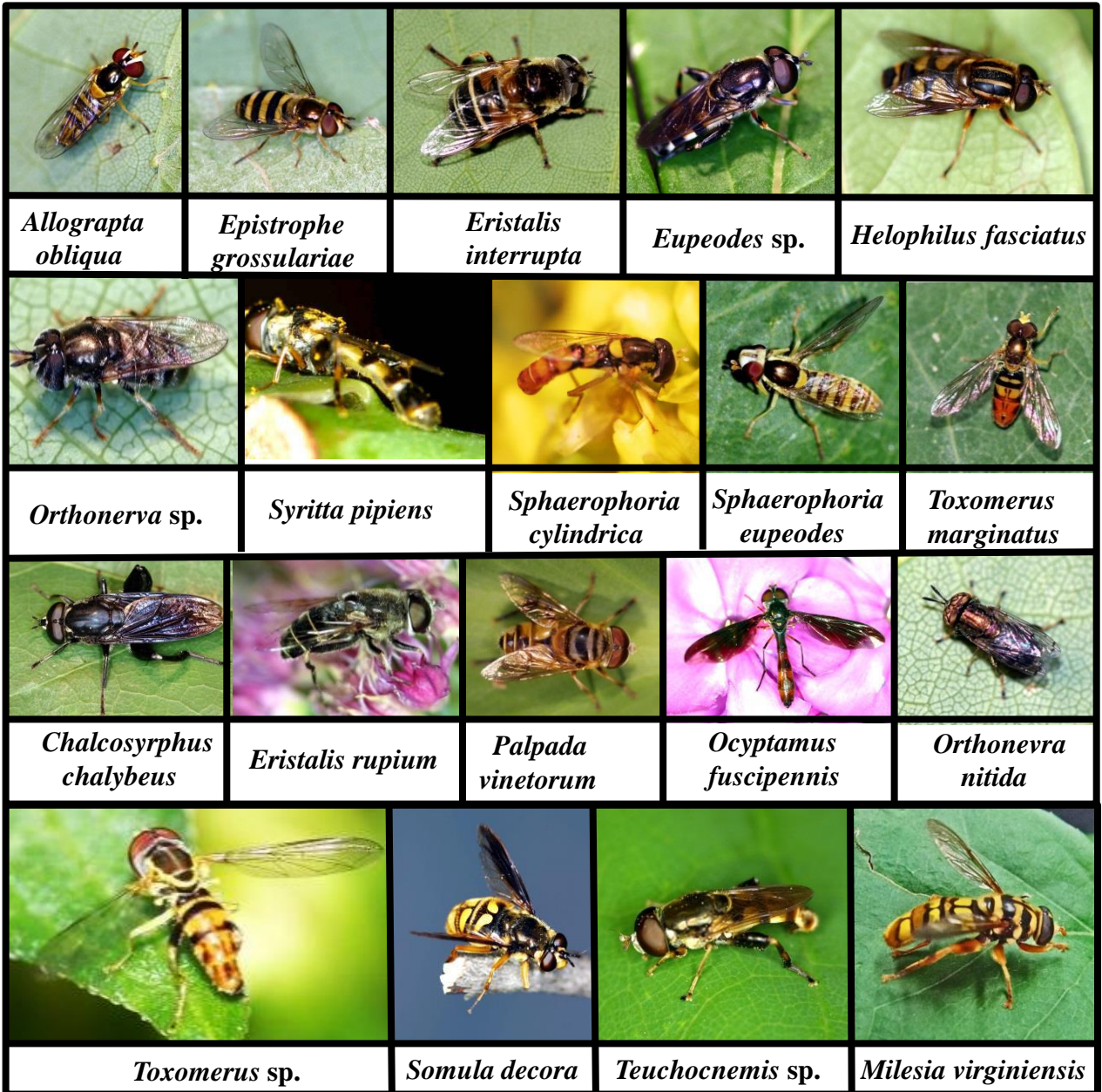


Larvae

Family Ceratopongidae – Biting Midges



Family Syrphidae – Flower Flies or Hover Flies



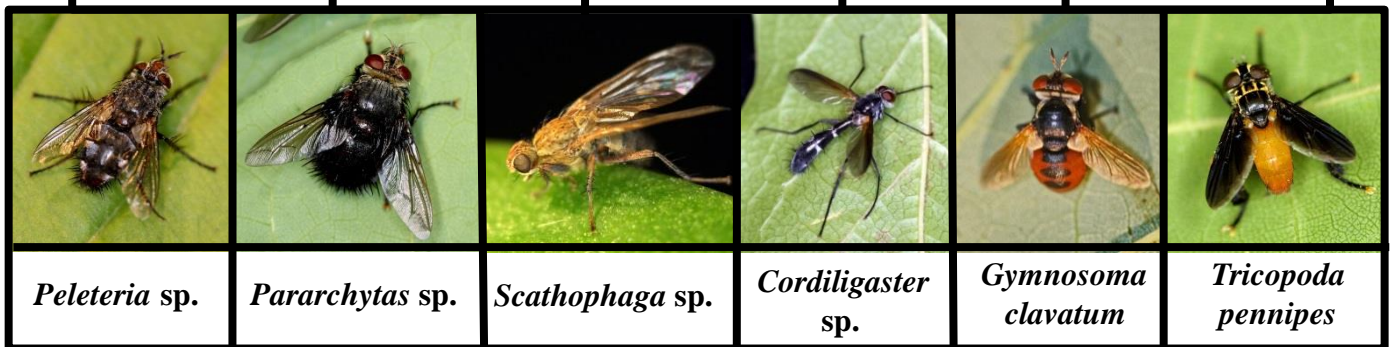
Family Ulidiidae – Picture-Winged Flies



Family Tabanidae – Horse Flies



Family Tachinidae – Parasitic Flies



Family Tipulidae – Crane Flies



Tipula furca



Tipula colei group



Nephrotoma eucera



Tipula abdominalis



Tipula paterifera



Epiphragma solatrix



Epiphragma fasciapenne



Gnophomyia tristissima



Various unidentified crane fly larvae



Bombus impatiens

Order Hymenoptera – Sawflies, Wasps, Bees and Ants

Family Andrenidae - Adrenid Bees



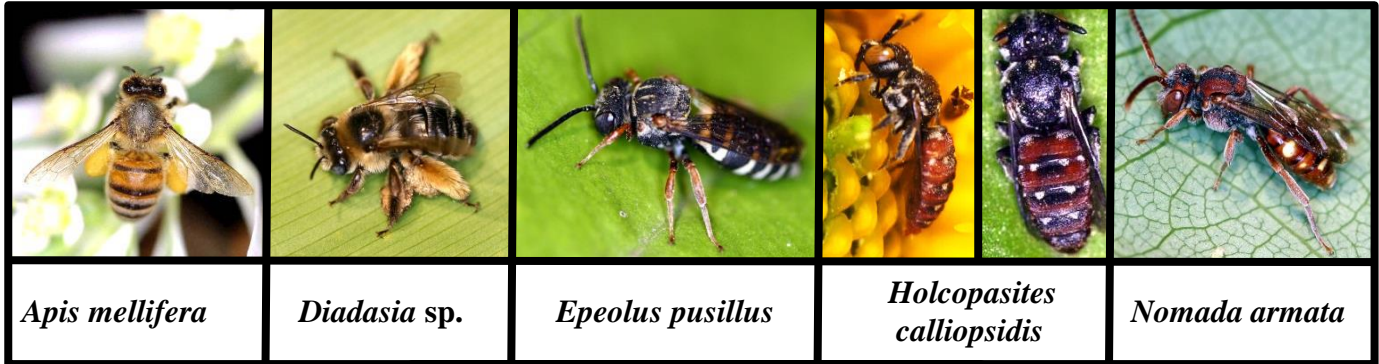
Andrena spp.

