

SPECIES LISTS OF THE KOFFLER SCIENTIFIC RESERVE AT JOKERS HILL, ONTARIO, CANADA

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ABSTRACT

This document includes taxonomically-organized lists of all vascular plants, amphibians and reptiles, birds, and mammals recorded from the 350 ha Koffler Scientific Reserve of the University of Toronto, in King Township, Regional Municipality of York, Ontario, Canada (44° 01' N, 79° 31' W). These lists were initially compiled by C.S. Blaney and were published as an appendix to his M.Sc. thesis (Blaney C.S. 1999), conducted under the supervision of P.M. Kotanen. They subsequently were formatted for the web by P.M. Kotanen and made available on the Koffler Scientific Reserve website (<http://ksr.utoronto.ca/>), where they were revised periodically to reflect additions and taxonomic changes. A major revision in 2020, led by T. Babar, reflected recent phylogenetic and nomenclatural changes and added additional species. These revised lists included numerous additional observations of birds contributed by T. McKenzie and G. Reed. Additional information on each list is provided in that particular section.

These lists are current as of 21 June 2024. Additional species (e.g., Passenger Pigeon, Black Bear) undoubtedly occurred at this site prior to European settlement, but are not documented in the existing record. Information on any additional species (preferably with photographs or specimens) should be directed to the correspondence author.

These lists document the existing biodiversity of this rapidly urbanizing area. Both current users and future researchers should benefit from the permanent availability of this unique resource.

REFERENCES

Blaney, C.S. (1999) Seed bank dynamics of native and exotic plants in open uplands of southern Ontario. M.Sc. thesis. Department of Ecology and Evolutionary Biology, University of Toronto. <https://tspace.library.utoronto.ca/handle/1807/14382/>

**VASCULAR PLANTS OF THE KOFFLER SCIENTIFIC RESERVE AT JOKERS HILL
King Township, Regional Municipality of York, Ontario**

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This property was donated to the University of Toronto in 1995. This list is based on observations at this site by C.S. Blaney, P.M. Kotanen, and many others beginning in 1997; a partial list of contributors may be found in Blaney (1999). Care has been taken to include only species which have been identified with certainty, and numerous experts have assisted with observations and difficult identifications, notably P. Ball and M.T.J. Johnson (University of Toronto), T. Dickinson and J. Bull (Royal Ontario Museum), A. Reznicek (University of Michigan), and W. Wagner (United States National Herbarium). Voucher specimens have been collected for many difficult identifications. Approximately 160 species (indicated by †) are documented by specimens donated to the Royal Ontario Museum / University of Toronto herbarium (TRT); numerous additional species are represented in the Koffler Scientific Reserve on-site herbarium. The phylogenetic classification of ferns and allies follows the Pteridophyte Phylogeny Group (PPG I 2016: *Journal of Systematics and Evolution* 54, 563-603), classification for gymnosperms is based on Christenhusz et al. 2011 (*Phytotaxa* 19, 55-70), and classification for angiosperms follows the Angiosperm Phylogeny IV system (APG IV 2016: *Botanical Journal of the Linnean Society* 181, 1-20). Scientific and English nomenclature follow the Database of Vascular Plants of Canada (VASCAN) (<https://data.canadensys.net/vascan/>); VASCAN or the first edition of this list may be consulted for synonymy.

This list includes all species known to be growing outside of cultivation within the Koffler Scientific Reserve during the observation period. This includes a number of tree species which are questionably established, but nonetheless are widely planted on the property. Also listed are 13 native species found in land adjacent to the Jokers Hill property, but not yet found on the site (scientific name preceded by "**"). A total of 639 species and hybrids are listed; 450 taxa listed by VASCAN as native to Ontario (those listed in **bold typeface**) and 189 are considered non-native (listed in regular typeface). Not all listed species still may occur on-site (e.g., American Ginseng – not seen since 2008). Information on any additional species (preferably with photographs or specimens) would be welcomed by the authors.

FERNS AND ALLIES

LYCOPODIALES

Lycopodiaceae

†*Dendrolycopodium dendroideum* (Michx.) A. Haines (s.st.)
Diphasiastrum digitatum Dill. ex A. Braun (Holub)
†*Diphasiastrum tristachyum* (Pursh) Holub
Huperzia lucidula (Michx.) Trevis.
Lycopodium clavatum L.

EQUISETALES

Equisetaceae

Equisetum arvense L.
Equisetum fluviatile L.
Equisetum hyemale L.
†*Equisetum pratense* Ehrh.
Equisetum scirpoides Michx.
Equisetum sylvaticum L.
Equisetum variegatum Schleich. ex Fried., Weber & Mohr.

OPHIOGLOSSALES

Ophioglossaceae

Botrychium matricariifolium (Döll) A. Braun ex Koch
Botrypus virginianus (L.) Michx.
†*Sceptridium dissectum* (Spreng.) Lyon
Sceptridium multifidum (S. G. Gmelin) Nishida ex Tagawa

OSMUNDALES

Osmundaceae

Claytosmunda claytoniana (L.) Metzgar & Rouhan
Osmunda regalis L.
Osmundastrum cinnamomeum (L.) C. Presl

POLYPODIALES

Pteridaceae

Adiantum pedatum L.

Dennstaedtiaceae

†*Dennstaedtia punctilobula* (Michx.) T. Moore
Pteridium aquilinum (L.) Kuhn

Clubmosses

(Clubmosses)

Round-branched Tree-clubmoss
Southern Ground-cedar
Blue Ground-cedar
Shining Firmoss
Running Clubmoss

Horsetails

(Horsetails)

Field Horsetail
Water Horsetail
Common Scouring-rush
Meadow Horsetail
Dwarf Scouring-rush
Woodland Horsetail
Variegated Horsetail

Adder's-tongues

(Adder's-tongues)

Daisy-leaved Moonwort
Rattlesnake Fern
Cutleaf Grape-fern
Leathery Grape-fern

Royal Ferns

(Royal Ferns)

Interrupted Fern
Royal Fern
Cinnamon Fern

Leptosporangiate Ferns

(Maidenhair Ferns)

Northern Maidenhair Fern

(Bracken Ferns)

Eastern Hay-scented Fern
Bracken Fern

Cystopteridaceae

Cystopteris bulbifera (L.) Bernh.
Cystopteris tenuis (Michx.) Desv.
Gymnocarpium dryopteris (L.) Newman

(Bladder Ferns)
Bulblet Bladder Fern
Mackay's Brittle Fern
Common Oak Fern

Aspleniaceae

Asplenium platyneuron (L.) Oakes ex D. Eaton

(Spleenworts)
Ebony Spleenwort

Onocleaceae

Matteuccia struthiopteris (L.) Tod.
Onoclea sensibilis L.

(Sensitive Ferns)
Ostrich Fern
Sensitive Fern

Athyriaceae

Deparia acrostichoides (Swartz) M. Kato

(Lady Ferns)
Silvery Spleenwort

Thelypteridaceae

†*Parathelypteris noveboracensis* (L.) Ching
Phegopteris connectilis (Michx.) Watt
Thelypteris palustris (Salisb.) Schott

(Marsh Ferns)
New York Fern
Northern Beech Fern
Marsh Fern

Dryopteridaceae

Athyrium filix-femina (L.) Roth.
†*Dryopteris* ×*boottii* (Tuckerm.) Underw.
Dryopteris carthusiana (Vill.) H.P. Fuchs
Dryopteris cristata (L.) A. Gray
Dryopteris goldiana (Hook. ex Goldie) A. Gray
Dryopteris intermedia (Muhlenb. ex Willd.) A. Gray
Dryopteris marginalis (L.) A. Gray
†*Dryopteris* ×*triploidea* Wherry
Polystichum acrostichoides (Michx.) Schott

(Wood Ferns)
Common Lady Fern
Boott's Wood Fern
Spinulose Wood Fern
Crested Wood Fern
Goldie's Wood Fern
Evergreen Wood Fern
Marginal Wood Fern
Triploid Wood Fern
Christmas Fern

Polypodiaceae

†*Polypodium virginianum* L.

(Polypodies)
Rock Polypody

GYMNOSPERMS

PINALES

Pinaceae

Larix laricina (Du Roi) K. Koch
Picea abies (L.) Karsten
Picea glauca (Moench) Voss
Picea pungens Engelm.
Pinus banksiana Lamb.
Pinus resinosa Sol. ex Aiton
Pinus strobus L.
Pinus sylvestris L.
Tsuga canadensis (L.) Carrière

Pines and Spruces

(Pines)
Tamarack
Norway Spruce
White Spruce
Blue Spruce
Jack Pine
Red Pine
Eastern White Pine
Scots Pine
Eastern Hemlock

CUPRESSALES

Cupressaceae

†*Juniperus communis* L.

†*Juniperus virginiana* L.

Thuja occidentalis L.

Taxaceae

Taxus canadensis Marshall

Cypresses

(Cypresses)

Common Juniper

Eastern Red Cedar

Eastern White Cedar

(Yews)

Canada Yew

ANGIOSPERMS

MAGNOLIIDS

PIPERALES

Aristolochiaceae

Asarum canadense L.

Dutchman's-pipes

(Dutchman's-pipes)

Canada Wild-ginger

MONOCOTS

ALISMATALES

Araceae

Arisaema triphyllum (L.) Schott

Lemna minor L.

Spirodela polyrhiza (L.) Schleid.

Wolffia columbiana Karst.

Alismatids

(Arums)

Jack-in-the-Pulpit

Small Duckweed

Greater Duckweed

Columbia Watermeal

Alismataceae

Alisma triviale Pursh

†*Sagittaria latifolia* Willd.

