

# Bioblitz 2018: 942 species recorded. Wow!

The Kingston Field Naturalists held their 20<sup>th</sup> BioBlitz June 15-16<sup>th</sup>, 2018 on our own property, the Helen Quilliam Sanctuary, at Otter Lake. This 250 hectare nature reserve has a wide variety of habitats providing a good diversity of plant and animal life. The BioBlitz aims to list as many species of living things as possible in 24 hours. This snapshot of the biodiversity provides a baseline for observing future changes caused by global warming, invasive species and loss of endangered species as well as through natural succession. BioBlitzes were held at this site in 2000 and 2002.

## 4.1 Vertebrates

### Mammalia Mammals

#### Vespertilionidae Bats

*Perimyotis subflavus* Tricolored bat

#### Sciuridae Squirrels

*Tamias striatus lysteri* Chipmunk

*Sciurus carolinensis pennsylvanicus* Gray Squirrel

*Tamiasciurus hudsonicus loquax* Red Squirrel

*Marmota monax rufescens* Woodchuck

#### Castoridae Beavers

*Castor canadensis* Beaver

#### Muridae Mice, Rats And Voles

*Peromyscus leucopus novboracensis* White-footed Mouse

*Ondatra zibethicus zibethicus* Muskrat

#### Erethizontidae Porcupines

*Erithozon dorsatum dorsatum* Porcupine

#### Canidae Dogs

*Canis latrans thamnus* Coyote

#### Mustelidae Weasels

*Lutra canadensis canadensis* Otter

#### Procyonidae Raccoons

*Procyon lotor lotor* Raccoon

#### Cervidae Deer

*Odocoileus virginianus borealis* White-tailed deer

### Aves Birds

#### Phasianidae Turkeys And Grouse

*Bonasa umbellus* Ruffed Grouse

*Meleagris gallopavo* Wild Turkey

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#### Gaviidae Loons

*Gavia immer* Common Loon

#### Ardeidae Herons And Bitterns

*Ardea herodias* Great Blue Heron

#### Cathartidae Vultures

*Cathartes aura* Turkey Vulture

#### Accipitridae Hawks And Eagles

*Buteo platypterus* Broad-winged Hawk

*Buteo jamaicensis* Red-tailed Hawk

**Gruidae Cranes**

*Antigone canadensis* Sandhill Crane

**Scolopacidae Woodcock, Snipe, Sandpipers**

*Gallinago delicata* Wilson's Snipe

**Cuculidae Cuckoos**

*Coccyzus americanus* Yellow-billed Cuckoo

*Coccyzus erythrophthalmus* Black-billed Cuckoo

**Strigidae Owls**

*Strix varia* Barred Owl

**Caprimulgidae Goatsuckers**

*Antrostomus vociferus* Whip-poor-will

**Picidae Woodpeckers**

*Melanerpes carolinus* Red-bellied Woodpecker

*Picoides pubescens* Downy Woodpecker

*Picoides villosus* Hairy Woodpecker

*Colaptes auratus* Northern Flicker

*Dryocopus pileatus* Pileated Woodpecker

**Tyrannidae Flycatchers**

*Contopus virens* Eastern Wood Pewee

*Empidonax minimus* Least Flycatcher

*Sayornis phoebe* Eastern Phoebe

*Myiarchus crinitus* Great-crested Flycatcher

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*Tyrannus tyrannus* Eastern Kingbird

**Vireonidae Vireos**

*Vireo flavifrons* Yellow-throated Vireo

*Vireo gilvus* Warbling Vireo

*Vireo olivaceus* Red-eyed Vireo

**Corvidae Jays And Crows**

*Cyanocitta cristata* Blue Jay

*Corvus corax* Common Raven

**Paridae Chickadees And Allies**

*Poecile atricapillus* Black-capped Chickadee

**Sittidae Nuthatches**

*Sitta canadensis* Red-breasted Nuthatch

*Sitta carolinensis* White-breasted Nuthatch

**Turdidae Thrushes And Bluebirds**

*Catharus fuscescens* Veery

*Catharus guttatus* Hermit Thrush

*Hylocichla mustelina* Wood Thrush

*Turdus migratorius* American Robin

**Mimidae Mimics**

*Dumetella carolinensis* Gray Catbird

**Bombycillidae Waxwings**

*Bombycilla cedrorum* Cedar Waxwing

**Parulidae Wood Warblers**

*Seiurus aurocapilla* Ovenbird

*Parkesia noveboracensis* Northern Waterthrush  
*Mniotilta varia* Black-and-White Warbler  
*Geothlypis trichas* Common Yellowthroat  
*Setophaga ruticilla* American Redstart  
*Setophaga cerulea* Cerulean Warbler  
*Setophaga petechia* Yellow Warbler  
*Setophaga pensylvanica* Chestnut-sided Warbler  
*Setophaga pinus* Pine Warbler  
*Setophaga coronata* Yellow-rumped Warbler  
continued ...

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*Setophaga virens* Black-throated Green Warbler

#### **Emberizidae Sparrows And Buntings**

*Spizella passerina* Chipping Sparrow

*Spizella pusilla* Field Sparrow

*Melospiza melodia* Song Sparrow

*Melospiza georgiana* Swamp Sparrow

*Pipilo erythrophthalmus* Eastern Towhee

#### **Cardinalidae Cardinals And Allies**

*Piranga olivacea* Scarlet Tanager

*Pheucticus ludovicianus* Rose-breasted Grosbeak

*Passerina cyanea* Indigo Bunting

#### **Icteridae Meadowlarks And Blackbirds**

*Icterus galbula* Baltimore Oriole

*Agelaius phoeniceus* Red-winged Blackbird

*Quiscalus quicula* Common Grackle

#### **Fringillidae Finches**

*Spinus tristis* American Goldfinch

### **Reptilia Reptiles**

#### **Kinosternidae Musk And Mud Turtles**

*Sternotherus odoratus* Stinkpot Turtle

#### **Emydidae Pond And Marsh Turtles**

*Chrysemys picta* Midland Painted Turtle

*Graptemys geographica* Map Turtle

#### **Colubridae Typical Snakes**

*Thamnophis sirtalis* Eastern Garter Snake

*Thamnophis sauritus* Eastern Ribbon Snake

*Nerodia sipedon* Northern Water Snake

*Pantherophis spiloides* Gray Rat Snake

### **Amphibia Amphibians**

#### **Salamandridae Newts**

*Notophthalmus viridescens* Red-spotted Newt  
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#### **Ambystomatidae Mole Salamanders**

*Ambystoma laterale* Blue-spotted Salamander

*Ambystoma maculatum* Spotted Salamander

### **Plethodontidae Lungless Salamanders**

*Plethodon cinereus* Eastern Redback Salamander

### **Bufo** Toads

*Bufo americanus* American Toad

### **Hylidae** Treefrogs

*Hyla versicolor* Gray Treefrog

*Pseudacris crucifer* Spring Peeper

### **Ranidae** True Frogs

*Rana sylvatica* Wood Frog

*Rana pipiens* Northern Leopard Frog

*Rana palustris* Pickerel Frog

*Rana clamitans* Green Frog

*Rana septentrionalis* Mink Frog

*Rana catesbiana* Bull Frog

## **Actinopterygii Ray-Finned Fishes**

### **Centrarchidae** Sunfish

*Ambloplites rupestris* Rock Bass

*Lepomis gibbosus* Pumpkinseed

*Lepomis macrochirus* Bluegill

*Micropterus dolomeiu* Smallmouth Bass

*Micropterus salmoides* Largemouth Bass

*Pomoxis nigromaculatus* Black Crappie

### **Cyprinidae** Cyprinids

*Chrosomus eos* Northern Redbelly Dace

*Hybognathus hankinsoni* Brassy Minnow

*Notropis heterolepis* Blacknose Shiner

*Pimephales promelas* Fathead Minnow

### **Esocidae** Esocids

*Esox lucius* Northern Pike

continued ...