Family Bethlyidae Bethlyid Wasps

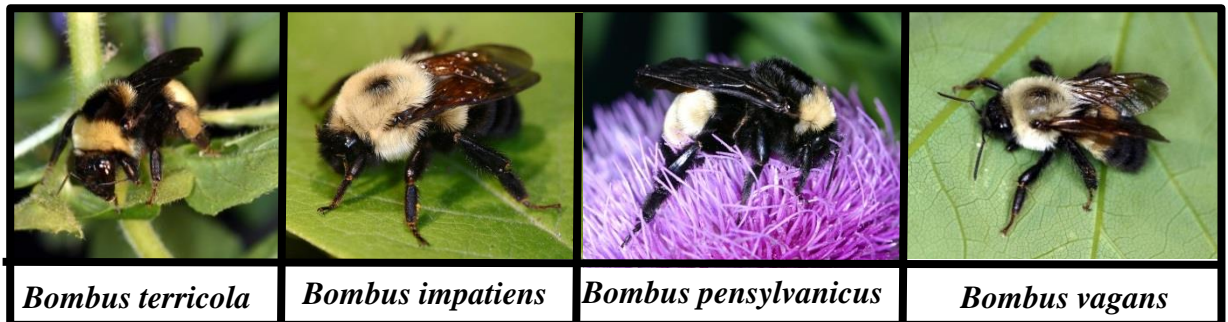


Laelius pedatus

Family Apidae - Carpenter Bees, Digger Bees, Honey Bees, and Bumble Bees



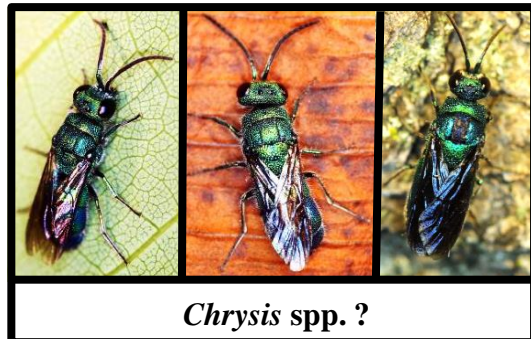
Subfamily Bombinae – Bumble Bees



Family Brachonidae – Braconid Wasps

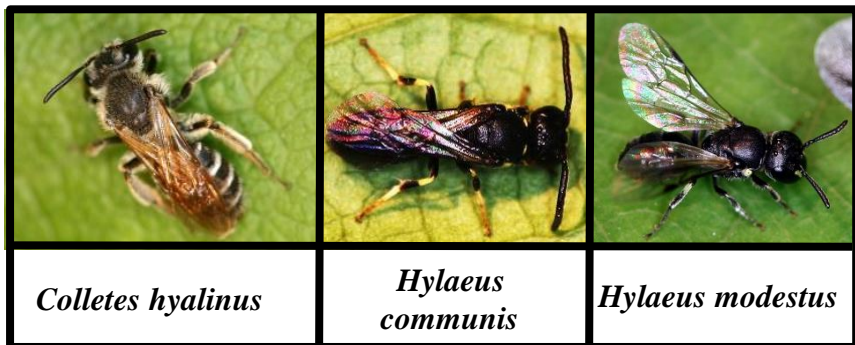


Family Chrysididae Cuckoo Wasps



Family Colletidae

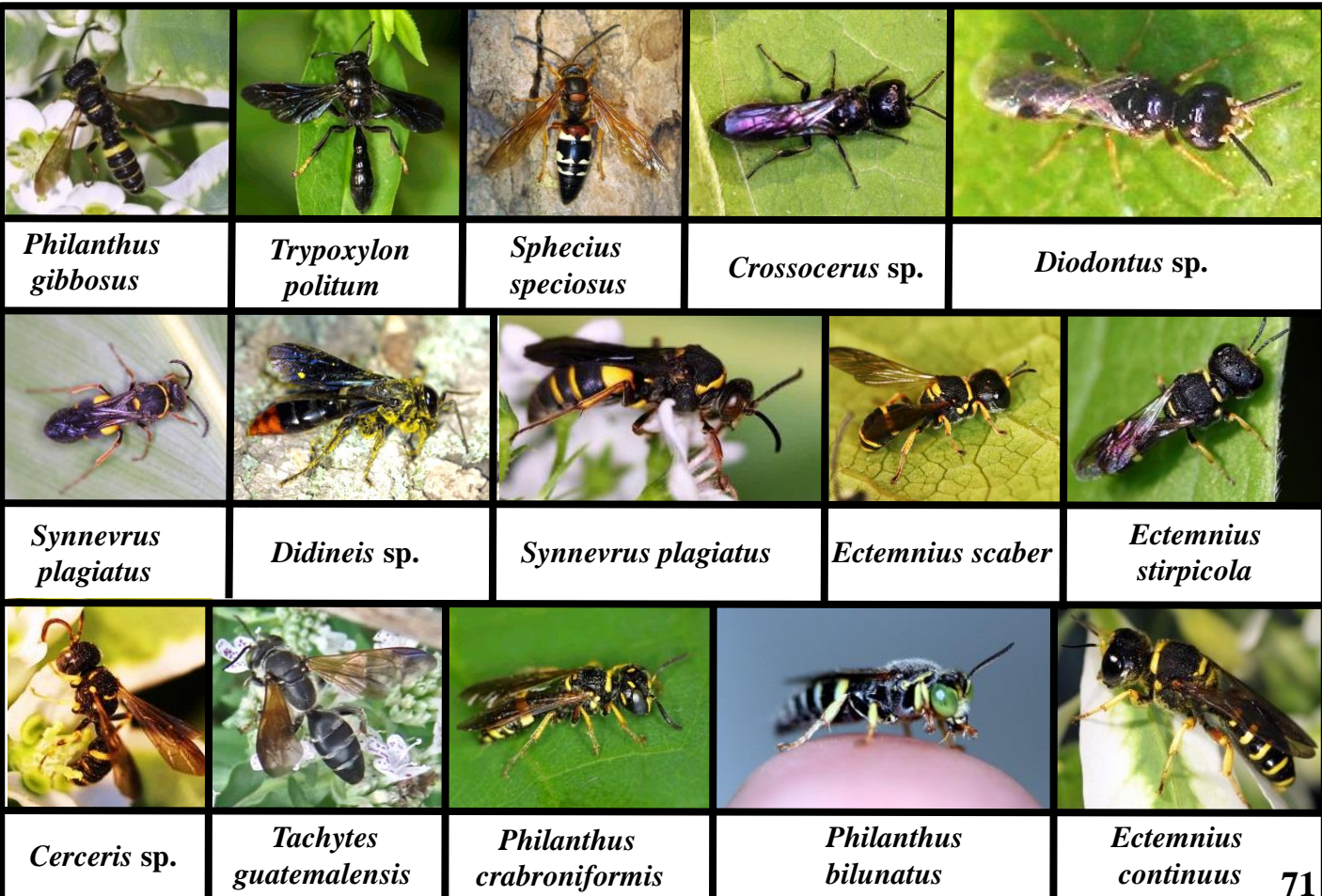
Plasterer Bees and Yellow-Faced Bees



Family Eurytomidae Seed Chalcids



Family Crabronidae – Digger Wasps and Relatives



Family Formicidae - Ants



Camponotus castaneus



Lasius sp. ?



Camponotus chromaiodes



Crematogaster sp.



Monomorium sp.



Formica sp.



Camponotus pennsylvanicus

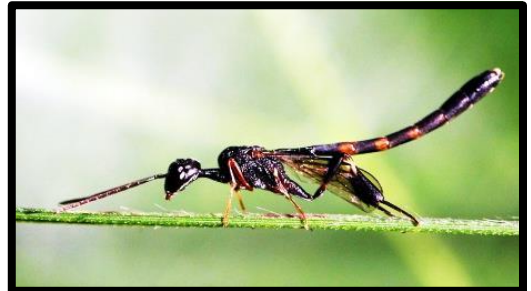


Camponotus sp.



Unknown species

Family Gasteruptiidae Gasteruptiid Wasps



Gasteruption assectatot

Family Evaniidae – Ensign Wasps



Hyptia sp.



Hyptia harpyoides



Hyptia sp.

Family Halictidae - Sweat Bees and Relatives



Agapostemon virescens



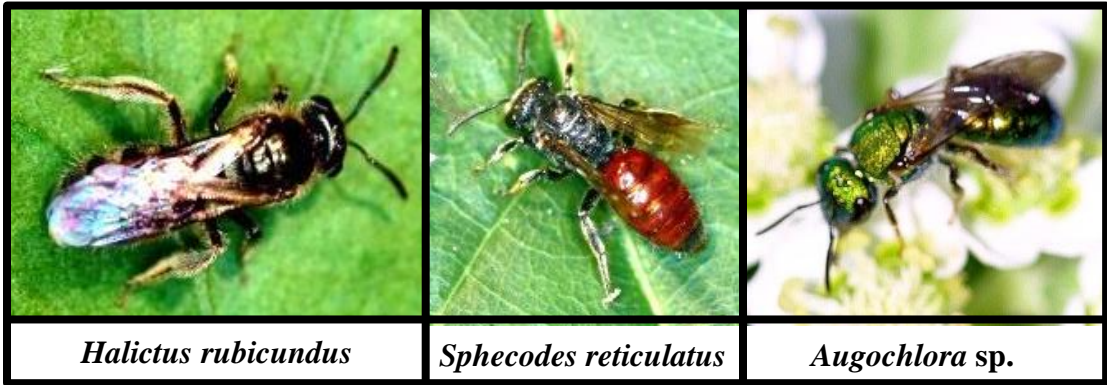
Lasioglossum spp.