(Water-plantains)

Northern Water-plantain

Broad-leaved Arrowhead

Hydrocharitaceae

Najas flexilis (Willd.) Rostkov & W. Schmidt

(Frog-bits)

Slender Naiad

Potamogetonaceae

†*Stuckenia pectinata* (L.) Boerner

(Pondweeds)

Sago Pondweed

LILIALES

Melanthiaceae

Trillium erectum L.

Trillium grandiflorum (Michx.) Salisb.

(Bunchflowers)

Red Trillium

White Trillium

Colchicaceae

Uvularia grandiflora Sm.

(Colchicums)

Large-flowered Bellwort

Smilacaceae

Smilax herbacea L.
†*Smilax tamnoides* L.

Liliaceae

Clintonia borealis (Aiton) Raf.
Erythronium americanum Ker Gawl.
Medeola virginiana L.
Streptopus lanceolatus (Aiton) Reveal

ASPARAGALES

Orchidaceae

**Corallorhiza maculata* (Raf.) Raf.
Corallorhiza trifida Châtel.
Cypripedium parviflorum Salisb.
Cypripedium reginae Walter
Epipactis helleborine (L.) Crantz
†*Galearis spectabilis* (L.) Raf.
Liparis loeselii (L.) Rich. ex Lindl.
*†*Malaxis monophyllos* (L.) Sw.
Platanthera aquilonis Sheviak
Spiranthes cernua (L.) Rich.

Iridaceae

Iris versicolor L.
Sisyrinchium montanum Greene

Asphodelaceae

Hemerocallis fulva (L.) L.

Amaryllidaceae

Allium tricoccum Solander in Aiton

Asparagaceae

Asparagus officinalis L.
Maianthemum canadense Desf.
Maianthemum racemosum (L.) Link
†*Maianthemum stellatum* (L.) Link
Polygonatum pubescens (Willd.) Pursh

POALES

Typhaceae

†*Sparganium emersum* Rehmman
Typha angustifolia L.
Typha latifolia L.

(Catbriers)

Herbaceous Carrionflower
Bristly Greenbrier

(Lilies)

Yellow Clintonia
Yellow Trout Lily
Indian Cucumber-root
Rose Twisted-stalk

Asparagoid Lilies

(Orchids)

Spotted Coralroot
Early Coralroot
Yellow Lady's-slipper
Showy Lady's-slipper
Broad-leaved Helleborine
Showy Orchis
Loesel's Twayblade
White Adder's-mouth
Tall Northern Green Orchid
Sphinx Ladies'-tresses

(Irises)

Harlequin Blue Flag
Strict Blue-eyed Grass

(Asphodels)

Orange Daylily

(Amaryllises)

Wild Leek

(Asparaguses)

Garden Asparagus
Wild Lily-of-the-valley
Large False Solomon's Seal
Star-flowered False Solomon's Seal
Hairy Solomon's Seal

Grasses & Allies

(Cattails)

Green-fruited Burreed
Narrow-leaved Cattail
Broad-leaved Cattail

Juncaceae

†*Juncus articulatus* L.
†*Juncus brevicaudatus* (Engelm.) Fern.
Juncus bufonius L.
†*Juncus compressus* Jacq.
†*Juncus dudleyi* Wiegand
Juncus effusus L.
†*Juncus nodosus* L.
Juncus tenuis Willd.
Juncus torreyi Coville

Cyperaceae

†*Carex albursina* E. Sheld.
†*Carex aquatilis* Wahlenb.
Carex arctata Boott
Carex aurea Nutt.
*†*Carex backii* Boott
†*Carex bebbii* (L.H. Bailey) Olney ex Fern.
†*Carex blanda* Dewey
†*Carex cephalophora* Muhlenb. ex Willd.
†*Carex communis* L.H. Bailey
†*Carex cristatella* Britton
Carex deweyana Schwein.
†*Carex disperma* Dewey
†*Carex flava* L.
Carex gracillima Schwein.
Carex granularis Muhlenb. ex Willd.
*†*Carex hirtifolia* Mack.
†*Carex hitchcockiana* Dewey
†*Carex hystericina* Muhlenb. ex Willd.
†*Carex interior* L. H. Bailey
*†*Carex intumescens* Rudge
†*Carex laevivaginata* (Kükenth.) Mack.
†*Carex lasiocarpa* Ehrh.
†*Carex laxiflora* Lam.
Carex leptalea Wahlenb.
†*Carex leptoneuria* (Fern.) Fern.
Carex lupulina Muhlenb. ex Willd.
†*Carex muehlenbergii* Schkuhr ex Willd.
†*Carex peckii* Howe
Carex pedunculata Muhlenb. ex Willd.
Carex pennsylvanica Lam.
Carex plantaginea Lam.
Carex platyphylla J. Carey
**Carex projecta* Mack.
†*Carex pseudocyperus* L.
†*Carex radiata* (Wahlenb.) Small
Carex retrorsa Schwein.
†*Carex rosea* Schkuhr ex Willd.

(Rushes)

Jointed Rush
Short-tailed Rush
Toad Rush
Compressed Rush
Dudley's Rush
Soft-stem Rush
Knotted Rush
Path Rush
Torrey's Rush

(Sedges)

White Bear Sedge
Water Sedge
Drooping Woodland Sedge
Golden Sedge
Back's Sedge
Bebb's Sedge
Woodland Sedge
Oval-leaved Sedge
Fibrous-root Sedge
Crested Sedge
Dewey's Sedge
Two-seeded Sedge
Yellow Sedge
Graceful Sedge
Limestone Meadow Sedge
Pubescent Sedge
Hitchcock's Sedge
Porcupine Sedge
Inland Sedge
Bladder Sedge
Smooth-sheathed Sedge
Woolly-fruited Sedge
Loose-flowered Sedge
Bristle-stalked Sedge
Finely-nerved Sedge
Hop Sedge
Muhlenberg's Sedge
Peck's Sedge
Long-stalked Sedge
Pennsylvania Sedge
Plantain-leaved Sedge
Broad-leaved Sedge
Necklace Sedge
Cyperus-like Sedge
Eastern Star Sedge
Retorse Sedge
Rose Sedge

Carex scabrata Schwein.
Carex schweinitzii Dewey ex Schwein. × *utriculata* Boott
Carex sparganioides Muhlenb. ex Willd.
†*Carex spicata* Huds.
Carex sprengelii Dewey ex Spreng.
Carex stipata Muhlenb. ex Willd.
†*Carex tonsa* (Fern.) Bicknell
Carex vulpinoidea Michx.
Cyperus bipartitus Torr.
†*Cyperus lupulinus* (Spreng.) Marcks
Eleocharis erythropoda Steud.
†*Eleocharis obtusa* (Willd.) Schult.
Schoenoplectus tabernaemontani (K. C. Gmel.) Palla
Scirpus atrovirens Willd.
Scirpus cyperinus (L.) Kunth
Scirpus microcarpus C. Presl

Poaceae

†*Agrostis gigantea* Roth
Agrostis scabra Willd.
Agrostis stolonifera L.
Alopecurus aequalis Sobol.
†*Avena sativa* L.
**Brachyelytrum erectum* (Schreb. ex Spreng.) Beauv. (s.l.)
†*Bromus ciliatus* L.
Bromus inermis Leyss.
Calamagrostis canadensis (Michx.) P. Beauv.
†*Cinna latifolia* (Trevir. ex Goebb.) Griseb. in Ledeb
Dactylis glomerata L.
Danthonia spicata (L.) P. Beauv. ex Roem. & Schult.
†*Dichantherium acuminatum* (Swartz) Gould & C.A. Clark
†*Dichantherium depauperatum* (Muhlenberg) Gould.
†*Dichantherium linearifolium* (Scribner) Gould
Digitaria ischaemum (Schreb.) Schreb. ex Muhlenb.
†*Digitaria sanguinalis* (L.) Scop.
†*Echinochloa crus-galli* (L.) P. Beauv.
†*Echinochloa muricata* (Beauv.) Fern.
Elymus repens (L.) Gould
Elymus virginicus L.
Eragrostis minor Host
Festuca rubra L.
†*Festuca subverticillata* (Pers.) Alexeev
Festuca trachyphylla (Hack.) Krajina
Glyceria grandis S. Watson ex A. Gray
Glyceria striata (Lam.) Hitchc.
Leersia oryzoides (L.) Sw.
Lolium arundinaceum (Schreb.) S.J. Darbyshire
Lolium perenne L.

