

Appendix 5: Fauna Known to Occur on Fort Drum

LIST OF FAUNA KNOWN TO OCCUR ON FORT DRUM as of January 2017. Federally listed species are noted with FT (Federal Threatened) and FE (Federal Endangered); state listed species are noted with SSC (Species of Special Concern), ST (State Threatened, and SE (State Endangered); introduced species are noted with I (Introduced).

INSECT SPECIES

Except where otherwise noted all insect and invertebrate taxonomy based on (1) Arnett, R.H. 2000. American Insects: A Handbook of the Insects of North America North of Mexico, 2nd edition, CRC Press, 1024 pp; (2) Marshall, S.A. 2013. Insects: Their Natural History and Diversity, Firefly Books, Buffalo, NY, 732 pp.; (3) Bugguide.net, 2003-2017, <http://www.bugguide.net/node/view/15740>, Iowa State University.

ORDER EPHEMEROPTERA--Mayflies

Taxonomy based on (1) Peckarsky, B.L., P.R. Fraissinet, M.A. Penton, and D.J. Conklin Jr. 1990. Freshwater Macroinvertebrates of Northeastern North America. Cornell University Press. 456 pp; (2) Merritt, R.W., K.W. Cummins, and M.B. Berg 2008. An Introduction to the Aquatic Insects of North America, 4th Edition. Kendall Hunt Publishing. 1158 pp.

FAMILY LEPTOPHLEBIIDAE—Pronggilled Mayflies

Habrophleboides sp.
Habrophlebia sp.
Leptophlebia sp.
Paraleptophlebia sp.

FAMILY CAENIDAE—Small Squaregilled Mayflies

Brachycercus sp.
Caenis sp.

FAMILY EPHEMERELLIDAE—Spiny Crawler

Mayflies

Caurinella sp.
Drunela sp.
Ephemerella sp.
Eurylophella sp.
Serratella sp.

FAMILY LEPTOHYPHIDAE—Little Stout Crawler

Mayflies

Tricorythodes sp.

FAMILY EPHEMERIDAE—Common Burrower

Mayflies

Ephemera sp.
Hexagenia sp.
Litobrancha sp.

FAMILY POLYMITARCYDAE—Pale Burrower

Mayflies

Ephoron sp.

FAMILY POTAMANTHIDAE—Hacklegilled Burrower

Mayflies

Anthopotamus sp.

FAMILY AMELETIDAE—Combmouthed Minnow

Mayflies

Ameletus sp.

FAMILY BAETIDAE—Small Minnow Mayflies

Acentrella sp.
Acerpenna sp.
Baetis sp.
Callibaetis sp.
Centroptilum sp.
Dipheter sp.
Heterocloeon sp.
Paracloeodes sp.
Plauditus sp.
Procloeon sp.
Pseudocentroptiloides sp.
Pseudocloeon sp.

FAMILY METREPODIDAE—Clefffooted Minnow

Mayflies

Siphloplecton basale
Siphloplecton sp.

FAMILY SIPHLONURIDAE—Primitive Minnow

Mayflies

Siphonisca aerodromia Tomah Mayfly
Siphonisca sp.
Siphonurus sp.

FAMILY HEPTAGENIIDAE—Flatheaded Mayflies

Epeorus sp.
Heptagenia sp.
Leucrocuta sp.
Maccaffertium vicarium
Maccaffertium sp.
Macdunnoa sp.
Stenacron sp.
Stenonema femoratum
Stenonema sp.

FAMILY ISONYCHIIDAE—Brushlegged Mayflies

Isonychia bicolor
Isonychia sp.

ORDER ODONATA—Damselflies & Dragonflies

Taxonomy based on: (1) Mead, K. 2003. Dragonflies of the North Woods. Kollath-Stensaas Publishing, Duluth, MN. 203 pp. (2) Nikula, B., J. L. Loose, and M. R. Burne. 2003. A Field Guide to the Dragonflies and Damselflies of Massachusetts. Massachusetts Division of Fisheries & Wildlife, Westborough, MA. 197 pp.

FAMILY CALOPTERYGIDAE—Broad-winged

Damselflies

<i>Calopteryx maculata</i>	Ebony Jewelwing
<i>Calopteryx amata</i>	Superb Jewelwing
<i>Calopteryx aequabilis</i>	River Jewelwing

FAMILY LESTIDAE—Spread-wing Damselflies

<i>Lestes disjunctus</i>	Common Spreadwing
<i>Lestes forcipatus</i>	Sweetflag Spreadwing
<i>Lestes congener</i>	Spotted Spreadwing
<i>Lestes vigilax</i>	Swamp Spreadwing
<i>Lestes inaequalis</i>	Elegant Spreadwing
<i>Lestes rectangularis</i>	Slender Spreadwing

FAMILY COENAGRIONIDAE—Pond Damselflies

<i>Chromagrion conditum</i>	Aurora Damselfly
<i>Enallagma ebrium</i>	Marsh Bluet
<i>Enallagma hageni</i>	Hagen's Bluet
<i>Enallagma exsulans</i>	Stream Bluet
<i>Enallagma geminatum</i>	Skimming Bluet
<i>Enallagma signatum</i>	Orange Bluet
<i>Amphiagrion saucium</i>	Eastern Red Damsel

<i>Ischnura verticalis</i>	Eastern Forktail
<i>Ischnura posita</i>	Fragile Forktail
<i>Nehalennia irene</i>	Sedge Sprite
<i>Argia fumipennis</i>	Variable Dancer
<i>Argia moesta</i>	Powdered Dancer

FAMILY AESHNIDAE—Darners

<i>Basiaeschna janata</i>	Springtime Darner
<i>Epiaeschna heros</i>	Swamp Darner
<i>Aeschna umbrosa</i>	Shadow Darner
<i>Aeschna tuberculifera</i>	Black-tipped Darner
<i>Aeschna canadensis</i>	Canada Darner
<i>Aeschna verticalis</i>	Green-striped Darner
<i>Aeschna constricta</i>	Lance-tipped Darner
<i>Aeschna mutata</i>	Spatardock Darner
<i>Aeschna clepsydra</i>	Mottled Darner
<i>Gomphaeschna furcillata</i>	Harlequin Darner
<i>Anax junius</i>	Common Green Darner
<i>Boyeria vinosa</i>	Fawn Darner

FAMILY GOMPHIDAE—Clubtails

<i>Hagenius brevistylus</i>	Dragonhunter
<i>Gomphus exilis</i>	Lancet Clubtail
<i>Gomphus lividus</i>	Ashy Clubtail
<i>Gomphus spicatus</i>	Dusky Clubtail

<i>Dromogomphus spinosus</i>	Black-shouldered Spinyleg
<i>Progomphus obscurus</i>	Common Sanddragon
<i>Arigomphus furcifer</i>	Lilypad Clubtail
<i>Arigomphus villosipes</i>	Unicorn Clubtail
<i>Lanthus sp.</i>	
<i>Stylogomphus albistylus</i>	Least Clubtail

FAMILY CORDULEGASTRIDAE—Spiketails

<i>Cordulegaster diastatops</i>	Delta-spotted Spiketail
<i>Cordulegaster maculata</i>	Twin-spotted Spiketail
<i>Cordulegaster oblique</i>	Arrowhead Spiketail

FAMILY MACROMIIDAE—Cruisers

<i>Didymops transversa</i>	Stream Cruiser
<i>Macromia illinoensis</i>	Swift River Cruiser

FAMILY CORDULIIDAE—Emeralds

<i>Somatochlora williamsoni</i>	Williamson's Emerald
<i>Epitheca cynosure</i>	Common Baskettail
<i>Epitheca canis</i>	Beaverpond Baskettail
<i>Epitheca spinigera</i>	Spiny Baskettail
<i>Epitheca princeps</i>	Prince Baskettail
<i>Cordulia shurtleffii</i>	American Emerald
<i>Dorocordulia libera</i>	Racket-tailed Emerald

FAMILY LIBELLULIDAE—Skimmers

<i>Perithemis tenera</i>	Eastern Amberwing
<i>Pachydiplax longipennis</i>	Blue Dasher
<i>Erythemis simplicicollis</i>	Eastern Pondhawk
<i>Libellula incesta</i>	Slaty Skimmer
<i>Ladona julia</i>	Chalk-fronted Corporal
<i>Plathemis lydia</i>	Common Whitetail
<i>Libellula pulchella</i>	Twelve-spotted Skimmer
<i>Libellula luctuosa</i>	Widow Skimmer
<i>Libellula semifasciata</i>	Painted Skimmer
<i>Libellula quadrimaculata</i>	Four-spotted Skimmer
<i>Celithemis elisa</i>	Calico Pennant
<i>Celithemis eponina</i>	Halloween Pennant
<i>Sympetrum internum</i>	Cherry-faced Meadowhawk
<i>Sympetrum obtrusum</i>	White-faced Meadowhawk
<i>Sympetrum vicinum</i>	Autumn Meadowhawk
<i>Sympetrum semicinctum</i>	Band-winged Meadowhawk
<i>Leucorrhinia intacta</i>	Dot-tailed Whiteface
<i>Leucorrhinia frigida</i>	Frosted Whiteface
<i>Leucorrhinia proxima</i>	Red-waisted Whiteface
<i>Tamea lacerate</i>	Black Saddlebags

ORDER PHASMIDA--Walkingsticks

FAMILY DIAPHEROMERIDAE

Diaperomera femorata (Northern Walkingstick)

ORDER DERMAPTERA--Earwigs

FAMILY FORFICULA

Forficula auricularia (European Earwig)

ORDER ORTHOPTERA—Grasshoppers, Crickets & Katydid

Taxonomy based on Capinera, J.L., R.D. Scott, and T.J. Walker 2005. Field Guide to Grasshoppers, Katydid, and Crickets of the United States., Comstock, 280 pp

FAMILY ACRIDIDAE—Short-horned Grasshoppers

<i>Chorthippus curtipennis</i>	Marsh Meadow Grasshopper
<i>Melanoplus bivittatus</i>	Two-striped Grasshopper
<i>Melanoplus femurrubrum</i>	Red-legged Grasshopper
<i>Melanoplus keeleri</i>	Keeler's Spur-throated Grasshopper
<i>Melanoplus sanguinipes</i>	Migratory Grasshopper
<i>Chortophaga viridifasciata</i>	N. Green-striped Grasshopper
<i>Arphia sulphurea</i>	Sulphur-winged Grasshopper
<i>Dissosteira carolina</i>	Carolina Grasshopper
<i>Spharagemon collare</i>	Mottled Sand Grasshopper

FAMILY TETTIGONIIDAE—Katydid

<i>Conocephalus brevipennis</i>	Short-winged Meadow Katydid
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<i>Amblycorypha oblongifolia</i>	Oblong-winged Katydid
<i>Scudderia furcata</i>	Fork-tailed Bush Katydid
<i>Metrioptera roesilii</i>	Roesel's Katydid

FAMILY RHAPHIDOPHORIDAE—Camel Crickets

Ceuthophilus sp.