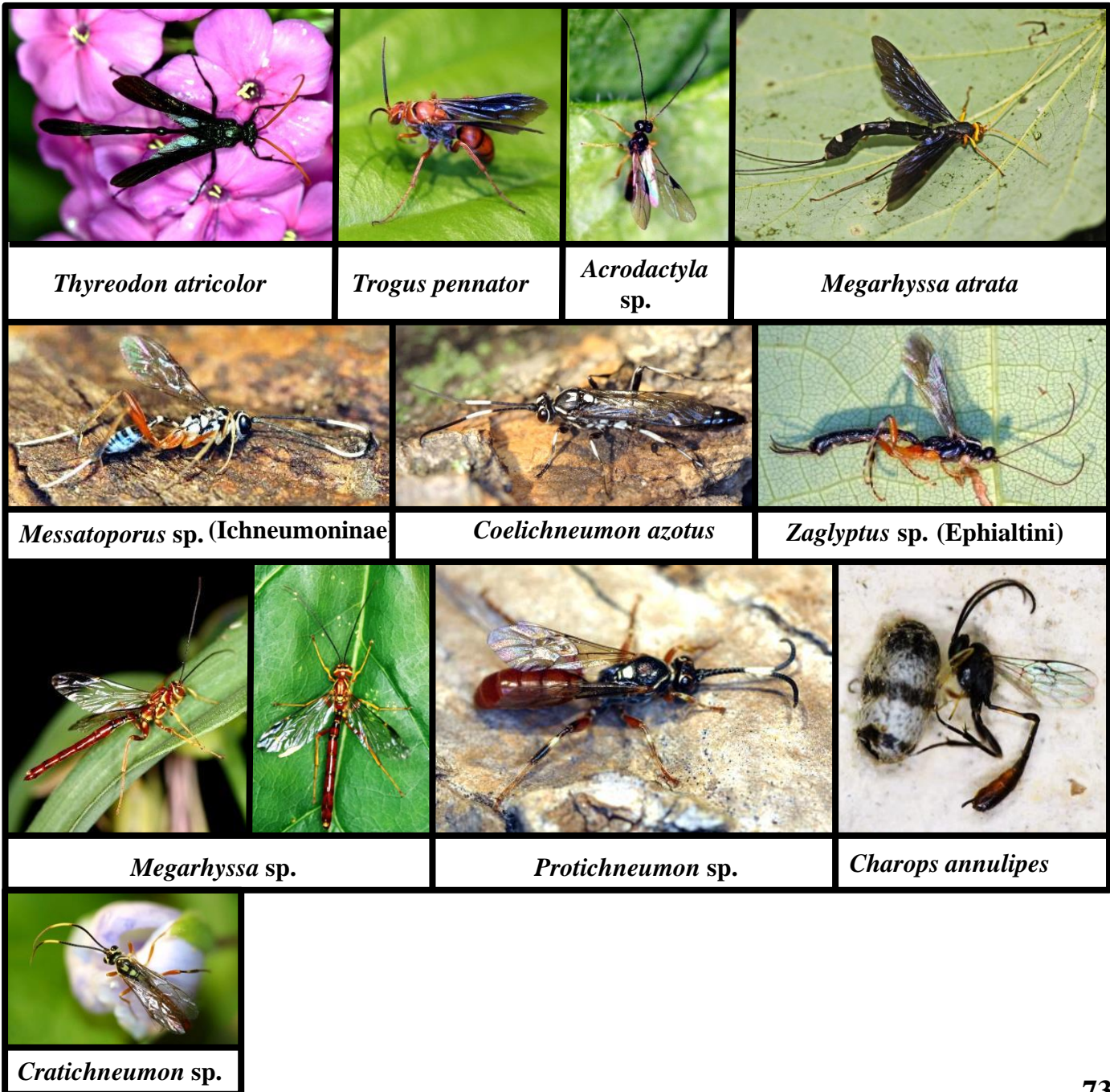
Agapostemon sp.



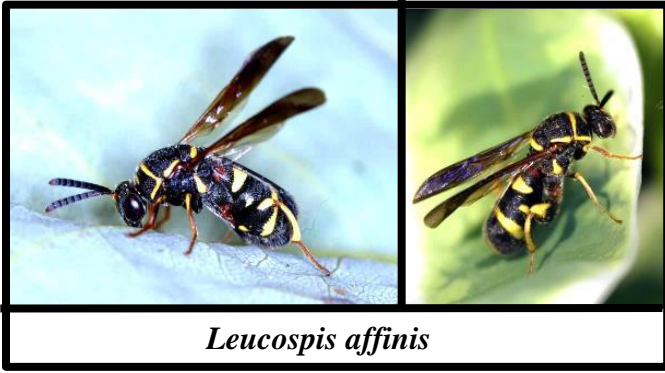
Family Halictidae - Sweat Bees and Relatives



Family Ichneumonidae – Ichneumonid Wasps

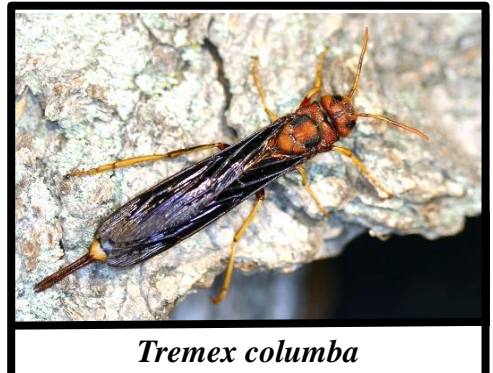


**Family Leucospidae
Parasitic Wasps**



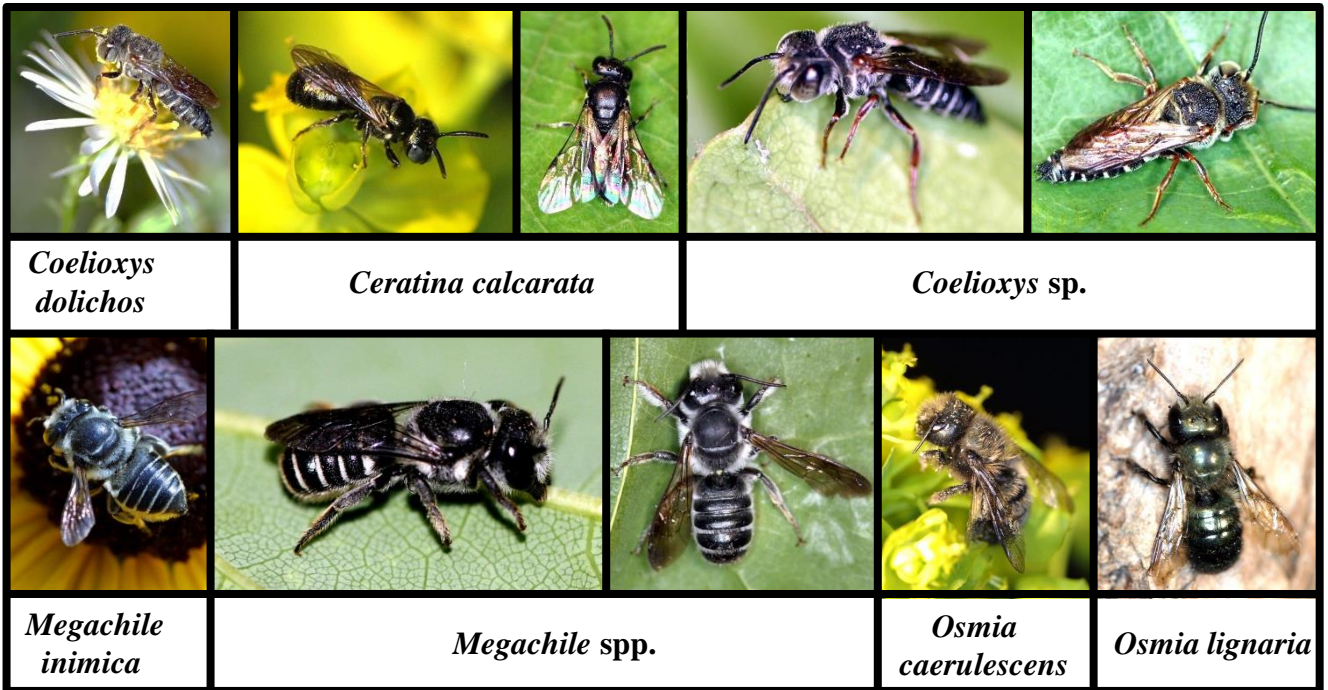
Leucospis affinis

**Family Siricidae
Horntails**

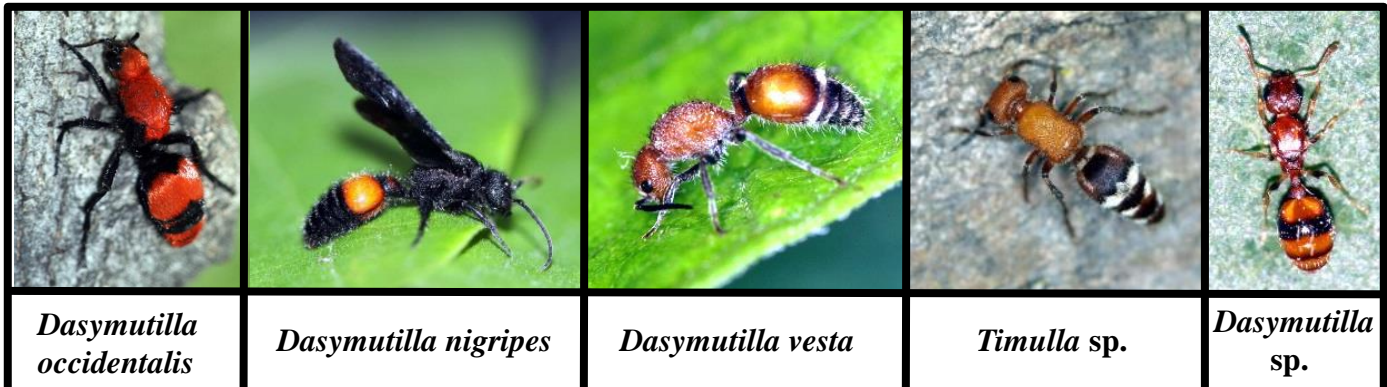


Tremex columba

Family Megachilidae - Leaf-Cutter Bees, Mason Bees, and Relatives



Family Mutillidae – Velvet Ants



Family Thynnidae
Thynnid Wasps



Myzinum quinquecinctum

Family Peleciniidae
Pelecinnid Wasps



Pelecinus polyturator

Family Pamphiliidae
Web-Spinning Sawflies



Pamphilius sp.