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### **Fundulidae** Killifishes

*Fundulus diaphanus* Banded Killifish

### **Ictaluridae** Ictalurids

*Ameiurus nebulosus* Brown Bullhead

### **Percidae** Percids

*Etheostoma exile* Iowa Darter

*Perca flavescens* Yellow Perch

### **Umbridae** Mudminnows

*Umbra limi* Central Mudminnow

## **4.2 Invertebrates**

## **Insecta** Insects

### **Ephemeroptera** Mayflies

*Mayfly sp.* Mayfly (nymph)

### **Zygoptera** Damselflies

*Chromagrion conditum* Aurora Damsel

*Enallagma annexum* Northern Bluet

*Enallagma boreale* Boreal Bluet

*Enallagma ebrium* Marsh Bluet

*Ischnura furcillata*

*Ischnura posita* Fragile Forktail

*Ischnura verticalis* Eastern Forktail

*Nehalennia gracilis* Sphagnum Sprite

*Lestes inequalis* Elegant Spreadwing .

*Lestes vigilax* Swamp Spreadwing

*Nehalennia irene* Sedge Sprite

*Calopteryx maculata* Ebony Jewelwing

Damselfly Nymph

**Anisoptera Dragonflies**

Dragonfly Nymph

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**Aeshnidae Darners**

*Anax junius* Common Green Darner

**Corduliidae Emeralds**

*Cordulegaster oblique* Arrowhead Spiketail

*Cordulia shurtleffii* American Emerald

*Dorocordulia libera* Racket-tailed Emerald

*Epitheca cynosura* Common Baske<sup>♂</sup>tail

*Epitheca princeps* Prince Baske<sup>♂</sup>tail

**Gomphidae Clubtails**

*Arigomphus cornutus* Horned Clubtail

*Agriomphus furcifer* Lilypad Clubtail

*Gomphus exilis* Lancet Clubtail

*Gomphus lividus* Ashy Clubtail

*Gomphus spicatus* Dusky Clubtail

**Libellulidae Skimmers**

*Celithemis elisa* Calico Pennant

*Erythemis simplicicollis* Eastern Pondhawk

*Ladona julia* Chalk-fronted Corporal

*Leucorrhina frigida* Frosted Whiteface

*Leucorrhina hudsonica* Hudsonian Whiteface

*Leucorrhinia intacta* Dot-tailed Whiteface

*Leucorrhina proxima* Belted Whiteface

*Libellula incesta* Slaty Skimmer

*Libellula luctuosa* Widow Skimmer

*Libellula pulchella* Twelve-spotted Skimmer

*Libellula quadrimaculata* Four-spotted Skimmer

*Nannothemis bella* Elfin Skimmer

*Pachydiplax longipennis* Blue Dasher

*Plathemis lydia* Common Whitetail

**Orthoptera Grasshoppers, Katydid and Crickets**

*Gryllus veletis* Spring Field Cricket

*Melanoplus sp.* Spur-throated Grasshopper

**Blattodea Roaches**

*Blattella germanica* German Cockroach  
continued ...

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#### **Hemiptera True Bugs**

*Aphidae* family Aphid

*Bansa dimidiata* Stink Bug

*Cedusa* sp. Derbid Planthopper

*Cercopoidea* family Spiñlebug

*Gerris* sp. Water Strider

*Lethocerus americanus* Giant Water Bug (nymph)

*Lethocerus americanus* Giant Water Bug

*Lygaeus kalmi* Small Milkweed Bug

*Lygus lineolaris* Tarnished Plant Bug

*Notonecta* sp. Backswimmer

*Stenotus binotatus* Two-spotted Grass Bug

*Aphididae* family Aphid

#### **Megaloptera Alderflies, Dobsonflies & Fishflies**

*Chauliodes pectinicornis* Summer Fishfly

*Chauliodes rasticornis* Spring Fishfly

#### **Coleoptera Beetles and Weevils**

*Chrysomelidae* family Leaf Beetle

*Cicindela sexguttata* Six-spotted Tiger Beetle

*Dendroides concolor* Flame-coloured Beetle

*Euderces picipes* Long-horned Beetle

*Monochamus scutellatus* Whitespotted Sawyer

*Oberea affinis* Raspberry Cane Borer

*Analeptura lineola* Flower Longhorn

*Gaurotes cyanipennis* Flower Longhorn

*Strangalepta abbreviata* Flower Longhorn Beetle

*Dineutus* sp. Whirligig Beetle

*Harmonia axyridis* Multicoloured Asian Lady Beetle

*Labidomera clivicollis* Milkweed Leaf Beetle

*Neopyrochroa femoralis* Fire-coloured Beetle

*Nicrophorus orbicollis* Roundneck Carrion Beetle

*Nicrophorus sayi* Burying Beetle

*Ellychnia corrusca* Winter Firefly

*Lucidota atra* Black Firefly

*Cantharinae* (sub family) Soldier Beetle

*Trichodes nulloalli* Red-blue Checkered Beetle

*Dichelonyx* sp

*Trichiotinus affinis* Flower Beetle

*Trichiotinus piger* Bee-like Flower Scarab

continued ...

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*Hydropsychidae* family Caddisfly (larva)

#### **Lepidoptera Butterflies, Moths and Skippers**

*Ancyloxypha numitor* Least Skipper

*Carterocephalus palaemon* Arctic Skipper  
*Coenonympha tullia* Common Ringlet  
*Danaus plexippus* Monarch  
*Epargyreus clarus* Silver-spotted Skipper  
*Eudryas unio* Pearly Wood-nymph  
*Glaucopsyche lygdamus coup* Silvery Blue  
*Hesperia sassacus* Indian Skipper  
*Limenitis arthemis arthemis* White Admiral  
*Limenitis arthemis astyanax* Red-spotted Purple  
*Megisto cymela* Little Wood-satyr  
*Nymphalis antiopa* Mourning Cloak  
*Papilio cresphontes* Giant Swallowtail  
*Phyciodes cocyta* Northern Crescent  
*Pieris rapae* Cabbage White  
*Poanes hobomok* Hobomok Skipper  
*Polygonia comma* Eastern Comma  
*Polygonia interrogatoris* Question Mark  
*Polites mystic* Long Dash Skipper  
*Pterourus glaucus canadensis* Canadian Tiger Swallowtail  
*Thorybes pylades* Northern Cloudywing  
*Wallengrenia egeremet* Northern Broken Dash  
Moths Arranged By Hodges Number  
*Agonopteryx argillacea* 0889 Grass Miner Moth sp.  
*Ethmia bipunctella* 0986 Viper's Bugloss Moth  
*Antaeotricha schlaegeri* 1011 Schlaeger's Fruitworm Moth  
*Asaphocrita aphidiella* 1171  
*Coleophora trifolii* 1388 Large Clover Casebearer Moth  
*Simyra insularis* 1868 Henry's Marsh Moth  
*Acossus centerensis* 2675 Poplar carpenterworm  
*Olethruetes* sp 2778 Olivaceous Olethruetes  
*Eucosma striatana* 2973 Striated Eucosma Moth  
*Ancylis semiovana* 3361 Half-oval Leafroller Moth  
*Argyrotaenia alisellana* 3624 White-spotted Leafroller  
*Choristoneura fractivittana* 3632 Broken-banded Leafroller  
*Choristoneura rosaceana* 3635 Oblique-banded Leafroller  
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*Archips strianus* 3664 Striated Tortrix  
*Clepsis listerana* 3679  
*Clepsis melaleucanus* 3686 Black-patched Clepsis  
*Cenopsis pelitana* 3725 Maple-Basswood Leafroller  
*Scoparia biplagiata* 4716 Double-striped Scoparia Moth  
*Nymphula ekthlipsis* 4747 Nymphula Moth  
*Elophila icciusalis* 4748 Pondsides Crambid  
*Parapoynx maculalis* 4759 Polymorphic Pondweed Moth  
*Parapoynx badiusalis* 4761 Chestnut-marked Pondweed Moth  
*Evergestis aenealis*  
*Saucrobotys futilalis* 4936 Dogbane Saucrobotys