FAMILY GRYLLIDAE—True Crickets

<i>Gryllus pennsylvanicus</i>	Fall Field Cricket
<i>Gryllus veletis</i>	Spring Field Cricket
<i>Eunemobius carolinus</i>	Carolina Ground Cricket
<i>Allonemobius sp.</i>	
<i>Oecanthus nigricornis</i>	Black-horned Tree Cricket

ORDER PLECOPTERA—Stoneflies

Taxonomy based on Stewart, K.W. and B.P. Stark. 2002. Nymphs of North American Stonefly Genera (Plecoptera), 2nd Edition. 510 pp

FAMILY CAPNIIDAE—Small Winter Stoneflies

Allocapnia sp.

FAMILY LEUCTRIDAE—Rolled-winged Stoneflies

Leuctra sp.

FAMILY NEMOURIDAE—Spring Stoneflies

Amphinemura sp.
Paranemura sp.
Shipsa rotunda
Soyedina sp.

FAMILY CHLOROPERLIDAE—Green Stoneflies

Sweltsa sp.
Haploperla sp.
Suwallia sp.
Utaperla sp.

FAMILY PERLIDAE—Common Stoneflies

Acronuria abnormis

Acronuria sp.
Beloneuria sp.
Eccoptura sp.
Perlesta sp.
Perlinella sp.
Agentina sp.
Neoperla sp.
Paragnetina sp.

FAMILY PERLODIDAE—Perlodid Stoneflies

Cliperla sp.
Isoperla orata
Isoperla sp.
Arcynopteryx sp.
Remenus sp.
Oconoperla sp.

FAMILY PTERONARCYIDAE—Giant Stoneflies

Pteronarcys sp.

ORDER MANTODEA--Mantids

FAMILY MANTIDAE

Mantis religiosa (European Mantis)

ORDER THYSANOPTERA--Thrips

FAMILY PHLAEOTHRIPIIDAE—Tube-tailed Thrips

UK Tube-tailed Thrips

ORDER HEMIPTERA—True Bugs

Taxonomic sources include Paiero, S.M., Marshall, S.A., McPherson, J.E., Ma, M.-S. 2013. Stink bugs (Pentatomidae) and parent bugs (Acanthosomatidae) of Ontario and adjacent areas: A key to species and a review of the fauna. Canadian Journal of Arthropod Identification No. 24, 1 September, 2013.

FAMILY CERCOPIIDAE—Spittlebugs

Aphrophora alni European Alder Spittlebug
Lepyronia quadrangularis Diamondback Spittlebug
Philaenus spumarius Meadow Spittlebug

FAMILY CLASTOPTERIDAE

Clastoptera proteus Dogwood Spittlebug
Clastoptera testacea

FAMILY CICADELLIDAE—Leafhoppers

Cuerna striata Red-and-black Leafhopper
Draeculacephala sp
Graphocephala coccinea Candy-striped Leafhopper
Graphocephala picta
Helochara communis
Neokolla hieroglyphica
Tylozygus bifidus
Coelidia olitoria
Athysanus argentarius Silvery Leafhopper
Chlorotettix sp.
Endria inimica Painted Leafhopper
Graminella fitchii
Idiodonus kennecottii
Latalus ocellaris
Penthimia americana
Scaphoideus sp.
Scaphytopius acutus Sharp-nosed Leafhopper
Argallia quadripunctata Four-spotted Clover
Leafhopper
Arboridia plena

FAMILY DERBIDAE—Derbid Planthoppers

Cedusa sp.

FAMILY DICTYOPHARIDAE—Dictyopharid Planthoppers

Scolops sulcipes Partridge Bug

FAMILY ACHILIDAE—Achilid Planthoppers

Catonia pumila Dwarf Catonia

FAMILY CICADIDAE—Cicadas

Neotibicen canicularis Dog Day Cicada

FAMILY MEMBRACIDAE—Treehoppers

Acutalis tartarea
Ceresa alta
Ceresa diceros
Ceresa lutea
Ophiderma definita
Publilia concava

FAMILY GERRIDAE—Water Striders

Limnoporus caniculatus
Metrobates sp.
Trepobates sp.
Rheumatobates sp.
Limnogonus sp.

FAMILY VELIIDAE—Small Water Striders

Microvelia sp.
Rhagovelia sp.

FAMILY HEBRIDAE—Velvet Water Bugs

Hebrus sp.

Merragata sp.

FAMILY MESOVELIIDAE—Water Treaders

Mesovelia sp.

FAMILY CORIXIDAE—Water Boatmen

Hesperocorixa sp.
Palmacorixa sp.
Trichocorixa sp.

FAMILY BELOSTOMATIDAE—Giant Water Bugs

Belostoma sp.

FAMILY NEPIDAE—Water Scorpions

Ranatra sp.

FAMILY NOTONECTIDAE—Backswimmers

Buenoa sp.

FAMILY OCHTERIDAE—Velvety Shore Bugs

Ochterus sp.

FAMILY SALDIDAE—Shore Bugs

Pentacora ligata

FAMILY NABIDAE—Damsel Bugs

Nabis subcoleopratus Black Damsel Bug
Nabis sp.

FAMILY TINGIDAE—Lace Bugs

Corythuca arcuate Oak Lace Bug

FAMILY MIRIDAE—Plant Bugs

Dicyphus famelicus
Adelphocoris lineolatus Alfalfa Plant Bug
Lygus lineolaris Tarnished Plant Bug
Lygus sp.
Metriorrhynchomiris dislocatus
Neurocolpus nubilus Clouded Plant Bug
Poecilocapsus lineatus Four-lined Plant Bug
Stenotus binotatus
Leptopterna dolabrata Meadow Plant Bug
Stenodema vicinum
Trigonotylus caelestialium Rice Leaf Bug
Ilnacora malina
Lopidea instabilis
Slaterocoris stygicus
Plagiognathus sp.

FAMILY CYDNIDAE—Burrowing Bugs

Microporus nigrita

FAMILY REDUVIIDAE—Assassin Bugs

Acholla multispinosa
Sinea diadema Spined Assassin Bug
Zelus luridus Pale Green Assassin Bug
Phymata americana/
pennsylvanica Jagged Ambush Bug

FAMILY LYGAEDAE

Lygaeus kalmia (Small Milkweed Bug)

FAMILY ALYDIDAE—Broad-headed Bugs

Alydus conspersus
Alydus eurinus Black Broad-headed Bug

FAMILY COREIDAE—Leaf-footed Bugs

Acanthocephala terminalis
Leptoglossus occidentalis W. Conifer Seed Bug

FAMILY RHOPALIDAE—Scentless Plant Bugs

Harmostes reflexulus
Arhyssus nigristernum
Stictopleurus punctiventris

FAMILY ARTHENEIDAE

Chilacis typhae Cattail Bug

FAMILY BERYTIDAE—Stilt Bugs

Jalysus sp.

FAMILY ACANTHOSOMATIDAE—Shield Bugs

Elacmostethus cruciatus Red-crossed Shield Bug

FAMILY PENTATOMIDAE—Stink Bugs

Apoecilus bracteatus
Picromerus bidens Predatory Stink Bug
Podisus brevispinus
Podisus maculiventris Spined Soldier Bug
Stiretrus anchorago Anchor Stink Bug
Neottiglossa undata
Cosmopepla lintneriana Twice-stabbed Stink Bug
Euschistus servus Brown Stink Bug

Euschistus tristigmus Dusky Stink Bug
Mormidea lugens
Brochymena arborea
Brochymena quadripustulata Four-humped Stink Bug
Chinavia hilaris Green Stink Bug
Banasa dimidiata
Thyanta custator Red-shouldered Stink Bug

FAMILY SCUTELLARIDAE—Shield-backed Bugs

Homaemus aeneifrons

FAMILY THYREOCORIDAE—Ebony Bugs

Corimelaena sp.

FAMILY APHIDIDAE—Aphids

Uroleucon sp. Red Aphid
Aphis nerii Oleander Aphid
Prociphilus tessellatus Woolly Alder Aphid

FAMILY TRIOZIDAE

Phylloplecta tripunctata Blackberry Psyllid

FAMILY COCCIDAE—Soft Scale Insects

Parthenolecanium quercifex Oak Lecanium

FAMILY KERMESIDAE—Gall-like Scales

Allokermes galliforme

ORDER PSOCOPTERA—Barklice, Booklice & Parasitic Lice**FAMILY DASYDEMELLIDAE—Shaggy Psocids**

Teliapsocus conterminus

ORDER COLEOPTERA--Beetles

Taxonomy based on (1) Arnett, R.H., M.C. Thomas, P.E. Skelley, and J.H. Frank. 2000, 2002. American Beetles, Volumes I and II, CRC Press, 1344 pp; (2) Pearson, D.L, C.B. Knisley, and C.J. Kazilek. 2006. A Field Guide to the Tiger Beetles of the United States and Canada, Oxford University Press, Oxford, UK, 227 pp.

FAMILY GYRINIDAE—Whirligig Beetles

Dinetus sp.
Gyrinus sp.

FAMILY NOTERIDAE—Burrowing Water Beetles

Hydrocanthus sp.
Pronoterus sp.