Family Perilampidae
Perilampid Wasps



Perilampus sp.

Perilampus canadensis

Family Pompilidae – Spider Wasps



Entypus fulvicornis

Agenioideus humilis

Auplopus sp.

Family Scoliidae
Scoliid Wasps



Scolia dubia

Scolia nobilata

Family Torymidae
Torymid Wasps



Monodontomerus sp.



Entypus unifasciatus

Anoplius americanus

Family Tenthredinidae – Common Sawflies

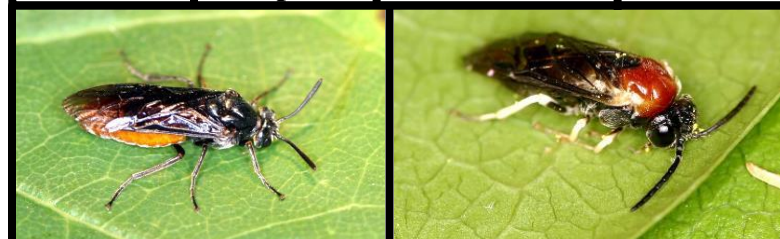


Cladius difformis

Macrophyta sp.

Tenthredo atra

Arge humeralis



Eutomostethus luteiventris

Eutomostethus ephippium

Family Sphecidae – Thread-Wasted Wasps



Astata sp.

Podium luctuosum

Prionyx parkeri

Ammophila procera

*Spheg
ichneumonias*



*Isodontia
mexicana*

Prionyx sp.

*Chalybion
californicum*

*Spheg
pennsylvanicus*

Philanthus bilunatus



*Sceliphron
caementarium*



*Eremnophila
aureonotata*

Family Tiphiidae – Tiphiid Wasps



*Myzinum carolinianum
or obscurum*




















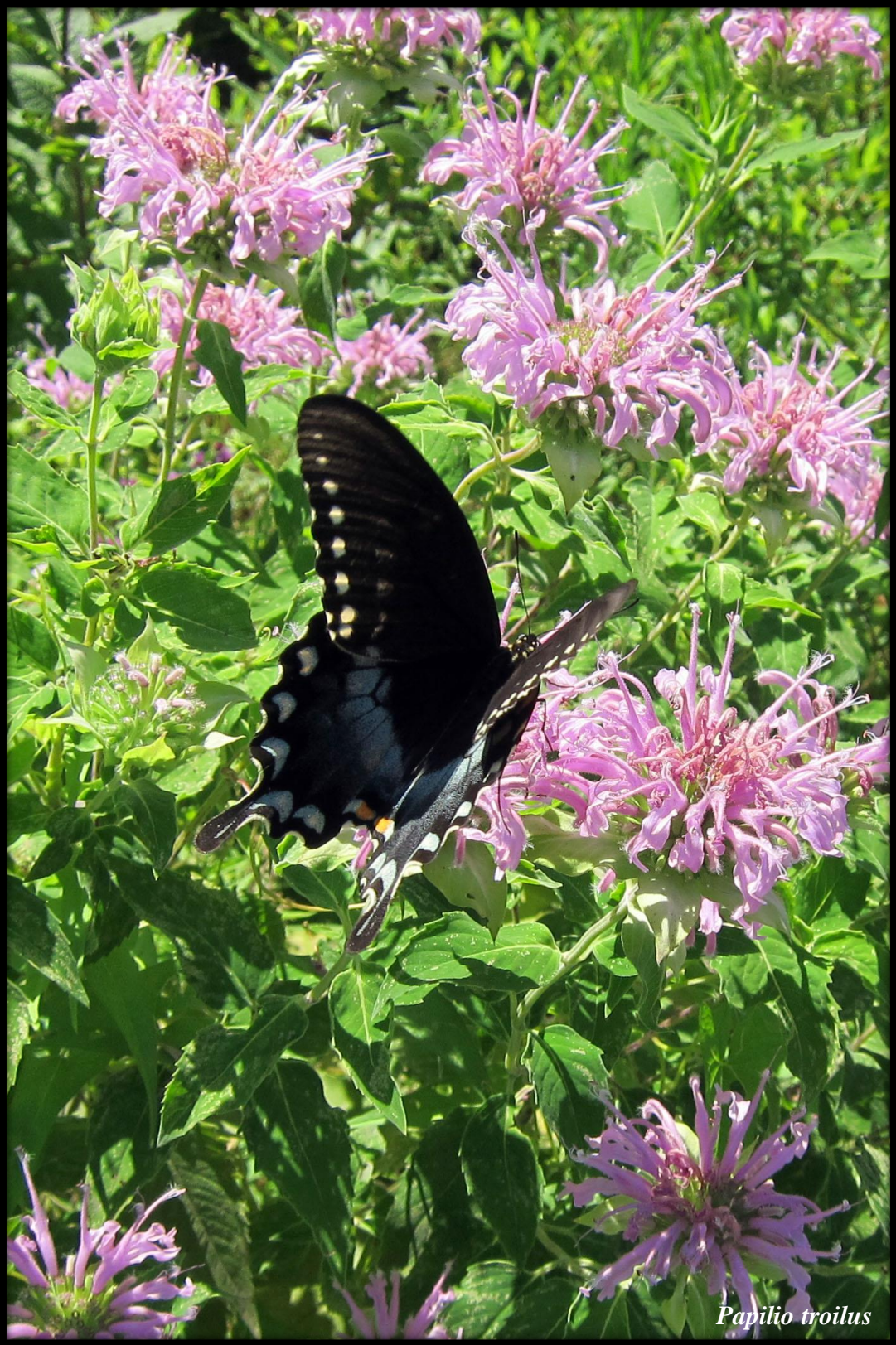
Myzinum quinquecinctum



Tiphia sp.

Family Vespidae – Yellowjackets, Hornets and Relatives

				
<i>Ancistrocerus campestris</i>	<i>Ancistrocerus antilope</i>	<i>Dolichovespula maculata</i>	<i>Eumenes fraternus</i>	
				
<i>Euodynerus hidalgo</i>	<i>Monobia quadridens</i>	<i>Polistes annularis</i>	<i>Vespula flavopilosa</i>	
				
<i>Polistes dorsalis</i>	<i>Polistes metricus</i>	<i>Pseudodynerus quadrisectus</i>	<i>Vespa crabro</i>	<i>Vespa vulgaris</i>
				
<i>Polistes dominula</i>	<i>Vespula germanica</i>	<i>Vespula squamosa</i>	<i>Zethus spinipes</i>	



Papilio troilus

Order Lepidoptera - Butterflies and Moths

Superfamily Papilionoidea – Scudders

Family Papilionidae - Swallowtails



Black Swallowtail , *Papilio polyxenes asterius*, showing variation in pattern, especially hindwings



Black Swallowtail , *Papilio polyxenes asterius*, showing ventral view of adult (left), various larval instars, and the orange-colored osmeterium which protrudes from behind the head when the caterpillar is disturbed by predators. This organ concentrates aromatic chemicals from the caterpillar's food plant like parsley or carrot leaves. When the predators smell, taste, or both, the sensation could cause the predators to spit out the caterpillar. The last figure (right) shows a black swallowtail caterpillar preparing for its pupal stage known as a chrysalis.



