



# The Blue Bill

Quarterly Journal of the Kingston Field Naturalists

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## 2021/2022 Executive

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**[editor@thebluebill.ca](mailto:editor@thebluebill.ca)**

Submissions may be in any format. Equations should be in  $\text{\LaTeX}$ . Please provide captions and credit information for photos.

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## 1 Editor's Notes

by Peter Waycik

For those that are not aware, the name of a certain voracious moth species was changed to the LD Moth for the same reason that sports teams in Edmonton, Cleveland and Washington changed their names. There are several sub-species of LD Moth which can be further distinguished by appending an extra letter to LD. For example, in this area, the likely subspecies is *Lymantria dispar* ssp. *dispar*, so a D would be appended to get LDD Moth. I have taken the liberty of switching all mentions of this moth to its current and correct name (without presuming which subspecies it was) in this issue despite any protests to the contrary. Listeners of Ontario Today will already be up to speed on this change as Ed Lawrence has been using the correct name since it was changed.

For those who are interested in taxonomy, you will know that species' scientific and common names sometimes change. Scientific names are meant to reflect the phylogeny of each species and as researchers delve deeper into where a certain species fits into the evolutionary scheme, they sometimes feel the need to change its classification—and in some cases change it back. In recent times, advances in genetics have resulted in a boom in knowledge about evolutionary and genetic relationships which has also meant an increase in the number of taxonomic changes. If you own a field guide or other manual that is more than a few years old, chances are that at least a few of the Latin binomials contained within have changed.

Let's take a look at Wilson's Warbler for example. It was originally named the Green Black-capt Flycatcher by Alexander Wilson, but was later named after him (posthumously) by Charles Lucien Bonaparte. Wilson originally gave it the scientific name *Muscicapa pusilla* which Bonaparte changed to *Wilsonia pusilla*. It underwent various other name changes until in 2011, in a more scientific move (phylogenetic analysis of nuclear and mitochondrial DNA sequences), it was changed to *Cardellina pusilla* by the American Ornithologists'

Union putting it in the same genus as the Canada Warbler and three other species. It had in fact shared the now inactive taxon *Wilsonia* with both the Canada Warbler and Hooded Warbler, but the latter was moved to the genus *Setophaga*.



**Figure 1:** Alexander Wilson's drawing of a Green Black-capt Flycatcher. (from Vol. 3 Plate 26 [American Ornithology](#), 1811)

If you are fretting over changes to your beloved Latin binomials (I'm looking at you Labrador Tea), there are resources that will help you fix up all your lists and ancient manuals and perhaps even help you identify some spelling errors. Searching on [iNaturalist.org](#) will find the correct species even if there has been a taxon change. Once you get to the species page, select the "Taxonomy" tab and scroll down to see common and scientific names past and present. This tab will also lead you to information about any taxon changes. The "About" tab will give you the Global Biodiversity Information Facility (GBIF) and other links to the species on other resources which can lead to many interesting hours of research. Now, if you're like me and all your lists are on iNaturalist, they will just get updated automatically whenever there are taxon changes. The same is likely true of most active online resources, but unfortunately, your paper resources need to be updated manually.

## 2 KFN Income Statement

### KINGSTON FIELD NATURALISTS INCOME STATEMENT FOR THE YEAR ENDING MARCH 31, 2021

#### INCOME

CFKA Grant	1,866.07
Donations - Habitat Preservation	6,905.60
Donations - General	3,316.63
Donations - Queen's Scholarship	100.00
Grazing Income - Amherst Island	2,500.00
GST Rebate	1,077.05
Interest Income	2,222.16
Memberships Junior	700.00
Memberships Other	13,544.00
Other Income	401.97
Sales	361.00

#### TOTAL INCOME

**32,994.48**

#### EXPENSES

Administration	616.11
Bank Charges	68.68
Blue Bill	900.26
Conservation Committee	416.24
Donations Out	300.00
Education	33.14
Field Trips	166.24
Insurance	2,125.44
Junior Naturalist Admin	20.50
Membership Expenses	1,068.47
Paypal Charges	397.79
Property Expenses	940.02
Property Tax	3,310.58
Publicity	847.50
Queen's Scholarship	100.00
Rent Paid (Monthly Meetings)	270.00
Speakers Expenses	200.00
Subscriptions and Memberships	248.00
Website Domain Fee	15.16

#### TOTAL EXPENSES

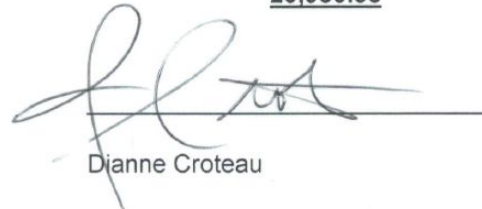
**12,044.13**

#### SURPLUS ON 2020/2021 OPERATIONS

**20,950.35**



Kevin Bleeks



Dianne Croteau

Figure 2: KFN Income Statement for the year ending March 31, 2021 (Larry McCurdy)

### 3 KFN Balance Sheet

**KINGSTON FIELD NATURALISTS  
BALANCE SHEET  
FOR THE YEAR ENDING MARCH 31, 2021**

**ASSETS**

Bank Account	27,079.79
Paypal Account	206.00
BNS Corp. Tiered	5,210.61
Canadian Tire Bank	24,000.00
GIC - Can. West (2021)	20,000.00
GIC - Home Trust (2022)	17,214.00
GIC - Home Trust (2023)	17,214.00
ScotiaMcLeod Account	1,623.86
Equipment	13,677.82
2008 Book Inventory	3,173.00
Property (at cost)	<u>260,800.00</u>

**TOTAL ASSETS**

**390,199.08**

**LIABILITIES & EQUITY**

Habitat Preservation Fund	11,948.44
Faith Avis Fund	550.83
Life Membership Reserve	7,600.00
Nan Yeomans Young Naturalists Fund	1,487.94
Property Management Reserve	20,000.00
ASUS Fund	634.71
General Equity	<u>347,977.16</u>

**TOTAL LIABILITIES & EQUITY**

**390,199.08 \*\***

**\*\* NOTE**

Total Liabilities & Equity - March 31, 2020	369,248.73
Surplus on 2020/2021 Operations	20,950.35
Total Liabilities & Equity - March 31, 2021	390,199.08

We have reviewed the bank statements together with the supporting documents.  
We find the above statements accurately reflect the financial position of the  
Kingston Field Naturalists for the year ended March 31, 2021.



Kevin Bleeks



Dianne Croteau

**Figure 3:** KFN Balance Sheet for the year ending March 31, 2021 (Larry McCurdy)



## 4 BioBlitz Report 2021

*by Anne Robertson*

The 2021 BioBlitz was held in July at the Fourth Lake Nature Reserve. The COVID-19 pandemic restrictions were to be eased somewhat and by delaying our 23<sup>rd</sup> BioBlitz to mid-July we could accommodate more participants with COVID protections in place. No BBQ was held and no guided walks occurred this year.

The Fourth Lake Nature Reserve North is a newly acquired property of the Land Conservancy for Kingston, Frontenac, Lennox & Addington. It is located west of Parham and this reserve is not open to the public. This 204 acre property has wetlands, forests and rocky outcrops. Habitats include a cultural meadow, deciduous and mixed forest, a 21 acre beaver pond, shallow marsh, a creek, small streams and open aquatic areas as well as small creeks and valleys and many rocky outcrops and ridges.



**Figure 4:** Waterfall. (Gaye Beckwith)

The aim of a BioBlitz is to list as many species as possible in 24 hours. This gives a good snapshot of the biodiversity that may be found in the area. Due to the 4 week delay in holding our Blitz this year some species will appear and some disappear when compared with other sites. The spring migration was over – birds were on their nests and less conspicuous and the flowering spring ephemerals were decomposing.

Participants included KFN members, amateurs, experts and professionals who listed species between 3:00 pm Friday 9 July and 3:00 pm Saturday 10 July. 40 people registered (usually 70). 23 were KFN members and one youth. 23 people took part on Friday, some returned on Saturday for a total of 37 that day. Due to the nature of the event they were well spread out on the property. Other organisations represented were Land Conservancy for KFLA (3), Ecological Services (4), Museum of Nature (2), Ottawa Field Naturalists (6).

A base was set up with a tent for registration, identification books and a tally board. We also had a drinks table on Saturday with morning coffee, tea and water all day. Parking was on one side of the road.



**Figure 5:** Base tent. (Gaye Beckwith)

Registration at the base used forms including COVID-19 screening questions. A map of the site was provided showing trails and habitats. The trails were well prepared and marked by the previous owner Bruce Millen. A tally sheet was provided and participants were also encouraged to enter their sightings on eBird (4 people did this) and iNaturalist (7 people did this) or by marking the sheets on the tally board located at the base. Many people emailed their lists directly to Anne.

Explorations took place on foot, and a canoe and

a kayak were launched in the main pond to access water species. There was some dipping from the shore, minnow traps were set and a seine net spread over a small area to sample the fish. Besides moth sheets, we also set up small mammal traps and pitfall traps for invertebrates and four trail cams were installed. Information was collected on everything from night time to early morning and all day, and from minute mosses and invertebrate species to the large sign of a Moose and the big Eastern White Pines.



**Figure 6:** *Chloealtis conspersa* – Sprinkled Grasshopper, July 9 2021. (Kurt Hennige)



**Figure 7:** Green Frog, July 10, 2021KFN Bioblitz. (Kurt Hennige)

The first unusual species to be recorded was a big patch of Pinesap found under the White Pines at the Base. This is a parasitic plant with no chloro-

phyll. It feeds on the fungi in the soil which in turn are mycorrhizae on the roots of the pine trees. This was just one of the 309 vascular plants including 19 spore-bearing plants – ferns, horsetails and club mosses – found.

The non-vascular plant listers also had a ball and recorded 100 species of moss and liverwort and they said “there are plenty more species that were not recorded.” A number of beautiful lichens (15) were added to the non-vascular plant list.

The story for fungi (17) was a bit different as with a dry year and later in the season fewer species than expected were seen despite careful searching on the property.

Highlights came at night with a huge variety of moths which many people enjoyed learning about from our recorders. A couple of special species were the uncommon Satin Moth with its stripy legs and the brightly coloured Painted Lichen Moth and Scarlet-winged Lichen Moth. Of note LD Moth numbers were very high this year and defoliation of trees evident. It was interesting to note the variation in male LD Moth sizes and shades of beige colour.



**Figure 8:** Coral Hairstreak on lily. (Gaye Beckwith)

The Invertebrate list is huge! There were enormous numbers of moth species (212). There were a good many other insects including butterflies (52) bee-



gles (25) and flies (32) too. Also included in the arthropods are spiders (11), myriapods and crustaceans but slugs and snails are not jointed legged so are invertebrates but not arthropods. Rotifers (6) and worms of various types (6) are also not arthropods, nor are the amoebas, hydras, hairybellies and other minute organisms (4) in the water, (single cell to multi cellular species) that were recorded. The Kingdom of Protists was represented by a slime mold and a Stentor species found in the main pond.



**Figure 9:** Crab Spider. (Gaye Beckwith)

Six species of bat were recorded using two acoustic bat monitors. Most were considered to be foraging flights but the Silver-haired Bats may have been at a roosting/maternity spot. Some special bird sightings included American Woodcock and Eastern Whip-poor-will and an early morning chorus of Sandhill Cranes. A skink (lizard) was a special sighting too and the Moose scat was unexpected. The mammal live traps were successful and yielded a chipmunk and 3 Deer Mice this year. Our final tally includes 14 mammals, 50 birds, 4 reptiles, 7 amphibians, and 5 fish.