FAMILY CARABIDAE—Ground Beetles

Cicindela longilabris Boreal Long-lipped Tiger Beetle
Cicindela duodecimguttata Twelve-spotted Tiger Beetle
Cicindela formosa Big Sand Tiger Beetle
Cicindela purpurea Cowpath Tiger Beetle
Cicindela sexguttata Six-spotted Tiger Beetle
Cicindela scutellaris Festive Tiger Beetle
Cicindela tranquebarica Oblique-lined Tiger Beetle
Cicindela punctulata Punctured Tiger Beetle
Ellipsoptera lepida Ghost Tiger Beetle
Scarites subterraneus Big-headed Ground Beetle
Bembidion versicolor
Harpalus erraticus
Chlaenius sericeus Green Ground Beetle
Lebia ornata
Calleida punctata

FAMILY DYSTISCIDAE—Predaceous Diving Beetles

Copelatus sp.
Laccophilus maculosus
Laccophilus sp.
Neoporius sp.
Nebrioporus sp.
Hydroporus sp.
Hygrotus sp.
Agabus sp.
Ilybius sp.
Dytiscus harrassii Harris's Diving Beetle

FAMILY HYDROPHILIDAE—Water Scavenger Beetles

Helophorus sp.
Hydrochus sp.
Ametor sp.
Sperchopsis sp.
Berosus sp.
Crenitis sp.
Paracymus sp.
Laccobius sp.
Helochares sp.
Helocombus sp.
Hydrobius sp.

FAMILY HALIPLIDAE—Crawling Water Beetles

Haliplus sp.
Peltodytes sp.

Tropisternus sp.

FAMILY SILPHIDAE—Carrion Beetles

Necrophilia americana American Carrion Beetle
Nicrophorus orbicollis Roundneck Sexton Beetle
Nicrophorus vespilloides Boreal Carrion Beetle

FAMILY STAPHYLINIDAE—Rove Beetles

Acidota sp.
Tachinus fimbriatus
Thinobius sp.
Sunius confluentus
Paederus littorarius

FAMILY LUCANIDAE—Stag Beetles

Lucanus placidus

FAMILY GEOTRUPIDAE—Earth-boring Scarab Beetles

Geotrupes splendidus Splendid Earth-boring Beetle

FAMILY SCARABAEIDAE—Scarab Beetles

Ceruchus piceus
Phyllophaga sp. May Beetle
Diplotaxis sordida
Macroductylus subspinosus/angustatus Rose Chafer
Popillia japonica Japanese Beetle
Cotalpa lanigera Goldsmith Beetle
Pelidnota punctata Grapevine Beetle
Euphoria inda Bumble Flower Beetle
Euphoria fulgida Emerald Euphoria
Trichiotinus assimilis Hairy Flower Scarab

FAMILY SCIRTIDAE—Marsh Beetles

Elodes sp.
Prionocyphon sp.

FAMILY BUPRESTIDAE—Metallic Wood-boring Beetles

Chalcophora fortis
Chalcophora virginiana Sculptured Pine Borer
Poecilnota cyanipes Eastern Poplar Buprestid
Dicerca sp.
Buprestis striata
Agrilus cyanescens
Agrilus ruficollis Red-necked Cane Borer
Brachys ovatus

FAMILY ELMIDAE—Riffle Beetles

Ancyronyx sp.
Cleptelmis sp.
Dubiraphia sp.
Gonielmis sp.
Microcylloepus sp.
Neoelmis sp.
Optioservus sp.
Oulimnius sp.
Promoresia sp.
Stenelmis sp.
Macronychus glabratus
Zaitzevia sp.

FAMILY DRYOPIDAE—Long-toed Water Beetles

Helichus sp.

FAMILY PSEPHENIDAE—Water Penny Beetles

Dicranopselaphus sp.
Ectopria sp.

Psephenus sp.

FAMILY PTILODACTYLIDAE—Toe-winged Beetles

Anchytarsus sp.

FAMILY ELATERIDAE—Click Beetles

Sylvanelater cylindriciformis
Ampedus nigricollis
Athous neacanthus
Athous brightwelli
Alaus oculata Eyed Click Beetle
Limonium sp.

FAMILY LYCIDAE—Net-winged Beetles

Plateros sp.
Caenia dimidiata
Calopteron reticulatum Banded Net-winged Beetle
Calopteron terminale End Band Net-winged Beetle
Leptoceletes basalis

FAMILY LAMPYRIDAE—Fireflies

Pyractomena angulata
Pyractomena borealis
Ellychnia corrusca Winter Firefly
Lucidota atra Black Firefly
Photinus consimilis
Pyropyga decipiens
Photuris sp.

FAMILY CANTHARIDAE—Soldier Beetles

Rhagonycha mollis
Rhagonycha sp.
Atalantycha bilineata Two-lined Leatherwing
Atalantycha neglecta
Podabrus rugosulus
Chauliognathus pensylvanicus Goldenrod Soldier Beetle

FAMILY MORDELLIDAE—Tumbling Flower Beetles

Mordella sp.
Mordellistena sp.

FAMILY RIPIPHORIDAE—Wedge-shaped Beetles

Ripiphorus fasciatus complex

FAMILY TENEBRIONIDAE—Darkling Beetles

Bolitotherus cornutus Forked Fungus Beetle
Lobopoda punctulata

FAMILY MELOIDAE—Blister Beetles

Epicauta funebris Margined Blister Beetle
Epicauta pennsylvanica Black Blister Beetle
Lytta sayi
Meloe sp. Oil Beetle
Nemognatha nemorensis
Tricrania sanginipennis Red-winged Blister Beetle
Zonitis bilineata

FAMILY PYROCHROIDAE—Fire-colored Beetles

Pedilus sp.

FAMILY CLERIDAE—Checkered Beetles

Phyllobaenus pallipennis
Enoclerus nigripes Red-bellied Clerid
Trichodes nuttalli Red-blue Checkered Beetle

FAMILY MELYRIDAE—Soft-winged Flower Beetles

Attalus terminalis

FAMILY TROGOSSITIDAE—Bark-gnawing Beetles*Gynocharis quadrilineata***FAMILY PHALACRIDAE—Shining Flower Beetles***Olibrus sp.***FAMILY COCCINELLIDAE—Lady Beetles**

Brachiacantha ursina Orange-spotted Lady Beetle
Chilocorus stigma Twice-stabbed Lady Beetle
Coleomegilla maculata Spotted Lady Beetle
Hippodamia convergens Convergent Lady Beetle
Hippodamia glacialis Glacial Lady Beetle
Hippodamia variegata Variegated Lady Beetle
Anisosticta bitriangularis Marsh Lady Beetle
Coccinella novemnotatus Nine-spotted Lady Beetle
Coccinella septempunctata Seven-spotted Lady Beetle
Coccinella trifasciata Three-banded Lady Beetle
Cycloneda munda Polished Lady Beetle
Harmonia axyridis Multicolored Asian Lady Beetle
Anatis mali Eye-spotted Lady Beetle
Propylea quatuordecimpunctata Fourteen-spotted Lady Beetle
Psyllobora vigintimaculata Twenty-spotted Lady Beetle

FAMILY NITIDULIDAE—Sap Beetles*Conotelus obscurus* Obscure Sap Beetle**FAMILY CUCUJIDAE—Flat Bark Beetles***Cucujus clavipes* Red Flat Bark Beetle**FAMILY CERAMBYCIDAE—Long-horned Beetles**

Desmocercus palliatus Elderberry Borer
Strangalepta abbreviata
Typocerus velutinus Banded Flower Longhorn Beetle
Cyrtophorus verrucosus
Knulliana cincta Banded Hickory Borer
Clytus ruricola
Megacyllene robiniae Locust Borer
Monochamus scutellatus White-spotted Sawyer
Saperda tridentata Elm Borer
Tetraopes tetraophthalmus Red Milkweed Beetle

FAMILY ORSODACNIDAE—Ravenous Leaf Beetles*Orsodacne atra***FAMILY CHRYSOMELIDAE—Leaf Beetles**

Donacia sp.
Lema daturaphila Three-lined Potato Beetle
Sumitrosis inaequalis
Microrhopala excavata
Plagiometriona clavata Clavate Tortoise Beetle
Charidotella sexpunctata Golden Tortoise Beetle
Chrysolina quadrigemina/hyperici
Calligrapha multipunctata Common Willow
Calligrapha
Calligrapha philadelphica Dogwood Leaf Beetle
Calligrapha vicina Dogwood Leaf Beetle
Labidomera clivicollis Swamp Milkweed Leaf Beetle
Chrysomela sp.
Plagioderia versicolora Imported Willow Leaf Beetle
Trirhabda adela
Trirhabda borealis Goldenrod Leaf Beetle
Galerucella californiensis Black-margined Loosestrife Beetle
Galerucella pussilla
Pyrrhalta viburni Viburnum Leaf Beetle
Diabrotica barberi Northern Corn Rootworm
Diabrotica undecimpunctata Spotted Cucumber Beetle
Acalymma vittatum Striped Cucumber Beetle
Cerotoma trifurcata Bean Leaf Beetle
Phyllotreta striolata Striped Flea Beetle
Aphthona lacertosa
Systema marginalis Margined Leaf Beetle
Altica chalybea Grape Flea Beetle
Capraita sp.
Pachybrachis nigricornis
Neoclamisus sp.
Exema sp.
Paria sp.
Chrysochus auratus Dogbane Beetle
Xanthonia decemnotata Ten-spotted Leaf Beetle

FAMILY CURCULIONIDAE—Snout & Bark Beetles

Rhodoabaenus tredecimpunctatus Cocklebur Weevil
Odontocorynus sp.
Ceutorhynchus americanus
Anthonomus signatus Strawberry Bud Weevil
Cianus scrophulariae Figwort Weevil
Listronotus sp. European Snout Beetle
Otiorhynchus ovatus Strawberry Root Weevil
Polydrusus formosus Green Immigrant Leaf Weevil
Larinus planus Canada Thistle Bud Weevil
Donus zoilus Clover Leaf Weevil
Conotrachelus posticatus
Hylobius transversovittatus

ORDER MEGALOPTERA—Alderflies, Dobsonflies & Fishflies**FAMILY SIALIDAE—Alderflies***Sialis sp.*

Corydalus cornutus Eastern Dobsonfly
Chauliodes pectinicornis Summer Fishfly
Chauliodes rasticornis Spring Fishfly
Nigronia serricornis

FAMILY CORYDALIDAE—Dobsonflies and Fishflies**ORDER NEUROPTERA—Antlions, Lacewings & Mantidflies****FAMILY MYRMELIIONTIDAE—Antlions***Myrmeleon immaculatus**Chrysoperla rufilibris***FAMILY CHRYSOPIDAE—Green Lacewings***Chrysopa oculata* Golden-eyed Lacewing**FAMILY MANTISPIDAE—Mantidflies***Climaciella brunnea* Wasp Mantidfly

ORDER HYMENOPTERA—Sawflies, Wasps and Bees

Taxonomic sources include (1) Buck, M., Marshall, S.A. and Cheung D.K.B. 2008. Identification Atlas of the Vespidae (Hymenoptera, Aculeata) of the northeastern Nearctic region. Canadian Journal of Arthropod Identification No. 5: 492 pp; (2) Packer, L., Genaro, J.A., and Sheffield C.S. 2007. The Bee Genera of Eastern Canada. Canadian Journal of Arthropod Identification No. 3, 25 September 2007

FAMILY PAMPHILIDAE—Webspinning & Leafrolling Sawflies

Onycholyda/Pamphilus sp.