Eastern Rough Sedge
Hybrid Sedge
Burreed Sedge
Spiked Sedge
Sprengel's Sedge
Awl-fruited Sedge
Deep-green Sedge
Fox Sedge
Shining Flatsedge
Hop Flatsedge
Red-stemmed Spikerush
Blunt Spikerush
Soft-stemmed Bulrush
Dark-green Bulrush
Common Woolly Bulrush
Red-tinged Bulrush

(Grasses)

Redtop
Rough Bentgrass
Creeping Bent Grass
Short-awn Foxtail
Cultivated Oats
Southern Shorthusk
Fringed Brome
Smooth Brome
Bluejoint Reedgrass
Drooping Woodreed
Orchard Grass
Poverty Oatgrass
Tapered Panicgrass
Starved Panicgrass
Linear-leaved Panicgrass
Smooth Crab-grass
Large Crab-grass
Barnyard Grass
Rough Barnyard Grass
Quackgrass
Virginia Wildrye
Little Lovegrass
Red Fescue
Nodding Fescue
Hard Fescue
Tall Mannagrass
Fowl Mannagrass
Rice Cutgrass
Tall Ryegrass
Perennial Grass

†*Milium effusum* L.
Muhlenbergia mexicana (L.) Trin.
Oryzopsis asperifolia Michx.
Panicum capillare L.
Phalaris arundinacea L.
Phleum pratense L.
Phragmites australis (Cav.) Trin. ex Steud.
 †*Poa alsodes* A. Gray
Poa annua L.
Poa compressa L.
Poa palustris L.
Poa pratensis L.
Schizachne purpurascens (Torr.) Swallen.
 †*Setaria pumila* (Poir.) Roem. & Schult.
 †*Setaria viridis* (L.) P. Beauv.
 †*Sphenopholis intermedia* (Rydb.) Rydb.
Sporobolus cryptandrus (Torr.) A. Gray
Sporobolus neglectus Nash
Sporobolus vaginiflorus (Torr. ex A. Gray) Torr. ex Alph

Wood Millet
Mexican Muhly
Rough-leaved Mountain-rice
Common Panicgrass
 Reed Canarygrass
 Common Timothy
Common Reed
Grove Bluegrass
 Annual Bluegrass
 Canada Bluegrass
Fowl Bluegrass
 Kentucky Bluegrass
Purple False Melic
 Yellow Foxtail
 Green Foxtail
Slender Wedge Grass
Sand Dropseed
Small Dropseed
Sheathed Dropseed

EUDICOTS

RANUNCULALES

Papaveraceae

Chelidonium majus L.
Dicentra canadensis (Goldie) Walp.
Sanguinaria canadensis L.

Berberidaceae

Berberis thunbergii DC.
Caulophyllum thalictroides (L.) Michx.
Podophyllum peltatum L.

Ranunculaceae

†*Actaea ×ludovici* B. Boivin
Actaea pachypoda Elliott
Actaea rubra (Aiton) Willd.
Anemone cylindrica A. Gray
Anemone virginiana L.
 †*Aquilegia canadensis* L.
 †*Aquilegia vulgaris* L.
Caltha palustris L.
Clematis virginiana L.
Coptis trifolia (L.) Salisb.
Hepatica acutiloba DC.
Ranunculus abortivus L.
Ranunculus acris L.

Poppies, Barberries & Buttercups

(Poppies)

Greater Celandine
 Squirrel-corn
 Bloodroot

(Barberries)

Japanese Barberry
 Blue Cohosh
 May-apple

(Buttercups)

Hybrid Baneberry
 White Baneberry
 Red Baneberry
 Long-fruited Anemone
 Tall Anemone
 Red Columbine
 European Columbine
 Yellow Marsh Marigold
 Virginia Clematis
 Goldthread
 Sharp-lobed Hepatica
 Kidney-leaved Buttercup
 Common Buttercup

Ranunculus recurvatus Poir.
Ranunculus sceleratus L.
Thalictrum dioicum L.
Thalictrum pubescens Pursh

Hooked Buttercup
Cursed Buttercup
Early Meadow-rue
Tall Meadow-rue

SUPERROSIDS

SAXIFRAGALES

Hamamelidaceae
Hamamelis virginiana L.

Saxifrages & Allies

(Witch-hazels)
American Witch-hazel

Grossulariaceae
†*Ribes alpinum* L.
Ribes americanum Miller
Ribes cynosbati L.
†*Ribes hirtellum* Michx.
*†*Ribes lacustre* (Pers.) Poir.
Ribes rubrum L.
Ribes triste Pall.

(Currants)
Alpine Currant
American Black Currant
Eastern Prickly Gooseberry
Swamp Gooseberry
Bristly Black Currant
European Red Currant
Swamp Red Currant

Saxifragaceae
†*Chrysosplenium americanum* Schwein. ex Hook.
Mitella diphylla L.
Mitella nuda L.
Tiarella cordifolia L.

(Saxifrages)
American Golden-saxifrage
Two-leaved Mitrewort
Naked Mitrewort
Heart-leaved Foamflower

Crassulaceae
Hylotelephium telephium (L.) H. Ohba
Sedum acre L.

(Stonecrops)
Garden Stonecrop
Mossy Stonecrop

ROSIDS

VITALES

Vitaceae
Parthenocissus vitacea (Knerr) A.S. Hitchc.
Vitis riparia Michx.

Grapes

(Grapes)
Thicket Creeper
Riverbank Grape

FABALES

Fabaceae
Amphicarpaea bracteata (L.) Fern.
Desmodium canadense (L.) DC.
Gleditsia triacanthos L.
Hylodesmum glutinosum (Muhlenb. ex Willd.) H. Ohashi & R.R. Mill
Lotus corniculatus L.
Medicago lupulina L.
Medicago sativa L.

Legumes & Milkworts

(Legumes)
American Hog-peanut
Showy Tick Trefoil
Honey Locust
Large Tick-trefoil
Garden Bird's-foot Trefoil
Black Medick
Alfalfa

Melilotus albus Medik.
Melilotus officinalis (L.) Pall.
Robinia pseudoacacia L.
Trifolium campestre Schreb.
Trifolium hybridum L.
Trifolium pratense L.
Trifolium repens L.
Vicia cracca L.
Vicia sativa L.
Vicia tetrasperma (L.) Schreb.

Polygalaceae

Polygaloides paucifolia (Willd.) J.R. Abbott

ROSALES

Rosaceae

Agrimonia gryposepala Wallr.
†*Amelanchier arborea* (Michx. f.) Fern.
†*Amelanchier interior* Nielson
†*Amelanchier laevis* Wiegand
†*Crataegus chrysocarpa* Ashe
Crataegus sect. *Coccineae* Loudon
†*Crataegus macracantha* Lodd. ex Loudon
Crataegus monogyna Jacq.
Crataegus punctata Jacq.
†*Crataegus submollis* Sarg.
†*Crataegus succulenta* Schrad. ex Link
†*Drymocallis arguta* (Pursh) Rydb.
Fragaria vesca L.
Fragaria virginiana Miller
Geum aleppicum Jacq.
Geum canadense Jacq.
†*Geum fragarioides* (Michx.) Smedmark
†*Geum laciniatum* Murray
†*Geum rivale* L.
Geum urbanum L.
Malus pumila Miller
Potentilla norvegica L.
Potentilla recta L.
Prunus nigra Aiton
Prunus pensylvanica L. f.
Prunus serotina Ehrh.
Prunus virginiana L.
Pyrus communis L.
Rosa blanda Aiton
†*Rosa carolina* L.
Rosa multiflora Thunb. ex Murray
Rubus allegheniensis Porter

White Sweet-clover
Yellow Sweet-clover
Black Locust
Low Hop Clover
Alsike Clover
Red Clover
White Clover
Tufted Vetch
Common Vetch
Four-seed Vetch

(Milkworts)

Fringed Milkwort

Roses & Allies

(Roses)

Hooked Agrimony
Downy Serviceberry
Inland Serviceberry
Smooth Serviceberry
Fireberry Hawthorn
Hawthorn sp. sect. *Coccineae*
Large-thorned Hawthorn
English Hawthorn
Dotted Hawthorn
Quebec Hawthorn
Fleshy Hawthorn
Tall Wood Beauty
Woodland Strawberry
Wild Strawberry
Yellow Avens
White Avens
Barren Strawberry
Rough Avens
Water Avens
Wood Avens
Common Apple
Rough Cinquefoil
Sulphur Cinquefoil
Canada Plum
Pin Cherry
Black Cherry
Choke Cherry
Common Pear
Smooth Rose
Carolina Rose
Multiflora Rose
Allegheny Blackberry

Rubus idaeus L. ssp. *strigosus* (Michx.) Focke.
Rubus occidentalis L.
Rubus odoratus L.
Rubus pubescens Raf.
Sorbus aucuparia L.

Rhamnaceae
Rhamnus cathartica L.

Ulmaceae
Ulmus americana L.

Urticaceae
Boehmeria cylindrica (L.) Sw.
Laportea canadensis (L.) Wedd.
†*Pilea fontana* (Lunell) Rydb.
Pilea pumila (L.) A. Gray
Urtica dioica L. ssp. *gracilis* (Aiton) Solander

FAGALES

Fagaceae
Fagus grandifolia Ehrh.
Quercus alba L.
Quercus macrocarpa Michx.
Quercus rubra L.

Juglandaceae
Carya cordiformis (Wangenh.) K. Koch
Juglans cinerea L.
Juglans nigra L.

Betulaceae
Betula alleghaniensis Britton
Betula papyrifera Marshall
Carpinus caroliniana Walter
Corylus cornuta Marshall
Ostrya virginiana (Miller) K. Koch

CUCURBITALES

Cucurbitaceae
†*Cucurbita* sp.
Echinocystis lobata (Michx.) Torr. & A. Gray

Red Raspberry
Black Raspberry
Purple-flowering Raspberry
Dwarf Raspberry
European Mountain-ash

(Buckthorns)
European Buckthorn

(Elms)
White Elm

(Nettles)
Small-spike False Nettle
Canada Wood Nettle
Lesser Clearweed
Dwarf Clearweed
Stinging Nettle

Beeches, Walnuts & Birches

(Beeches)
American Beech
White Oak
Bur Oak
Northern Red Oak

(Walnuts)
Bitternut Hickory
Butternut
Black Walnut

(Birches)
Yellow Birch
Paper Birch
Blue Beech
Beaked Hazelnut
Eastern Hop Hornbeam

Gourds

(Gourds)
Domestic Gourd sp.
Wild Cucumber

CELASTRALES

Celastraceae

Celastrus scandens L.

†*Euonymus alatus* (Thunb.) Siebold

OXALIDALES

Oxalidaceae

†*Oxalis montana* Raf.

Oxalis stricta L.