Surely the most interesting species name was the Chocolate-and-cream Sedge which is not a plant but a caddisfly! The hairybacks or hairybellies (phylum Gastrotricha) come a close second. These are microscopic, aquatic, worm-like animals. Baby Tooth Moss (*Plagiomnium cuspidatum*) requires imagination!



**Figure 10:** Red-fruited pixie cup. (Janet Elliott)

The success of the BioBlitz depends on the submission of tally lists by participants and the variety of species seen as well as the weather. The tallies were collated by Erwin (vertebrates), Kurt and Anne (invertebrates), Barry (vascular plants) and Anne (non-vascular plants and fungi). We found a good number of species though the tally may have been affected by fewer people on the ground and late date of the BioBlitz. Interestingly there were fewer vertebrates than usual but we had terrific moss and moth lists.

Our final total number of species for the Fourth Lake Nature Reserve North property is 965. A very respectable tally. In past years we have recorded in 2020 (individual blitzes due to the COVID-19 pandemic) 801 species, in 2019 (Ontario Power Generation site) 629 species, in 2018 (Helen Quilliam Sanctuary) 942 species. In 2017 (Landon Bay) 996 species and in 2016 (Menzel) 841 species. We look forward to next year.

Many thanks to all our participants. This was another successful BioBlitz. Some said the best ever. The KFN should be proud of continuing this an-



nual tradition despite COVID-19 restrictions being a challenge. The information on each site we have studied is available in the September Blue Bill reports each year which may be accessed on the website. The baseline document produced will be a record for future changes caused by global warming and climate change, invasive species or natural succession.



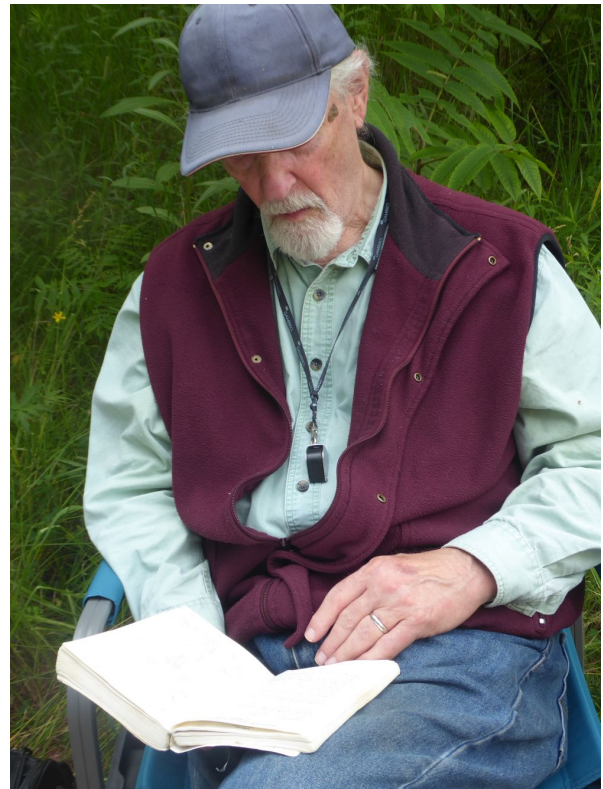
**Figure 11:** Erwin and Gaye Butterfly id. (Anne Robertson)



**Figure 12:** BatBox presentation to Thom Snowman. (Bruce Elliott)

A bat box was presented to the Land Conservancy in recognition of their kindness in allowing us the use of this site. It is to be emphasised that this is protected property and access rights are not normally given.

The following lists of scientific and common names aims to use the most up to date names of species. Various sources for common names have been used. Most species are listed in taxonomic order by family and then alphabetically but note the moths are listed by Hodges number. Species are listed in the order vertebrates, invertebrates, protists, vascular plants, non-vascular plants and fungi.



**Figure 13:** Dave McMurray, Botanist, at id. (Anne Robertson)



**Figure 14:** Dale adding apple bait to "catch and release" mammal trap. (Anne Robertson)

## 4.1 Vertebrates

### 4.1.1 LIST OF MAMMALS

#### VESPERTILIONIDAE

*Eptesicus fuscus fuscus*  
*Perimyotis subflavus*  
*Lasiurus cinereus*  
*Myotis lucifugus lucifugus*  
*Lasiurus borealis borealis*  
*Lasionycteris noctivagans*

#### BATS

Big Brown Bat  
 Tri-coloured Bat  
 Hoary Bat  
 Little Brown Myotis  
 Eastern Red Bat  
 Silver-haired Bat

#### SCIURIDAE

*Tamiasciurus hudsonicus*  
*Tamias striatus lysteri*

#### SQUIRRELS

Red Squirrel  
 Chipmunk

#### CASTORIDAE

*Castor canadensis*

#### BEAVERS

Beaver

#### MURIDAE

*Peromyscus maniculatus gracilis*

#### MICE, RATS AND VOLES

Deer Mouse

#### ERETHIZONTIDAE

*Erithozon dorsatum dorsatum*

#### PORCUPINES

Porcupine

#### URSIDAE

*Ursus americanus americanus*

#### BEARS

Black Bear

#### CERVIDAE

*Alces alces americana*  
*Odocoileus virginianus borealis*

#### DEER

Moose  
 White-tailed Deer

### 4.1.2 LIST OF BIRDS

#### ANATIDAE

*Aix sponsa*

#### SWANS, GEESE, AND DUCKS

Wood Duck

#### PHASIANIDAE

*Bonasa umbellus*

#### TURKEYS AND GROUSES

Ruffed Grouse

#### CUCULIDAE

*Coccyzus americanus*

#### CUCKOOS

Yellow-billed Cuckoo

#### CAPRIMULGIDAE

*Antrostomus vociferus*

#### GOATSUCKERS

Whip-poor-will

#### GRUIDAE

*Antigone canadensis*

#### CRANES

Sandhill Crane

#### SCOLOPACIDAE

*Philohela minor*

#### WOODCOCK, SNIPE, SANDPIPERS

American Woodcock

#### ARDEIDAE

*Ardea herodias*

#### HERONS AND BITTERNS

Great Blue Heron

#### CATHARTIDAE

*Cathartes aura*

#### VULTURES

Turkey Vulture

#### STRIGIDAE

*Strix varia*

#### OWLS

Barred Owl

#### PICIDAE

*Picoides pubescens*  
*Picoides villosus*  
*Colaptes auratus*

#### WOODPECKERS

Downy Woodpecker  
 Hairy Woodpecker  
 Northern Flicker

#### TYRANNIDAE

*Contopus virens*  
*Sayornis phoebe*  
*Myiarchus crinitus*  
*Tyrannus tyrannus*

#### FLYCATCHERS

Eastern Wood Pewee  
 Eastern Phoebe  
 Great-crested Flycatcher  
 Eastern Kingbird

#### VIREONIDAE

*Vireo flavifrons*  
*Vireo olivaceus*

#### VIREOS

Yellow-throated Vireo  
 Red-eyed Vireo

#### CORVIDAE

*Cyanocitta cristata*  
*Corvus brachyrhynchos*  
*Corvus corax*

#### JAYS AND CROWS

Blue Jay  
 American Crow  
 Common Raven

#### PARIDAE

*Poecile atricapillus*

#### CHICKADEES AND ALLIES

Black-capped Chickadee

#### HIRUNDINIDAE

*Iridoprocne bicolor*

#### SWALLOWS

Tree Swallow

#### SITTIDAE

*Sitta carolinensis*

#### NUTHATCHES

White-breasted Nuthatch

**TROGLODYTIDAE***Troglodytes aedon***WRENS**

House Wren

**MIMIDAE***Dumetella carolinensis**Toxostoma rufum***MIMICS**

Gray Catbird

Brown Thrasher

**TURDIDAE      THRUSHES AND BLUEBIRDS***Catharus fuscescens**Catharus guttatus**Turdus migratorius*

Veery

Hermit Thrush

American Robin

**BOMBYCILLIDAE***Bombcilla cedrorum***WAXWINGS**

Cedar Waxwing

**FRINGILLIDAE***Carpodacus purpureus**Spinus tristis***FINCHES**

Purple Finch

American Goldfinch

**EMBERIZIDAE      SPARROWS AND BUNTINGS***Spizella passerina**Spizella pusilla**Melospiza melodia**Melospiza georgiana**Pipilo erythrophthalmus*

Chipping Sparrow

Field Sparrow

Song Sparrow

Swamp Sparrow

Eastern Towhee

**ICTERIDAE***Icterus galbula**Agelaius phoeniceus**Quiscalus quicula***MEADOWLARKS AND****BLACKBIRDS**

Baltimore Oriole

Red-winged Blackbird

Common Grackle

**PARULIDAE***Seiurus aurocapilla**Geothlypis trichas**Setophaga ruticilla**Setophaga petechia**Setophaga pensylvanica**Setophaga pinus***WOOD WARBLERS**

Ovenbird

Common Yellowthroat

American Redstart

Yellow Warbler

Chestnut-sided Warbler

Pine Warbler

**CARDINALIDAE      CARDINALS AND ALLIES***Piranga olivacea**Pheucticus ludovicianus**Passerina cyanea*

Scarlet Tanager

Rose-breasted Grosbeak

Indigo Bunting

**4.1.3 LIST OF REPTILES AND AMPHIBIANS****EMYDIDAE      POND AND MARSH TURTLES***Chrysemys picta**Emydoidea blandingii*

Midland Painted Turtle

Blanding's Turtle

**COLUBRIDAE***Thamnophis sirtalis***TYPICAL SNAKES**

Eastern Garter Snake

**SCINCIDAE***Plestiodon fasciatus***SKINKS**

Five-lined Skink

**SALAMANDRIDAE***Notophthalmus viridescens***NEWTS**

Eastern Newt

**AMBYSTOMATIDAE      MOLE SALAMANDERS***Ambystoma sp.***BUFONIDAE***Anaxyrus americanus***TOADS**

American Toad

**HYLIDAE***Pseudacris crucifer***TREEFROGS**

Spring Peeper

**RANIDAE***Lithobates pipiens**Lithobates clamitans**Lithobates septentrionalis**Lithobates catesbeianus***TRUE FROGS**

Northern Leopard Frog

Green Frog

Mink Frog

Bull Frog

**4.1.4 LIST OF FISH****CYPRINIDAE***Chrosomus eos**Chrosomus neogaeus**Notropus cornutus*

Northern Redbelly Dace

Finescale Dace

Common Shiner

**GASTEROSTEIDAE***Culaea inconstans*

Brook stickleback

**UMBRIDAE***Umbra limi*

Central Mudminnow



## 4.2 Invertebrates

### 4.2.1 INSECTA

#### Odonata Dragonflies and Damselflies

Dragonfly (nymph)

#### Zygoptera Damselflies

*Argia fumipennis* Violet Dancer  
American Bluets

*Coenagrion resolutum* Taiga Bluet  
*Enallagma ebrium* Marsh Bluet  
*Enallagma vernale* Vernal Bluet  
*Ischnura verticalis* Eastern Forktail  
*Lestes rectangularis* Slender Spreadwing  
*Nehalennia irene* Sedge Sprite  
*Calopteryx maculata* Ebony Jewelwing