Black Swallowtail chrysalis

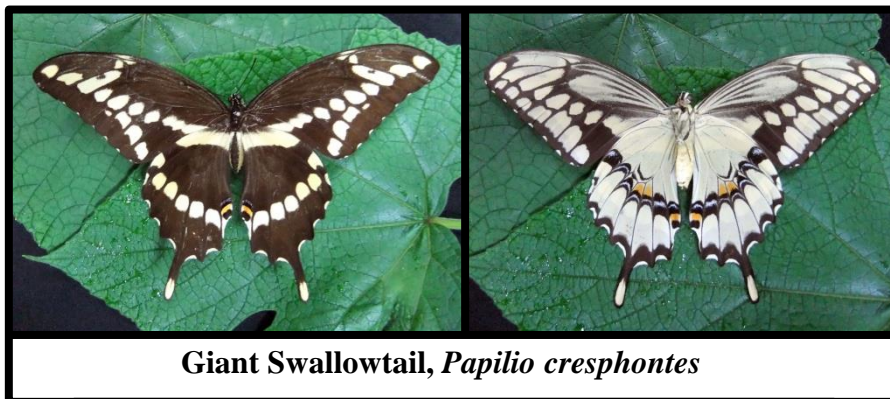
Spicebush Swallowtail, *Papilio troilus*, dorsal and ventral view, caterpillar and chrysalis



Pipevine swallowtail , *Battus philenor*, dorsal and ventral view, and chrysalis

Tiger Swallowtail, *Papilio glaucus*

Family Papilionidae - Swallowtails



Giant Swallowtail, *Papilio cresphontes*



Zebra Swallowtail, *Eurytides marcellus*

Family Pieridae – Whites and Sulphurs



The Alfalfa Butterfly , *Colias eurtheme*, showing variants



Little Yellow Sulphur
Eurema lisa



Large Orange Sulphur, *Phoebis agarithe*



Pieris sisymbri
sisymbri ?



Cloudless sulphur, *Phoebis sennae*

Checkered White, *Pontia protodice*

Family Nymphalidae – Brush-Footed Butterflies



Great Spangled Fritillary, *Speyeria cybele*

Red-Spotted Purple, *Limenitis arthemis*, and caterpillar



Pearl Crescent, *Phyciodes tharos*

Snout butterfly, *Libytheana carinenta bachmanii*



Red Admiral, *Vanessa atalanta*

American Painted Lady
Vanessa virginiensis



American Painted Lady. *Vanessa virginiensis*

Buckeye Butterfly, *Junonia coenia*

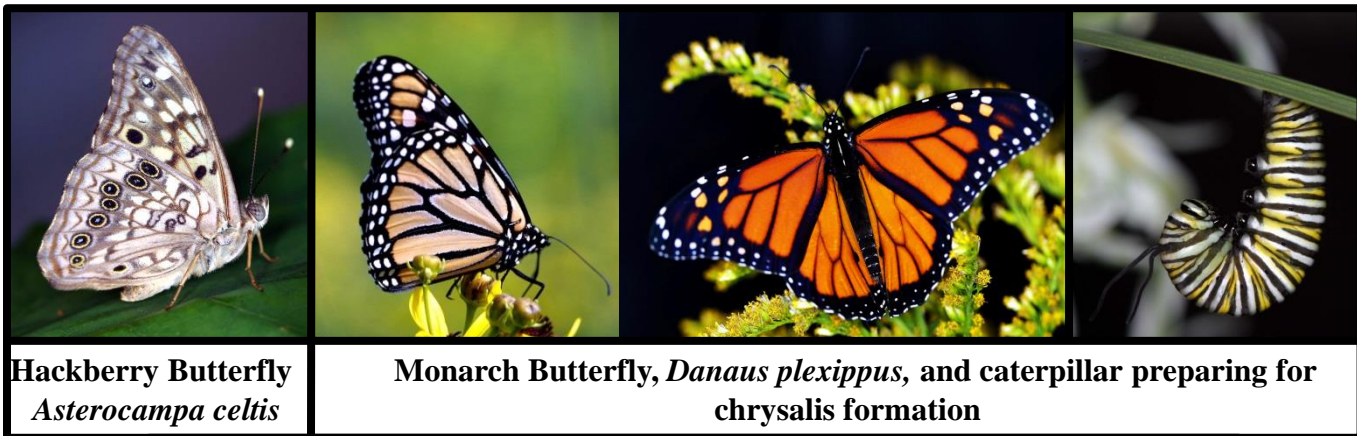


Buckeye Butterfly
Junonia coenia

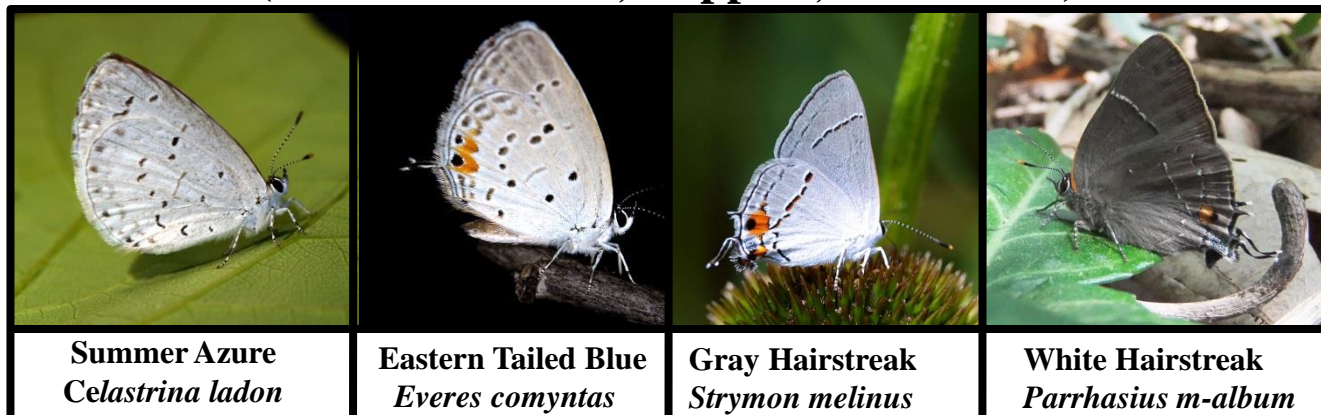
Variegated Fritillary, *Euptoieta claudia*

Hackberry Butterfly
Asterocampa celtis

Family Nymphalidae – Brush-Footed Butterflies



Family Lycaenidae – Little Butterflies (Hairsteaks Blues, Coppers, Harvesters)



Superfamily Hesperioidea
 Family Hesperidae - Skippers



Common Ceckered Skipper ,
Pyrgus communis, and
 caterpillar

Wild Indigo Dusky
 Wings
Erynni babtisiae

Clitus Duskywing
Erynnis juvenalis clitus

Fiery Skipper
Hylephila
p. phyleus



Fiery Skipper
Hylephila
p. phyleus

Least Skipper
Ancyloxypha
numitor

Peck's Skipper, *Polites peckius*

Hobomok Skipper
Poanes hobomok



Zabulon Skipper
Poanes zabulon

Silver-Spotted Skipper, *Epargyreus clarus*, and caterpillar



Juvenal's Duskywing
Erynnis juvenalis

Common Roadside
 Skipper
Amblyscirtes vialis

Family Apatelodidae - Apatelodid Moths



Spotted Apatelodes Moth
Apateloides torrefacta

Family Arctiidae - Lichen Moths and Tiger Moths



Woolly Bear caterpillar
Pyrrharctia isabella



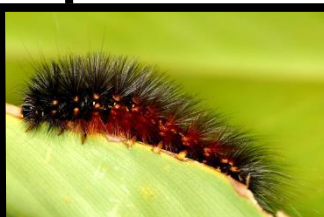
Agreeable Tiger Moth caterpillar
Spilosoma congrua



Banded Tussock Moth caterpillar
Halysidota tessellaris



Fall Webworm caterpillar
Hyphantria cunea



Giant Leopard Moth and caterpillar
Epantheria scribonia



Sycamore Tussock Moth caterpillar
Halysidota harrisii



Sycamore Tussock Moth caterpillar with hymenopteran parasite pupal cocoons many of which have emerged.



Milkweed Tussock Moth caterpillar
Euchaetes egle



Virginian Tiger Moth caterpillar
Spilosoma virginica

Family Bombycidae – Bombycid Moths



Eastern Tent Caterpillar *Malacocoma americanum*

Family Crambidae – Grass Moths



Achyra rantalis



Celery Leafier
Udea rubigalis



Grape Leafroller, *Desmia funeralis*



European Corn
Borer
Ostrinia nubilalis



Garden Webworm
Achyra rantalis



Lucerne Moth
Nomophila nearctica



Grass-Veneer Moth
Parapediasia sp.