MALPIGHIALES

Hypericaceae

Hypericum perforatum L.

†*Hypericum punctatum* Lam.

Violaceae

Viola arvensis Murray

†*Viola blanda* Willd.

Viola canadensis L.

Viola cucullata Aiton

Viola labradorica Schrank

†*Viola macloskeyi* F. E. Lloyd

Viola pubescens Aiton

Viola renifolia A. Gray

Viola rostrata Pursh

†*Viola selkirkii* Pursh ex Goldie

Viola sororia Willd. (s.l.)

Salicaceae

Populus balsamifera L.

Populus grandidentata Michx.

Populus tremuloides Michx.

Salix amygdaloides Anderss.

Salix bebbiana Sarg.

Salix discolor Muhlenb.

†*Salix eriocephala* Michx.

†*Salix ×fragilis* L.

†*Salix interior* Rowlee

Salix lucida Muhlenb.

Salix petiolaris Sm.

†*Salix serissima* (L. H. Bailey) Fern.

Bittersweets

(Bittersweets)

Climbing Bittersweet

Winged Euonymus

Wood-sorrels

(Wood-sorrels)

White Wood-sorrel

European Wood-sorrel

Violets & Allies

(St. John's-worts)

Common St. John's-wort

Spotted St. John's-wort

(Violets)

European Field Pansy

Sweet White Violet

Canada Violet

Marsh Blue Violet

Labrador Violet

Macloskey's Violet

Downy Yellow Violet

Kidney-leaved Violet

Long-spurred Violet

Selkirk's Violet

Wooly Blue Violet

(Willows)

Balsam Poplar

Large-toothed Aspen

Trembling Aspen

Peach-leaved Willow

Bebb's Willow

Pussy Willow

Cottony Willow

Hybrid White Willow

Sandbar Willow

Shining Willow

Meadow Willow

Autumn Willow

Euphorbiaceae

***Acalypha rhomboidea* (Raf.) Cooperr.**

†*Euphorbia glyptosperma* Engelm.

†*Euphorbia maculata* (L.)

Euphorbia cyparissias L.

Euphorbia virgata Waldst. & Kit.

GERANIALES

Geraniaceae

***Geranium robertianum* L.**

MYRTALES

Lythraceae

Lythrum salicaria L.

Onagraceae

***Circaea alpina* L.**

Circaea canadensis* (L.) Hill subsp. *canadensis

***Epilobium ciliatum* Raf.**

†*Epilobium hirsutum* L.

†***Epilobium leptophyllum* Raf.**

Epilobium parviflorum Schreb.

†***Epilobium strictum* Muhlenb. ex Spreng.**

***Oenothera biennis* L.**

***Oenothera parviflora* L.**

***Oenothera perennis* L.**

Oenothera villosa* Thunb. ssp. *villosa

SAPINDALES

Anacardiaceae

***Rhus typhina* L.**

***Toxicodendron radicans* (L.) Kuntze**

Sapindaceae

Acer negundo L.

*†***Acer nigrum* Michx. f.**

Acer platanoides L.

***Acer rubrum* L.**

***Acer saccharinum* L.**

***Acer saccharum* Marshall**

***Acer spicatum* Lam.**

†*Acer tataricum* L. ssp. *ginnala* (Maxim.) Wesm.

(Spurges)

Common Three-seeded Mercury

Ridge-seeded Spurge

Spotted Spurge

Cypress Spurge

Leafy Spurge

Geraniums

(Geraniums)

Herb-Robert

Loosestrifes & Evening-primroses

(Loosestrifes)

Purple Loosestrife

(Evening-primroses)

Small Enchanter's Nightshade

Canada Enchanter's Nightshade

Northern Willow-herb

Hairy Willowherb

Linear-leaved Willowherb

Small-flowered Willowherb

Downy Willowherb

Common Evening-primrose

Small-flowered Evening-primrose

Perennial Evening-primrose

Hairy Evening-primrose

Sumacs, Maples & Allies

(Sumacs)

Staghorn Sumac

Poison Ivy

(Maples & Allies)

Manitoba Maple

Black Maple

Norway Maple

Red Maple

Silver Maple

Sugar Maple

Mountain Maple

Amur Maple

MALVALES

Malvaceae

Malva neglecta Wallr.

***Tilia americana* L.**

†*Tilia cordata* Miller

Thymelaeaceae

***Dirca palustris* L.**

Cistaceae

†***Lechea intermedia* Legg.**

BRASSICALES

Cleomaceae

†*Tarenaya hassleriana* (Chodat) H.H. Iltis

Brassicaceae

Alliaria petiolata (M. Bieb.) Cavara & Grande

Alyssum alyssoides (L.) L.

Barbarea vulgaris R. Br.

†*Camelina microcarpa* Andr. ex DC.

Capsella bursa-pastoris (L.) Medik.

***Cardamine diphylla* (Michx.) Wood**

†*Cardamine hirsuta* L.

***Cardamine pensylvanica* Muhlenb. ex Willd.**

Descurainia sophia (L.) Webb ex Prantl

Draba verna (L.)

Erysimum cheiranthoides L.

Hesperis matronalis L.

Lepidium campestre (L.) R.Br.

Lepidium densiflorum Schrad.

Nasturtium officinale W. T. Aiton

†***Rorippa palustris* (L.) Besser ssp. *hispida* (Desv.) Jonsell**

Sinapis arvensis L.

Sisymbrium officinale (L.) Scop.

Thlaspi arvense L.

***Turritis glabra* (L.) Bernh.**

Mallows & Allies

(Mallows)

Common Mallow

Basswood

Little-leaved Linden

(Mezereums)

Eastern Leatherwood

(Rockroses)

Large-pod Pinweed

Mustards & Allies

(Spiderflowers)

Pink-queen

(Mustards)

Garlic Mustard

Small Alyssum

Bitter Wintercress

Small-seeded False-flax

Common Shepherd's Purse

Two-leaved Toothwort

Hairy Bittercress

Pennsylvania Bittercress

Flixweed

Spring Draba

Wormseed Wallflower

Dame's Rocket

Field Peppergrass

Common Peppergrass

Watercress

Hispid Marsh Yellowcress

Corn Mustard

Common Tumble Mustard

Field Pennycress

Tower Mustard

SUPERASTERIDS

CARYOPHYLLALES

Polygonaceae

Fallopia convolvulus (L.) Á. Löve

†*Persicaria hydropiper* (L.) Opiz

***Persicaria lapathifolia* (L.) Gray**

Persicaria maculosa S. F. Gray

***Polygonum achoreum* Blake**

***Polygonum aviculare* L.**

Rumex acetosella L.

***Rumex britannica* L.**

Rumex crispus L.

Rumex obtusifolius L.

Caryophyllaceae

Arenaria serpyllifolia L.

Cerastium fontanum Baumg.

Dianthus armeria L.

Saponaria officinalis L.

***Silene antirrhina* L.**

Silene latifolia Poir.

Silene noctiflora L.

Silene vulgaris (Moench) Garcke

†*Stellaria graminea* L.

†***Stellaria longifolia* Muhlenb. ex Willd.**

Stellaria media (L.) Vill.

Amaranthaceae

†*Amaranthus albus* L.

Amaranthus retroflexus L.

Atriplex patula L.

†***Chenopodium simplex* (Torrey) S. Fuentes, Uotila & Borsch**

Chenopodium album L.

†*Oxybasis glauca* (L.) S. Fuentes, Uotila & Borsch.

†*Oxybasis rubra* (L.) S. Fuentes, Uotila & Borsch

Montiaceae

***Claytonia caroliniana* Michx.**

Portulacaceae

***Portulaca oleracea* L.**

Pinks & Allies

(Buckwheats)

Eurasian Black Bindweed

Marshpepper Smartweed

Pale Smartweed

Spotted Lady's-thumb

Leathery Knotweed

Prostrate Knotweed

Sheep Sorrel

Great Water Dock

Curled Dock

Bitter Dock

(Pinks)

Thyme-leaved Sandwort

Common Mouse-ear Chickweed

Deptford Pink

Bouncing-bet

Sleepy Catchfly

White Campion

Night-flowering Catchfly

Bladder Campion

Grass-leaved Starwort

Long-leaved Starwort

Common Chickweed

(Amaranths)

White Amaranth

Redroot Amaranth

Spear Saltbush

Maple-leaved Goosefoot

Common Lamb's-quarters

Oak-leaved Goosefoot

Red Goosefoot

(Water Chickweeds)

Carolina Spring Beauty

(Purslanes)

Common Purslane

ASTERIDS

CORNALES

Cornaceae

Cornus alternifolia L. f.
†*Cornus canadensis* L.
Cornus rugosa Lam.
Cornus sericea L.

ERICALES

Balsaminaceae

Impatiens capensis Meerb.

Primulaceae

Lysimachia borealis (Rafinesque) U. Manns & Anderberg
Lysimachia ciliata L.

Ericaceae

†*Chimaphila umbellata* (L.) Barton
Gaultheria procumbens L.
†*Hypopitys monotropa* Crantz
†*Moneses uniflora* (L.) A. Gray
Monotropa uniflora L.
†*Pyrola americana* Sweet
†*Pyrola asarifolia* Michx.
Pyrola elliptica Nutt.
Vaccinium angustifolium Aiton

GENTIANALES

Rubiaceae

Galium aparine L.
†*Galium boreale* L.
Galium circaezans Michx.
†*Galium lanceolatum* Torr.
Galium mollugo L.
†*Galium palustre* L.
†*Galium tinctorium* L.
*†*Galium trifidum* L.
Galium triflorum Michx.
Galium verum L.
Mitchella repens L.