FAMILY ARGIDAE—Argid Sawflies

Arge pectoralis Birch Sawfly
Arge quidia Willow Oak Sawfly

FAMILY CIMBICIDAE—Cimbicid Sawflies

Cimbex americana Elm Sawfly
Trichosoma triangulum

FAMILY DIPRIONIDAE—Conifer Sawflies

Diprion similis Introduced Pine Sawfly
Neodiprion lecontei Red-headed Pine Sawfly

FAMILY TENTHREDINIDAE—Common Sawflies

Macremphytus testaceus
Eriocampa ovata
Periclista sp.
Eutomostethus luteiventris
Stronglogaster tacitus
Macrophya flavolineata
Tenthredo basilaris

FAMILY SIRICIDAE—Horntails

Sirex noctilio European Wood Wasp
Tremax columba Pigeon Tremax

FAMILY PELEGINIDAE—Pelecinid Wasps

Pelecinus polyturator

FAMILY EUPELMIDAE

Eupelmis vesicularis

FAMILY PERILAMPIDAE

Perilampus sp.

FAMILY PTEROMALIDAE—Pteromalids

UK Pteromalid

FAMILY TORYMIDAE

Torymus sp.

FAMILY BRACONIDAE—Braconid Wasps

Atanycolus sp.
Spathius sp.

FAMILY ICHNEUMONIDAE—Ichneumonid Wasps

Anomalon sp.
Therion sp.
Exetastes suaveolens
Glypta sp.
Cryptus albitarsis
Gelis tenellus
Gnamptopelta obsidianator
Coelichneumon sp.
Cratichneumon sp.
Ophion sp.
Itopectis conquisitor
Pimpla pedalis
Theronia hilaris

Exyston sp.

FAMILY CRABRONIDAE—Crabronid Wasps

Astata leuthstromi
Alysson melleus
Alysson oppositus
Bembix americana
Bembix pallidipicta
Bicyrtes quadrifasciatus
Bicyrtes ventralis
Microbembex monodonta
Clitemnestra bipunctata
Gorytes caniculatus
Gorytes similis
Saygorytes phaleratus
Sphecius speciosus
Stictiella emarginata
Nysson daeckii
Anacrabro ocellatus
Crabro advena
Crabro argusinus
Crabro cribellifer
Crabro latipes
Crabro monticola
Crossocerus maculiclypeus
Ectemnius arcuatus
Ectemnius continuus
Ectemnius sp. (probably *decemmaculatus*)
Ectemnius maculosus
Lindenius buccadentis
Lindenius columbianus
Tachysphex acutus
Tachysphex similis
Tachysphex tarsatus
Tachysphex terminalis
Tachytes obductus
Liris argentata
Lyroda subita
Miscophus americanus
Plenoculus davisii
Oxybelus bipunctatus
Oxybelus emarginatus
Oxybelus subcornutus
Oxybelus subulatus
Diodontus franclemonti
Passaloecus sp.
Pemphridon lethifer
Stigmus americanus
Mimesa basirufa
Mimesa cressonii
Aphilanthops frigidus
Cerceris clypeata
Cerceris fumipennis
Cerceris nigriscens
Cerceris robertsonii
Philanthus albopilosus
Philanthus bilunatus
Philanthus gibbosus
Philanthus lepidus
Philanthus politus
Philanthus solivagus
Philanthus ventrilabris

FAMILY SPHECIDAE—Thread-waisted Wasps

Chalybion californicum Blue Mud Wasp
Sceliphron caementarium Black & Yellow Mud Dauber
Prionyx atratus
Isodontia mexicana
Sphex ichneumoneus Great Golden Digger Wasp
Sphex pensylvanicus Great Black Wasp
Ammophila harti
Ammophila nigricans
Ammophila pictipennis
Ammophila procera
Ammophila urnaria
Eremnophila aureonotata
Podalonia luctuosa
Podalonia robusta

FAMILY CHRYSIDIDAE—Cuckoo Wasps

Hedychridium sp.
Hedychrum sp.
Caenochrysis sp.

FAMILY FORMICIDAE—Ants

Camponotus novaeboracensis New York Carpenter Ant
Camponotus pennsylvanicus Black Carpenter Ant
Formica exsectoides Allegheny Mound Ant
Formica subsericea
Formica incerta
Crematogaster cerasi Acrobat Ant
Tetramorium species-e

FAMILY MUTILLIDAE—Velvet Ants

Pseudomethocha frigida
Timulla vagans

FAMILY POMPILDAE—Spider Wasps

Auplopus architectus
Auplopus mellipes
Caliadurgus hyalinatus
Dipogon papago
Dipogon sayi
Priocnemis minorata
Priocnemis cornica
Priocnemis germana
Priocnemis scitula
Priocnessus nebulosus
Evagetes crassicornis
Evagetes hyacinthus
Evagetes parvus
Episyron biguttatus
Episyron quinquenotatus
Anoplius aethiops
Anoplius atrox
Anoplius carolina
Anoplius cylindricus
Anoplius illinoensis
Anoplius marginatus
Anoplius nigerrimus
Anoplius relativus
Anoplius semirufus
Anoplius splendens
Anoplius subcylindricus
Anoplius tenebrosus
Anoplius ventralis
Anoplius virginianensis
Arachnospila arcta
Arachnospila scelestus
Anoplochares apicatus
Aporinellus completus
Ceropales maculata

FAMILY SCOLIIDAE—Scoliid Wasps

Campsomeris plumipes
Scolia bicincta Double-banded Scolid

FAMILY THYNNIDAE—Thynnid Wasps

Methocha stygia
Myzinum quinquecinctum Five-banded Tiphid Wasp

FAMILY TIPHIIDAE—Tiphid Wasps

Tiphia sp.
Paratiphia sp.

FAMILY VESPIDAE—Yellowjackets, Hornets, Paper Wasps, Potter, Mason, & Pollen Wasps

Ancistrocerus adiabatus
Ancistrocerus campestris
Ancistrocerus catskill
Eumenes crucifera
Eumenes fraternus
Euodynerus castigatus
Euodynerus foraminatus
Monobia quadridens
Symmorphus sp.
Polistes dominula European Paper Wasp
Polistes fuscatus Northern Paper Wasp
Dolichovespula arenaria Common Aerial Yellowjacket
Dolichovespula maculata Bald-faced Hornet
Vespa carabro European Hornet
Vespa acadica Forest Yellowjacket
Vespa consobrina Blackjacket
Vespa maculifrons Eastern Yellowjacket

FAMILY ANDRENIDAE—Mining Bees

Andrena hirticincta Hairy-banded
Andrena
Andrena nubecula
Andrena bradleyi Bradley's Andrena
Andrena miserabilis Miserable Andrena
Andrena vicina Neighborly Andrena
Andrena wilkella
Perdita octomaculata Eight-spotted Perdita

FAMILY APIDAE—Honey, Bumble, Digger, and Cuckoo Bees

Apis mellifera European Honey Bee
Bombus impatiens Common Eastern Bumble Bee
Bombus bimaculatus Two-spotted Bumble Bee
Bombus vagans Half-black Bumble Bee
Bombus ternarius Tricolored Bumble Bee
Bombus terricola Yellow-banded Bumble Bee
Bombus griseocollis Brown-belted Bumble Bee
Bombus rufocinctus Red-belted Bumble Bee
Bombus fervidus Yellow Bumble Bee
Bombus borealis Northern Amber Bumble Bee
Bombus citrinus Lemon Cuckoo Bumble Bee
Melissodes druriella
Epeolus autumnalis
Epeolus scutellaris
Nomada cressonii Cresson's Nomad Bee
Nomada maculata Spotted Nomad Bee
Nomada sp.
Ceratina sp.

FAMILY COLLETIDAE—Plasterer, Cellophane, and Masked Bees

Colletes compactus
Colletes inaequalis Unequal
Cellophane Bee
Hylaeus modestus

FAMILY HALICTIDAE—Sweat Bees

Augochlora pura
Augochloropsis metallica
Agapostemon splendens
Agapostemon virescens
Halictus confusus
Lassioglossum zephrum
Lasioglossum coriaceum
Lassioglossum virecki
Sphecodes sp.

FAMILY MEGACHILIDAE—Leaf-cutter and Mason Bees

Dianthidium simile
Megachile sculpturalis Sculptured Resin Bee
Megachile inermis Unarmed Leaf-cutter Bee
Megachile pugnata Pugnacious Leaf-cutter Bee
Megachile gemula Small-handed Leaf-cutter Bee
Megachile latimanus Broad-handed Leaf-cutter Bee

ORDER TRICHOPTERA--Caddisflies

Taxonomy based on Wiggins, G.B. 2004. Larvae of the North American Caddisfly Genera (Trichoptera). University of Toronto Press, Scholarly Publishing Division, 424 pp.