*Crocidophora serratissimaliss* 4944 Angelic Crocidiphora Moth  
*Pyrausta bicolorali* 5040 Bicolored Pyrausta  
*Palpita magniferalis* 5226 Splendid Palpita Snout Moth  
*Domacaula melinellus* 5316 Delightful donacaula  
*Crambus agitatellus* 5362 Double-banded Grass Veneer  
*Crambus saltuellus* 5363 Pasture Grass Veneer  
*Cranbus laqueatellus* 5378 Eastern Grass-veneer Moth  
*Urola nivalis* 5464 Snowy Urola Moth  
*Aglossa cuprina* 5518 Grease Moth  
*Dolichomia olinalis* 5533 Yellow-fringed Dolichoma  
*Poco cera asperatella* 5606 Maple Webworm  
*Hellinsia homodactylis* 6203 Plain Plume Moth  
*Oreta rosea* 6255 Rose Hooktip Moth  
*Speranza coortaria* 6299 Four-spotted Granite  
*Macaria minorata* 6340 Minor Angle Moth  
*Macaria bisignata* 6342 Red-headed Inchworm  
*Macaria pinustrobata* 6347 White Pine Angle  
*Macaria fissinotata* 6348 Hemlock Angle  
*Iridopsis vellivolata* 6582 Large Purplish Grey  
*Iridopsis humaria* 6584 Small Purplish Gray Moth  
*Anavitrinella pampinaria* 6590 Common Grey  
*Protoboarmia porcelaria* 6598 Porcelain Gray  
*Hypagyrtis unipunctata* 6654 One-spotted Variant  
*Hypagyrtis piniata* 6656 Pine Measuringworm Moth  
*Cabera quadrifasciaria* 6680 Four-lined Cabera Moth  
*Cabera variola* 6678 Vestal Moth  
*Xanthotype sospeta* 6743 Crocus Geometer  
*Pero morrisonaria* 6755 Morrison's Pero Moth  
*Campaea perlata* 6796 Pale Beauty  
*Homochloides fritillaria* 6812  
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*Metanema inatomia* 6819 Pale Metanema  
*Metarranthis sp.* 6823/25 Scalloped metarranthis complex  
*Probole sp. alienaria* 6837  
*Chlorochlamys chlorcleucaria* 7071 Blackberry Looper Moth  
*Hethemia pistasciaria* 7084 Pistachio Emerald  
*Cyclophora pendulinaria* 7139 Sweetfern Geometer  
*Scopula cacuminaria* 7157 Frosted Tan Wave  
*Xanthorhoe lacustrata* 7390 Toothed Brown Carpet  
*Epirrhoe alternata* 7394 White-banded Toothed Carpet  
*Euphyia intermediata* 7399 Sharp-angled Carpet Moth  
*Horisme intestina* 7445 Brown Dark Carpet  
*Heterophleps trigularia* 7647 Three-spotted Phillip  
*Calledapteryx dryopterata* 7653 Brown Scoopwing  
*Oleclostera angelica* 7665 The Angel  
*Phyllodesma ameicana* 7687 Lappet Moth  
*Malacasoma disstria* 7698 Forest Tent Caterpillar Moth (larva)



*Malacasoma americanum* 7701 Eastern Tent Caterpillar Moth  
*Eacles imperialis* 7704 Imperial Moth  
*Automeris io* 7746 Io Moth  
*Anthereaea polyphemus* 7757 Polyphemus Moth  
*Actias luna* 7758 Luna Moth  
*Ceratonia amyntor* 7786 Elm Sphinx  
*Clostera albosigma* 7895 Sigmoid Prominent  
*Datana ministra* 7902 Yellow-necked Caterpillar Moth  
*Datana contrata* 7906 Contracted Datana  
*Natada gibbosa* 7915 White-dotted Prominent  
*Hyperaeschra georgica* 7917 Georgian Prominent  
*Peridia angulosa* 7920 Angulose Prominent  
*Notodonta torva* 7928 Northern Finned Prominent  
*Nerice bidentata* 7929 Double-toothed Prominent  
*Ellida caniplaga* 7930 Linden Prominent  
*Gluphisia septentrionis* 7931 Common Gluphisia  
*Furcula cinerea* 7937 Gray Furcula Moth  
*Symmerista* sp  
*Symmerista leucitys* 7953 Orange-humped Oakworm  
*Macrurocampa marthesia* 7975 Mothled Prominent  
*Lochhmaeus bilineata* 7999 Double-lined Prominent  
*Schizura badia* 8006 Chestnut Schizura Moth  
*Schizura unicorni* 8007 Unicorn Prominent  
*Schizura leptinoides* 8011 Black-blotched Shzura  
*Schizura* sp  
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*Oligocentria lignicolor* 8017 White-streaked Prominent  
*Clemensia albata* 8098 Little White Lichen Moth  
*Pyrrharctica Isabella* 8129 Isabella Tiger Moth  
*Spilosoma congrua* 8134 Agreeable Tiger Moth  
*Spilosoma virginica* 8137 Virginian Tiger Moth  
*Hypercompe scribonia* 8146 Giant Leopard Moth  
*Apantesis phalerata* 8169 Harnessed Tiger Moth  
*Grammia virguncula* 8175 Little Virgin Tiger Moth  
*Grammia anna* 8176 Anna Tiger Moth  
*Apantesis figurata* 8188 Figured Tiger Moth  
*Grammia parthenice* 8196 Parthenice Tiger Moth  
*Halysidota tessellaris* 8203 Banded Tussock Moth  
*Lophocampa caryae* 8211 Hickory Tussock Moth  
*Euchaetes egle* 8238 Milkweed Tussock Moth  
*Ctenucha virginica* 8262 Virginia Ctenucha  
*Cisseps fulvicollis* 8267 Yellow-collared Scape Moth  
*Dasychira vagans* 8294 Variable Tussock Moth  
*Dasychura* sp.8296 Yellow-based Tussock Moth  
*Idia lubricalis* 8334 Glossy Black Idia  
*Zanclognatha lituralis* 8340 Leptered Fan-foot  
*Zanclognatha pedipilalis* 8348 Grayish Zanclognatha Moth