Gentianaceae

†*Gentiana andrewsii* Griseb.
†*Gentianopsis crinita* (Froel.) Ma

Dogwoods

(Dogwoods)

Alternate-leaved Dogwood
Bunchberry
Round-leaved Dogwood
Red-osier Dogwood

Heaths & Allies

(Touch-Me-Nots)

Spotted Jewelweed

(Primroses)

Northern Starflower
Fringed Loosestrife

(Heaths)

Common Pipsissewa
Eastern Teaberry
Pinesap
One-flowered Wintergreen
Indian-pipe
Round-leaved Pyrola
Pink Pyrola
Shinleaf
Early Lowbush Blueberry

Gentians, Bedstraws & Milkweeds

(Bedstraws)

Common Bedstraw
Northern Bedstraw
Wild Licorice
Lance-leaved Wild Licorice
Smooth Bedstraw
Common Marsh Bedstraw
Dyer's Bedstraw
Three-petalled Bedstraw
Three-flowered Bedstraw
Yellow Bedstraw
Partridgeberry

(Gentians)

Andrews' Bottle Gentian
Greater Fringed Gentian

Apocynaceae

Apocynum androsaemifolium L.
Apocynum cannabinum L.
Asclepias incarnata L.
Asclepias syriaca L.
Asclepias tuberosa L.
Vinca minor L.
†*Vincetoxicum rossicum* (Kleopov) Barbarich

BORAGINALES

Boraginaceae

Buglossoides arvensis (L.) I. M. Johnston
Cynoglossum officinale L.
Echium vulgare L.
Hackelia virginiana (L.) I. M. Johnston
*†*Hydrophyllum canadense* L.
Hydrophyllum virginianum (L.)
Myosotis scorpioides L.
†*Myosotis sylvatica* Ehrh. ex H. Hoffm.

SOLANALES

Convolvulaceae

Calystegia sepium (L.) R. Br.
†*Calystegia spithamea* (L.) Pursh
Convolvulus arvensis L.
†*Cuscuta gronovii* Willd. ex Schult.

Solanaceae

Physalis heterophylla Nees
Solanum dulcamara L.
†*Solanum nigrum* L. (s.l.)
†*Solanum tuberosum* L.

LAMIALES

Oleaceae

Fraxinus americana L.
Fraxinus nigra Marshall
†*Fraxinus pennsylvanica* Marshall
Ligustrum vulgare L.
Syringa vulgaris L.

(Milkweeds)

Spreading Dogbane
Hemp Dogbane
Swamp Milkweed
Common Milkweed
Butterfly Milkweed
Lesser Periwinkle
European Swallowwort

Borages

(Borages)

Corn Gromwell
Common Hound's-tongue
Common Viper's Bugloss
Virginia Stickseed
Bluntleaf Waterleaf
Virginia Waterleaf
True Forget-me-not
Woodland Forget-me-not

Nightshades & Bindweeds

(Bindweeds)

Hedge False Bindweed
Low False Bindweed
Field Bindweed
Swamp Dodder

(Nightshades)

Clammy Ground-cherry
Bittersweet Nightshade
Black Nightshade
Potato

Mints & Allies

(Olives)

White Ash
Black Ash
Red Ash
European Privet
Common Lilac

Plantaginaceae

Chaenorhinum minus (L.) Lange

***Chelone glabra* L.**

†***Gratiola neglecta* Torr.**

Linaria vulgaris Miller

†***Penstemon digitalis* Nutt. ex Sims**

Plantago major L.

Plantago lanceolata L.

***Plantago rugelii* Decne.**

***Veronica americana* (Raf.) Schwein. ex Benth.**

Veronica arvensis L.

Veronica officinalis L.

Veronica peregrina L. ssp. *peregrina*

Veronica serpyllifolia L.

Scrophulariaceae

Verbascum thapsus L.

Verbenaceae

***Verbena hastata* L.**

†***Verbena stricta* Vent.**

***Verbena urticifolia* L.**

Lamiaceae

***Clinopodium vulgare* L.**

Galeopsis tetrahit L.

Glechoma hederacea L.

†***Hedeoma hispida* Pursh**

†*Lamium amplexicaule* L.

Leonurus cardiaca L.

***Lycopus americanus* Muhlenb. ex Bartram**

***Lycopus uniflorus* Michx.**

***Mentha canadensis* L.**

Mentha ×piperita L.

***Monarda fistulosa* L.**

Nepeta cataria L.

Origanum vulgare L.

***Prunella vulgaris* L.**

***Scutellaria lateriflora* L.**

Phrymaceae

***Mimulus ringens* L.**

***Phryma leptostachya* L.**

Orobanchaceae

***Epifagus virginiana* (L.) Bart.**

(Plantains)

Dwarf Snapdragon

White Turtlehead

Clammy Hedge-hyssop

Butter-and-eggs

Foxglove Beardtongue

Common Plantain

English Plantain

Rugel's Plantain

American Speedwell

Corn Speedwell

Common Speedwell

Purslane Speedwell

Thyme-leaved Speedwell

(Figworts)

Common Mullein

(Vervains)

Blue Vervain

Hoary Vervain

White Vervain

(Mints)

Wild Basil

Common Hemp-nettle

Ground-ivy

Rough False Pennyroyal

Common Dead-nettle

Common Motherwort

American Water-horehound

Northern Water-horehound

Canada Mint

Peppermint

Wild Bergamot

Catnip

Wild Marjoram

Common Self-heal

Mad-dog Skullcap

(Lopseeds)

Square-stemmed Monkeyflower

Lopseed

(Broomrapes)

Beech-drops

ASTERALES

Campanulaceae

***Campanula aparinoides* Pursh**

Campanula persicifolia L.

Campanula rapunculoides L.

***Lobelia inflata* L.**

***Lobelia siphilitica* L.**

***Lobelia spicata* Lam.**

Asteraceae

***Achillea borealis* Bong.**

***Ageratina altissima* (L.) King & H. E. Robins.**

***Ambrosia artemisiifolia* L.**

***Anaphalis margaritacea* (L.) Benth. & Hook. F.**

†***Antennaria neglecta* Greene**

***Antennaria parlinii* Fern.**

Arctium lappa L.

Arctium minus (Hill) Bernh.

†*Artemisia biennis* Willd.

†*Artemisia ludoviciana* Nutt.

***Bidens cernua* L.**

***Bidens frondosa* L.**

***Bidens tripartita* L. (s.l.)**

†***Bidens vulgata* Greene**

Carduus acanthoides L.

Carduus nutans L.

Centaurea jacea L.

Cichorium intybus L.

Cirsium arvense (L.) Scop.

Cirsium vulgare (Savi) Ten.

Crepis capillaris (L.) Wallr.

***Erigeron annuus* (L.) Pers.**

***Erigeron canadensis* L.**

***Erigeron philadelphicus* L.**

†***Erigeron pulchellus* Michx.**

***Erigeron strigosus* Muhlenb. ex Willd.**

***Eupatorium perfoliatum* L.**

***Eurybia macrophylla* (L.) Cass.**

***Euthamia graminifolia* (L.) Nutt.**

***Eutrochium maculatum* (L.) E. E. Lamont**

Galinsoga quadriradiata Cav.

Inula helenium L.

***Lactuca biennis* (Moench) Fern.**

***Lactuca canadensis* L.**

Lactuca serriola L.

Lapsana communis L.

Leucanthemum vulgare (Vaill.) Lam.

Matricaria discoidea DC.

Asters & Bellflowers

(Bellflowers)

Marsh Bellflower

Peach-leaved Bellflower

Common Bellflower

Indian-tobacco

Great Blue Lobelia

Pale-spiked Lobelia

(Asters)

Common Yarrow

Common White Snakeroot

Common Ragweed

Pearly Everlasting

Field Pussytoes

Parlin's Pussytoes

Great Burdock

Common Burdock

Biennial Wormwood

Silver Wormwood

Nodding Beggarticks

Devil's Beggarticks

Three-parted Beggarticks

Tall Beggarticks

Plumeless Thistle

Nodding Thistle

Brown Knapweed

Wild Chicory

Canada Thistle

Bull Thistle

Smooth Hawksbeard

Annual Fleabane

Canada Horseweed

Philadelphia Fleabane

Robin's-plantain Fleabane

Rough Fleabane

Common Boneset

Large-leaved Aster

Grass-leaved Goldenrod

Spotted Joe Pye Weed

Hairy Galinsoga

Elecampane

Tall Blue Lettuce

Canada Lettuce

Prickly Lettuce

Common Nipplewort

Oxeye Daisy

Pineappleweed

Nabalus altissimus (L.) Hook.
†*Packera aurea* (L.) A. & D. Löve
Pilosella aurantiaca (L.) F. W. Schult. & Schult. Bipontinus
Pilosella caespitosa (Dumortier) P. D. Sell & C. West
Pilosella officinarum F.W. Schult. & Schult. Bipontinus
Pilosella piloselloides (Villars) Soják
Pseudognaphalium obtusifolium (L.) Hilliard & Burt
Rudbeckia hirta L.
Rudbeckia triloba L.
†*Senecio viscosus* L.
Senecio vulgaris L.
Solidago altissima L.
**Solidago arguta* Aiton
Solidago caesia L.
Solidago canadensis L.
Solidago flexicaulis L.
Solidago gigantea Aiton
Solidago nemoralis Aiton
Solidago rugosa Miller
†*Solidago uliginosa* Nutt.
Sonchus arvensis L.
Sonchus asper (L.) Hill
Sonchus oleraceus L.
†*Symphotrichum* ×*amethystinum* (Nutt.) Nesom
Symphotrichum cordifolium (L.) G. L. Nesom
Symphotrichum ericoides (L.) G. L. Nesom
Symphotrichum lanceolatum (Willd.) Nesom
Symphotrichum lateriflorum (L.) A. & D. Löve
Symphotrichum novae-angliae (L.) Nesom
Symphotrichum oolentangiense (Riddell) G. L. Nesom
†*Symphotrichum pilosum* (Willd.) Nesom
Symphotrichum puniceum (L.) A. & D. Löve
†*Symphotrichum urophyllum* (Lindl.) Nesom
†*Tanacetum vulgare* L.
†*Taraxacum erythrospermum* Anderz. ex Besser
Taraxacum officinale G. H. Weber ex Wiggers
Taraxacum palustre (Lyons) DC. (s.l.)
Tragopogon dubius Scop.
Tragopogon pratensis L.
Tussilago farfara L.