FAMILY PHILOPOTAMIDAE—Fingernet Caddisflies

Chimarra sp.
Dolophiloides sp.
Wormaldia sp.

Setodes sp.
Triaenodes sp.

FAMILY ODONTOCERIDAE—Mortarjoint Casemakers

Marilia sp.

FAMILY DIPSEUDOPSIDAE

Phylocentropus sp.

FAMILY HELICOPSYCHIDAE—Snailcase Caddisflies

Heliopsyche sp.

FAMILY POLYCENTROPODIDAE—Tube-maker Caddisflies

Neureclipsis sp.
Nyctiophylax sp.
Polycentropus sp.

FAMILY APATANIIDAE—Early Smoky-wing Sedges

Manophylax sp.
Madeophylax sp.

FAMILY PSYCHOMYIIDAE—Net Tube Caddisflies

Psychomyia sp.
Lype sp.

FAMILY GOERIDAE

Goera sp.

FAMILY HYDROPSYCHIDAE—Netspinning Caddisflies

Parapsyche sp.
Diplectronea sp.
Cheumatopsyche sp.
Hydropsyche sp.
Potamyia sp.
Macrostemum zebratum

FAMILY LIMNEPHILIDAE—Northern Caddisflies

Ironoquia punctatissima
Ironoquia sp.
Onocosmoecus sp.
Frenesia sp.
Asynarchus sp.
Lenarchus sp.
Limnephilus sp.
Nemotaulius hostilis
Chyranda sp.
Hydatophylax sp.
Pycnopsyche antica
Pycnopsyche lepida
Pycnopsyche sp.
Pseudostenophylax sp.

FAMILY GLOSSOSOMATIDAE—Little Black Caddisflies

Agapetus sp.
Glossosoma sp.
Culoptila sp.

FAMILY UENOIDAE—Stonecase Caddisflies

Neophylax sp.

FAMILY HYDROPTILIDAE—Microcaddisflies

Hydroptila sp.
Oxyethira sp.
Leucotrichia sp.
Mayatrichis sp.
Orthotrichia sp.

FAMILY BRACHYCENTRIDAE—Humpless Casemaker Caddisflies

Amiocentrus sp.
Brachycentrus sp.
Micrasema sp.

FAMILY RHYACOPHILIDAE—Free-living Caddisflies

Rhyacophila sp.

FAMILY CALAMOCERATIDAE

Heteroplectron sp.

FAMILY LEPIDOSTOMATIDAE—Bizarre Caddisflies

Lepidostoma sp.

FAMILY MOLANNIDAE—Hood Casemakers

Molanna sp.

FAMILY PHRYGANEIDAE—Giant Casemakers

Agyrpnia vestita
Banksiola crotchii
Oligostomis sp.
Phryganea cinerea
Ptilostomis ocellifera
Ptilostomis sp.

FAMILY LEPTOCERIDAE—Long-horned Caddisflies

Ceraclea sp.
Mystacides sp.
Nectopsyche sp.
Oecetis sp.

ORDER LEPIDOPTERA—Butterflies & Moths

Butterfly taxonomy based on: (1) Cech, R., and G. Tudor. 2005. Butterflies of the East Coast: An Observer's Guide. Princeton University Press, Princeton, NJ. 345 pp. (2) Covell, C.V., Jr. 1984. Moths of Eastern North America. The Easton Press, Norwalk, CT. 496 pp. Moth taxonomy based on (1) Moth Photographers Group, <http://mothphotographersgroup.msstate.edu/>, Mississippi State University; (2) Beadle, D and S. Leckie. 2012. Peterson Field Guide to Moths of Northeastern North America. Houghton Mifflin Harcourt, Boston, MA. 624 pp.

FAMILY PAPILIONIDAE—Swallowtails & Parnassians

<i>Papilio polyxenes</i>	Black Swallowtail
<i>Papilio glaucus</i>	Eastern Tiger Swallowtail
<i>Papilio canadensis</i>	Canadian Tiger Swallowtail
<i>Papilio cressphontes</i>	Giant Swallowtail

FAMILY PIERIDAE—Whites, Sulphurs & Yellows

<i>Pieris rapae</i>	Cabbage White
<i>Pieris oleracea</i>	Mustard White
<i>Pieris virginiensis</i>	West Virginia White
<i>Colias philodice</i>	Clouded Sulphur
<i>Colias eurytheme</i>	Orange Sulphur

FAMILY LYCAENIDAE—Blues, Coppers, Hairstreaks & Harvester

<i>Feniseca tarquinius</i>	Harvester
<i>Lycaena phlaeas</i>	American Copper
<i>Lycaena hyllus</i>	Bronze Copper
<i>Satyrrium titus</i>	Coral Hairstreak
<i>Satyrrium calanus</i>	Banded Hairstreak
<i>Cupido comyntas</i>	Eastern Tailed-Blue
<i>Celastrina ladon</i>	Spring Azure
<i>Celastrina 'neglecta'</i>	Summer Azure
<i>Glaucopsyche lygdamus</i>	Silvery Blue

FAMILY NYMPHALIDAE—Brush-footed Butterflies

<i>Speyeria cybele</i>	Great Spangled Fritillary
<i>Speyeria aphrodite</i>	Aphrodite Fritillary
<i>Boloria selene</i>	Silver-bordered Fritillary
<i>Boloria bellona</i>	Meadow Fritillary
<i>Phyciodes cocyta</i>	Northern Crescent
<i>Euphydryas phaeton</i>	Baltimore Checkerspot
<i>Polygonia interrogationis</i>	Question Mark
<i>Polygonia comma</i>	Eastern Comma
<i>Polygonia progne</i>	Gray Comma
<i>Aglais milberti</i>	Milbert's Tortoiseshell
<i>Nymphalis vaualbum</i>	Compton Tortoiseshell
<i>Nymphalis antiopa</i>	Mourning Cloak
<i>Vanessa atalanta</i>	Red Admiral
<i>Vanessa cardui</i>	Painted Lady
<i>Vanessa virginiensis</i>	American Lady
<i>Limenitis arthemis arthemis</i>	White Admiral
<i>Limenitis archippus</i>	Viceroy
<i>Enodia anthedon</i>	Northern Pearly-Eye
<i>Satyrodes eurydice</i>	Eyed Brown
<i>Satyrodes appalachia</i>	Appalachian Brown
<i>Megisto cymela</i>	Little Wood Satyr
<i>Coenonympha tullia inornata</i>	Common Ringlet
<i>Cercyonis pegala</i>	Common Wood Nymph

FAMILY HESPERIDAE—Skippers

<i>Epargyreus clarus</i>	Silver-spotted Skipper
<i>Thorybes pylades</i>	Northern Cloudywing
<i>Erynnis juvenalis</i>	Juvenal's Duskywing
<i>Erynnis icelus</i>	Dreamy Duskywing
<i>Ancyloxypha numitor</i>	Least Skipper
<i>Thymelicus lineola</i>	European Skipper
<i>Hesperia leonardus</i>	Leonard's Skipper
<i>Hesperia sassacus</i>	Indian Skipper
<i>Polites peckius</i>	Peck's Skipper

<i>Polites mystic</i>	Long Dash
<i>Polites origenes</i>	Crossline Skipper
<i>Polites themistocles</i>	Tawny-edged Skipper
<i>Wallengrenia egeremet</i>	Northern Broken Dash
<i>Anatrytone logan</i>	Delaware Skipper
<i>Poanes hobomok</i>	Hobomok Skipper
<i>Euphyes vestries</i>	Dun Skipper
<i>Amblyscirtes hegon</i>	Common Roadside Skipper

FAMILY ARGYRESTHIIDAE—Shiny Head-standing Moths

<i>Argyresthia oreasella</i>	Cherry Shoot Borer
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FAMILY PSYCHIDAE—Bagworm Moths

<i>Psyche casta</i>	Common Bagworm Moth
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FAMILY COLEOPHORIDAE—Casebearer Moths

<i>Coleophora deauratella</i>

FAMILY DEPRESSARIIDAE

<i>Depressaria depressana</i>	Purple Carrot-seed Moth
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FAMILY GELECHIIDAE—Twirler Moths

<i>Dichomeris nonstrigella</i>

FAMILY CHOREUTIDAE—Metalmark Moths

<i>Prochoreutis inflatella</i>	Skullcap Skeletonizer Moth
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FAMILY THYRIDIDAE—Window-wing Moths

<i>Thyris maculata</i>	Spotted Thyris
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FAMILY SCYTHRIDIDAE—Flower Moths

<i>Landryia impositella</i>

FAMILY PTEROPHORIDAE—Plume Moths

UK plume moth

FAMILY CRAMBIDAE—Crambid Snout Moths

<i>Elophila ekthlipsis</i>	Nymphala Moth
<i>Elophila icciusalis</i>	Pondside Pyralid Moth
<i>Paraponyx badiusalis</i>	Chestnut-marked Pondweed Moth
<i>Agiphila ruricolellus</i>	Lesser Vagabond Sod Webworm
<i>Agiphila vulgivagellus</i>	Vagabond Crambus Moth
<i>Anania funebris</i>	White-spotted Sable Moth
<i>Loxostege cerealis</i>	Alfalfa Webworm
<i>Nomophila nearctica</i>	Lucerne Moth

FAMILY PYRALIDAE—Pyralid Moths

<i>Hypsopygia olinalis</i>	Yellow-fringed Dolichomia
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FAMILY TORTRICIDAE—Tortricid Moths

<i>Epinotia lindana</i>	Diamondback Epinotia Moth
<i>Eucosma dorsisignatana</i>	Triangle-backed Eucosma
<i>Eucosma umbrastriana</i>	
<i>Olethreutes bipartitana</i>	Divided Olethreutes
<i>Pandemis lamprosana</i>	Woodgrain Leafroller
<i>Sparganothis sulfureana</i>	Sparganothis Fruitworm
<i>Acleris celiana</i>	