#### Anisoptera Dragonflies

#### Aeshnidae Darners

*Anax junius* Common Green Darner

#### Corduliidae Emeralds

*Cordulia shurtleffii* American Emerald  
*Epitheca cynosura* Common Baskettail

#### Gomphidae Clubtails

*Gomphus exilis* Lancet Clubtail

#### Libellulidae Skimmers

*Celithemis elisa* Calico Pennant  
*Celithemis eponina* Halloween Pennant  
*Erythemis simplicicollis* Eastern Pondhawk  
*Leucorrhinia intacta* Dot-tailed Whiteface  
*Libellula incesta* Slaty Skimmer  
*Libellula luctuosa* Widow Skimmer  
*Libellula pulchella* Twelve-spotted Skimmer  
*Pachydiplax longipennis* Blue Dasher  
*Plathemis lydia* Common Whitetail  
*Sympetrum obtrusum* White-faced Meadowhawk  
*Sympetrum vicinum* Autumn Meadowhawk

#### Macromiidae Cruisers

#### Plecoptera Stoneflies

#### Orthoptera Grasshoppers, Katydid and Crickets

*Gryllus* Sp. Cricket sp.  
*Gryllus pensylvanicus* Fall Field Cricket  
*Gryllus veletis* Spring Field Cricket  
*Chloealtis conspersa* Sprinkled locust  
*Melanoplus bivittatus femoralis* Grasshopper  
*Melanopus punctulatus* Pine-tree Spur-throat  
Genus *Amblycorypha* Round-headed Katydid

#### Phasmida Stick Insects

#### Blattodea Roaches

*Parcoblatta pennsylvanica* Pennsylvania Wood  
Cockroach  
*Periplaneta americana* American Cockroach

#### Thysanoptera Thrips sp.

#### Ephemeroptera Mayflies

*Mayfly nymph* Mayfly nymph

#### Hemiptera True Bugs

*Cosmopepla lintneriana* Twice-stabbed Stink Bug  
*Bansa dimidiata* Stink Bug  
*Aphrophora alni* - European Alder Spittlebug  
*Arthaldeus pascuellus* Plant-hopper  
*Cercopoidea family* Spittlebug  
*Cicadellidae family* Leaf Hoppers  
*Corixidae* Water Boatman  
*Gerris sp.* Water Strider  
*Capsus ater* Miridae - Plant Bugs  
*Lopidea sp>* Plant Bug  
*Lygaeus kalmi* Small Milkweed Bug  
*Lygus lineolaris* Tarnished Plant Bug  
*Nabis subcoleoptratus* Black Damsel Bug  
*Notonecta glauca* Milky Backswimmer  
*Notonecta sp.* Backswimmer  
*Phlegyas abbreviatus* True Bugs  
*Stictopleurus punctiventris* Plant Bug  
*Arhyssus* Scentless Plant Bug  
*Aphididae family* Aphid

#### Neuroptera Dobsonflies, Lacewings, Antlions and Relatives

**Sub group Megaloptera***Chauliodes pectinicornis***Fishflies**

Summer Fishfly

**Coleoptera****Beetles and Weevils***Agriotes* sp.

Click Beetle

*Aphorista vittata*

Handsome Fungus beetle

*Aphrophoridae*

True Spittlebugs

Genus *Isomira*

Comb-clawed Beetles

*Arthromacra aenea*

Long-jointed Beetles

*Limonium* sp.

Click Beetle

*Chrysochus auratus*

Dogbane Leaf Beetle

*Coccinella tifasciata*

Three-banded Lady Beetle

*Coleomegilla maculata*

Spotted Lady Beetle

*Brachyleptura champlaini*

Longhorn Beetle

*Disonycha* sp.

Flea Beetle

*Harmonia axyridis*

Multicoloured Asian Lady Beetle

*Nicrophorus orbicollis*

Roundneck Carrion Beetle

Subgenus *Haplanthaxia*.

Metallic Wood-boring Beetle

*Agrilus ruficollis* -

Red-necked Cane Borer

*Photinus pyralis*

Common Eastern Firefly

*Photuris* sp.

Firefly

*Trichodes nuttalli*

Red-blue Checkered Beetle

*Tetropes tetrophthalmus*

Red Milkweed Beetle

*Glipa oculata*

Tumbling Flower Beetles

*Mordellistena fuscipennis*

Tumbling Flower Beetles

Genus *Mordella*

Tumbling Flower Beetles

*Nemogatha nemorensis*

Blister Beetle

Genus *Rhagonyche*

Soldier Beetle

**Trichoptera****Caddisflies***Hydropsychidae* family

Caddisfly (larva)

*Phryganeidae* family

Giant Casemaker Caddisfly

*Platycentropis radiatus* Chocolate and Cream Sedge

Species unknown

Caddisfly

**Lepidoptera****Butterflies, Moths and Skippers***Anatrytone logan*

Delaware Skipper

*Ancyloxypha numitor*

Least Skipper

*Boloria selene*

Silver-bordered Fritillary

*Celastrina lucia*

Spring Azure/ Northern Azure

*Celastrina ladon*

Northern Azure

*Cercyonis pegala*

Common Wood-Nymph

*Coenonympha tullia*

Common Ringlet

*Colias philodice*

Clouded Sulphur

*Cupido comyntas*

Eastern Tailed Blue

*Danaus plexippus*

Monarch

*Enodia anthedon*

Northern Pealy-eyed

*Erynnis baptisidae*

Wild Indigo Duskywing

*Erynnis lucilius*

Columbine Duskywing

*Erynnis juvenalis*

Juvenal's Duskywing

*Erynnis*

Duskywing Sp.

*Epargyreus clarus*

Silver-spotted Skipper

*Euphyes dion*

Dion Skipper

*Eures comyntas*

Eastern Tailed Blue

*Euphyes vestris*

Dun Skipper

*Lethe anthedon*

Northern Pearly\_Eye

*Lethe appalachia*

Appalachian Brown

*Lethe eurydice*

Eyed Brown

*Limenitis archippus*

Viceroy

*Limnites artemis*

White Admiral/Red-spotted Purple

*Megisto cymela*

Little Wood-satyr

*Nymphalis antiopa*

Mourning Cloak

*Nymphalis l-album*

Compton's Tortoiseshell

*Papilio* sp.*Phyciodes cocyta*

Northern Crescent

*Phycoides selenis*

Northern Crescent

*Pieris rapae/ oleraceax*

Cabbage White

*Poanes viator*

Broad-winged Skipper

*Polygonia comma*

Eastern Comma

*Polygonia interrogatonis*

Question Mark

*Polygonia progne*

Gray Comma

*Polites origenes*

Crossline Skipper

*Polites peckius*

Peck's Skipper

*Polites themistocles*

Tawny-edged Skipper

*Pompeius verna*

Little Glassywing

*Satyrium acadica*

Acadian Hairstreak

*Satyrium lipareps*

Strped Hairstreak

*Satirium melinus/kingi*

Gray Hairstreak

*Satyrium titus*

Coral Hairstreak

*Satyrium calanus*

Banded Hairstreak

*Satyroides eurydice*

Eyed Brown

*Speyeria aphrodite*

Aphrodite Fritillary

*Strymon melinus*

Gray Haistreak

*Thorybes pylades*

Northern Cloudywing

*Thymelicus lineola*

European Skipper

*Vanessa atalanta*

Red Admiral

*Vanessa virginiensis*

American Painted Lady

*Wallengrenia egeremet*

Northern Broken Dash

**Moths arranged by Hodges #**

<i>Monopsis dorsistrigella</i>	Skunkback Monopis	<i>Sparganothis sulfureana</i> 3695	Sparganothis
<i>Psyche casta</i> 0437	Bagworm Moth (pupa)		Fruitworm Moth
<i>Caloptilia bimaculatella</i> 0595	Maple Caloptilia	<i>Sparganothis unifasciana</i> 3711	One-lined
<i>Agonopterix robinella</i> 0882	Four-dotted		Sparganothis Moth
	Agonopterix Moth	<i>Cenopsis reticulatana</i> 3720	Reticulated Fruitworm
<i>Psilocorsis cryptolechiella</i> 0956	Black-fringed leaftier	<i>Cenopsis pettitana</i> 3725	Maple-Basswood Leafroller
	Moth	<i>Cenopsis niveana</i> 3727	Aproned Cenopsis Moth
<i>Epicallima argenticinctella</i> 1046	Orange-headed	<i>Coelostathma discopunctana</i> 3742	The Batman Moth
	Epicallima Moth	<i>Amorbia humerosana</i> 3748	White Line Leafroller
<i>Aristotelia roseosuffusella</i> - 1761	Pink-washed	<i>Tortricidia flexuosa</i> 4654	Abbreviated Button Slug
	Aristotelia		Moth
<i>Pubitelphusa latifasciella</i> 1857	White-banded	<i>Apoda biguttata</i> 4669	Shagreened Slug Moth
	Pubitelphusa Moth	<i>Eulea delphinii</i> 4697	Spiny Oak Slug Moth
<i>Dichomeris bilobella</i> 2291	Bilobed Dichomeris Moth	<i>Scoparia biplagialis</i> 4716	Double-striped Scoparia
<i>Dichomeris flavocostella</i> 2295	Cream-edged		Moth
	Dichomeris Moth	<i>Scoparia basalis</i> 4719	Many-spotted Scoparia Moth
<i>Argyresthia oreasella</i> 2467	Cherry Shoot Borer	<i>Elophila icciusalis</i> 4748	Pondside Crambid
<i>Synanthedon acerrubri</i> 2546	Red Maple Borer	<i>Elophila gyralis</i> 4751	Waterlily Borer
<i>Olethreutes fasciatana</i> 2823	Banded Olethreutes	<i>Elophila oblitalis</i> 4755	Waterlily Leafcutter Moth
<i>Olethreutes atrodentana</i> 2785		<i>Parapoinx maculalis</i> 4759	Polymorphic Pondweed
<i>Olethreutes appendicum</i>	Serviceberry Leafroller		Moth
<i>Epiblema scudderiana</i> prob 3186	Scudeleri's	<i>Parapoinx allionealis</i> 4764	Watermilfoil Leafcutter
	Epiblema		Moth
<i>Epiblema otiosana</i> 3202	Biden's Borer Moth	<i>Lipocosmodes fuliginosalis</i> 4888	Sooty lipocosmodes
<i>Epiblema brightonana</i> 3203	Brighton's Epiblema	<i>Photinus consimilis</i>	Firefly
<i>Epinotia criddleana</i>	Aspen Leafroller	<i>Diacme elealis</i> 5142	Paler Diacme
<i>Ancylis metamelana</i> Hodges#3359	Black-marked	<i>Loxostegopsis merrickalis</i> 5177	Merrick's Pyralid
	Ancylis	<i>Diathrausta harlequinialis</i> 5175	Harlequin Webworm
<i>Ecdytolopha insiticiiana</i> 3497	Locust Twig Borer	<i>Blepharomastix ranalis</i> 5182	Hollow-spotted
	Moth		Blepharomastix Moth
<i>Pandemis lamprosana</i> 3593	Woodgrain Leafroller	<i>Palpita aenescentalis</i> 5227	
<i>Pandemis limitata</i> 3594	Three-lined Leafroller	<i>Herpetogramma thestealis</i> 5277	Zigzag
<i>Argyrotaenia velutinana</i> 3597	Red-banded		Herpetogramma
	Leafroller Moth	<i>Herpetogramma aeglealis</i> 5280	Serpentine
<i>Argyrotaenia quadrifasciana</i> 3621	Four-lined		Webworm
	Leafroller Moth	<i>Donacaula dispersellus</i> 5361.1	
<i>Argyrotaenia quercifolia</i> 3623	Lined Oak	<i>Crambus bidens</i> 5342	Biden's Grass-veneer
	Leafroller	<i>Crambus albellus</i> 5361	Small White Grass-Veneer
<i>Choristoneura rosaceana</i> 3635	Oblique-banded	<i>Crambus agitatellus</i> 5362	Double-banded Grass
	Leafroller		Veneer
<i>Archips argyrospila</i> 3648	Fruit-Tree Leafroller Moth	<i>Crambus saltuellus</i> 5363	Pasture Grass Veneer
<i>Archips mortuana</i> 3649		<i>Chrysteuchia topiaries</i> 5391	Topiary Grass-veneer
<i>Archips semifervans</i> 3653	Oak Leafroller Moth	<i>Microcrambus elegans</i> 5420	Elegant Grass-Veneer
<i>Archips purpurana</i> 3658	Omnivorous Leafroller	<i>Urola nivalis</i> 5464	Snowy Urola Moth
<i>Clepsis peritana</i> 3688	Garden Tortrix	<i>Vaxi critica</i> 5466	Straight-lined Argyria
		<i>Aglossa cuprina</i> 5518	Grease Moth