Tall Rattlesnakeroot
Golden Groundsel
Orange Hawkweed
Meadow Hawkweed
Mouse-ear Hawkweed
Tall Hawkweed
Fragrant Cudweed
Black-eyed Susan
Brown-eyed Susan
Sticky Ragwort
Common Ragwort
Tall Goldenrod
Cut-leaved Goldenrod
Blue-stemmed Goldenrod
Canada Goldenrod
Zigzag Goldenrod
Giant Goldenrod
Gray-stemmed Goldenrod
Rough-stemmed Goldenrod
Bog Goldenrod
Field Sow-thistle
Prickly Sow-thistle
Annual Sow-thistle
Amethyst Aster
Heart-leaved Aster
White Heath Aster
White Panicked Aster
Calico Aster
New England Aster
Sky-blue Aster
Old Field Aster
Purple-stemmed Aster
Arrow-leaved Aster
Common Tansy
Red-seeded Dandelion
Common Dandelion
Marsh Dandelion
Yellow Goatsbeard
Meadow Goatsbeard
Coltsfoot

DIPSACALES

Adoxaceae

Sambucus canadensis L.
Sambucus racemosa L.
Viburnum acerifolium L.
†*Viburnum lantana* L.
†*Viburnum lantanoides* Michx.
Viburnum lentago L.
†*Viburnum nudum* L. var. *cassinoides* (L.) Torr. & Gray
†*Viburnum opulus* L. var. *opulus*
*†*Viburnum opulus* var. *americanum* Aiton

Caprifoliaceae

Diervilla lonicera Miller
Dipsacus fullonum L.
†*Linnaea borealis* L.
†*Lonicera* × *bella* Zabel
Lonicera canadensis Bartram ex Marshall
Lonicera dioica L.
†*Lonicera hirsuta* Eaton
†*Lonicera tatarica* L.
Symphoricarpos albus (L.) S. F. Blake
Triosteum aurantiacum E. P. Bicknell
Valeriana officinalis L.

APIALES

Araliaceae

Aralia nudicaulis L.
Aralia racemosa L.
Panax quinquefolius L.

Apiaceae

Cryptotaenia canadensis (L.) DC.
Daucus carota L.
Hydrocotyle americana L.
Osmorhiza claytonii (Michx.) C. B. Clarke
Sanicula marilandica L.
**Sium suave* Walter

Moschatels & Honeysuckles

(Moschatels)

Common Elderberry
Red Elderberry
Maple-leaved Viburnum
Wayfaring Viburnum
Hobblebush
Nannyberry
Wild Raisin
Cranberry Viburnum
Highbush Cranberry

(Honeysuckles)

Northern Bush-honeysuckle
Common Teasel
Twinflower
Bell's Honeysuckle
Canada Fly Honeysuckle
Limber Honeysuckle
Hairy Honeysuckle
Tartarian Honeysuckle
Thin-leaved Snowberry
Orange-fruited Horse-gentian
Common Valerian

Carrots & Ginsengs

(Ginsengs)

Wild Sarsaparilla
American Spikenard
American Ginseng

(Carrots)

Canada Honewort
Wild Carrot
American Water-pennywort
Hairy Sweet Cicely
Maryland Sanicle
Common Water-parsnip

**AMPHIBIANS AND REPTILES OF THE KOFFLER SCIENTIFIC RESERVE AT JOKERS
HILL**

King Township, Regional Municipality of York

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This list is based on observations at this site by C.S. Blaney, P.M. Kotanen, and others beginning in 1997, supplemented with observations by property manager W. Fox between 1971 and 1998. Phylogenetic classification and scientific and English nomenclature follow the Society for the Study of Amphibians and Reptiles (SSAR) North American Species Names Database (<https://ssarherps.org/publications/north-american-checklist/>).

The list includes all amphibians and reptiles observed within the Koffler Scientific Reserve during the observation period. All of the 10 amphibians and 6 reptiles listed are locally native. Information on any additional species (preferably with photographs) would be welcomed by the authors.

AMPHIBIANS

CAUDATA

Ambystomatidae

Ambystoma maculatum (Shaw)

Salamandridae

Notophthalmus viridescens (Rafinesque)

Plethodontidae

Plethodon cinereus (Green)

ANURA

Bufonidae

Anaxyrus americanus (Holbrook)

Hylidae

Hyla versicolor LeConte

Pseudacris crucifer (Wied-Neuwied)

Ranidae

Lithobates catesbeianus (Shaw)

Lithobates clamitans (Latreille)

Lithobates pipiens (Schreber)

Lithobates sylvaticus (LeConte)

REPTILES

TESTUDINES

Chelydridae

Chelydra serpentina (Linnaeus)

Emydidae

Chrysemys picta (Schneider)

Emydoidea blandingii (Holbrook)

SQUAMATA

Colubridae

Diadophis punctatus (Linnaeus)

Storeria occipitomaculata (Storer)

Thamnophis sirtalis (Linnaeus)

Salamanders

(Mole Salamanders)

Spotted Salamander

(Newts)

Red-spotted Newt

(Lungless Salamanders)

Red-backed Salamander

Frogs

(Toads)

American Toad

(Treefrogs)

Gray Treefrog

Spring Peeper

(True Frogs)

Bull Frog

Green Frog

Leopard Frog

Wood Frog

Turtles

(Snapping Turtles)

Snapping Turtle

(Box & Water Turtles)

Painted Turtle

Blanding's Turtle

Snakes

(Colubrid Snakes)

Ring-necked Snake

Red-bellied Snake

Garter Snake

BIRDS OF THE KOFFLER SCIENTIFIC RESERVE AT JOKERS HILL
King Township, Regional Municipality of York

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This property was donated to the University of Toronto in 1995. This list is based on observations at this site by C.S. Blaney, P.M. Kotanen, and many others beginning in 1997, supplemented with observations by property manager W. Fox between 1971 and 1998, and by an on-site banding program conducted by T. McKenzie and G. Reed since 2013. Phylogenetic classification and scientific and English nomenclature follow the American Ornithological Society's (AOS) Checklist of North and Middle American Birds, 7th edition, 60th supplement (<http://checklist.americanornithology.org/taxa>). Breeding status codes are based on those used in the 2nd Ontario Breeding Bird Atlas (2001-2005) (<http://www.birdsontario.org/atlas/secondatlas.jsp>). The codes are:

O - Observed without evidence of breeding

M - observed only as a migrant or winter resident

X - observed during the species' breeding season without evidence of breeding

PO - breeding possible

H - observed in suitable habitat during breeding season

M - singing male observed in suitable habitat during breeding season

P - breeding probable

P - pair observed in suitable habitat during breeding season

T - singing male observed in the same area on visits separated by at least two weeks

A - agitated behaviour

D - breeding display or intraspecies hostility

N - nest building

CO - breeding confirmed

AE - adult entering presumed nest site

DD - distraction display

NU - used nest

FS - adult carrying food or faecal sac

NE - nest with eggs

NY - nest with young

FY - flightless or dependent young

This list includes all birds observed from within the boundaries of the Koffler Scientific Reserve during the observation period. Of the 186 species and hybrids listed, 182 are considered locally native, while 4 (Rock Dove, European Starling, House Sparrow, and House Finch) are introduced. Information on any additional species (preferably with photographs) would be welcomed by the authors.

ANSERIFORMES**Anatidae**

Branta bernicla (Linnaeus)
Branta canadensis (Linnaeus)
Cygnus buccinator Richardson
Aix sponsa (Linnaeus)
Spatula discors Linnaeus
Anas platyrhynchos Linnaeus
Anas crecca Linnaeus
Aythya americana (Eyton)
Aythya collaris (Donovan)
Bucephala albeola (Linnaeus)
Bucephala clangula (Linnaeus)
Lophodytes cucullatus (Linnaeus)
Mergus merganser Linnaeus

GALLIFORMES**Phasianidae**

Bonasa umbellus (Linnaeus)
Meleagris gallopavo Linnaeus

PODICIPEDIFORMES**Podicipedidae**

Podilymbus podiceps (Linnaeus)

COLUMBIFORMES**Columbidae**

Columba livia Gmelin
Zenaidura macroura (Linnaeus)

CUCULIFORMES**Cuculidae**

Coccyzus americanus (Linnaeus)
Coccyzus erythrophthalmus (A. Wilson)

CAPRIMULGIFORMES**Caprimulgidae**

Chordeiles minor (J.R. Forster)
Antrostomus vociferus A. Wilson

APODIFORMES**Apodidae**

Chaetura pelagica (Linnaeus)

Ducks, Geese & Swans**(Ducks, Geese & Swans)**

Brant O-M
Canada Goose CO-FY
Trumpeter Swan O
Wood Duck P-P
Blue-winged Teal O-M
Mallard CO-FY
Green-winged Teal O-M
Redhead O-M
Ring-necked Duck O-M
Bufflehead O-M
Common Goldeneye O-M
Hooded Merganser O-M
Common Merganser O-M