FAMILY LIMACODIDAE—Slug Caterpillar Moths

<i>Tortricidia flexuosa</i>	Abbreviated Button Slug Moth
<i>Lithacodes fasciola</i>	Yellow-shouldered Slug Moth
<i>Apoda y-inversum</i>	Inverted Y Slug Moth
<i>Apoda biguttata</i>	Shagreened Slug Moth
<i>Euclea delphinii</i>	Spiny Oak Slug Moth

FAMILY SESIIDAE—Clearwing Moths

Synanthedon proxima

FAMILY SATURNIIDAE—Giant Silkworm & Royal Moths

<i>Dryocampa rubicunda</i>	Rosy Maple Moth
<i>Automeris io</i>	Io Moth
<i>Callosamia promethea</i>	Promethea Silkmoth
<i>Hyalophora cecropia</i>	Cecropia Moth
<i>Actias luna</i>	Luna Moth
<i>Antheraea polyphemus</i>	Polyphemus Moth

FAMILY LASIOCAMPIDAE—Tent Caterpillar & Lappet Moths

<i>Tolype laricis</i>	Larch Tolype Moth
<i>Tolype vellela</i>	Large Tolype Moth
<i>Phyllodesma americana</i>	American Lappet Moth
<i>Malacosoma disstria</i>	Forest Tent Caterpillar
<i>Malacosoma americana</i>	Eastern Tent Caterpillar

FAMILY SPHINGIDAE—Sphinx Moths

<i>Hemaris diffinis</i>	Snowberry Clearwing
<i>Hemaris thysbe</i>	Hummingbird Clearwing
<i>Pachysphinx modesta</i>	Big Poplar Sphinx
<i>Paonias excaecatus</i>	Blinded Sphi
<i>Paonias myops</i>	Small-eyed Sphinx
<i>Smerinthus cerisyi</i>	One-eyed Sphinx
<i>Smerinthus jamaicensis</i>	Twin-spotted Sphinx
<i>Sphinx poecila</i>	Northern Apple Sphinx
<i>Hyles euphorbiae</i>	Spurge Hawkmoth

FAMILY NOCTUIDAE—Owlet Moths

<i>Allagrapha aerea</i>	Unspotted Looper
<i>Anagrapha falcifera</i>	Celery Looper
<i>Plusia putnami</i>	Putnam's Looper
<i>Plusia sp.</i>	
<i>Protodeltote muscosula</i>	Large Mossy Lithacodia Moth
<i>Protodeltote albidula</i>	Pale Glyph Moth
<i>Capis curvata</i>	Curved Halter Moth
<i>Leuconycta diptheroides</i>	Green Leuconycta
<i>Leuconycta lepidula</i>	Marbled-green
<i>Leuconycta</i>	
<i>Ponometia candefacta</i>	Olive-shaded Bird-dropping Moth
<i>Raphia frater</i>	Brother Moth
<i>Acronicta grisea</i>	Gray Dagger Moth
<i>Acronicta ovate</i>	Ovate Dagger Moth
<i>Acronicta modica</i>	Medium Dagger Moth
<i>Acronicta seperata</i>	Hopeful Dagger Moth
<i>Eudryas unio</i>	Pearly Wood-Nymph
<i>Eudryas grata</i>	Beautiful Wood-Nymph
<i>Apamea lignicolora</i>	Wood-colored Apamea Moth
<i>Apamea devastator</i>	Glassy Cutworm Moth
<i>Neoligia exhausta</i>	Exhausted Brocade Moth
<i>Fishia illocata</i>	Wandering Brocade Moth
<i>Amphipoea americana</i>	American Ear Moth
<i>Papaipema sp.</i>	
<i>Hydraecia micacea</i>	Rosy Rustic Moth
<i>Phlogophora periculosa</i>	Brown Angles Shades Moth
<i>Enargia infumata</i>	Smoked Sallow Moth
<i>Chytonix palliatricula</i>	Cloaked Marvel Moth
<i>Nedra ramosula</i>	Gray Half-spot

<i>Callopietria cordata</i>	Silver-spotted Fern Moth
<i>Amphipyra tragopoginis</i>	Mouse Moth
<i>Proxenus miranda</i>	Miranda Moth
<i>Balsa tristigella</i>	Three-lined Balsa Moth
<i>Elaphria versicolor</i>	Variegated Midget
<i>Elaphria alapallida</i>	Pale-winged Midget
<i>Galgula partita</i>	The Wedgeling
<i>Condica videns</i>	White-dotted Groundling Moth
<i>Ogdoconta cinereola</i>	Common Pinkband
<i>Chaetagnalea sericea</i>	Silky Sallow Moth
<i>Eucirroedia pampina</i>	Scalloped Sallow Moth
<i>Cucullia asteroides</i>	The Asteroid
<i>Cucullia speyeri</i>	Speyer's Hooded Owlet Moth
<i>Sideridis rosea</i>	Rosewing Moth
<i>Polia nimbosea</i>	Stormy Arches Moth
<i>Polia imbrifera</i>	Cloudy Arches Moth
<i>Polia purpurissata</i>	Purple Arches Moth
<i>Orthodes detracta</i>	Disparaged Arches Moth
<i>Orthodes goodelli</i>	Goodell's Arches Moth
<i>Spirameter lutra</i>	Otter Spirameter Moth
<i>Lacinipolia meditata</i>	Thinker Moth
<i>Lacinipolia renigera</i>	Bristly Cutworm Moth
<i>Lacinipolia olivacea</i>	Olive Arches Moth
<i>Dargida diffusa</i>	Wheat Head Armyworm Moth
<i>Mythimna unipuncta</i>	Armyworm Moth
<i>Leucania commoides</i>	Two-lined Wainscot Moth
<i>Leucania insueta</i>	Wainscot Moth
<i>Leucania pseudargyria</i>	False Wainscot Moth
<i>Leucania sp.</i>	
<i>Nephelodes minians</i>	Bronzed Cutworm Moth
<i>Homorthodes furfurata</i>	Northern Scurfy Quaker Moth
<i>Protorthodes oviduca</i>	Ruddy Quaker Moth
<i>Ulolonche culea</i>	Sheathed Quaker Moth
<i>Ulolonche modesta</i>	
<i>Pseudorthodes vecors</i>	Small Brown Quaker Moth
<i>Orthodes majuscule</i>	Rustic Quaker Moth
<i>Orthodes cynica</i>	Cynical Quaker Moth
<i>Tricholita signata</i>	Signate Quaker Moth
<i>Agrotis vetusta</i>	Old Man Dart Moth
<i>Agrotis venerabilis</i>	Venerable Dart Moth
<i>Agrotis ipsilon</i>	Dark Sword Grass Moth
<i>Feltia jaculifera</i>	Dingy Cutworm Moth
<i>Feltia subgothica</i>	Subgothic Dart Moth
<i>Feltia tricolora</i>	Confused Dart Moth
<i>Feltia herilis</i>	Master's Dart Moth
<i>Feltia geniculata</i>	Knee-joint Dart Moth
<i>Euxoa declarata</i>	Clear Dart Moth
<i>Euxoa campestris</i>	Flat Dart Moth
<i>Euxoa tessellate</i>	Tessellate Dart Moth
<i>Euxoa detersa</i>	Rubbed Dart Moth
<i>Euxoa redimicula</i>	Fillet Dart Moth
<i>Striacosta albicosta</i>	Western Bean Cutworm Moth
<i>Ochropleura implecta</i>	Flame-shouldered Dart Moth
<i>Peridroma saucia</i>	Variegated Cutworm Moth
<i>Diarsia sp.</i>	
<i>Spaelotis cladenstina</i>	Clandestine Dart Moth
<i>Xestia c-nigrum</i>	Lesser Black-letter Dart Moth
<i>Xestia normanianus</i>	Norman's Dart Moth
<i>Xestia smithii</i>	Smith's Dart Moth
<i>Pseudohermonassa tenuicula</i>	Morrison's Sooty Dart Moth
<i>Xestia praevia</i>	Praevia Dart Moth
<i>Xestia dilucida</i>	Dull Reddish Dart Moth
<i>Noctua pronuba</i>	Large Yellow Underwing Moth
<i>Protolampra brunneicollis</i>	Scarley-backed Dart Moth
<i>Eueretagnotis attentus</i>	Attentive Dart Moth
<i>Lycophotia phyllophora</i>	Phyllophora Dart Moth
<i>Abagrotis alternata</i>	Greater Red Dart Moth
<i>Schinia florida</i>	Primrose Moth