*Zanclognatha cruralis* 8351 Early Fan-foot  
*Chytolita morbidalis* 8355 Morbid Owlet  
*Chytolita petrealis* 8356 Stone-winged Owlet  
*Palthis angulalis* 8397 Dark-spotted Palthis  
*Rivula propinqualis* 8404 Spotted Grass Moth  
*Hypena manalis* 8441 Flowing Line Snout  
*Hypena baltimoralis* 8442 Baltimore Snout  
*Hypena madefactalis* 8447 Grey-edged Snout  
*Spargaloma sexpunctata* 8479 Six-spotted Gray  
*Zale duplicata* 8703 False Pine Looper Moth  
*Zale horrida* 8717 Horrid Zale  
*Argyrostromis anilis* 8764 Short-lined Chocolate  
*Allagrapha aerea* 8898 Unspotted Looper Moth  
*Pseudera purpurigera* 8899 Straight-lined Looper (caterpillar)  
*Autographa precatationis* 8908 Common Looper Moth  
*Plusia contexta* 8952 Connected Looper  
*Plusia putnami* 8950 Putnam's Looper  
*Marathyssa inficita* 8955 Dark Marathyssa  
*Marathyssa boralis* 8956 Light Marathyssa  
*Baileya ophthalmica* 8970 Eyed Baileya  
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*Protodeltote muscosula* 9047 Large Mossy Glyph  
*Pseudeustrotia carneola* 9053 Pink-barred Pseudeustrotia (Lithecodia)  
*Homophoberia apicosa* 9057 Black Wedge-spot  
*Cerma cerintha* 9062 Tufted Bird-dropping Moth  
*Leuconycta diphtheroides* 9065 Green Leuconycta  
*Ponometia erastrioides* 9095 Smaller Bird-dropping Moth  
*Colocasia propin quilinea* 9185 Close-banded Yellowhorn  
*Acronicta americana* 9200 American Dagger  
*Acronicta dactylina* 9203 Fingered Dagger  
*Acronicta lepusculina* 9205 Commonwood Dagger  
*Acronicta vinnula* 9225 Delightful Dagger Moth  
*Acronicta superans* 9226 Splendid Dagger  
*Acronicta laetifica* 9227 Pleasant Dagger  
*Acronicta interrupta* 9237 Interrupted Dagger  
*Acronicta lobeliae* 9238 Great Oak Dagger  
*Acronita increta* 9249 Small Oak Dagger  
*Acronicta oblinita* 9272 Smearred Dagger  
*Acronita insularis* 9280 Henry's Marsh Moth  
*Apamea unanimitis* 9362.2 Small Clouded Brindle  
*Xylomoia chagnoni* 9433 Reed Canary Grass Borer  
*Bellura oblique* 9525 Caul Borer  
*Chytonix palliarcula* 9556 Cloaked Marvel  
*Amphipyra pyrimidoides* 9638 Copper Underwing  
*Balsa tristrigella* 9663 Three-lined Balsa Moth  
*Balsa labecula* 9664 White-blotched Balsa  
*Elaphria alapalida* 9681.1 Pale-winged Midget

*Melanchra adjuncta* 10292 Hitched Arches  
*Lacinipolia anguina* 10372 Snaky Arches  
*Lacinipolia vicina* 10394 Neighbourly Arches  
*Lacinipolia renigera* 10397 Bristly Cutworm Moth  
*Leucania ursula* 10461 Ursula Wainscot  
*Orthodes cynica* 10587 Cynical Quaker  
*Ochroleura implecta* 10891 Flame-shouldered Dart  
*Anicla illaps* 10903 Snowy Dart Moth  
*Xestia c-nigrum* 10942 Setaceous Hebrew Character

#### Diptera True Flies

*Anopheles* sp. Mosquito sp.  
Tribe Villini Bee Flies  
*Exoprosopa decora* Beefly sp  
*Anthomyiidae* family Root Maggot Fly  
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*Culicidae* family Mosquito sp.  
*Ceratopogonidae* family Biting Midge larva  
*Chironomidae* family Midge larva  
Family *Sciaridae* Dark-winged Fungus Gnat  
*Caryomyia* sp Gall midge  
*Condylostylus siphon* Long-legged Fly  
*Condylostylus caudatus* group Long-legged Fly  
*Machimus* sp. Robber Fly  
*Dioctria hyalipennis* Robber Fly  
*Calliphoridae* sp. Blow Fly  
*Muscidae* sp. Muscid Fly  
*Panorpidae* sp. Scorpion Fly  
*Odontomyia cincta* Stratiomyidae - Soldier flies  
*Scarophagidae* sp. Flesh Fly  
*Syrphidae* family, aquatic larvae Rat-tailed Maggot  
*Toxomerus geminatus* Syrphid Fly  
*Toxomerus marginatus* Syrphid Fly  
*Eristalis transversa* Syrphid Fly  
*Parhelophilus* Syrphid Fly  
*Tabanus* sp. Horse Fly  
*Chrysops* sp. Deer Fly  
*Chrysops calvus* Deer Fly  
*Chrysops excitans* Deer Fly  
Tribe Goniini Parasitic Fly  
*Archytas analis complex* Parasitic Fly  
*Thelaira americana* Parasitic Fly  
*Bilacomorpha clavipes* Phantom Crane fly  
*Tipulidae* family Large Crane Fly (+ larva)  
*Tipula fuliginosa* Sooty Crane Fly

#### Hymenoptera Ants, Bees, Sawflies and Wasps

*Camponotus* sp. Carpenter Ants  
Genus *Andrena* Mining Bees

*Subgenus Gonandrena* Dogwood Andrena  
*ruficornis species group* Typical Nomad Bees  
*Ceratina sp.* Small Carpenter Bee  
*Bombus ternarius* Tricolored Bumble Bee  
*Subgenus Pyrobombus* Bumble Bee  
*Augochlorella aurata* Sweat Bee  
*Subgenus Dialictus* Sweat Bee  
*Subgenus Lasioglossum* Sweat Bee  
continued ...  
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Invertebrates continued ...  
*Agapostemon virescens* Bicolored Striped-Sweat Bee  
*Augochloropsis metallica* Sweat Bees  
*Megachile mendica* Flat-tailed Leaf-cu□er Bee  
*Hylaeus modestus modestus* Modest Masked Bee  
*Ammophila sp.* Tread-waisted Wasp  
*Dipogon sayi* Spider Wasp  
*Pemphredoninae sp.* Aphid Wasps  
*Tenthredinidae sp.* Common Sawflies  
*Evaniidae* Ensign Wasp  
*Anomaloninae sp.* Parsitic wasp (icneumon)  
*Cryptus albitarsis* Ichneumon Wasp  
*Subfamily Cryptinae* Ichneumon Wasp  
*Euodynerus foraminatus* Po□er and Mason Wasps  
*Subfamily Crabroninae* Square-headed Wasps

## **Other Invertebrates**

### **Diplapoda Millipedes**

*Narceus americanus* Millipede  
Millipede sp.

### **Araneae Spiders**

*Tetragnatha sp.* Green Long-jawed Orb Weaver  
*Callobius sp.* Hackiemesh weaver  
*Dolomedes tenebrosus* Fishing Spider  
*Lycosidae family* Wolf Spider sp.  
*Tigrosa helluo* Field Wolf Spider  
*Neoscona arabesca* Arabesque Orb Weaver  
*Phalangiidae family* Harvestman sp.  
*Opiliones* Harvestmen  
*Salticus scenicus* Zebra Jumper  
*Evarcha hoyi* Jumping spider

### **Acari Mites and Ticks**

*Arrenurus sp.* Water Mite  
*Eriophyes laevis* Gall Mite  
*Hydrachna sp.* Red Water Mite  
*Ixodes scapularis* Black-legged Tick

### **Crustacea Crustaceans**

*Gammaridae family* Scud sp.  
continued ...

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Invertebrates continued ...