Fowls**(Pheasants & Grouses)**

Ruffed Grouse CO-FY
Wild Turkey CO-FY

Grebes**(Grebes)**

Pied-billed Grebe O-M

Pigeons & Doves**(Pigeons & Doves)**

Rock Dove CO-AE
Mourning Dove CO-FY

Cuckoos**(Cuckoos)**

Yellow-billed Cuckoo PO-M
Black-billed Cuckoo P-T

Nightjars**(Nightjars)**

Common Nighthawk O-X
Eastern Whip-poor-will PO-M

Hummingbirds & Swifts**(Swifts)**

Chimney Swift O-X

Trochilidae <i>Archilochus colubris</i> (Linnaeus)	(Hummingbirds) Ruby-throated Hummingbird	CO-NE
GRUIFORMES	Cranes & Rails	
Rallidae Rallus limicola <i>Vieillot</i> <i>Porzana carolina</i> (Linnaeus) <i>Fulica americana</i> Gmelin	(Rails, Crakes & Coots) <i>Virginia Rail</i> Sora American Coot	O-M O-M O-M
Gruidae <i>Antigone canadensis</i> (Linnaeus)	(Cranes) Sandhill Crane	O-M
CHARADRIIFORMES	Shorebirds & Gulls	
Charadriidae <i>Charadrius vociferus</i> Linnaeus	(Plovers) Killdeer	CO-FY
Scolopacidae <i>Scolopax minor</i> Gmelin <i>Gallinago delicata</i> (Ord) <i>Actitis macularius</i> (Linnaeus) <i>Tringa solitaria</i> A. Wilson <i>Tringa melanoleuca</i> (Gmelin)	(Sandpipers & Snipes) American Woodcock Wilson's Snipe Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs	CO-FY P-T PO-H O-M O-M
Laridae <i>Larus delawarensis</i> Ord <i>Larus argentatus</i> Pontoppidan <i>Hydroprogne caspia</i> (Pallas)	(Gulls & Terns) Ring-billed Gull Herring Gull Caspian Tern	O-X O-X O-X
GAVIIFORMES	Loons	
Gaviidae <i>Gavia immer</i> (Brünnich)	(Loons) Common Loon	O-M
SULIFORMES	Cormorants	
Phalacrocoracidae <i>Phalacrocorax auritus</i> (Lesson)	(Cormorants) Double-crested Cormorant	O-X
PELECANIFORMES	Pelicans & Herons	
Ardeidae <i>Botaurus lentiginosus</i> (Rackett) <i>Ardea herodias</i> Linnaeus <i>Butorides virescens</i> (Linnaeus)	(Herons & Bitterns) American Bittern Great Blue Heron Green Heron	O-M O-X O-X

CATHARTIFORMES**Cathartidae***Cathartes aura* (Linnaeus)**New World Vultures****(New World Vultures)**

Turkey Vulture O-X

ACCIPITRIFORMES**Pandionidae***Pandion haliaetus* (Linnaeus)**Hawks****(Ospreys)**

Osprey O-M

Accipitridae*Circus hudsonius* (Linnaeus)*Accipiter striatus* Vieillot*Accipiter cooperii* (Bonaparte)*Accipiter gentilis* (Linnaeus)*Haliaeetus leucocephalus* (Linnaeus)*Buteo lineatus* (Gmelin)*Buteo platypterus* (Vieillot)*Buteo jamaicensis* (Gmelin)**(Hawks & Eagles)**

Northern Harrier PO-H

Sharp-shinned Hawk CO-FS

Cooper's Hawk CO-FS

Northern Goshawk O-X

Bald Eagle O-M

Red-shouldered Hawk CO-NY

Broad-winged Hawk P-T

Red-tailed Hawk P-A

STRIGIFORMES**Strigidae***Megascops asio* (Linnaeus)*Bubo virginianus* (Gmelin)*Bubo scandiacus* (Linnaeus)*Strix varia* Barton*Strix nebulosa* J.R. Forster*Asio otus* (Linnaeus)*Aegolius acadicus* (Gmelin)**Owls****(Owls)**

Eastern Screech-Owl CO-FY

Great Horned Owl P-T

Snowy Owl O-M

Barred Owl P-T

Great Gray Owl O-M

Long-eared Owl O-M

Northern Saw-whet Owl O-M

CORACIIFORMES**Alcedinidae***Megaceryle alcyon* (Linnaeus)**Kingfishers****(Kingfishers)**

Belted Kingfisher PO-H

PICIFORMES**Picidae***Melanerpes erythrocephalus* (Linnaeus)*Melanerpes carolinus* (Linnaeus)*Sphyrapicus varius* (Linnaeus)*Dryobates pubescens* (Linnaeus)*Dryobates villosus* (Linnaeus)*Colaptes auratus* (Linnaeus)*Dryocopus pileatus* (Linnaeus)**Woodpeckers****(Woodpeckers)**

Red-headed Woodpecker O-M

Red-bellied Woodpecker CO-FY

Yellow-bellied Sapsucker CO-FY

Downy Woodpecker CO-FY

Hairy Woodpecker CO-NY

Northern Flicker CO-FY

Pileated Woodpecker CO-NY

FALCONIFORMES**Falconidae**

Falco sparverius Linnaeus
Falco columbarius Linnaeus
Falco peregrinus Tunstall

PASSERIFORMES**Tyrannidae**

Myiarchus crinitus (Linnaeus)
Tyrannus tyrannus (Linnaeus)
Contopus cooperi (Nuttall)
Contopus virens (Linnaeus)
Empidonax flaviventris (W.M. Baird & S.F. Baird)
Empidonax alnorum Brewster
Empidonax minimus (W.M. Baird & S.F. Baird)
Sayornis phoebe (Latham)

Laniidae

Lanius borealis Vieillot

Vireonidae

Vireo flavifrons Vieillot
Vireo solitarius (A. Wilson)
Vireo philadelphicus (Cassin)
Vireo gilvus (Vieillot)
Vireo olivaceus (Linnaeus)

Corvidae

Cyanocitta cristata (Linnaeus)
Corvus brachyrhynchos C.L. Brehm
Corvus corax Linnaeus

Alaudidae

Eremophila alpestris (Linnaeus)

Hirundinidae

Riparia riparia (Linnaeus)
Tachycineta bicolor (Vieillot)
Stelgidopteryx serripennis (Audubon)
Progne subis (Linnaeus)
Hirundo rustica Linnaeus
Petrochelidon pyrrhonota (Vieillot)

Paridae

Poecile atricapillus (Linnaeus)

Falcons**(Falcons)**

American Kestrel CO-AE
Merlin O-M
Peregrine Falcon O-M

Songbirds**(Tyrant Flycatchers)**

Great Crested Flycatcher CO-FY
Eastern Kingbird CO-AE
Olive-sided Flycatcher O-M
Eastern Wood-Pewee CO-FY
Yellow-bellied Flycatcher O-M
Alder Flycatcher CO-FY
Least Flycatcher CO-FY
Eastern Phoebe CO-FY

(Shrikes)

Northern Shrike O-M

(Vireos)

Yellow-throated Vireo O-M
Blue-headed Vireo P-T
Philadelphia Vireo O-M
Warbling Vireo CO-FY
Red-eyed Vireo CO-FY

(Crows & Jays)

Blue Jay P-P
American Crow CO-FY
Common Raven O-M

(Larks)

Horned Lark PO-M

(Swallows & Martins)

Bank Swallow O-X
Tree Swallow CO-AE
Northern Rough-winged Swallow O-X
Purple Martin O-X
Barn Swallow CO-NY
Cliff Swallow O-X

(Tits & Chickadees)

Black-capped Chickadee CO-FY

Sittidae	(Nuthatches)	
<i>Sitta canadensis</i> Linnaeus	Red-breasted Nuthatch	CO-FY
<i>Sitta carolinensis</i> Latham	White-breasted Nuthatch	CO-FY
Certhiidae	(Creepers)	
<i>Certhia americana</i> Bonaparte	Brown Creeper	P-T
Troglodytidae	(Wrens)	
<i>Troglodytes aedon</i> Vieillot	House Wren	CO-FY
<i>Troglodytes hiemalis</i> Vieillot	Winter Wren	P-T
<i>Cistothorus platensis</i> (Latham)	Sedge Wren	O-M
Poliophtilidae		
<i>Poliophtila caerulea</i> (Linnaeus)	Blue-grey Gnatcatcher	O-M
Regulidae	(Kinglets)	
<i>Regulus satrapa</i> Lichtenstein	Golden-crowned Kinglet	P-T
<i>Regulus calendula</i> (Linnaeus)	Ruby-crowned Kinglet	O-M
Turdidae	(Thrushes)	
<i>Sialia sialis</i> (Linnaeus)	Eastern Bluebird	CO-AE
<i>Catharus fuscescens</i> (Stephens)	Veery	P-T
<i>Catharus minimus</i>	Grey-cheeked Thrush	O-M
<i>Catharus ustulatus</i>	Swainson's Thrush	O-M
<i>Catharus guttatus</i> (Pallas)	Hermit Thrush	CO-FY
<i>Hylocichla mustelina</i> (Gmelin)	Wood Thrush	CO-FY
<i>Turdus migratorius</i> Linnaeus	American Robin	CO-NE
Mimidae	(Mockingbirds & Thrashers)	
<i>Dumetella carolinensis</i> (Linnaeus)	Gray Catbird	CO-FY
<i>Toxostoma rufum</i> (Linnaeus)	Brown Thrasher	PO-M
<i>Mimus polyglottos</i> (Linnaeus)	Northern Mockingbird	O-M
Sturnidae	(Starlings)	
<i>Sturnus vulgaris</i> Linnaeus	European Starling	CO-NY
Bombycillidae	(Waxwings)	
<i>Bombycilla garrulus</i> (Linnaeus)	Bohemian Waxwing	O-M
<i>Bombycilla cedrorum</i> Vieillot	Cedar Waxwing	CO-FY
Passeridae	(Old World Sparrows)	
<i>Passer domesticus</i> (Linnaeus)	House Sparrow	O-X
Motacillidae	(Wagtails & Pipits)	
<i>Anthus rubescens</i> (Tunstall)	American Pipit	O-M