FAMILY EREBIDAE

<i>Crambidia pallida</i>	Pale Lichen Moth
<i>Crambidia casta</i>	Pearly-winged Lichen Moth
<i>Hypoprepia fucosa</i>	Painted Lichen Moth
<i>Haploa confusa</i>	Confused Haploa Moth
<i>Virbia opella</i>	Tawny Holomelina
<i>Virbia aurantiaca</i>	Orange Holomelina Moth
<i>Virbia ferruginosa</i>	Rusty Holomelina Moth
<i>Estigmene acrea</i>	Saltmarsh Moth
<i>Spilosoma congrua</i>	Agreeable Tiger Moth
<i>Spilosoma virginica</i>	Virginia Tiger Moth
<i>Hyphantria cunea</i>	Fall Webworm Moth
<i>Phragmatobia fuliginosa</i>	Ruby Tiger Moth
<i>Arctia caja</i>	Great Tiger Moth
<i>Grammia williamsi</i>	Williams' Tiger Moth
<i>Grammia figurate</i>	Figured Tiger Moth
<i>Grammia parthenice</i>	Parthenice Tiger Moth
<i>Grammia virgo</i>	Virgin Tiger Moth
<i>Grammia arge</i>	Arge Moth
<i>Halysidota tessellaris</i>	Banded Tussock Moth
<i>Lophocampa caryae</i>	Hickory Tussock Moth
<i>Lophocampa maculata</i>	Spotted Tussock Moth
<i>Cyrcia oregonensis</i>	Oregon Cynia Moth
<i>Euchaetes egle</i>	Milkweed Tussock Moth
<i>Cisseps fulvicollis</i>	Yellow-collared Scape Moth
<i>Ctenucha virginica</i>	Virginia Ctenucha Moth
<i>Orgyia leucostigma</i>	White-marked Tussock Moth
<i>Idia americalis</i>	American Idia Moth
<i>Idia concisa</i>	
<i>Idia rotundalis</i>	Rotund Idia Moth
<i>Idia forbesii</i>	
<i>Idia julia</i>	
<i>Idia dimineuendis</i>	Orange-spotted Idia Moth
<i>Idia scobialis</i>	Smoky Idia Moth
<i>Idia laurentii</i>	
<i>Phalaenophana pyramusalis</i>	Dark-banded Owlet Moth
<i>Zanclognatha laevigata</i>	Variable Zanclognatha Moth
<i>Zanclognatha jacchusalis</i>	Wavy-lined Zanclognatha Moth
<i>Zanclognatha sp</i>	
<i>Macrochilo absorptalis</i>	Slant-lined Owlet Moth
<i>Macrochilo litophora</i>	Brown-lined Owlet Moth
<i>Macrochilo orciferalis</i>	Bronzy Macrochilo Moth
<i>Phalaenostola metonalis</i>	Tufted Snout Moth
<i>Phalaenostola eumelusalis</i>	Dark Phalaenostola Moth
<i>Phalaenostola larentoides</i>	Black-banded Owlet Moth
<i>Bleptina caradrinalis</i>	Bent-winged Owlet Moth
<i>Renia flavipunctalis</i>	Yellow-spotted Renia Moth
<i>Renia sobrialis</i>	Sober Renia Moth
<i>Renia sp.</i>	
<i>Lascoria ambiguus</i>	Ambiguous Moth
<i>Palthis angulalis</i>	Dark-spotted Palthis Moth
<i>Rivula propinquialis</i>	Spotted Grass Moth
<i>Hyphenodes fractilinea</i>	Broken-line Hyphenodes Moth
<i>Hyphenodes franclemonti</i>	
<i>Dyspyralis puncticosta</i>	Spot-edged Dyspyralis
<i>Dyspyralis nigellus</i>	Slaty Dyspyralis
<i>Hypena scabra</i>	Green Cloverworm Moth
<i>Drasteria grandirena</i>	Figure-seven Moth
<i>Ascalpha odorata</i>	Black Witch
<i>Zale helata</i>	Brown-spotted Zale
<i>Zale sp.</i>	
<i>Caenurgina crassiuscula</i>	Clover Looper Moth
<i>Caenurgina erechtea</i>	Forage Looper Moth
<i>Catocala antinympa</i>	Sweetfern Underwing
<i>Catocala relict</i>	White Underwing
<i>Catocala cara</i>	Darling Underwing
<i>Catocala mira</i>	Wonderful Underwing

<i>Hyperstrotia pervertens</i>	Dotted Graylet
<i>Amolita fessa</i>	Feeble Grass Moth

FAMILY EUTELIIDAE

<i>Marathyssa inficita</i>	Dark Marythyssa Moth
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FAMILY NOTODONTIDAE—Prominent Moths

<i>Heterocampa biundata</i>	Wavy-lined Heterocampa
<i>Heterocampa oblique</i>	Oblique Heterocampa
<i>Heterocampa umbrata</i>	White-blotched Heterocampa
<i>Lochmaeus manteo</i>	Variable Oakleaf Caterpillar Moth
<i>Macrurocampa marthesia</i>	Mottled Prominent Moth
<i>Schizura unicornis</i>	Unicorn Prominent Moth
<i>Gluphisia septentrionis</i>	Common Gluphisia Moth
<i>Symmerista sp</i>	
<i>Datana integerrima</i>	Walnut Caterpillar Moth
<i>Datana ministra</i>	Yellow-necked Caterpillar Moth
<i>Nadata gibbosa</i>	White-dotted Prominent Moth
<i>Peridea angulosa</i>	Angulose Prominent Moth
<i>Peridea basitriens</i>	Oval-based Prominent Moth
<i>Peridea ferruginea</i>	Chocolate Prominent Moth
<i>Clostera albosigma</i>	Sigmoid Prominent Moth
<i>Clostera apicalis</i>	Apical Prominent Moth

FAMILY GEOMETRIDAE—Geometrid Moths

<i>Archicaris infans</i>	The Infant
<i>Eumacaria madopata</i>	Brown-bordered Geometer
<i>Macaria aemulataria</i>	Common Angle Moth
<i>Macaria transitaria</i>	Blurry Chocolate Angle Moth
<i>Macaria minorata</i>	Minor Angle Moth
<i>Macaria bisignata</i>	Red-headed Inchworm
<i>Macaria signaria</i>	Pale-marked Angle Moth
<i>Macaria pinistrobata</i>	White Pine Angle Moth
<i>Digrammia ocellinata</i>	Faint-spotted Angle Moth
<i>Speranza pustularia</i>	Lesser Maple Spanworm
<i>Hesperumia sulphuraria</i>	Sulphur Moth
<i>Stenoporpia polygrammaria</i>	Faded Gray Geometer
<i>Iridopsis ephyraria</i>	Pale-winged Gray Moth
<i>Anavitrinella pampinaria</i>	Common Gray Moth
<i>Ectropis crepuscularia</i>	Small Engrailed Moth
<i>Protobernia porcelaria</i>	Porcelain Gray Moth
<i>Eufidonia convergaria</i>	Pine Powder Moth
<i>Hypagyrtis unipunctata</i>	One-spotted Variant Moth
<i>Lomographa vestaliata</i>	White Spring Moth
<i>Cabera variolaria</i>	Pink-striped Willow Spanworm
<i>Lytrosis unitaria</i>	Common Lytrosis
<i>Euchlaena serrata</i>	Saw Wing
<i>Euchlaena muzaria</i>	Muzaria Euchlaena
<i>Euchlaena johnsonaria</i>	Johnson's Euchlaena Moth
<i>Euchlaena madusaria</i>	Scrub Euchlaena Moth
<i>Euchlaena marginaria</i>	Ochre Euchlaena Moth
<i>Xanthotype urticarial</i>	False Crocus Geometer
<i>Pero sp.</i>	
<i>Ennomos magnaria</i>	Maple Spanworm Moth
<i>Ennomos subsignaria</i>	Elm Spanworm Moth
<i>Selenia kentaria</i>	Kent's Geometer
<i>Metanema inatomaria</i>	Pale Metanema Moth
<i>Metarranthis duaria</i>	Ruddy Metarranthis Moth
<i>Probole amicaria/alienaria</i>	Alien/Friendly Probole Moth
<i>Plagodis phlogosaria</i>	Straight-lined Plagodis Moth
<i>Plagodis fervidaria</i>	Fervid Plagodis Moth
<i>Caripeta divisata</i>	Gray Spruce Looper Moth
<i>Besma quercivoraria</i>	Oak Besma Moth
<i>Eusarca confusaria</i>	Confused Eusarca
<i>Tetracis cachexiata</i>	White Slant-line Moth
<i>Eugonobapta nivosaria</i>	Snowy Geometer
<i>Eutrapela clemataria</i>	Curve-toothed Geometer
<i>Lambdina fiscellaria</i>	Hemlock Looper

Prochoerodes lineola Large Maple Spanworm Moth
Nematocampa limbata Horned Spanworm Moth
Nemoria bistriaria Red-fringed Emerald Moth
Nemoria rubrifrontaria Red-fronted Emerald Moth
Nemoria mimosaria White-fringed Emerald Moth
Nemorai sp.
Synchlora aerata Wavy-lined Emerald Moth
Chlorochlamys chloroleucaria Blackberry Looper Moth
Idaea demissaria Red-bordered Wave
Idaea dimidiata Single-dotted Wave
Haematopis grataria Chickweed Geometer
Cyclophora pendulinaria Sweetfern Geometer
Scopula limboundata Large Lace-border Moth
Scopula inductata Soft-lined Wave
Eulithis diversilineata/gracilineata
Eulithis xylina/serrataria
Rheumaptera hastate/subhastata
Mesoleuca ruficillata White-ribboned Carpet Moth
Xanthorhoe ferrugata Red Twin-spot Moth

Xanthorhoe sp.
Eppirrhoe alternate White-banded Toothed
 Carpet Moth
Euphyia intermedia Sharp-angled Carpet Moth
Orthonama obstipata Gem Moth
Costaconvexa centrostrigaria Bent-line Carpet Moth
Hydrelia inornata Unadorned Carpet Moth
Eupithecia sp.
Aplocera plagiata St. John's Wort Inchworm
Heterophelps triguttaria Three-spotted Fillip

FAMILY DREPANIDAE—Hooktip & False Owllet Moths

Drepana arcuate Arched Hooktip Moth
Drepana bilineata Two-lined Hooktip Moth
Pseudothyatira cymatophoroides Tufted Thyatirid Moth

FAMILY BOMBYCIDAE—Silkworm Moths

Olceclostera angelica The Angel

ORDER MECOPTERA—Hanging Flies & Scorpionflies

Taxonomy based on Cheung, D.K.B., Marshall, S.A. and Webb, D.W. 2006. Mecoptera of Ontario. Canadian Journal of Arthropod Identification No. 1, 28 June 2006.

Family Bittacidae—Hanging Flies

Bittacus strigosus

Panorpa mirabilis
Panorpa nebulosa
Panorpa subfurcata

Family Panorpidae—Scorpionflies

ORDER DIPTERA—True Flies

Taxonomic sources include (1) Kits, J.H., Marshall, S.A., and Evenhuis, N.L. 2008. The bee flies (Diptera: Bombyliidae) of Ontario, with a key to the species of eastern Canada. Canadian Journal of Arthropod Identification No. 6, 06 March 2008; (2) Thomas, A.W. and Marshall S. A. 2009. Tabanidae of Canada, east of the Rocky Mountains 1: a photographic key to the species of Chrysopsinae and Pangoniinae (Diptera: Tabanidae). Canadian Journal of Arthropod Identification No. 8, 25 June 2009; (3) Thomas, A. Tabanidae of Canada, east of the Rocky Mountains 2: a photographic key to the genera and species of Tabaninae (Diptera: Tabanidae) Canadian Journal of Arthropod Identification No.13, 16 February 2011; (4) Jackson, M.D., Marshall, S.A., Hanner, R. and Norrbom, A.L. 2011. The Fruit Flies (Tephritidae) of Ontario. Canadian Journal of Arthropod Identification No. 15, May 24 2011; (5) Miranda, G.F.G, Young, A.D., Locke, M.M., Marshall, S.A., Skevington, J.H., Thompson, F.C. 2013. Key to the Genera of Nearctic Syrphidae. Canadian Journal of Arthropod Identification No. 23, 23 August, 2013.