<i>Dolichomia olinalis</i> 5533	Yellow-fringed Dolichoma	<i>Eulithis diversilineata</i> 7196	Lesser Grapevine Looper
<i>Condylolomia participalis</i> 5571	Drab Condylolomia	<i>Eulithis explanate</i> 7206	White Eulithis
<i>Poco cera asperatella</i> 5606	Maple Webworm	<i>Costaconvexa centrostrigaria</i> 7416	Bent-line Carpet
<i>Pococera expandens</i> 5608	Stiped Oak Webworm	<i>Eupithecia interruptofasciata</i> 7551	Jennifer Pug
<i>Eulogia ochrifrontella</i> 5999	Broad-banded Eulogia Moth	<i>Eupithacia abietaria</i> 7575	Cloaked Pug
<i>Moodna ostrinella</i> 6005	Darker Moodna Moth	<i>Eupithecia absinythiata</i> 7586.1	Wormwood Pug
<i>Geina buscki</i> - Hodges#6093	Busck's Plume Moth -	<i>Calledapteryx dryopterata</i> 7653	Brown Scoopwing
<i>Deejongia lobidactylus</i> 6102	Long-wing Plume Moth	<i>Oleclostera angelica</i> 7665	The Angel
<i>Hellinsia homodactylis</i> 6203	Plain Plume Moth	<i>Phyllodesma ameicana</i> 7687	Lappet Moth
<i>Macaria pustulana</i> 6273	Lesser Maple Spanworm Moth	<i>Malacasoma disstria</i> 7698	Forest Tent Caterpillar Moth (larva)
<i>Hellinsia homodactylus</i> 6203	Plain Plume Moth	<i>Malacasoma americanum</i> 7701	Eastern tent Caterpillar Moth
<i>Macaria pustularia</i> 6273	Lesser Maple Spanworm Moth	<i>Smerinthus jamaicensis</i> 7821	Twin-spotted Sphinx
<i>Emmelina monodactyla</i> 6234	Morning-Glory Plume Moth	<i>Paonias excaecata</i> 7824	Blinded sphinx
<i>Speranza pustularia</i> 6273	Lesser Maple Spanworm	<i>Pachysphinx modesta</i> 7828	Modest sphinx
<i>Macaria rubearia</i> 6274	Current Spanworm Moth	<i>Clostera albosigma</i> 7895	Sigmoid Prominent
<i>Macaria subcessaria</i> 6303	Barred Granite	<i>Datana ministra</i> 7902	Yellow-necked Caterpillar Moth
<i>Macaria minorata</i> 6340	Minor Angle Moth	<i>Datana angussi</i> 7903	Angus' Datana
<i>Macaria bisignata</i> 6342	Red-headed Inchworm	<i>Natada gibbosa</i> 7915	White-dotted Prominent
<i>Macaria pinustrobata</i> 6347	White Pine Angle	<i>Peridea basitriens</i> 7919	Oval-based Prominent
<i>Iridopsis vellivolata</i> 6582	Large Purplish Grey	<i>Peridia angulosa</i> 7920	Angulose Prominent
<i>Iridopsis ephyraria</i> 6583	Pale-winged Gray	<i>Gluphisia septentrionis</i> 7931	Common Gluphisia
<i>Renia flavipunctalis</i> 6384.1	Yellow-spotted Renia	<i>Datana drexelii</i> 7940	Drexel's Datana
<i>Anavitrinella pampinaria</i> 6590	Common Grey	<i>Macrurocampa marthesia</i> 7975	Mottled Prominent
<i>Protoboarmia porcelaria</i> 6598	Porcelain Gray	<i>Heterocampa obliqua</i> 7983	Oblique Heterocampa
<i>Hypagyrtis piniata</i> 6656	Pine Measuringworm Moth	<i>Heterocampa umbrata</i> 7990	White-blotched Heterocampa
<i>Xanthotype urticaria</i> 6740	False Crocus Geometer	<i>Heterocampa guttivitta</i> 7993	Saddled Prominent
<i>Euchlaena serrata</i> 6724	The Saw-wing	<i>Heterocampa biundata</i> 7995	Wavy-lined Heterocampa
<i>Euchlaena johnsonaria</i> 6729	Johnson's Euchlaena	<i>Lochhmaeus bilineata</i> 7999	Double-lined Prominent
<i>Metanema inatomaia</i> 6819	Pale Metanema	<i>Schizura leptinoides</i> 8011	Black-blotched Shzura 08011
<i>Nepytia canosaria</i> 6906	False Hemlock Looper Moth	<i>Hypoprepia miniate</i> 8089	Scarlet-winged Lichen Moth
<i>Eusarca confusaria</i> 6941	Confused Eusarca	<i>Hypoprepia fucosa</i> 8090	Painted Lichen Moth
<i>Eugmobapta nivosaria</i> 6965	Snowy Geometer Moth	<i>Haploa confusa</i> 8112	Confused Haploa
<i>Prochoerodes lineola</i> 6982	Large Maple Spanworm	<i>Virbia aurantiaca</i> 8121	Orange Virbia
<i>Nematocampa resistaria</i> 7010	Horned Spanworm	<i>Virbia ferruginosa</i> 8123	Rusty Virbia
<i>Nemoria bistriaria</i> 7046	Red-fringed Emerald	<i>Spilosoma virginica</i> 8137	Virginian Tiger Moth
<i>Idaea demissaria</i> 7114	Red-bordered Wave	<i>Hypercompe scribonia</i> 8146	Giant Leopard Moth
<i>Cyclophora pendulinaria</i> 7139	Sweetfern Geometer	<i>Phalaenostola metonalis</i> 8162	Pale Phalaenostola
<i>Scopula cacuminaria</i> 7157	Frosted Tan Wave	<i>Grammia parthenice</i> 8196	Parthenice Tiger Moth
<i>Scopula limboundata</i> 7159	Large Lace-border Moth		
<i>Scopula quadrilineata</i> 7165	Four-line Wave		

*Apantesis virgo* 8197 Virgin Tiger Moth  
*Halysidota tessellaris* 8203 Banded Tussock Moth  
*Cynia tenera* 8230 Delicate Cynia  
*Ctenucha virginica* 8262 Virginia Ctenucha  
*Dasychira vagans* 8294 Variable Tussock Moth  
*Lymantria dispar* Gypsy Moth  
*Dasychira pinicola* 8305 Pine Tussock Moth  
*Orgyia leucostigma* 8316 White-marked Tussock Moth  
*Lymantria dispar* 8318 Gypsy Moth  
*Leucoma salicis* 8319 Satin Moth  
*Idia americalis* 8322 American Idia Moth  
*Idia aemula* 8323 Common Idia  
*Idia scobialis* 8330 Smoky Idia Moth  
*Idia lubricalis* 8334 Glossy Black Idia  
*Zanclognatha protumnusalis* 8349 Complex Fan-foot  
*Zanclognatha jachusalis* 8353 Wavy-lined Fan-foot  
*Chytolita morbidalis* 8355 Morbid Owlet  
*Macrochilo absorptalus* 8357 Slant-lined Owlet  
*Macrochilo orciferalis* 8360 Bronzy Owlet  
*Phalaenostola eumelusalis* 8363 Dark Phalaenostola  
*Phalaenostola larentioides* 8364 Black-banded Owlet  
*Bleptina caradrinalis* 8370 Bent-winged Owlet Moth  
*Renia flavipunctalis* 8384.1 Yellow-spotted Renia Moth  
*Palthis asopialis* 8398 Faint-spotted Palthis  
*Colobochyla interpuncta* 8411 Yellow-lined Owlet  
*Hypena manalis* 8441 Flowing Line Snout  
*Calyptra canadensis* 8536 Canadian Owlet  
*Euclidia cuspidea* 8731 Toothed Somberwing  
*Caenurgina crassiuscula* 8738 Clover Looper Moth  
*catacala neogama* 8798 The Bridge  
*Catocala ilia* 8801 Ilia Underwing  
*Catocala coccinata* 8851 Scarlet Underwing  
*Catocala lineella* 8878 Little-lined Underwing  
*Marathyssa inficita* 8955 Dark Marathyssa  
*Protodeltote muscosula* 9047 Large Mossy Glyph  
*Protodeltote albidula* 9048 Pale Glyph  
*Maliattha synochitis* 9049 Black-spotted Glyph  
*Pseudeustrotia carneola* 9053 Pink-barred Pseudeustrotia (Lithecodia)  
*Capis curvata* 9059 Curved Halter Moth  
*Ponometia erastrioides* 9095 Smaller Bird-dropping Moth  
*Panthea acronyctoides* 9177 Black ZigZag  
*Panthea furcilla* 9182 Eastern Panthea

*Raphia abrupta* 9192 Abrupt Brother  
*Acronicta americana* 9200 American Dagger  
*Acronita hastulifera* 9201 Hoary Alder Dagger  
*Acronita insita* 9202 Fingered/Large Gray Dagger  
*Acronita impleta* 9257 Yellow-haired Dagger  
*Apamea amputatrix* 9348 Yellow-headed Cutworm  
*Neoligia exhusta* 9408 Exhausted Brocade  
*Bellura vulnifica* 9523.1 Black-tailed Diver  
*Chytonix palliarcula* 9556 Cloaked Marvel  
*Callopietria cordata* 9633 Silver-spotted Fern Moth  
*Amphipyra tragopoginis* 9639 Mouse Moth  
*Cosmia calami* 9815 American Dun-Bar  
*Amolita fessa* 9818 Feeble Grass Moth  
*Polia nimbosa* 10275 Stormy Arches  
*Melanchra picta* 10293 Zebra Caterpillar Moth  
*Leucania pseudargyria* 10462 False Wainscot  
*Orthodes majuscula* 10585 Rustic Quaker  
*Agrostis ipsilon* 10663 Ipsilon Dart  
*Ochropleura implecta* 10891 Flame-shouldered Dart  
*Xestia c-nigrum* 10942 Setaceous Hebrew Character  
*Xestia dolosa* 10942.1 Greater Black-letter Dart  
*Noctua pronuba* 11003.1 Large Yellow Underwing Moth  
*Euerettagrostis perattentus* 11008 Two spot Dart  
*Lycophotia phyllophora* 11010 Lycophotia Moth  
*Abagrotis alternata* 11029 Greater Red Dart