*Asellidae* family Aquatic isopod

*Orconectes immunis* Calico Crayfish

**Cladocera Water Fleas**

*Daphnia mendotae*

*Daphnia pulicaria*

*Scapholebris mucronata*

**Copepoda Copepods**

*Skistodiptomus* sp. Calanoid copepod

*Mesocyclops edax*

*Mesocyclops varicans*

*Ostracod* sp. 1 Seed Shrimp, Rothwell Lake

*Ostracod* sp. 2 Seed shrimp, vernal pool

**Phylum Rotifera Wheel animals**

*Asplanchna brightwelli*

*Bipalpus hudsoni*

*Kellicotia longispina*

*Keratella cochlearis*

*Synchaeta tremula*

**Phylum Cnidaria Cnidarians**

*Hydra species* Hydra

**Gastropoda Snails**

*Anguispira alternata* Land Snail

*Hydrobiidae* family Mud Snail (cone shell and operculum)

*Physidae* family Bladder snails (pulmonate)

*Planorbidae* family Planorbid Snail

*Arion subfuscus* Dusky Slug sp.

**Bivalvia Clams, Mussels**

*Pelecypoda species* Clam sp.

**Phylum Platyhelminthes Flatworms**

Flatworm sp.

**Phylum Annelida Segmented Worms**

*Lumbricus* sp Earthworm sp.

continued ...

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Invertebrates continued ...

**Hirudinea Leeches**

*Helobdella* sp Snail Leech

**4.3 Vascular Plants**

**Lycopodiaceae Clubmoss Family**

*Diphasiastrum complanatum* Trailing Clubmoss

**Selaginellaceae Spikemoss Family**

*Selaginella rupestris* Rock Spikemoss

**Equisetaceae Horsetail Family**

*Equisetum arvense* Field (Common) Horsetail

*Equisetum hyemale* Common Scouring-rush

*Equisetum palustre* Marsh Horsetail

*Equisetum pratense* Meadow Horsetail

**Ophioglossaceae Adders-Tongue Family**

*Botrychium virginianum* Rattlesnake Fern

**Osmundaceae Flowering Fern Family**

*Osmunda cinnamomea* Cinnamon Fern

*Osmunda regalis* Royal Fern

**Polypodiaceae Fern Family**

*Adiantum pedatum* Maidenhair Fern

*Athyrium filix-femina* Lady Fern

*Camptosorus rhizophyllus* Walking Fern

*Cystopteris bulbifera* Bulblet Fern

*Cystopteris fragilis* Northern Fragile Fern

*Dryopteris carthusiana* Spinulose Wood Fern

*Dryopteris cristata* Crested Woodfern

*Dryopteris intermedia* Evergreen Wood Fern

*Dryopteris marginalis* Marginal Wood (Shield) Fern

*Maëuccia struthiopteris* Ostrich Fern

*Onoclea sensibilis* Sensitive Fern

*Polypodium virginianum* Rock (Common) Polypody

*Polystichum acrostichoides* Christmas Fern

continued ...

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Vascular Plants continued ...

*Pteridium aquilinum* Bracken Fern

*Thelypteris palustris* Marsh Fern

**Pinaceae Pine Family**

*Abies balsamea* Balsam Fir

*Larix laricina* Tamarack (Larch)

*Picea glauca* White Spruce

*Pinus strobus* White Pine

*Tsuga canadensis* Eastern Hemlock

*Camptosorus rhizophyllus* Walking Fern

**Cupressaceae Cypress Family**

*Juniperus communis* Ground Juniper

*Juniperus horizontalis* Horizontal Juniper

*Juniperus virginiana* Eastern Red Cedar

*Thuja occidentalis* Eastern White Cedar

**Typhaceae C\*ail Family**

*Typha angustifolia* Narrow-leaved C\*ail

*Typha latifolia* Broad-leaved C\*ail

**Sparganiaceae Bur-Reed Family**

*Sparganium eurycarpum* Large-fruited (Giant) Bur-reed

**Potamogetonaceae Pondweed Family**

*Potamogeton amplifolius* Large-leaved Pondweed

*Potamogeton crispus* Curly Pondweed

*Potamogeton pusillus* Slender Pondweed

*Potamogeton richardsonii* Redhead Grass

*Potamogeton* sp. A Pondweed

**Alismataceae Water-Plantain Family**

*Alisma triviale* Northern Water-plantain

*Sagittaria latifolia* Broad-leaved Arrowhead

**Hydrocharitaceae Frogbit Family**

*Elodea canadensis* Canada Water-weed (Pondweed)

*Hydrocharis morsus-ranae* Frogbit

*Valisneria americana* Eel-Grass

continued ...

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Vascular Plants continued ...

**Gramineae Grass Family**

*Agrostis scabra* Rough Bentgrass

*Agrostis stolonifera* Creeping Bentgrass

*Bromus inermis* Awnless Brome

*Calamagrostis canadensis* Canada Blue-joint

*Cinna latifolia* Slender Wood Reedgrass

*Dactylis glomerata* Orchard Grass

*Danthonia spicata* Poverty Oat-Grass

*Deschampsia flexuosa* Crinckled Hairgrass

*Dichanthelium acuminatum* Woolly Panic Grass

*Dichanthelium latifolium* Broad-leaf Witchgrass

*Dichanthelium linearifolium* Slim-leaf Witchgrass

*Elymus hystrix* Bo[?]le Brush Grass

*Glyceria borealis* Small Floating (Northern) Manna Grass

*Glyceria grandis* Tall Manna Grass

*Glyceria striata* Fowl Manna Grass

*Leersia oryzoides* Rice Cut Grass

*Milium effusum* Wood Millet

*Oryzopsis asperifolia* White-grained Mountain-Rice

*Panicum latifolium* Broad-leafed Witchgrass

*Schedonorus pratensis* Meadow Fescue

*Phalaris arundinacea* Reed Canary Grass

*Phleum pratense* Meadow Timothy

*Piptatherum pungens* Slender Mountain-ricegrass

*Poa compressa* Canada Blue Grass

*Poa palustris* Fowl Bluegrass (Meadow Grass)

**Cyperaceae Sedge Family**

*Carex annectens* Yellow-fruited Sedge

*Carex bebbii* Bebb's Sedge

*Carex blanda* Woodland Sedge

*Carex cansecens* White Sedge

*Carex communis* Fibroous-root Sedge

*Carex comosa* Bristly Sedge

*Carex crinita* Fringed Sedge

*Carex disperma* Two-seeded Sedge

*Carex eburnea* Ebony Sedge

*Carex echinata* Li[?]le Prickly Sedge

*Carex foenea* Bronze Sedge

*Carex gracillima* Graceful Sedge

continued ...

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Vascular Plants continued ...