Spotted Beet
Worm Moth
*Hymenia
perspectalis*

Family Drepanidae – Hook-Tips and Thyatirid Moths



Rose Hook-Tip Moth
Oreta rosea

Family Elachistidae – Grassminer Moths

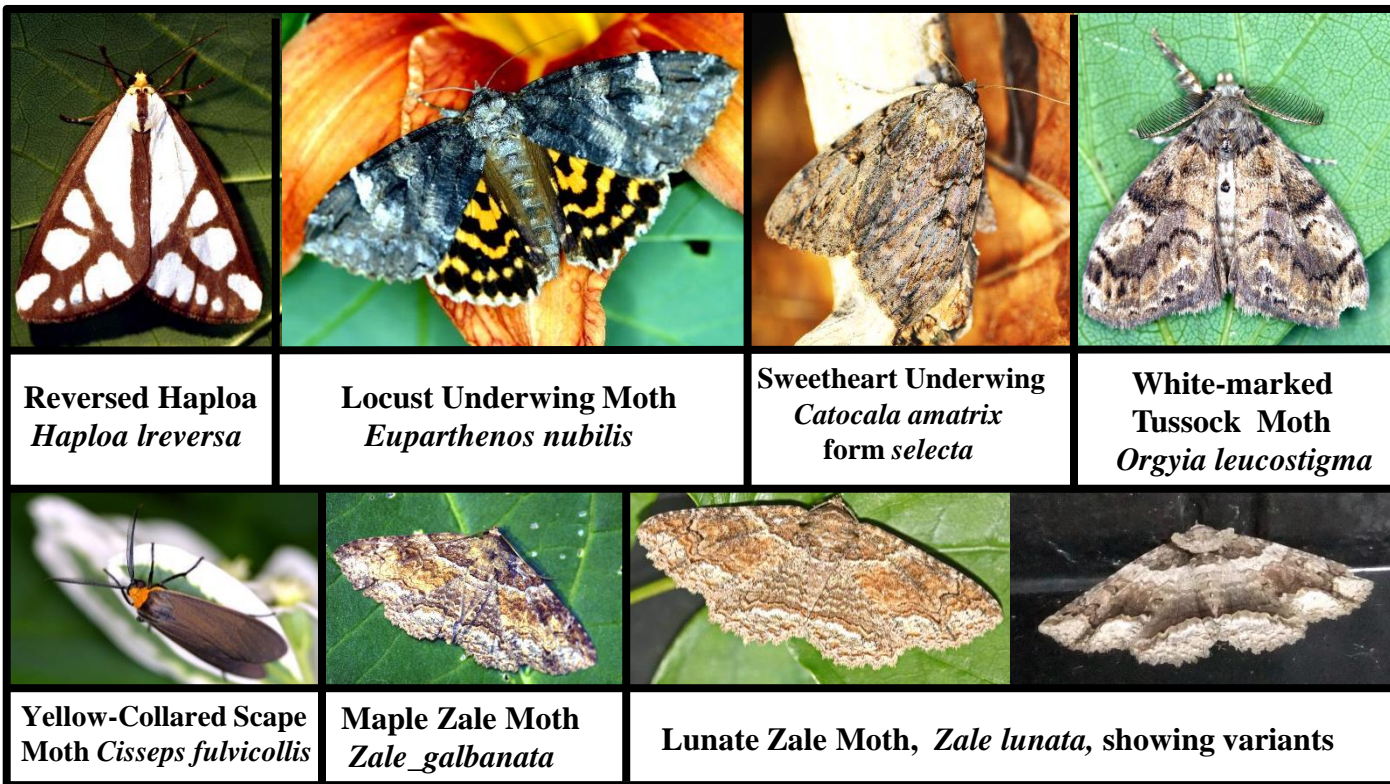


Clemens Agonopterix
Moth, *Agonopterix
clemensella*

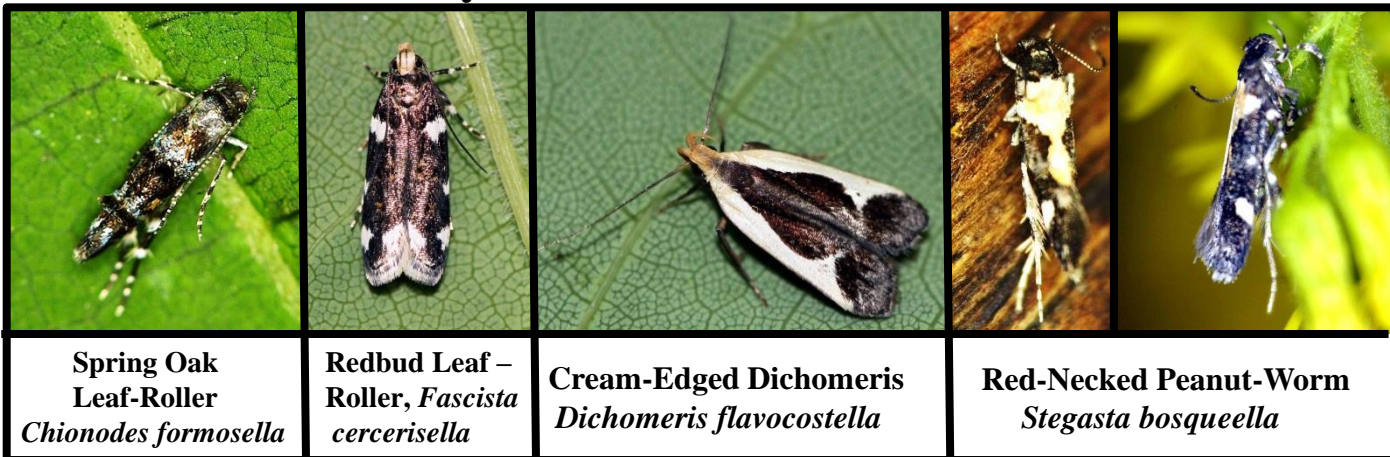
Family Erebididae – Tussock Moths, Tiger Moths, Litter Moths, Snouts, Owlets, Underwings, and Looper Moths

<p>Iliia Underwing <i>Catocala ilia</i></p>	<p>Blackwitch , <i>Ascalapha odorata</i></p>	<p>Penitent Underwing <i>Catocala piatrix</i></p>	<p>Delicate Cycnia <i>Cycnia tenera</i></p>	
<p>Faint Spotted Palthis <i>Palthis asopialis</i></p>	<p>Forage Looper <i>Caenurgina erechtea</i></p>	<p>Four spotted fungus moth, <i>Metalectra quadrisignata</i></p>	<p>Hazel Zale Moth <i>Zale phaeocapna</i></p>	
<p>Green Cloverworm, <i>Hypena scabra</i>, showing variants</p>				<p>Dead Wood Borer Caterpillar <i>Scolecocampa liburna</i></p>

Family Erebidae – Tussock Moths, Tiger Moths, Litter Moths, Snouts, Owlets, Underwings, and Looper Moths



Family Gelechiidae – Twirler Moths



Family Geometridae – Carpets, Pugs, Infants, Waves, and Typical Geometers



Family Geometridae – Carpets, Pugs, Infants, Waves, and Typical Geometers



<p>Birch Angle Moth <i>Macaria notata</i></p>	<p>Chickweed Geometer <i>Haematopsis grataria</i></p>	<p>Common Gray <i>Anavitrinella pampinaria</i></p>	<p>The Beggar Moth <i>Eubaphe mendica</i></p>
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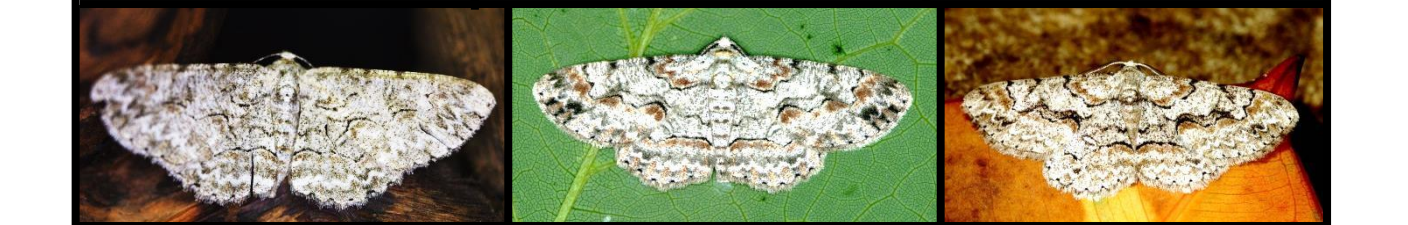
<p>Common Tan Wave <i>Pleuroprucha insularia</i></p>	<p>Crocus Geometer <i>Xanthotype urticaria</i></p>	<p>False Crocus Geometer <i>Xanthotype urticaria</i></p>	<p>Juniper Twig Geometer <i>Patalene olyzonaria</i></p>
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Large Lace Border Moth , *Copula limboundata*, showing variants