**Diptera** **True Flies**  
*Anopheles* sp. Mosquito sp.  
 Genus Geron Bee Flies  
*Anthomyiidae* family Root Maggot Fly  
*Culicidae* family Mosquito sp.  
*Clinohalea currei* Biting Midge  
*Chironomidae* family Midge larva  
*Contarina virginianiae* Chokecherry Midge  
*Blaesodiplosis* Gall Midge  
*Parallelodiplosis subtruncata* Dogwood Eyespot Gall Midge  
*Condyllostylus patibulatus* Long-legged Fly  
*Dolichopus* sp. Long-legged Fly  
*Machimus* sp. Robber Fly  
*Machimus sadyates* Robber Fly  
*Dioctria hyalipennis* Robber Fly  
*Calliphoridae* sp. Blow Fly  
 Genus Pollenia - Cluster flies

<i>Panorpidae</i> sp.	Scorpion Fly
<i>Scarophagidae</i> sp.	Flesh Fly
<i>Toxomerus geminatus</i>	Syrphid Fly
<i>Toxomerus marginatus</i>	Syrphid Fly
Genus <i>Xylota</i>	Syrphid Fly
<i>Platyceirus</i> sp.	Syrphid Fly
Horse Flies	Hybomitra hinei
<i>Tabanus</i> sp.	Horse Fly
<i>Chrysops sackeni</i>	Deer Fly
<i>Chrysops striatus</i>	Deer Fly
Genus <i>Cylindromyia</i>	Parasitic Fly Tachinidae
Tachinidae family	Parasitic Fly
<i>Archytas analis complex</i>	Parasitic Fly
<i>Archytas either aterrimus or instabilis</i>	Parasitic Fly
<i>Sepsis</i> sp.	Black Scavenger Flies
Muscidae sp	Muscid fly

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

<i>Camponotus</i> sp.	Carpenter Ants
Genus <i>Andrena</i>	Minning Bees
Nomadinae–Genus <i>Nomada</i>	Nomad Bees
<i>Apis</i> sp.	Honey Bee sp.
<i>Bombus imaptiens</i>	Common Eastern Bumblebee
<i>Bombus ternarius</i>	Tricolored Bumble Bee
<i>Halictus ligatus</i>	Sweat Bee
Subgenus <i>Dialictus</i>	Metallic-Sweat
Subgenus <i>Lasioglossum</i>	Sweat Bee
<i>Agapostemon virescens</i>	Bicolored Striped-Sweat bee
<i>Megachile pugnata</i>	Pugnacious Leafcutter Bee
<i>Hylaeus modestus modestus</i>	Modest Masked Bee
Subfamily <i>Chrysidinae</i>	Cuckoo Wasp
<i>Ammophila</i> sp.	Common Thread-waisted Wasp
<i>Ammophila</i> sp.	Tread-waisted Wasp
<i>Hemadas nubilipennis</i>	Blueberry Stem Gall Wasp
Cimbicidae	club-horned Sawflies
Tenthredinidae	Common Sawflies
Ichneumonidae -	Ichneumonid Wasps
<i>Enicospilus purgatus</i>	Ichneumon Wasp
Philanthinae	Bee Wolf
<i>Ancistrocerus adiabatus</i>	Mason Wasp
Subfamily <i>Crabroninae</i>	Square-headed Wasps

#### 4.2.2 OTHER ARTHROPODS

<b>Chilipoda</b>	<b>Centipedes</b>
<i>Geophilomorpha</i>	Soil centipedes

<b>Diplapoda</b>	<b>Millipedes</b>
<i>Narceus americanus</i>	Millipede

#### Arachnida    Arachnids

<b>Araneae</b>	<b>Spiders</b>
<i>Larinioides cornutus</i>	Furrow Orbweaver
<i>Tetragnatha</i> sp.	Green Long-jawed Orb Weaver
<i>Gladicosa</i> sp	Sword Wolf Spider
<i>Leiobunum vittatum</i>	Eastern Harvestman
<i>Lycosidae</i> family	Wolf Spider sp.
<i>Trochosa</i> sp	Wolf Spider sp.
<i>Misumena vatia</i>	Goldenrod Crab Spider
<i>Phalangiidae</i> family	Harvestman sp.
<i>Opiliones</i>	Harvestmen
<i>Salticus scenicus</i>	Zebra Jumper
<i>Phidippus</i> sp.	Jumping spider

<b>Acari</b>	<b>Mites and Ticks</b>
<i>Arrenurus</i> sp.	Water Mite
<i>Dermacentor variabilis</i>	Dog Tick
<i>Ixodes scapularis</i>	Black-legged Tick

<b>Crustacea (sub phylum)</b>	<b>Crustaceans</b>
<i>Gammaridae</i> family	Scud sp
	Woodlouse sp.

#### O.Decapoda

#### Class Branchiopoda

*Simocephalus vetulus*

#### Copepoda

<i>Ostracod</i> sp 2	Seed shrimp, vernal pool
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#### 4.2.3 OTHER INVERTEBRATES

<b>Phylum Amoebozoa</b>	<b>Amoeba</b>
<i>Arcella</i> sp.	Arcella

#### Phylum Cnidaria

<i>Hydra viridis</i>	Hydra
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#### Phylum Gastrotricha

Family <i>Chaetonotidae</i>	Hairybacks, Hairybellies
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<b>Phylum Mollusca</b>	<b>Molluscs</b>	<b>Hirudinea (sub order)</b>	<b>Leeches</b>
<b>Gastropoda (class)</b>	<b>Snails</b>	<i>Helobdella sp</i>	Leech
<i>Cepea sp.</i>	Grove snail	<i>Macrobdella decora</i>	North American Medicinal Leech
<i>Helisoma sp</i>	Ramshorn Snail	<i>Oligochaete sp</i>	Aquatic segmented Worm
<i>Family Physidae</i>	Bladder snails (pulmonate)		
<i>Arion subfuscus</i>	Dusky Slug sp.		
<i>Derocherus sp.</i>	Smooth Land Slug	<b>Phylum Nematoda</b>	<b>Nematodes</b>
		<i>Nematode</i>	Roundworm
<b>Bivalvia (class)</b>	<b>Clams, Mussels</b>	<b>Phylum Rotifera</b>	<b>Wheel animals</b>
<i>Elliptio complanata</i>	Freshwater Mussel	<i>Bipalpus hudsoni</i>	
<i>Family Sphaeriidae</i>	Fingernail Clam	<i>Colotheca sp</i>	
		<i>Conochilus sp</i>	Colonial Rorifer
<b>Phylum Platyhelminthes</b>	<b>Flatworms</b>	<i>Nothoica sp</i>	
<i>Family Dalyelliidae</i>	Dalyelliid flatworm	<i>Trichocerca pusilla</i>	
		<i>Trichotria sp.</i>	
<b>Phylum Annelida</b>	<b>Segmented Worms</b>		
<i>Lumbricus sp</i>	Earthworm sp		

### 4.3 Protists

<b>Phylum Ciliophora</b>	<b>Ciliates</b>	<b>Phylum Mycetozoa</b>	<b>Slime Mold</b>
<i>Stentor sp</i>	Trumpet Animalcule		

### 4.4 Vascular Plants

A species marked with an asterisk denotes an alien species.

<b>LYCOPODIACEAE</b>	<b>CLUBMOSS FAMILY</b>	<i>Osmunda regalis</i>	Royal Fern
<i>Dendrolycopodium dendroideum</i>	Prixeley Tree-clubmoss		
<i>Dendrolycopodium hickeyi</i>	Hickey's Tree-club-moss	<b>POLYPODIACEAE</b>	<b>FERN FAMILY</b>
<i>Dendrolycopodium obscurum</i>	Flat-branched Tree-clubmoss	<i>Athyrium angustum</i>	Northern Lady Fern
<i>Lycopodium clavatum</i>	Running Pine	<i>Athyrium filix-femina</i>	Lady Fern
<i>Diphasiastrum digitatum</i>	Southern Ground-cedar	<i>Dryopteris marginalis</i>	Marginal Wood (Shield) Fern
		<i>Gymnocarpium dryopteris</i>	Oak Fern
<b>SELAGINELLACEAE</b>	<b>SPIKEMOSS FAMILY</b>	<i>Onoclea sensibilis</i>	Sensitive Fern
<i>Selaginella rupestris</i>	Rock Spikemoss	<i>Polypodium virginianum</i>	Rock (Common) Polypody
<b>EQUISETACEAE</b>	<b>HORSETAIL FAMILY</b>	<i>Polystichum acrostichoides</i>	Christmas Fern
<i>Equisetum arvense</i>	Field (Common) Horsetail	<i>Pteridium aquilinum</i>	Bracken Fern
<i>Equisetum pratense</i>	Meadow Horsetail	<b>PINACEAE</b>	<b>PINE FAMILY</b>
<i>Equisetum sylvaticum</i>	Woodland Horsetail	<i>Picea glauca</i>	White Spruce
<b>OSMUNDACEAE</b>	<b>FLOWERING FERN FAMILY</b>	<b>CUPRESSACEAE</b>	<b>CYPRESS FAMILY</b>
<i>Osmunda claytoniana</i>	Interrupted Fern	<i>Juniperus communis</i>	Common Juniper
		<i>Juniperus virginiana</i>	Eastern Red Cedar

<i>Thuja occidentalis</i>	Eastern White Cedar	<i>Phleum pratense</i> *	Common Timothy
		<i>Poa compressa</i> *	Canada Blue Grass
<b>TYPHACEAE</b>	<b>CATTAIL FAMILY</b>	<i>Poa pratensis</i>	Kentucky Blue-Grass
<i>Typha latifolia</i>	Broad-leaved Cattail	<i>Sphenopholis intermedia</i>	Slender Wedge Grass
<b>SPARGANIACEAE</b>	<b>BUR-REED FAMILY</b>	<b>CYPERACEAE</b>	<b>SEDGE FAMILY</b>
<i>Sparganium eurycarpum</i>	Large-fruited (Giant) Bur-reed	<i>Carex bebbii</i>	Bebb's Sedge
		<i>Carex brevior</i>	Short-beaked Sedge
		<i>Carex comosa</i>	Bristly Sedge
<b>POTAMOGETONACEAE</b>	<b>PONDWEED FAMILY</b>	<i>Carex crinita</i>	Fringed Sedge
<i>Potamogeton amplifolius</i>	Large-leaved Pondweed	<i>Carex eburnea</i>	Ebony Sedge
		<i>Carex echinata</i>	Star/Little Prickly Sedge
<b>ALISMACEAE</b>	<b>WATER-PLANTAIN FAMILY</b>	<i>Carex flava</i>	Yellow Sedge
<i>Sagittario graminea</i>	Grassleaf Arrowhead	<i>Carex foenea</i>	Straw sedge
<i>Sagittaria latifolia</i>	Broad-leaved Arrowhead	<i>Carex intumescens</i>	Bladder (Villose) Sedge
		<i>Carex lacustris</i>	Lake Sedge
<b>HYDROCHARITACEAE</b>	<b>FROG-BIT FAMILY</b>	<i>Carex lupulina</i>	Hop Sedge
<i>Elodea canadensis</i>	Canada Water-weed (Pondweed)	<i>Carex pennsylvanica</i>	Pennsylvania Sedge
<i>Hydrocharis morsus-ranae</i>	European Frog-bit	<i>Carex retrorsa</i>	Retrorsse Sedge
		<i>Carex scoparia</i>	Pointed Broomsedge
<b>GRAMINEAE</b>	<b>GRASS FAMILY</b>	<i>Carex stipata</i>	Stalk-grain Sedge
<i>Agrostis scabra</i>	Rough Bentgrass	<i>Carex stricta</i>	Tussock Sedge
<i>Agrostis stolonifera</i>	Creeping Bentgrass	<i>Carex utriculata</i>	Northern Beaked Sedge
<i>Alopecurus aequalis</i>	Short-awn Foxtail	<i>Carex viridula</i>	Little Green Sedge
<i>Avenella flexuosa</i>	Wavy Hair-grass	<i>Dulichium arundinaceum</i>	Three-way Sedge
<i>Brachyelytrum erectum</i>	Bearded Shorthusk	<i>Eleocharis acicularis</i>	Least Spike-rush
<i>Bromus inermis</i>	Smooth/Awnless Brome	<i>Eleocharis palustris</i>	Common Spikerush
<i>Calamagrostis canadensis</i>	Canada Blue-joint	<i>Scirpus atrovirens</i>	Dark-green Bulrush
<i>Danthonia spicata</i>	Poverty Oat-Grass	<b>ARACEAE</b>	<b>ARUM FAMILY</b>
<i>Deschampsia cespitosa</i>	Tufted Hairgrass	<i>Calla palustris</i>	Water Arum
<i>Deschampsia flexuosa</i>	Crinkled Hairgrass		
<i>Dichanthelium acuminatum</i>	Tapered (Wooly) Panic Grass	<b>PONTEDERIACEAE</b>	<b>PICKEREL-WEED FAMILY</b>
<i>Dichanthelium latifolium</i>	Broad-leaf Panic Grass	<i>Pontedaria cordata</i>	Pickrel-weed
<i>Dichanthelium linearifolium</i>	Linear-leaved Witchgrass		
<i>Dichanthelium oligosanthos</i>	Panic Grass	<b>JUNCAEAE</b>	<b>RUSH FAMILY</b>
<i>Elymus hystrix</i>	Bottle Brush Grass	<i>Juncus effusus</i>	Soft (Common) Rush
<i>Elymus repens</i>	Creeping Wild-rye	<i>Juncus tenuis</i>	Path (Slender) Rush
<i>Elymus trachycaulis</i>	Slender Wheat Grass	<b>LEMNACEAE</b>	<b>DUCKWEED FAMILY</b>
<i>Glyceria canadensis</i>	Canada (Rattlesnake) Manna Grass	<i>Lemna minor</i>	Comon Duckwed
<i>Glyceria striata</i>	Fowl Manna Grass		
<i>Leersia oryzoides</i>	Rough leaved Mountan Rice	<b>PONTEDERIACEAE</b>	<b>PICKEREL-WEED FAMILY</b>
<i>Phalaris arundinacea</i>	Reed Canary Grass	<i>Pontedaria cordata</i>	Pickrel-weed