*Carex granularis* Meadow Sedge  
*Carex intumescens* Bladder (Villose) Sedge  
*Carex lacustris* Lake Sedge  
*Carex lupulina* Hop Sedge  
*Carex pennsylvanica* Pennsylvania Sedge  
*Carex plantaginea* Plantain-leaved (Seersucker) Sedge  
*Carex platyphylla* Broad-leaved Sedge  
*Carex pseudocyperus* Cypress-like Sedge  
*Carex retrorsa* Retrorsse Sedge  
*Carex rosea* Rosy Sedge  
*Carex scoparia* Pointed Broomsedge  
*Carex sparaganioides* Bur-reed Sedge  
*Carex sprengei* Longbeak Sedge  
*Carex stipata* Stalk-grain (Stipate) Sedge  
*Carex tuckermani* Tuckerman's Sedge  
*Carex vulpinoidea* Fox Sedge  
*Dulichium arundinaceum* Three-way Sedge  
*Eleocharis acicularis* Least Spike-rush  
*Eleocharis palustris* Marsh (Creeping) Spike-rush  
*Eriophorum virginicum* Co $\square$ on-grass  
*Schoenoplectus tabernaemontani* Soft-stem Club-rush  
*Scirpus atrovirens* Dark-green Bulrush  
*Scirpus cyperinus* Co $\square$ ongrass Bulrush  
*Scirpus pendulus* Hanging Bulrush  
**Araceae Arum Family**  
*Arisaema triphyllum* Jack-in-the -pulpit  
*Calla palustris* Water Arum  
**Lemnaceae Duckweed Family**  
*Lemna minor* Common Duckweed  
**Pontederiaceae Pickerel-Weed Family**  
*Pontedaria cordata* Pickerel-weed  
**Juncaeae Rush Family**  
*Juncus dudleyi* Dudley's Rush  
*Juncus effusus* Soft (Common) Rush  
continued ...  
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Vascular Plants continued ...  
**Liliaceae Lily Family**  
*Asparagus officinalis* Asparagus  
*Erythronium americanum* Trout-lily, Yellow  
*Lilium philadelphicum* Wood Lily  
*Maianthemum canadense* Canada Mayflower  
*Polygonatum pubescens* Hairy Solomon's Seal  
*Maianthemum racemosum* False Soloman's Seal  
*Smilax herbacea* Carrion flower  
*Streptopus lanceolatus* Rose TwistedStalk  
*Trillium erectum* Red Trillium  
*Trillium grandiflorum* White Trillium  
*Uvularia grandiflora* Large-flowered Bellwort



**Iridaceae Iris Family**

*Iris versicolor* Blue Flag

*Sisyrinchium angustifolium* Blue-eyed Grass

*Sisyrinchium montanum* Strict Blue-eyed Grass

**Orchidaceae Orchid Family**

*Cypripedium parviflorum* Yellow Lady-Slipper

*Epipactis helleborine* Helleborine

*Goodyera pubescens* Downy Rattlesnake Plantain

*Pogonia ophioglossoides* Rose Pogonia

**Salicaceae Willow Family**

*Populus balsamifera* Balsam Poplar

*Populus deltoides* Eastern Cottonwood

*Populus grandidentata* Large-toothed Aspen

*Populus tremuloides* Aspen Poplar (Trembling Aspen)

*Populus x smithii* Hybrid Aspen

*Salix bebbiana* Bebb's (Beaked) Willow

*Salix discolor* Pussy Willow

*Salix petiolaris* Slender Willow

*Salix sp.* Willow

**Myricaceae Bayberry Family**

*Myrica gale* Sweet Gale

**Juglandaceae Walnut Family**

*Carya cordiformis* Bitternut Hickory  
continued ...

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Vascular Plants continued ...

*Carya ovata* Shagbark Hickory

*Juglans cinerea* Bitternut

**Betulaceae Birch Family**

*Alnus incana* Speckled Alder

*Betula alleghaniensis* Yellow Birch

*Betula papyrifera* White Birch

*Betula populifolia* Gray Birch

*Carpinus caroliniana* Blue Beech

*Corylus cornuta* Beaked Hazelnut

*Ostrya virginiana* Hop-Hornbean

**Fagaceae Beech Family**

*Fagus grandifolia* American Beech

*Quercus rubra* Red Oak

*Quercus macrocarpa* Bur Oak

*Quercus alba* White Oak

**Ulmaceae Elm Family**

*Ulmus rubra* Red (Slippery) Elm

*Ulmus thomasi* Rock Elm

*Ulmus americana* White Elm

**Urticaceae Nettle Family**

*Boehmeria cylindrica* False Nettle

*Laportea canadensis* Wood Nettle

*Pilea pumila* Clearweed

*Urtica gracilis* Slender Nettle

**Santalaceae Sandalwood Family**

*Comandra umbellata* Bastard-Toadflax

**Aristolochiaceae Birthwort Family**

*Asarum canadense* Wild Ginger

**Polygonaceae Buckwheat Family**

*Persicaria amphibia* Water Smartweed

*Persicaria pennsylvanica* Pennsylvania Smartweed

*Polygonum persicaria* Lady's thumb

*Polygonum sp.* Smartweed sp.

continued ...

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Vascular Plants continued ...

*Fallopia scandens* Climbing False Buckwheat

*Rumex acetosella* Sheep Sorrel

*Rumex crispus* Curled Dock

*Rumex verticillatus* Water (Swamp) Dock

**Caryophyllaceae Pink Family**

*Cerastium arvense* Field Mouse-ear Chickweed

*Sibbaldia stricta* Rock Sandwort

*Silene vulgaris* Bladder Campion (Maiden's Tears)

**Ceratophyllaceae Hornwort Family**

*Ceratophyllum demersum* Common Coontail (Hornwort)

**Nymphaeaceae Water-Lily Family**

*Brasenia schreberi* Water-shield

*Nuphar variegata* Variegated Pond-lily

*Nymphaea odorata* Fragrant White Water-lily

**Ranunculaceae Crowfoot Family**

*Actaea pachypoda* White Baneberry

*Actaea rubra* Red Baneberry

*Anemone canadensis* Canada Anemone

*Anemone cylindrica* Long-fruited Anemone (Thimbleweed)

*Aquilegia canadensis* Columbine

*Clematis virginiana* Virgin's-bower

*Hepatica acutiloba* Sharp-lobed Hepatica

*Hepatica americana* Round-lobed Hepatica

*Ranunculus abortivus* Kidney-leaved (Small-flowered) Buttercup

*Ranunculus acris* Tall Buttercup

*Ranunculus recurvatus* Hooked Buttercup (Crowfoot)

*Thalictrum dioicum* Early Meadow-rue

**Berberidaceae Barberry Family**

*Caulophyllum gigantea* Early Blue Cohosh

*Caulophyllum thalictroides* Blue Cohosh

**Papaveraceae Poppy Family**

*Sanguinaria canadensis* Bloodroot

continued ...

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**Fumariaceae Fumitory Family**

*Adlumia fungosa* Alleghany-Vine  
*Corydalis sempervirens* Pale Corydalis  
*Dicentra cucullaria* Dutchman's breeches  
**Cruciferae Mustard Family**  
*Alliaria petiolata* Garlic Mustard  
*Arabis glabra* Tower Mustard  
*Arabis hirsuta* v. *pycnocarpa* Hairy Rockcress  
*Borodinia laevigata* Smooth Rockcress  
*Capsella bursa-pastoris* Shepherd's-purse  
*Cardamine diphylla* Toothwort  
*Erysimum cheiranthodes* Wormseed Mustard  
*Lepidium campestre* Field Peppergrass  
*Thlaspi arvense* Field Penny-cress  
**Saxifragaceae Saxifrage Family**  
*Mitella diphylla* Bishop's-cap (Mitrewort)  
*Mitella nuda* Naked Mitrewort  
*Saxifraga virginiana* Early Saxifrage  
**Grossulariaceae Gooseberry Family**  
*Ribes americanum* Black Currant  
*Ribes cynosbati* Prickly Gooseberry  
*Tiarella cordifolia* Foam flower  
**Rosaceae Rose Family**  
*Amelanchier arborea* Downy Serviceberry  
*Amelanchier laevis* Smooth Serviceberry  
*Fragaria vesca* Wood Strawberry  
*Fragaria virginiana* Common (Wild) Strawberry  
*Geum canadense* White Avens  
*Potentilla argentea* Silvery Cinquefoil  
*Potentilla recta* Sulphur Cinquefoil  
*Potentilla simplex* Common Cinquefoil  
*Potentilla intermedia* Downy Cinquefoil  
*Prunus pensylvanica* Pin Cherry  
*Prunus serotina* Black Cherry  
*Prunus virginiana* Choke Cherry  
*Rosa palustris* Swamp Rose  
continued ...  
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Vascular Plants continued ...  
*Rubus allegheniensis* Common Blackberry  
*Rubus idaeus* Red Raspberry  
*Rubus idaeus* ssp *strigosus* Wild Red Raspberry  
*Rubus occidentalis* Black Raspberry  
*Rubus odoratus* Purple Flowering Raspberry  
*Rubus pubescens* Dwarf Raspberry  
*Spiraea alba* Narrow-leaved Meadowsweet  
*Spiraea tomentosa* Steeple-bush  
*Waldsteinia fragarioides* Barren-Strawberry  
**Fabaceae Bean Family**  
*Amphicarpa bracteata* Hog Peanut