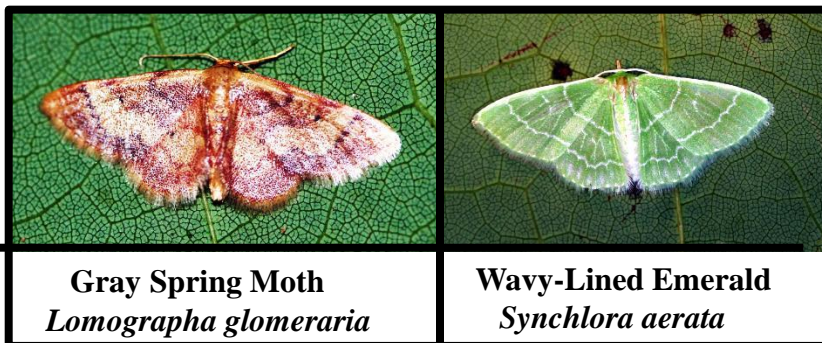


<p>One-Spotted Variant Moth <i>Hypagyrtis unipunctata</i></p>	<p>Yellow-headed Looper <i>Lambdina pellucidaria</i></p>	<p>Large Maple Spanworm <i>Prochoerodes lineola</i></p>
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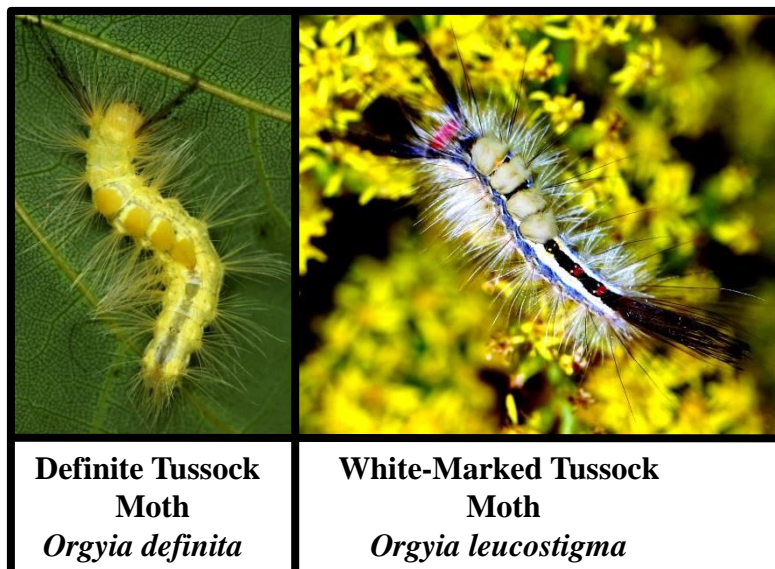


Large Purplish Gray , *Iridopsis vellivolata*, showing variants

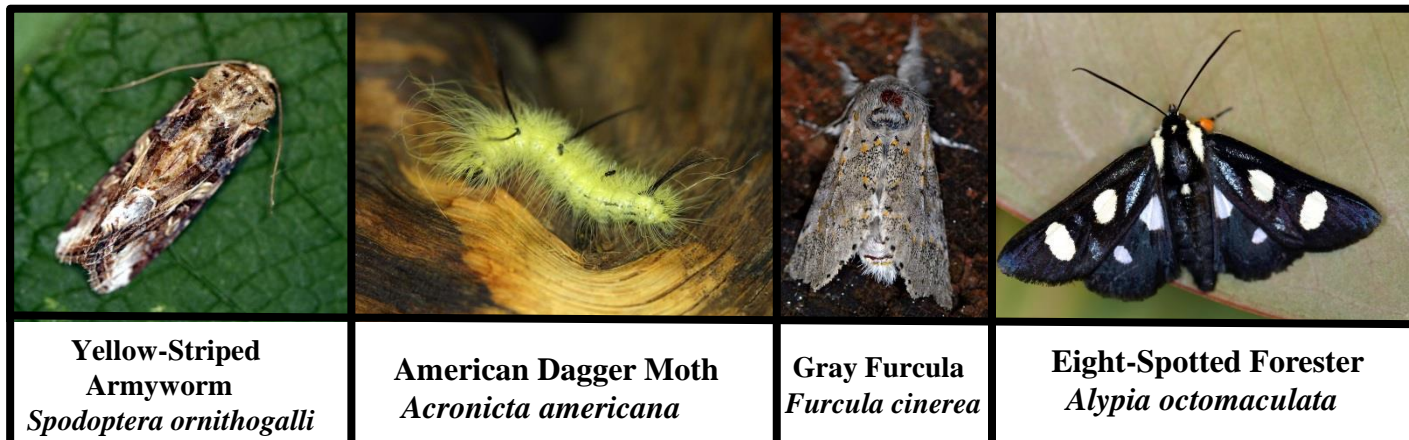
Family Geometridae – Carpets, Pugs, Infants, Waves, and Typical Geometers



Family Lymantriidae – Tussock Moths



Family Noctuidae – Baileyas, Nycteolas, Loopers, Glyphs, Hieroglyphic Moths, Bird-Dropping Moths, Daggers/Sallows, Hooded Qwlets, Wood-Nymphs/Foresters, Flower Moths, Fern Moths, and more.



Family Noctuidae – (continued)



Afflicted Dagger Moth
Acronicta afflicta

Great Oak Dagger Moth
Acronicta lobeliae

Arcigera Flower Moth
Shinia arcigera

Bristly Cutworm Moth
Lacinipolia renigera

Bicolored Wood Grain Moth
Morrisonia evicta



Bristly Cutworm Moth
Lacinipolia renigera

Looper Moth
Caenurgina sp.

Celery Looper
Anagrapha falcifera

Cloaked Marvel
Chytonix palliatricula

Clover Looper Moth, *Caenurgina crassiuscula*



Iliia Underwing, *Catocala ilia* (see family Erebidae)

Common Looper
Autographa precatationis

Common Sprageia
Spragueia leo



Beautiful Wood Nymph
Eudryas grata

Sloping Sallow Moth
Epiglaea decliva

Distinct Quaker Moth
Achatia distincta

Dingy Cutworm
Feltia jaculifera

Corn Earworm Moth
Heliothis zea

Family Noctuidae – (continued)



Exposed Bird- Dropping Moth
Tarache aprica



Fingered Dagger Moth
Acronicta dactylina



Forage Looper Moth
Caenurgina erechtea



Fingered Dagger Moth
Acronicta dactylina



Grotes Sallow Moth
Copivaleria grotei



Ipsilon Dart Moth
Agrotis ipsilon



Pleasant Dagger Moth
Acronicta laetifica



Banded Quaker
Protorthodes incincta



Speared Dagger Moth
Acronicta hasta



Retarded Dagger Moth
Acronicta retardata



Exposed Bird-Dropping Moth (female)
Tarache aprica



Washedout Zale
Zale metatoides



Interrupted Dagger
Acronicta interrupta



Florida Fern Moth
Callopistria floridensis



Henry's Marsh Moth
Simyra henrici



Yellow-Stripped Armyworm caterpillar
Spodoptera ornithogalli











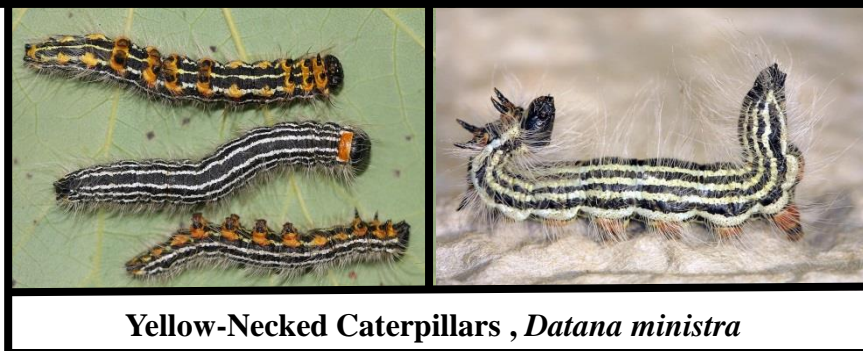
Eight-Spotted Forrester Moth caterpillar,
Alypia octomaculata



Zebra Moth caterpillar
Melanchra picta



Family Notodontidae - Prominents

			
Contracted Datana caterpillar <i>Datana contracta</i>	Unidentified Notodontid caterpillar	Checkered-Fringe Pominent caterpillar <i>Schizura ipomoeae</i>	Drexels Datana Caterpillar <i>Datana drexelii</i>
			
Small Heterocampa Moth <i>Heterocampa subrotata?</i>	White-Spotted Prominent Moth, <i>Nadata gibbosa</i>	White Furcula Moth <i>Furcula borealis</i>	Walnut Caterpillar Moth, <i>Datana integerrima</i>