FAMILY PTYCHOPTERIDAE—Phantom Crane Flies

Bittacomorpha clavipes Phantom Crane Fly
Ptychoptera quadrifasciata

FAMILY LIMONIIDAE—Limoniid Crane Flies

Antocha sp.
Limonia annulata
Limonia cinctipes
Dactylolabis sp.
Epiphragma fasciapenne Band-winged Crane Fly
Hexatoma sp.
Limnophila rufibasis
Limnophila sp.
Pilaria sp.
Pseudolimnophila luteipennis
Cladura flavoferruginea
Erioptera needhami
Molophilus sp.
Ormosia sp.

Family Pediciidae—Pediid Crane Flies

Dicranota sp.

Family Tipulidae—Large Crane Flies

Ctenophora nubecula
Tanyptera dorsalis
Leptotarsus sp.
Nephrotoma eucera
Nephrotoma ferruginea
Nephrotoma tenuis
Prionocera sp.
Tipula borealis
Tipula bicornis
Tipula ultima
Tipula furca
Tipula sayi
Tipula tephrocephala
Tipula tricolor

FAMILY TRICHOCERIDAE—Winter Crane Flies

Trichocera sp.

FAMILY BIBIONIDAE—March Flies

Bibio longipes
Bibio sp.

FAMILY CECIDOMYIIDAE—Gall Midges

Rhabophaga strobiloides Willow Pinecone Gall
Midge

FAMILY MYCETOPHILIDAE—Fungus Gnats

Boletina sp.
Docosia sp.
Leptomorphus sp.

FAMILY CERATOPOGONIDAE—Biting Midges

Culicoides sp.
Monohelea sp.
Alluaudomyia sp.
Stilobezzia sp.
Bezzia sp.
Mallochohelea sp.
Probezzia sp.
Atrichopogon sp.

FAMILY CHIRONOMIDAE—Midges

Chironomus sp.
Dicrotendipes sp.
Einfeldia natchitochaeae
Cryptochironomus sp.
Microtendipes pedellus
Paratendipes sp.
Endochironomus subtendens
Polypedelium aviceps
Polypedelium flavum
Polypedelium illinoense
Polypedelium scalaenum
Polypedelium sp.
Stictochironomus sp.
Cryptotendipes sp.
Tanytarsus sp.
Microspectra sp.
Rheotanytarsus exiguus
Paratanytarsus sp.
Cladotanytarsus sp.
Stempellina sp.
Stempellinella sp.
Cricotopus bincintus
Cricotopus/Orthocladus complex
Parametriocnemus sp.
Paraphaenocladus sp.
Smittia sp.
Thienemanniella sp.
Procladius sp.
Thienemannimyia sp.
Conchapelopia sp.

FAMILY CULICIDAE—Mosquitoes

Anopheles sp.
Ochlerotatus canadensis

FAMILY DIXIDAE—Meniscus Midges

Dixa sp.
Dixella sp.

FAMILY SIMULIIDAE—Black Flies

Ectemnia sp.
Prosimulium sp.
Simulium vittatum complex
Simulium sp.
Stegoperla sp.

FAMILY PSYCHODIDAE—Moth Flies and Sand Flies

Pericoma sp.

FAMILY STRATIOMYIDAE—Soldier Flies

Actina viridis
Caloparyphus sp.
Myxosargus sp.
Hedriodiscus vertebratus
Odontomyia sp.
Stratiomys badia

FAMILY ATHERICIDAE—Watersnipe Flies

Atherix sp.

FAMILY PELECORHYNCHIDAE

Glutops sp.

FAMILY RHAGIONIDAE—SNIPE FLIES

Chrysopilus proximus
Chrysopilus thoracicus Golden-backed Snipe Fly
Rhagio mystaceus Common Snipe Fly

FAMILY TABANIDAE—Horse and Deer Flies

Chrysops cincticornis
Chrysops frigidus
Chrysops geminatus
Chrysops indus
Chrysops lateralis
Chrysops macquarti
Chrysops mitis
Chrysops moechus
Chrysops montanus
Chrysops shermani
Chrysops univittatus
Chrysops venus
Chrysops vittatus
Silvius sp.
Hybomitra lasiophthalma
Tabanus atratus
Tabanus quinquevittatus

FAMILY ASILIDAE—Robber Flies

Diogmites basilis
Atomosia puella
Laphria canis complex
Laphria flavicollis
Laphria index
Dioctria hyalipennis
Holopogon sp.
Stichopogon trifasciatus Three-banded Robber Fly
Holcocephala calva
Efferia aestuans
Machimus lecythus
Machimus notatus
Machimus sadyates
Machimus snowii
Neoitamus flavofemoratus
Proctacanthus milberti
Promachus bastardii

FAMILY BOMBYLIIDAE—Bee Flies

Geron calvus
Systropus macer
Bombylius major Greater Bee Fly
Systoechus vulgaris
Thevenetimyia funesta
Anthrax albofasciatus
Anthrax georgica
Exoprosopa fascipennis
Hemipenthes sinuosa Sinuous Bee Fly
Paravilla separata
Poecilanthrax tegminipennis
Villa sp.

FAMILY THEREVIDAE—Stiletto Flies

Ozodiceromyia argentata
Thereva frontalis

FAMILY XYLOPHAGIDAE

Xylophagus lugens
Xylophagus sp. (possibly *reflectens*)

FAMILY DOLICHOPODIDAE—Long-legged Flies

Dolichopus comatus
Hydrophorus sp.
Condylostylus patibulatus

FAMILY EMPIDIDAE—Dance Flies

Rhampomyia longicauda Long-tailed Dance Fly
Chellifera sp.
Hemerodromia sp.

FAMILY HYBOTIDAE—Hybotid Dance Flies

Anthalia sp.
Platypalpus sp.

FAMILY SYRPHIDAE—Flower Flies

Chrysogaster sp.
Myolepta nigra
Eristalis anthophorina
Eristalis dimidiata
Eristalis flavipes
Eristalis transversa Transverse Flower Fly
Eristalis tenax Drone Fly
Heliophilus fasciatus
Lejops lineatus
Sericomyia chysotoxoides
Spilomyia longicornis
Spilomyia sayi
Syrirta pipiens
Tropidia albistylum
Tropidia quadrata
Brachypalpus oarus
Chalcosyrphus nemorum
Xylota sp.
Platycheirus sp.
Pyrophaena granditarsis
Allograptia obliqua
Chrysotoxum sp.
Eupeodes americanus American Hover Fly
Lapposyrphus lapponicus
Sphaerophoria contigua
Sphaerophoria sp.
Toxomerus geminatus
Toxomerus marginatus
Microdon sp.

FAMILY PHORIDAE—Scuttle Flies

Dohrniphora sp.

FAMILY PLATYPEZIDAE—Flat-footed Flies

Platypeza sp.

FAMILY EPHYDRIDAE—Shore Flies

Parydra sp.

FAMILY LAUXANIIDAE

Homoneura incerta
Minietta lupulina

FAMILY MICROPEZIDAE—Stilt-legged Flies

Rainieria antennaepes

FAMILY DIOPSIDAE—Stalk-eyed Flies

Sphyracephala brevicornis

FAMILY CONOPIDAE—Thick-headed Flies

Physocephala furcillata
Zodion sp.

FAMILY SCIOMYZIDAE—Marsh Flies

Elgiva sollicita
Tetanocera plebeja
Tetanocera sp.
Trypetoptera canadensis

FAMILY PLATYSTOMATIDAE—Signal Flies

Rivellia sp.

FAMILY TEPHRITIDAE—Fruit Flies

Eurosta comma
Eurosta solidaginis Goldenrod Gall Fly
Eutreta noveboracensis
Urophora quadrifasciata Four-barred Knapweed Gall Fly

Campiglossa sp.
Euaresta bella
Ictericia circinata

FAMILY ULIDIIDAE—Picture-winged Flies

Chaetopsis massyla

FAMILY AGROMYZIDAE—Leaf Miner Flies

Liriomyza sp.

FAMILY CHLOROPIDAE—Grass Flies

Thaumatomyia glabra

FAMILY OPOMYZIDAE

Geomyza tripunctata Cereal Fly

FAMILY PSILIDAE—Rust Flies

Loxocera sp.

FAMILY TANYPEZIDAE

Tanypeza longimana

FAMILY SEPSIDAE

Sepsis sp.

FAMILY ANTHOMYIIDAE—Root Maggot Flies

Egle sp. Willow Catkin Fly
Hydrophoria lancifer

FAMILY MUSCIDAE—House Flies and Kin

Mesembrina latreillii

FAMILY SCATHOPHAGIDAE—Dung Flies

Scathophaga sterocoraria Golden Dung Fly
Cordilura scapularis Leaf-mining Dung Fly

FAMILY CALLIPHORIDAE—Blow Flies

Lucilia sp.
Pollenia sp.

FAMILY OESTRIDAE—Bot Flies

Cephenemyia phobifer Deer Nose Bot Fly

FAMILY SACROCOPHAGIDAE—Flesh Flies

Phrosinella aurifascies
Senotainia trilineata
Senotainia vigilans
Sarcophaga sp.

FAMILY TACHINIDAE—Parasitic Flies

Gonia sp.
Cylindromyia interrupta
Cylindromyia sp.
Hemyda aurata
Gymnoclytia sp.

Gymnosoma sp.
Strongygaster triangulifera
Hystricia abrupta
Archytas sp.
Copecrypta ruficauda
Epalpus signifer
Jurinopsis adusta