*Desmodium glutinosum* Glutinous Tick-trefoil  
*Desmodium paniculatum* Panicked Tick-trefoil  
*Desmodium rotundifolium* Round-leaved Tick-trefoil  
*Glycyrrhiza lepidota* Wild Licorice  
*Lotus corniculatus* Bird's-foot Trefoil  
*Medicago lupulina* Black Medic  
*Medicago sativa* Alfalfa  
*Melilotus alba* White Sweet-clover  
*Melilotus officinalis* Yellow Sweet-clover  
*Trifolium aureum* Hop-clover  
*Trifolium hybridum* Alsike Clover  
*Trifolium pratense* Red Clover  
*Trifolium repens* White Clover  
*Vicia cracca* Cow (Tufted) Vetch  
**Geraniaceae Geranium Family**  
*Geranium maculatum* Wild Geranium  
*Geranium robertianum* Herb Robert  
**Oxalidaceae Wood-Sorrel Family**  
*Oxalis stricta* European Yellow Wood-sorrel  
**Rutaceae Rue Family**  
*Zanthoxylum americanum* Northern Prickly Ash  
**Anacardiaceae Cashew Family**  
*Rhus typhina* Staghorn Sumac  
*Toxicodendron radicans* Eastern Poison Ivy  
continued ...  
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*Toxicodendron rydbergii* Poison Ivy  
**Aquifoliaceae Holly Family**  
*Ilex verticillata* Winterberry  
**Celastraceae Staff-Tree Family**  
*Celastrus scandens* Climbing Bittersweet  
**Aceraceae Maple Family**  
*Acer pensylvanicum* Striped Maple  
*Acer rubrum* Red Maple  
*Acer saccharinum* Silver Maple  
*Acer saccharum* Sugar Maple  
**Balsaminaceae Touch-Me-Not Family**  
*Impatiens capensis* Spotted Jewel-weed  
**Rhamnaceae Buckthorn Family**  
*Ceanothus americanus* New-Jersey Tea  
*Rhamnus cathartica* Common Buckthorn  
**Vitaceae Grape Family**  
*Parthenocissus vitacea* Virginia Creeper  
*Vitis riparia* Riverbank Grape  
**Tiliaceae Linden Family**  
*Tilia americana* Basswood  
**Hypericaceae St. John's Wort Family**  
*Hypericum perforatum* Common St. John's Wort

*Hypericum canadense* Canada St. John's Wort

**Violaceae Violet Family**

*Viola adunca* Sand Violet

*Viola cucullata* Marsh Blue Violet

*Viola pubescens* Downy Yellow Violet

*Viola rostrata* Long-spurred Violet

*Viola sp.* A Violet

continued ...

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Vascular Plants continued ...

**Elaeagnaceae Oleaster Family**

*Shepherdia canadensis* Russet (Canada) Buffaloberry

**Lythraceae Loosestrife Family**

*Decodon verticillatus* Water-Willow

*Lythrum salicaria* Purple Loosestrife

**Onagraceae Evening-Primrose Family**

*Circaea lutetiana* Enchanter's Nightshade

*Oenothera biennis* Yellow Evening Primrose

**Haloragaceae Water-Milfoil Family**

*Myriophyllum spicatum* Eurasian Water-milfoil

**Araliaceae Ginseng Family**

*Aralia hispida* Bristly Sarsaparilla

*Aralia nudicaulis* Wild Sarsaparilla

*Aralia racemosa* Spikenard

**Umbelliferae Parsley Family**

*Cicuta bulbifera* Bulb-bearing Water Hemlock

*Cryptotaenia canadensis* Honewort

*Daucus carota* Wild Carrot (Queen Anne's Lace)

*Osmorrhiza claytoni* Hairy Sweet Cicely

*Sanicula marilandica* Black Snakeroot (Sanicle)

**Cornaceae Dogwood Family**

*Cornus alternifolia* Alternate-leaved Dogwood

*Cornus obliqua* Silky Dogwood

*Cornus canadensis* Bunchberry

*Cornus racemosa* Grey Dogwood

*Cornus rugosa* Round-leaved Dogwood

*Cornus stolonifera* Red-osier Dogwood

**Ericaceae Heath Family**

*Gaultheria procumbens* Wintergreen

*Vaccinium angustifolium* Low-Bush Blueberry

*Vaccinium corymbosum* High-Bush Blueberry

continued ...

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**Primulaceae Primrose Family**

*Lysimachia borealis* Starflower

*Lysimachia terrestris* Swamp Loosestrife (Swamp Candles)

*Lysimachia thysiflora* Yellow (Tufted) Loosestrife

**Oleaceae Olive Family**

*Fraxinus americana* White Ash  
*Fraxinus nigra* Black Ash  
*Fraxinus pennsylvanica* Red (Green) Ash  
**Gentianaceae Gentian Family**  
*Gentiana rubricaulis* Red-stemmed Gentian  
*Gentiana sp.* White Gentian  
**Apocynaceae Dogbane Family**  
*Apocynum androsaemifolium* Spreading Dogbane  
*Apocynum cannabinum* Indian Hemp  
*Apocynum sibiricum* Claspig Dogbane  
**Asclepidaceae Milkweed Family**  
*Asclepias incarnata* Swamp Milkweed  
*Asclepias syriaca* Common Milkweed  
*Asclepias exaltata* Poke Milkweed  
*Cynanchum rossicum* European (Pale) Swallow-wort  
**Convolvulaceae Morning-Glory Family**  
*Calystegia sepium* Hedge False Bindweed  
**Boraginaceae Borage Family**  
*Echium vulgare* Viper's Bugolss (Blue-weed)  
*Lithospermum officinale* (European) Gromwell  
**Verbenaceae Vervain Family**  
*Verbena hastata* Blue Vervain  
**Labiatae Mint Family**  
*Clinopodium vulgare* Wild Basil  
*Leonurus cardiaca* Motherwort  
*Lycopus americanus* Cut-leaved Water-horehound  
*Lycopus europaeus* Bugleweed  
continued ...  
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Vascular Plants continued ...  
*Monarda fistulosa* Wild Bergamot  
*Nepeta cataria* Catnip  
*Prunella vulgaris* Heal-all  
**Solanaeae Nightshade Family**  
*Solanum dulcamara* Biñersweet Nightshade  
**Scrophulariaceae Figwort Family**  
*Chaenorrhinum minus* Dwarf Snapdragon  
*Chelone glabra* White Turtlehead  
*Linaria vulgaris* Yellow Toadflax (Buñer and Eggs)  
*Pedicularis canadensis* Early Wood Lousewort  
*Penstemon digitalis* Foxglove Beardtongue  
*Penstemon hirsutus* Hairy Beardtongue  
*Verbascum thapsus* Common Mullein  
*Veronica officinalis* Common Speedwell  
**Orobanchaceae Broom-Rape Family**  
*Epifagus virginiana* Beech-drops  
**Lentibulariaceae Bladderwort Family**  
*Utricularia vulgaris* Common (Greater) Bladderwort  
**Phrymaceae Lopseed Family**

*Phryma leptostachya* Lopseed

**Plantaginaceae Plantain Family**

*Plantago lanceolata* English Plantain

*Plantago major* Broad-leaved (Common) Plantain

**Rubiaceae Madder Family**

*Cephalanthus occidentalis* Bush Onobush

*Galium aparine* Cleavers

*Galium circaezans* Wild Licorice

*Galium lanceolatum* Yellow (Lanceleaf) Wild Licorice

*Galium mollugo* Wild Madder

*Galium palustre* Marsh Bedstraw

*Galium triflorum* Fragrant Bedstraw

*Mitchella repens* Partridge-berry

continued ...