**JUNCACEAE***Juncus effusus**Juncus tenuis***RUSH FAMILY**

Soft (Common) Rush

**LILIACEAE***Clintonia borealis**Hemerocallis fulva**Maianthemum canadense* Canada Mayflower, Wild  
Lily-of-the-Valley*Maianthemum racemosum* False Solomon's Seal*Medeola virginiana* Indian Cucumber-root*Polygonatum pubescens* Hairy Solomon's Seal*Trillium erectum* Red Trillium*Trillium grandiflorum* White Trillium*Uvularia grandiflora* Large-flowered Bellwort**LILY FAMILY**

Bluebead-lily

Day Lily

**IRIDACEAE***Iris versicolor***IRIS FAMILY**

Blue Flag

**ORCHIDACEAE***Cypripedium parviflorum**Epipactis helleborine\***Spiranthes lacera***ORCHID FAMILY**

Yellow Lady-Slipper

Broad-leaved Helleborine

Slender Ladies'-tresses

**SALICACEAE***Populus grandidentata**Populus tremuloides**Salix petiolaris**Salix candida***WILLOW FAMILY**

Large-toothed Aspen

Trembling Aspen

Meadow (Slender) Willow

Hhoary Willow

**MYRICACEAE***Comptonia peregrina**Myrica gale***BAYBERRY FAMILY**

Sweet Fern

Sweet Gale (Bog Myrtle)

**JUGLANDACEAE***Juglans nigra***WALNUT FAMILY**

Black Walnut

**BETULACEAE***Alnus incana**Betula alleghaniensis**Betula papyrifera**Carpinus caroliniana**Ostrya virginiana***BIRCH FAMILY**

Speckled/ Swamp Alder

Yellow Birch

Paper Birch/White Birch

Blue Beech (American

Hornbeam)

Hop-Hornbeam

**FAGACEAE***Quercus alba**Quercus bicolor**Quercus macrocarpa**Quercus rubra***BEECH FAMILY**

White Oak

Swamp White Oak

Bur Oak

Northern Red Oak

**ULMACEAE***Ulmus americana***ELM FAMILY**

White Elm

**CANABACEAE***Humulus lupulus***INDIAN HEMP FAMILY**

Hops

**URTICACEAE***Boehmeria cylindrica***NETTLE FAMILY**

False Nettle

**SANTALACEAE***Comandra umbellata***SANDALWOOD FAMILY**

Bastard-Toadflax

**POLYGONACEAE***Fallopia clinoides**Fallopia scandens**Persicaria amphibia**Rumex britannica (orbiculatus)* Greater Water Dock*Rumex acetosella***BUCKWHEAT FAMILY**

Fringed Bindweed

Climbing False Buckweed

Water Smartweed

Sheep Sorrel

**CHENOPODIACEAE***Chenopodium album***GOOSEFOOT FAMILY**

Common Lamb's-Quarters

**CARYOPHYLLACEAE***Cerastium fontanum***PINK FAMILY**

Mouse-eared Chickweed

**CERATOPHYLLACEAE***Ceratophyllum demersum***HORNWORT FAMILY**

Common Hornwort or

Coontail

**NYMPHAEACEAE***Brasenia schreberi**Nuphar variegata**Nymphaea odorata***WATER-LILY FAMILY**

Water-shield

Variegated Pond-lily

Fragrant White Water-lily

**RANUNCULACEAE***Actaea rubra**Anemonastrum canadensis**Aquilegia canadensis**Clematis virginiana***CROWFOOT FAMILY**

Red Baneberry

Meadow (Canada)

Anemone

Columbine

Virgin's-bower



<i>Hepatica americana</i>	Round-lobed Hepatica
<i>Ranunculus abortivus</i>	Small-flowered Crowfoot
<i>Ranunculus acris</i> *	Common (Tall) Buttercup
<i>Thalictrum pubescens</i>	Tall Meadow-rue

<b>FUMARIACEAE</b>	<b>FUMITORY FAMILY</b>
<i>Capnoides sempervirens</i>	Pink (Pale) Corydalis

<b>CRUCIFERAE</b>	<b>MUSTARD FAMILY</b>
<i>Lepidium campestre</i>	Field Peppergrass
<i>Rorippa palustris</i>	Marsh Yellowcress

<b>SAXIFRAGACEAE</b>	<b>SAXIFRAGE FAMILY</b>
<i>Mitella diphylla</i>	Bishop's-cap (Mitrewort)

<b>GROSSULARIACEAE</b>	<b>GOOSEBERRY FAMILY</b>
<i>Ribes cynosbati</i>	Prickly Gooseberry
<i>Ribes nigrum</i>	Black Currant

<b>ROSACEAE</b>	<b>ROSE FAMILY</b>
<i>Amelanchier arborea</i>	Downy Serviceberry
<i>Amelanchier sanguinea</i>	Round-leaved Serviceberry
<i>Amelanchier spicata</i>	Running Serviceberry
<i>Aronia melanocarpa</i>	Black Chokeberry
<i>Comarum palustre</i>	Marsh Cinquefoil
<i>Crataegus flabellata</i>	Fan-leaf Hawthorn
<i>Crataegus sp.</i>	Hawthorn
<i>Fragaria virginiana</i>	Common (Wild) Strawberry
<i>Geum canadense</i>	White Avens
<i>Potentilla argentea</i>	Silvery Cinquefoil
<i>Potentilla recta</i> *	Sulphur Cinquefoil
<i>Potentilla simplex</i>	Common Cinquefoil
<i>Prunus pensylvanica</i>	Pin Cherry
<i>Prunus serotina</i>	Black Cherry
<i>Prunus virginiana</i>	Choke Cherry
<i>Rosa blanda</i>	Smooth Wild Rose
<i>Rubus alleghaniensis</i>	Alleghany Blackberry
<i>Rubus canadensis</i>	Canada Blackberry
<i>Rubus idaeus</i>	Red Raspberry
<i>Rubus hispidus</i>	Swamp Dewberry
<i>Rubus occidentalis</i>	Black Raspberry
<i>Rubus odoratus</i>	Purple Flowering Raspberry
<i>Rubus pubescens</i>	Dwarf Raspberry
<i>Spiraea alba</i>	Narrow-leaved Meadowsweet
<i>Spiraea tomentosa</i>	Steeplebush

<i>Geum fragarioides/ Waldsteinia</i>	Barren-Strawberry
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<b>FABACEAE</b>	<b>BEAN FAMILY</b>
<i>Amphicarpaea bracteata</i>	American Hog-peanut
<i>Apios americana</i>	Ground Nut
<i>Desmodium glutinosum</i>	Glutinous Tick-trefoil/ Pointed-leaved
<i>Desmodium paniculatum</i>	Panicked Tick-trefoil
<i>Desmodium rotundifolium</i>	Round-leaved Tick-trefoil
<i>Hylodesmum canadense</i>	Showy Tick-trefoil
<i>Medicago lupulina</i>	Black Medic
<i>Melilotus alba</i>	White Sweet-clover
<i>Trifolium aureum</i>	Hop-clover
<i>Trifolium pratense</i> *	Red Clover
<i>Trifolium repens</i> *	White Clover
<i>Vicia cracca</i> *	Tufted (Cow) Vetch

<b>GERANIACEAE</b>	<b>GERANIUM FAMILY</b>
<i>Geranium bicknellii</i>	Bicknell's Crane's-bill

<b>OXALIDACEAE</b>	<b>WOOD-SORREL FAMILY</b>
<i>Oxalis stricta</i>	European Yellow Wood-sorrel

<b>POLYGALACEAE</b>	<b>MILKWORT FAMILY</b>
<i>Polygala paucifolia</i>	Fringed Milkwort (Gaywings)

<b>ANACARDIACEAE</b>	<b>CASHEW FAMILY</b>
<i>Rhus typhina</i>	Staghorn Sumac
<i>Toxicodendron radicans</i>	Eastern Poison Ivy
<i>Toxicodendron rydbergii</i>	(Western)Poison Ivy

<b>AQUIFOLIACEAE</b>	<b>HOLLY FAMILY</b>
<i>Ilex verticillata</i>	Winterberry
<i>Nemopanthus mucronatus</i>	Mountain-Holly

<b>CELASTRACEAE</b>	<b>STAFF-TREE FAMILY</b>
<i>Celastrus scandens</i>	Climbing Bittersweet

<b>ACERACEAE</b>	<b>MAPLE FAMILY</b>
<i>Acer rubrum</i>	Red Maple
<i>Acer saccharinum</i>	Silver Maple
<i>Acer saccharum</i>	Sugar Maple

<b>BALSAMINACEAE</b>	<b>TOUCH-ME-NOT FAMILY</b>
<i>Impatiens capensis</i>	Spotted Jewel-weed