Fringillidae

Coccothraustes vespertinus (W. Cooper)
Pinicola enucleator (Linnaeus)
Haemorhous mexicanus (Statius Müller)
Haemorhous purpureus (Gmelin)
Acanthis flammea (Linnaeus)
Loxia curvirostra Linnaeus
Loxia leucoptera Gmelin
Spinus pinus (A. Wilson)
Spinus tristis (Linnaeus)

Calcariidae

Plectrophenax nivalis (Linnaeus)

Passerellidae

Ammodramus savannarum (Gmelin)
Spizella passerina (Bechstein)
Spizella pallida (Swainson)
Spizella pusilla (A. Wilson)
Passerella iliaca (Merrem)
Spizelloides arborea (A. Wilson)
Junco hyemalis (Linnaeus)
Zonotrichia leucophrys (J.R. Forster)
Zonotrichia albicollis (Gmelin)
Pooecetes gramineus (Gmelin)
Passerculus sandwichensis (Gmelin)
Melospiza melodia (A. Wilson)
Melospiza lincolni (Audubon)
Melospiza georgiana (Latham)
Pipilo erythrophthalmus (Linnaeus)

Icteriidae

Icteria virens (Linnaeus)

Icteridae

Dolichonyx oryzivorus (Linnaeus)
Sturnella magna (Linnaeus)
Icterus spurius (Linnaeus)
Icterus galbula (Linnaeus)
Agelaius phoeniceus (Linnaeus)
Molothrus ater (Boddaert)
Euphagus carolinus (Müller)
Quiscalus quiscula (Linnaeus)

(Old World Finches)

Evening Grosbeak O-M
Pine Grosbeak O-M
House Finch PO-M
Purple Finch P-P
Common Redpoll O-M
Red Crossbill O-M
White-winged Crossbill O-X
Pine Siskin O-M
American Goldfinch CO-NE

(Longspurs & Snow Buntings)

Snow Bunting O-M

(New World Sparrows)

Grasshopper Sparrow PO-M
Chipping Sparrow CO-FY
Clay-colored Sparrow PO-H
Field Sparrow CO-NE
Fox Sparrow O-M
American Tree Sparrow O-M
Dark-eyed Junco O-M
White-crowned Sparrow O-M
White-throated Sparrow P-T
Vesper Sparrow PO-H
Savannah Sparrow CO-FY
Song Sparrow CO-FY
Lincoln's Sparrow O-M
Swamp Sparrow CO-FY
Eastern Towhee CO-FY

(Yellow-breasted Chats)

Yellow-breasted Chat O-M

(New World Blackbirds)

Bobolink CO-FS
Eastern Meadowlark CO-NE
Orchard Oriole PO-M
Baltimore Oriole CO-FY
Red-winged Blackbird CO-FY
Brown-headed Cowbird CO-FY
Rusty Blackbird O-M
Common Grackle CO-FS

Parulidae

Seiurus aurocapilla (Linnaeus)
Parkesia noveboracensis (Gmelin)
Vermivora chrysoptera (Linnaeus)
Vermivora cyanoptera (Olson & Reveal)
Vermivora chrysoptera (Linnaeus)
 x*Vermivora cyanoptera* (Olson & Reveal)
Mniotilta varia (Linnaeus)
Leiothlypis peregrina (A. Wilson)
Leiothlypis celata (Say)
Leiothlypis ruficapilla (A. Wilson)
Oporornis agilis (A. Wilson)
Geothlypis philadelphia (A. Wilson)
Geothlypis trichas (Linnaeus)
Setophaga citrina (Boddaert)
Setophaga ruticilla (Linnaeus)
Setophaga tigrina (Gmelin)
Setophaga americana (Linnaeus)
Setophaga magnolia (A. Wilson)
Setophaga castanea (A. Wilson)
Setophaga fusca (Statius Müller)
Setophaga petechia (Linnaeus)
Setophaga pensylvanica (Linnaeus)
Setophaga striata (J.R. Forster)
Setophaga caerulescens (Gmelin)
Setophaga palmarum (Gmelin)
Setophaga pinus (Linnaeus)
Setophaga coronata (Linnaeus)
Setophaga virens (Gmelin)
Cardellina canadensis (Linnaeus)
Cardellina pusilla (A. Wilson)

(New World Warblers)

Ovenbird CO-FY
Northern Waterthrush PO-M
Golden-winged Warbler CO-FS
Blue-winged Warbler CO-FS
Brewster's Warbler CO-FS
Black-and-white Warbler PO-M
Tennessee Warbler O-M
Orange-crowned Warbler O-M
Nashville Warbler CO-FY
Connecticut Warbler O-M
Mourning Warbler CO-FY
Common Yellowthroat CO-FS
Hooded Warbler PO-M
American Redstart O-M
Cape May Warbler O-M
Northern Parula O-M
Magnolia Warbler P-T
Bay-breasted Warbler O-M
Blackburnian Warbler P-T
Yellow Warbler CO-FY
Chestnut-sided Warbler PO-M
Blackpoll Warbler O-M
Black-throated Blue Warbler O-M
Palm Warbler O-M
Pine Warbler P-T
Yellow-rumped Warbler P-T
Black-throated Green Warbler P-T
Canada Warbler PO-M
Wilson's Warbler O-M

Cardinalidae

Piranga olivacea (Gmelin)
Cardinalis cardinalis (Linnaeus)
Pheucticus ludovicianus (Linnaeus)
Passerina cyanea (Linnaeus)

(Cardinals & Allies)

Scarlet Tanager CO-FY
Northern Cardinal CO-FY
Rose-breasted Grosbeak CO-FY
Indigo Bunting CO-FY

**MAMMALS OF THE KOFFLER SCIENTIFIC RESERVE AT JOKERS HILL
King Township, Regional Municipality of York**

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This list includes all wild mammals observed within the Koffler Scientific Reserve during the observation period. Of the 31 species listed, 28 are considered locally native, while three (House Mouse, Norway Rat, and European Hare) are introduced. Some listed species may have been temporarily established (European Hare) or transient (Northern River Otter). Other difficult-to-observe species (especially bats) likely occur on-site, while species currently absent but occurring regionally (Black Bear) likely historically were present. Information on any additional species (preferably with photographs) would be welcomed by the authors.

DIDELPHIMORPHIA**Didelphidae**

Didelphis virginiana Kerr

RODENTIA**Sciuridae**

Glaucomys sp. (Linnaeus)
Marmota monax (Linnaeus)
Sciurus carolinensis Gmelin
Tamiasciurus hudsonicus (Erxleben)
Tamias striatus (Linnaeus)

Castoridae

Castor canadensis Kuhl

Dipodidae

Napaeozapus insignis (Miller)
Zapus hudsonius (Zimmermann)

Cricetidae

Microtus pennsylvanicus (Ord)
Ondatra zibethicus (Linnaeus)
Peromyscus leucopus (Rafinesque)

Muridae

Mus musculus Linnaeus
Rattus norvegicus (Berkenhout)

Erethizontidae

Erethizon dorsatum (Linnaeus)

LAGOMORPHA**Leporidae**

Lepus europaeus Pallas
Sylvilagus floridanus (J.A. Allen)

SORICOMORPHA**Soricidae**

Blarina brevicauda (Say)
Sorex cinereus Kerr
Sorex hoyi Baird

Talpidae

Condylura cristata (Linnaeus)

Opossums**(American Opossums)**

Virginia Opossum

Rodents**(Squirrels)**

Flying Squirrel sp.
Woodchuck
Gray Squirrel
Red Squirrel
Eastern Chipmunk

(Beavers)

American Beaver

(Jumping Mice)

Woodland Jumping Mouse
Meadow Jumping Mouse

(New World Mice & Rats)

Meadow Vole
Muskrat
White-footed Mouse

(Old World Mice & Rats)

House Mouse
Norway Rat

(New World Porcupines)

Porcupine

Rabbits & Hares**(Hares)**

European Hare
Eastern Cottontail

Shrews**(Shrews)**

Short-tailed Shrew
Masked Shrew
Pygmy Shrew

(Moles)

Star-nosed Mole

CHIROPTERA

Vespertilionidae

Eptesicus fuscus (Beauvois)

Myotis lucifugus (Le Conte)

CARNIVORA

Canidae

Canis latrans (Say)

Vulpes vulpes (Linnaeus)

Mustelidae

Lontra canadensis (Schreber)

Mustela erminea (Linnaeus)

Neovison vison (Schreber)

Mephitidae

Mephitis mephitis (Schreber)

Procyonidae

Procyon lotor (Linnaeus)

ARTIODACTYLA

Cervidae

Odocoileus virginianus (Zimmermann)

Bats

(Vespertilionid Bats)

Big Brown Bat

Little Brown Bat

Carnivores

(Dogs)

Coyote

Red Fox

(Weasels & Otters)

Northern River Otter

Ermine

Mink

(Skunks)

Striped Skunk

(Raccoons)

Raccoon

Deer

(Deer)

White-tailed Deer