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**Caprifoliaceae Honeysuckle Family**

*Diervilla lonicera* Northern Bush Honeysuckle

*Lonicera canadensis* Canada Fly-Honeysuckle

*Lonicera dioica* Glaucous Honeysuckle

*Lonicera tatarica* Tatarian Honeysuckle

*Sambucus racemosa* Red-berried Elder

*Symphoricarpos albus* Thin-leaved Snowberry

*Viburnum acerifolium* Maple-leaved Viburnum

*Viburnum lentago* Nannyberry

*Viburnum rafinesquianum* Downy Arrowwood

*Viburnum trilobum* Highbush-Cranberry

**Campanulaceae Harebell Family**

*Campanula rotundifolia* Harebell

**Lobeliaceae Lobelia Family**

*Lobelia cardinalis* Cardinal flower

**Compositae Composite Family**

*Achillea millefolium* Yarrow

*Ambrosia artemisiifolia* Common Ragweed

*Anaphalis margaritacea* Pearly Everlasting

*Antennaria neglecta* Field Pussy-toes

*Antennaria parlinii* Parlini's Pussy-toes

*Antennaria plantaginifolia* Plantain-leaved Pussy-toes

*Arctium minus* Common Burdock

*Bidens cernua* Nodding Beggarticks

*Bidens sp.* Bur-marigold sp.

*Carduus sp.* Thistle sp.

*Centaurea stoebe (maculosa)* Spotted Knapweed

*Cichorium intybus* Chicory

*Cirsium arvense* Canada Thistle

*Cirsium vulgare* Bull Thistle

*Doelleringia umbellatus* Flat-topped White Aster

*Erigeron annuus* Annual Fleabane (Daisy Fleabane)

*Erigeron philadelphicus* Philadelphia (Common) Fleabane

*Erigeron strigosus* Rough (Lesser Daisy) Fleabane  
*Eupatorium perfoliatum* Common Boneset  
*Eurybia macrophyllus* Large-leaved Aster  
*Euthamia graminifolia* Grass-leaved Goldenrod  
continued ...  
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Vascular Plants continued ...  
*Eutrochium maculatum* Spotted Joe-pye-weed  
*Helianthus divaricatus* Woodland Sunflower  
*Hieracium aurantiacum* Orange Hawkweed  
*Hieracium caespitosum* Field Hawkweed  
*Hieracium gronovii* Hairy Hawkweed  
*Lactuca canadensis* Canada Lettuce (Wild Lettuce)  
*Lactuca scariola* Prickly Lettuce  
*Leucanthemum vulgare* Ox-eye Daisy  
*Nabalus albus* (White-lettuce) White Rattlesnakeroot  
*Pilosella aurantiacum* Orange Hawkweed  
*Pilosella officinarum* Mouse-ear Hawkweed  
*Rudbeckia hirta* Black-eyed Susan  
*Solidago altissima* Tall Goldenrod  
*Solidago bicolor* Silverrod  
*Solidago caesia* Blue-stemmed Goldenrod  
*Solidago canadensis* Canada Goldenrod  
*Solidago flexicaulis* Zigzag (Broad-leaved) Goldenrod  
*Solidago hispida* Hairy Goldenrod  
*Solidago juncea* Early Goldenrod  
*Solidago rugosa* Rough-Stemmed Goldenrod  
*Sonchus arvensis* Perennial (Field) Sow-Thistle  
*Symphotrichum puniceum* Purple-stemmed Aster  
*Symphotrichum cordifolium* Heart-leaved Aster  
*Symphotrichum lanceolatum* Panicked Aster  
*Symphotrichum novae-angliae* New-England Aster  
*Taraxacum officinale* Common Dandelion  
*Tragopogon dubius* (Fistulous) Goat's-beard  
*Tragopogon pratensis* Meadow Goat's-beard  
*Tussilago farfara* Coltsfoot

#### **4.4 Non-Vascular Plants**

### **Algae**

**Chlorophyta** Green Algae

*Spirogyra* sp.

*Volvox* sp.

continued ...

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Non-Vascular Plants continued ...

**Chrysophyceae** Golden Algae

*Dinobryon* sp. Gold Algae

**Bacillariophyceae** Diatoms

*Asterionella* sp.

*Cymbella* sp.



*Fragilaria sp.*

*Gomphonema sp.*

*Tabellaria sp.*

**Dinoflagellata Dinoflagellates**

*Ceratium sp.* Dinoflagellate

## **Lichens**

*Cladina rangiferina* Caribou Moss

*Umbellicaria mammulata* Rock Tripe

## **Lycopodiopsida Clubmosses**

*Huperzia lucidula* Shining Clubmoss

*Lycopodium clavatum* Running Clubmoss

## **Bryophyta Mosses**

*Leucobryum glaucum* Pin Cushion Moss

*Polytrichum commune* Juniper Moss

*Rhytidiadelphus triquetrus* Gooseneck Moss

## **4.5 Fungi**

### **Fungi**

*Ampulloclitocybe clavipes* Club-foot Clitocybe

*Apiosporina morbosa* Black Knot

*Armillaria sp.* Honey Mushroom

*Cerioporus mollis*

*Cerioporus various*

*Cerrina unicolor*

continued ...

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Fungi continued ...

*Chlorociboria aeruginascens* Green Stain

*Lachnum virgineum*

*Diatrype stigma*

*Eutypella parasitica*

*Fomes fomentarius* Tinder Polypore

*Ganoderma applanatum* Artist's Conk

*Gymnopilus sp.*

*Gymnopus dryophilus*

*Kreischmaria deusta*

*Marasmius rotula* Pinwheel Marasmius

*Megacollybia platyphilla* Pleasant Mushroom

*Mycena niveipes*

*Neofavolus aleolaris* Hexagonal-pored Polypore

*Pernniporia ohiensis*

*Peziza sp.*

*Phaeocalicium polyporaeum*

*Phellinus igniarius*

*Phomopsis sp.* a leaf blight

*Ruzenia spermoides*

*Schizophyllum commune* Common Split Gill

*Scutellina scutellata* Eyelash Cup

*Stereum ostrea* False Turkey Tail

*Stereum sanguinolentum*

*Stereum striatum* Silky Parchment

*Trametes versicolor* Turkey Tail

*Trichaptum biforme* Violet Toothed Polypore

*Tyromyces chioneus* White Cheese Polypore

*Xylaria polymorpha* Dead Man's Fingers

## **Slime Moulds**

*Fuligo septica* Scrambled-egg Slime

*Lycogala epidendrum* Wolf's-milk Slime