<b>RHAMNACEAE</b> <i>Rhamnus cathartica*</i>	<b>BUCKTHORN FAMILY</b> European Buckthorn	<b>ERICACEAE</b> <i>Arctostaphylos uva-ursi</i> <i>Chamaedaphne calyculata</i> <i>Gaultheria procumbens</i> <i>Monotropa hypopithys</i> <i>Monotropa uniflora</i> <i>Vaccinium angustifolium</i>	<b>HEATH FAMILY</b> Bearberry Leatherleaf Wintergreen Pinesap Indian Pipe Early Low-Bush Blueberry
<b>VITACEAE</b> <i>parthenocissus inserta</i> <i>Parthenocissus quinquefolia</i> <i>Vitis riparia</i>	<b>GRAPE FAMILY</b> Thicket Creeper Virginia Creeper Riverbank Grape		
<b>TILIACEAE</b> <i>Tilia americana</i>	<b>LINDEN FAMILY</b> Basswood	<b>PRIMULACEAE</b> <i>Lysimachia borealis</i> <i>Lysimachia terrestris</i>	<b>PRIMROSE FAMILY</b> Starflower Swamp Loosestrife (Swamp Candles)
<b>HYPERICACEAE</b> <i>Hypericum fraserii</i> <i>Hypericum perforatum</i>	<b>ST. JOHN'S-WORT FAMILY</b> Fraser's St John's-wort Common St. John's-wort	<b>OLEACEAE</b> <i>Fraxinus americana</i> <i>Fraxinus nigra</i> <i>Fraxinus pennsylvanica</i> <i>Syringa vulgaris*</i>	<b>OLIVE FAMILY</b> White Ash Black Ash Red (Green) Ash Common Lilac
<b>CISTACEAE</b> <i>Lechea intermedia</i>	<b>ROCK-ROSE FAMILY</b> Large-pod Pinweed	<b>APOCYNACEAE</b> <i>Apocynum androsaemifolium</i> <i>Apocynum cannabinum</i> <i>Apocynum sibiricum</i>	<b>DOGBANE FAMILY</b> Spreading Dogbane Indian Hemp Clasping Dogbane
<b>VIOLACEAE</b> <i>Viola sagittata</i>	<b>VIOLET FAMILY</b> Arrow-leaved Violet	<b>ASCLEPIDACEAE</b> <i>Asclepias incarnata</i> <i>Asclepias syriaca</i>	<b>MILKWEED FAMILY</b> Swamp Milkweed Common Milkweed
<b>LYTHRACEAE</b> <i>Lythrum salicaria</i>	<b>LOOSESTRIFE FAMILY</b> Purple Loosestrife	<b>LABIATAE</b> <i>Lycopus americanus</i> <i>Lycopus europaeus</i> <i>Lycopus uniflorus</i>	<b>MINT FAMILY</b> American (Cut-leaved) Water-horehound Bugleweed Water Horehound (Northern Bugleweed)
<b>ONAGRACEAE</b> <i>Oenothera biennis</i> <i>Oenothera perennis</i>	<b>EVENING-PRIMROSE FAMILY</b> Common Evening-primrose Small Sundrops	<i>Prunella vulgaris</i> <i>Scutellaria galericulata</i> <i>Scutellaria lateriflora</i>	Heal-all Marsh Skullcap Side-flowering (Mad Dog) Skullcap
<b>ARALIACEAE</b> <i>Aralia hispida</i> <i>Aralia nudicaulis</i>	<b>GINSENG FAMILY</b> Bristly Sarsaparilla Wild Sarsaparilla	<b>SOLANACEAE</b> <i>Solanum dulcamara*</i>	<b>NIGHTSHADE FAMILY</b> Bittersweet (Climbing) Nightshade
<b>UMBELLIFERAE</b> <i>Cicuta bulbifera</i> <i>Cicuta maculata</i> <i>Osmorrhiza claytoni</i>	<b>PARSLEY FAMILY</b> Bulb-bearing Water Hemlock Spotted Water (Poison) Hemlock Hairy Sweet Cicely	<b>SCROPHULARIACEAE</b> <i>Melampyrum lineare</i> <i>Verbascum thapsus*</i>	<b>FIGWORT FAMILY</b> American Cow Wheat Common Mullein
<b>CORNACEAE</b> <i>Cornus drummondii</i> <i>Cornus obliqua</i> <i>Cornus canadensis</i> <i>Cornus racemosa</i> <i>Cornus rugosa</i>	<b>DOGWOOD FAMILY</b> Rough-leaved Dogwood Silky Dogwood Bunchberry Grey Dogwood Round-leaved Dogwood		

*Veronica scutellata* Marsh Speedwell

**LENTIBULARIACEAE      BLADDERWORT  
FAMILY**

*Utricularia vulgaris* Common (Greater)  
Bladderwort

**PLANTAGINACEAE      PLANTAIN FAMILY**

*Plantago major* Broad-leaved (Common) Plantain  
*Plantago rugelii* Rugel's (Blackseed) Plantain

**RUBIACEAE      MADDER FAMILY**

*Cephalanthus occidentalis* Buttonbush  
*Galium asprellum* Rough Bedstraw  
*Galium labradoricum* Bog Bedstraw  
*Galium trifidum* Three-petalled Bedstraw  
*Galium triflorum* Fragrant Bedstraw  
*Mitchella repens* Partridge-berry

**CAPRIFOLIACEAE      HONEYSUCKLE FAMILY**

*Diervilla lonicera* Northern Bush Honeysuckle  
*Linnaea borealis* Twinflower  
*Lonicera dioica* Glaucous Honeysuckle  
*Lonicera hirsuta* Hairy Honeysuckle  
*Symphoricarpos albus* Thin-leaved Snowberry  
*Viburnum acerifolium* Maple-leaved Viburnum  
*Viburnum lentago* Nannyberry  
*Viburnum rafinesquianum* Downy Arrowwood

**CAMPANULACEAE      HAREBELL FAMILY**

*Campanula aparinoides* Marsh Bellflower  
*Campanula rotundifolia* Harebell

*Campanula uliginosa* Large-flowered Marsh  
Bellflower

**LOBELIACEAE      LOBELIA FAMILY**

*Lobelia cardinalis* Cardinal flower

**COMPOSITAE      COMPOSITE FAMILY**

*Doelleringia umbellatus* Flat-topped White Aster  
*Erigeron annuus* Annual Fleabane (Daisy Fleabane)  
*Erigeron strigosus* Rough (Lesser Daisy) Fleabane  
*Eupatorium perfoliatum* Common Boneset  
*Eurybia macrophyllus* Large-leaved Aster  
*Euthamia graminifolia* Grass-leaved Goldenrod  
*Eutrochium maculatum* Spotted Joe-pye-weed  
*Helianthus divaricatus* Woodland Sunflower  
*Helianthus giganteus* Giant Sunflower  
*Lactuca canadensis* Canada Lettuce (Wild Lettuce)  
*Leucanthemum vulgare\** Ox-eye Daisy  
*Nabalus albus* (White-lettuce) White  
Rattlesnakeroot  
*Nabalus altissimus* Tall (White-Lettuce)  
Rattlesnakeroot  
*Pilosella aurantiacum\** Orange Hawkweed  
*Pilosella piloselloides* Tall Hawkweed  
*Rudbeckia hirta* Black-eyed Susan  
*Solidago caesia* Blue-stemmed Goldenrod  
*Solidago canadensis* Canada Goldenrod  
*Solidago nemoralis* Gray Goldenrod  
*Solidago rugosa* Rough-stemmed Goldenrod  
*Symphyotrichum cordifolium* Heart-leaved Aster  
*Symphyotrichum lateriflorum* Calico Aster  
*Tragopogon pratensis\** Meadow Goat's-beard

## 4.5 Non-Vascular Plants

### 4.5.1 Mosses

*Anomodon attenuatus* Slender anomodon; Poodle  
moss  
*Asnomodon rostratus* Yellow Yarn Moss  
*Atrichum altecristatum* Ridged smoothcap moss;  
Wavy starburst moss  
*Aulacomnium palustre* Ribbed bog moss  
*Bartramia pomiformis* Common apple moss  
*Brachythecium campestre* Field ragged moss;  
Golden foxtail moss

*Brachythecium curtum* Short-leaved ragged moss  
*Brachythecium falcatum* Falcate Ragged Moss  
*Brachythecium laetum* Pleated Foxtail Moss  
*Brachythecium plumosum* Rusty ragged moss  
*Brachythecium populeum* Matted ragged moss  
*Bryhnia novae-angliae* New England mat moss;  
Bonsai moss  
*Bryum laevifilum* Syed's Bryum  
*Bryum pseudotriquetrum* Common Green Bryum  
Moss

<i>Callicladium haldanianum</i>	Beautiful branch moss; Sword moss	<i>Neckera pennata</i>	Shingle Moss
<i>Calliergon cordifolium</i>	Heart-leaved Spear Moss	<i>Orthotrichum obtusifolium</i>	Blunt-leaved bristle moss
<i>Campyliadelphus chrysophyllus</i>	Golden creeping moss	<i>Orthotrichum ohioense</i>	Ohio bristle moss
<i>Ceratodon purpureus</i>	Fire moss; Purple moss	<i>Orthotrichum stellatum</i>	Bald Bristle Moss
<i>Climacium dendroides</i>	Northern tree moss; Palm tree moss	<i>Philonotis fontana</i>	Fountain Moss
<i>Dichelyma capillaceum</i>	Hairlike Claw Moss	<i>Philonotis marchica</i>	Bog apple moss
<i>Dicranum flagellare</i>	Whip broom moss; Asparagus broom moss	<i>Plagiomnium cilare</i>	Sabre Tooth Moss
<i>Dicranum fulvum</i>	Fine-leaved Broom Moss; Boulder broom moss	<i>Plagiomnium cuspidatum</i>	Woodsy leafy moss; Baby tooth moss
<i>Dicranum montanum</i>	Mountain broom moss; Crispy broom moss	<i>Plagiothecium cavifolium</i>	Round silk moss
<i>Dicranum scoparium</i>	Common broom moss; Windswept broom moss	<i>Plagiothecium denticulatum</i>	Wet Silk Moss
<i>Dicranum viride</i>	Green broom moss; Brittle broom moss	<i>Plagiothecium laetum</i>	Bright silk moss
<i>Entodon seductrix</i>	Cord Glaze Moss	<i>Platygyrium repens</i>	Flat-brocade moss; Oil-spill moss
<i>Eurhynchiastrum pulchellum</i>	Rug Moss	<i>Pleurozium schreberi</i>	Red-stemmed feather moss; Phoenix feather moss
<i>Fissidens adianthoides</i>	Maidenhair Pocket Moss	<i>Pohlia cruda</i>	Opal Nodding Moss
<i>Fissidens bryoides</i>	Pyxie Pocket Moss	<i>Pohlia nutans</i>	Copper Wire Moss
<i>Fissidens dubius</i>	Rock pocket moss; Fan pocket moss	<i>Polytrichum commune</i>	Common haircap moss
<i>Fontinalis sphagnifolia</i>	Sphagnum-like water moss	<i>Polytrichum juniperinum</i>	Juniper haircap moss
<i>Grimmia muehlenbeckii</i>	Muehlenbeck's grimmia	<i>Polytrichum piliferum</i>	Bristly haircap moss
<i>Hedwigia ciliata</i>	Ciliate Hedwig's moss; Medusa moss	<i>Pseudotaxiphyllum distichaceum</i>	Scimitar Silk Moss
<i>Homalia trichomanoides</i>	Frog Skin Moss	<i>Pterigynandrum filiforme</i>	Capillary Wing-moss
<i>Hygroamblystegium varium</i>	Willow feather moss; Tangled thread moss	<i>Pylasiapolyantha</i>	Stiff Paintbrush Moss
<i>H. varium (tenax)</i>		<i>Pylaisia selwynii</i>	Selwyn's pylaisia; Paintbrush moss
<i>Hylocomium splendens</i>	Stairstep Moss	<i>Rhizomnium punctatum</i>	Red Penny Moss
<i>Hypnum cupressiforme</i>	Cypress-leaved plait moss	<i>Rhodobryum ontariense</i>	Rose Moss
<i>Hypnum lindbergii</i>	Lindberg's plait moss; Pale plait moss	<i>Saelnia glaucesens</i>	Cobweb Moss
<i>Hypnum pallescens</i>	Stump plait moss; Lesser plait moss	<i>Schistidium apocarpum</i>	PricklyCannikin Moss
<i>Leskea polycarpa</i>	Many-fruited Leske's moss; Curled chain moss	<i>Schistidium rivulare</i>	Brook Cannikin Moss
<i>Leskeella nervosa</i>	Frayed String Moss	<i>Sphagnum centrale</i>	Central peat moss
<i>Leucobryum glaucum</i>	White pincushion moss; Pincushion moss	<i>Sphagnum fimbriatum</i>	Fringed peat moss
<i>Leucodon scuiroides</i>	Squirrel-tail Moss	<i>Sphagnum subsecundum</i>	Orange peat moss; Cow-horn peat moss
<i>Mnium lycopodioides</i>	Ambiguous Thyme Moss	<i>Syntrichia ruralis</i>	Talon Moss
<i>Myurella julacea</i>	Stubby Mousetail Moss	<i>Thuidium assimile</i>	Philibert's fern moss
		<i>Thuidium delicatulum</i>	Delicate Fern Moss
		<i>Thuidium recognitum</i>	Kilt Fern Moss
		<i>Tortella tortuosa</i>	Twisted Moss
		<i>Trichostomum tenuirostre</i>	Narrow-fruited Crisp Moss
		<i>Ulotia crispula</i>	Crisped pincushion moss; Crispy tuft moss
		<i>Ulotia hutchinsiae</i>	