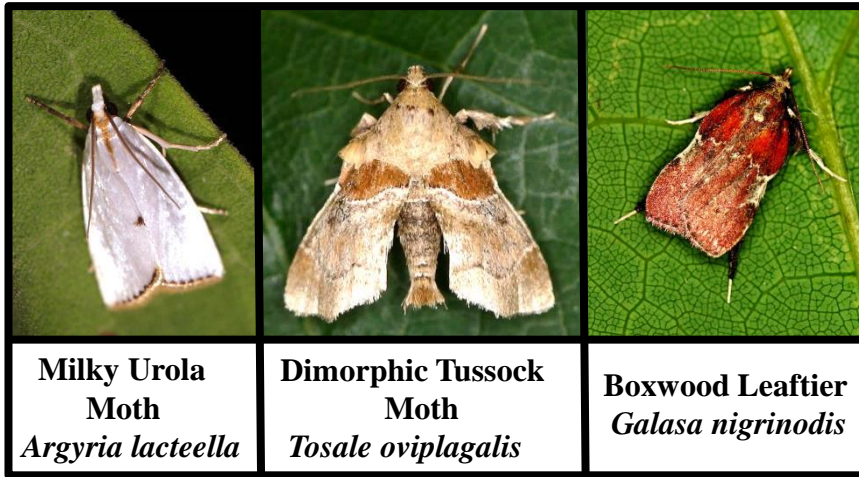


Yellow-Necked Caterpillars , *Datana ministra*

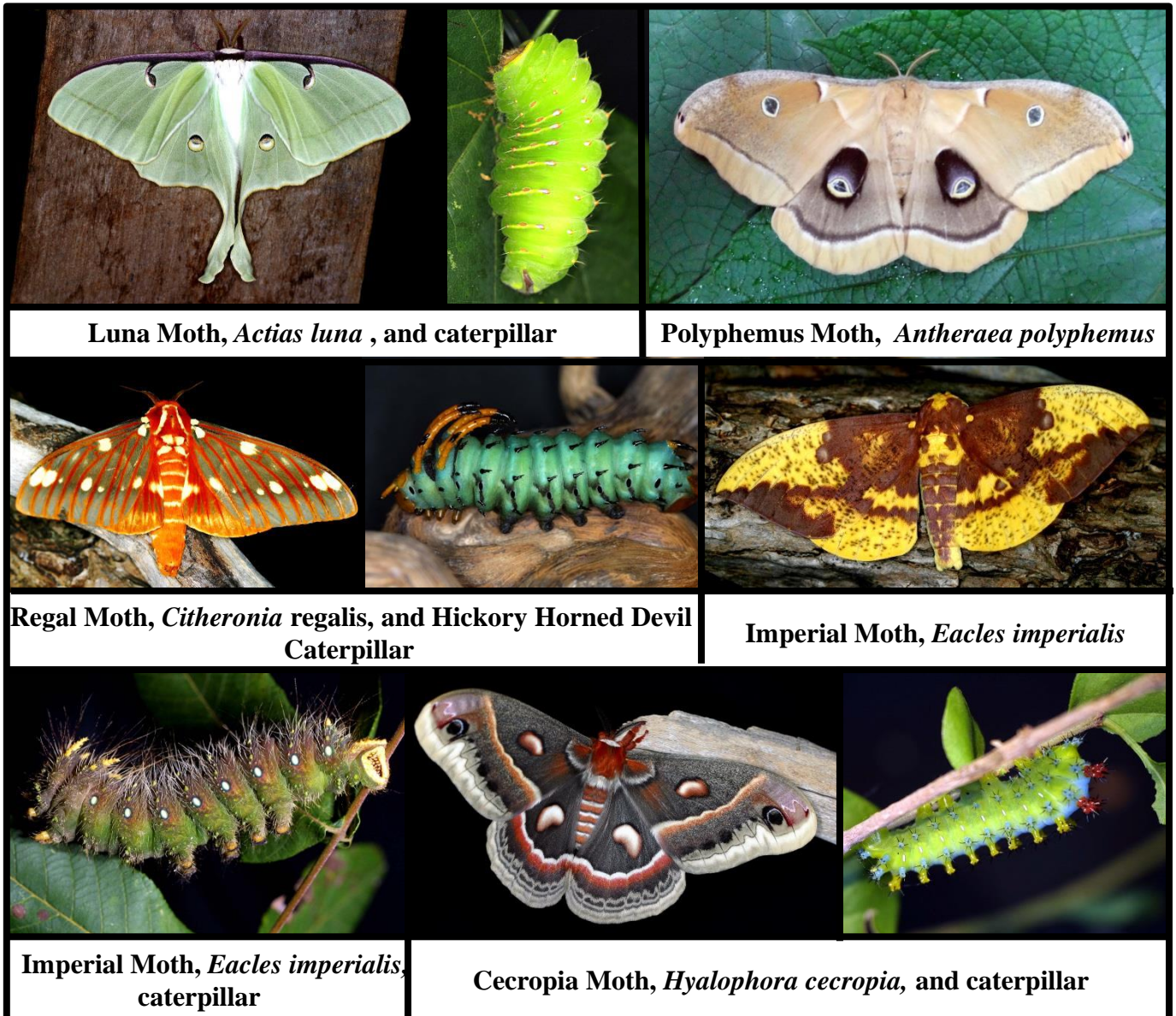
Family Pterophoridae – Plum Moths

	
Buck's Plum Moth <i>Geina bucksi</i>	Grape Plume Moth <i>Geina periscelidactylus</i>

Family Pyralidae – Phycitine Moths



Family Saturniidae – Royal Silkworm Moths



Family Saturniidae
Royal Silkworm Moths














Saturniid (Ceratocampinae) genus *Syssphinx*? (left) and Eastern Tent Caterpillar *Malacosoma americana* (right)

Family Sesiidae
Clearwing Borers

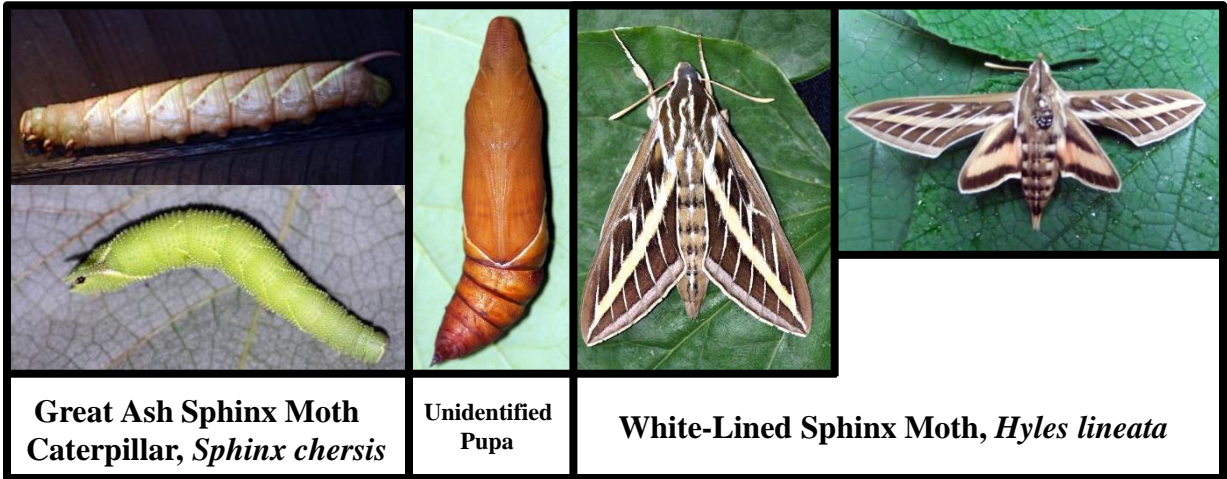


Clearwing Borer Moth, *Synanthedon* sp.

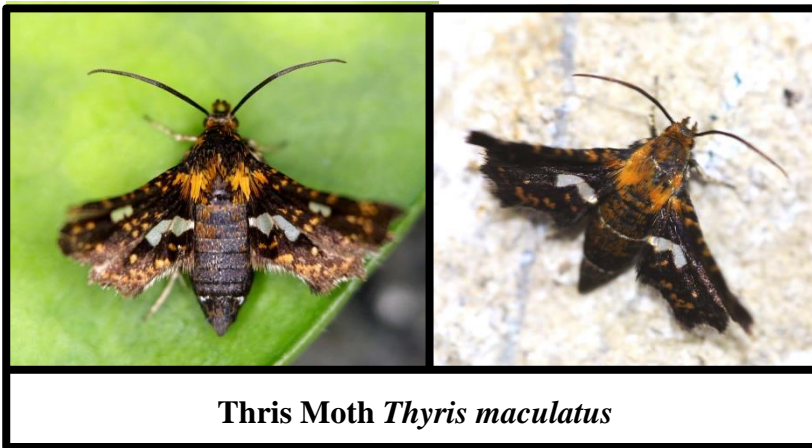
Family Sphingidae - Sphinx Moths

			
Snowberry Clearwing <i>Hemaris diffinis</i>	Hummingbird Clearwing <i>Hemaris thysbe</i>	Virginia Creeper Sphinx <i>Darapsa choerilus</i>	
			
Waved Sphinx <i>Ceratomia undulosa</i>	Blinded Sphinx <i>Paonias excaecatus</i>	Hog Sphinx <i>Darapsa myron</i>	Lettered Sphinx <i>Deidamia inscriptum</i>
			
Achemon Sphinx <i>Eumorpha achemon</i>	Catalpa sphinx <i>Ceratomia catalpae</i>	Tobacco Hornworm, <i>Manduca sexta</i> with parasitoids	White-lined sphinx (<i>Hyles lineata</i>), also called The Hummingbird Moth caterpillar

Family Sphingidae - Sphinx Moths



Family Thyrididae –Thris Moths



-FINI-



Keep an eye out for insects. They are everywhere.