#### 4.5.2 Liverworts

<i>Barbilophozia barbata</i>	Bearded Pawwort
<i>Chiloscyphus profundus</i>	Variable-leaved Crestwort
<i>Frullania eboracensis</i>	New York Scalewort
<i>Jamesoniella autumnalis</i>	Autumn Flapwort
<i>Lejeunea cavifolia</i>	Least Pouncewort
<i>Lophocolea minor</i>	Lesser Crestwort
<i>Lophozia ventricosa</i>	Tumid Notchwort

<i>Metzgeria furcata</i>	Forked Veilwort
<i>Pellia</i> sp	
<i>Plagiochila porelloides</i>	Lesser Featherwort
<i>Porella pinnata</i>	Pinnate Scalewort
<i>Porella platyphylla</i>	Wall Scalewort
<i>Ptilidium ciliare</i>	Ciliated Fringewort
<i>Ptilidium pulcherrimum</i>	Tree Fringewort
<i>Radula complanata</i>	Flattened Scalewort
<i>Scapania nemorea</i>	Grove Earwort

### 4.6 Fungi

#### 4.6.1 Fungi

<i>Amanita flavorubens</i>	Yellow American Blusher
<i>Amanita muscaria</i>	American Yellow Fly Agaric
<i>Cantharellus cibarius</i>	Chanterelle
<i>Coprinellus micaceus</i>	Mica Cap
<i>Exidia glandulosa</i>	Black Witch's Butter
<i>Favolaschia calocera</i>	Orange Pore Fungus
<i>Gymnopus dryophilus</i>	Oak-loving Gymnopus
<i>Hygrophoropsis aurantiaca</i>	False Chanterelle
<i>Kuehneromyces mutabilis</i>	Sheathed Woodtuft
<i>Mycena</i> sp.	Bonnets
<i>Omphalotus illudens</i>	Jack O'Lantern
<i>Pluteus cervinus</i>	Deer Mushroom
<i>Polyporus alveolarus</i>	Hexagonal-pored Polypore
<i>Scutellinia scutellata</i>	Eyelash Cups
<i>Stereum complicatum</i>	Crowded Parchment
<i>Trichaptum abietinum</i>	Purplepore Bracket
<i>Trichaptum bifforme</i>	Violet-toothed polypore

#### 4.6.2 Lichens

<i>Cladonia chlorophaea</i>	Mealy Pixie Cup
<i>Cladonia pleurota</i>	Red-fruited Pixie Cup
<i>Cladonia pyxidata</i>	Pebbled Pixie Cup
<i>Cladonia rangiferina</i>	Gray Reindeer Lichen
<i>Cladoniastellaris</i>	Star-tipped Reindeer Lichen
<i>Dermatocarpon luridum</i>	Brook Stippleback Lichen
<i>Leptogium cyanscens</i>	Blue Vinyl
<i>Lobaria quercizans</i>	Smooth Lungwort
<i>Parmelioideae</i> subfamily	Parmelia sp
<i>Peltigera elisabethae</i>	Dog lichen
<i>Peltigera leucophlebia</i>	Ruffled Freckled Pelt
<i>Punctelia rudecta</i>	Rough Speckled Shield Lichen
<i>Ramelina intermedia</i>	Strap Lichen
<i>Xanthmendoza hasseana</i>	Poplar Sunburst Lichen
<i>Umbellicaria mammulata</i>	Smooth Rock Tripe

## 5 Kingston Region Birds—Spring 2021 (March 1 to May 31)

by Mark D. Read

The KFN reporting area is centred on MacDonald Park, Kingston and extends for a radial distance of 50km. An interactive map showing the KFN circle is available on the website. If errors are noted or significant observations omitted, please contact me and I will update accordingly. We also encourage you to submit *all* sightings, so that a better understanding of our region's birdlife can be achieved. Members already using eBird can very easily share

their sightings with the username 'Kingston FN'. Alternatively, please email or phone me directly with your sightings ([markdread@gmail.com](mailto:markdread@gmail.com) / 613-217-1246). Please note the total below includes the following 4 species that remain unconfirmed until accepted by the Rare Birds Committee: **American White Pelican, Cataraqui Bay, Kingston, 24 May; Say's Phoebe, Amherst Island, 29 March to 6 April; Townsend Solitaire, Waterton 25 Febru-**

**ary to 12 March; Yellow-throated Warbler, Prince Edward Point, 2 May.**

In total, **248 species of bird** were recorded in our region during the reporting period, six more than last year's total of 242. All observations were obtained from eBird ([ebird.ca](http://ebird.ca)), though the number of checklists being shared with the KFN account has declined. In total, 641 observers logged 8986 checklists, equating to 137 221 sightings, a surprising increase over last spring considering the travel restrictions around COVID-19. As usual, an impressive number of individual birds (1 002 355) were recorded, though many of these were, of course, the same birds seen on subsequent days. A huge thank you goes out to every observer, without whom our understanding of bird distribution would be far more limited. Unfortunately, only observers with sightings in the current report are noted below.

The spring of 2021 will be remembered for the continuing impact of COVID-19. The weather was also rather unpredictable, swinging from mild to cold and back again on several occasions. Shorebird habitat was much improved with lower water levels in Lake Ontario though the amount of rainfall (that typically creates flooded fields) was noticeably lower. Here are the highlights of spring 2021:

**Snow Goose:** There were 33 reported observations of the species this spring, with the first (2) at Perch River WMA, NY, on 6 March (LyS). A high count of 3000 came from Watertown, NY on 12 March (RiB), with the last (1) at Woodburn Rd on 29 April (DCRB).

**Brant:** Dates for this species ranged from 8 May at Amherstview (BMDL) to 25 May at Moscow Marsh (LuB). A high count of 1700 birds came from Verona on 20 May (TAN).

**Cackling Goose:** There were just 3 reports this spring with a high count of 5 on Amherst Island on 13 March (EOB).

**Trumpeter Swan:** Birds were regular along the Rideau Canal throughout the period but decreased in numbers as the birds moved away to breed on smaller lakes in the area in April/May (KFN).

**Tundra Swan:** It was a better season for this species with more than 50 records, mainly from the islands and shores of Lake Ontario where a high of 165 was seen at Point Peninsula, NY, on 21 March (StK).

**Blue-winged Teal:** The first record for the year was of 4 exceptionally early birds seen on 5<sup>th</sup> Line, Wolfe Island, on 11 March (MDR).

**Eurasian Wigeon:** An adult male was seen at Sand Bay, Invista (Kingston), from 23-25 March (KSB).

**Canvasback:** There were just 3 records this spring, all of singles at Lemoine Point, Invista and Gray's Creek.

**Redhead:** Good numbers were seen across the area this spring with 3500 seen at Waupoos Marina on 13 March (PaJ).

**Black Scoter:** There were 14 records this year, all from the Prince Edward Point area; a high count of 28 was noted on 17 May on Long Point Road (PhM et al).

**Ring-necked Pheasant:** There were 41 records this spring from the main locations of Amherst Island and Point Peninsula, NY, with a handful of reports from Napanee Limestone Plain IBA.

**Red-necked Grebe:** There were 10 records of this species this spring with a high of 7 birds seen near Waupoos on 9 April (AnE, RKFE).

**Sandhill Crane:** This species is showing a remarkable increase in the area. Just last spring, I was happy to share news of the 44 records received but 2021 saw an impressive 88! A high count of 5 birds came from Russell Road on 25 March (LaM, JET).

**Whimbrel:** There were 10 records this spring with a high count of 17 at Prince Edward Point on 27 May (JeD et al).

**Ruddy Turnstone:** Four birds were seen on Snake Island on 21 May (PhH), with a single at Prince Edward Point on 25 May (anon).

**Red Knot:** A single bird was at Martin Edwards Reserve, Amherst Island, on 27 May (NAK, CaK, RiL, KeR).

**White-rumped Sandpiper:** A single bird was present at Kaiser Cross Road, Prince Edward, 22-23 May (RKB et al).

**Pectoral Sandpiper:** Twenty-four birds were seen at Martin Edwards Reserve, Amherst Island, on 17 May (ShJ), with 2 remaining until 19 May. 1-2 birds were also present at Kaiser Cross Road 17-19 May (PhM et al).

**Short-billed Dowitcher:** The first of the season was seen on Wolfe Island on 15 May (MDR), with a high of 10 seen at Martin Edwards Reserve, Amherst Island, on 19 May (KFN).

**Wilson's Phalarope:** The first birds (5) were seen on 8 May (VPM), at Martin Edwards Reserve, Amherst Island, with a high count of 12 noted there on 19 May (KFN).

**Little Gull:** There were 19 records this year, though numbers were generally low. Ten birds were seen at Martin Edwards Reserve, Amherst Island, on 25 April (AnE, RKFE). Other locations included Kaiser Cross Road and Wolfe Island.

**Lesser Black-backed Gull:** There were 4 records this spring; an adult on Wolfe Island 11-15 April (MDR et al); 1, Prince Edward Point, 27 April (PaJ); 1, Waupoos Marina, 9 May (ToH, KoH); and another on Wolfe Island, 16 May (AIS).

**Black Tern:** The first birds of the spring (3) were seen at Perch River WMA, NY, on 7 May (ToA). A high count of 30 birds came from Camden Lake on 25 May (LuB).

**Red-throated Loon:** Two birds were seen this spring; the first at Martin Edwards Reserve, Amherst Island, on 20 May (DoR), and the second at Prince Edward Point the following day (MaT).

**Common Loon:** The first bird of the season was seen on the Gananoque waterfront on 17 March (BMDL).

**American Bittern:** The first bird of the year was heard near Seeley's Bay on 9 April (GaU).

**Least Bittern:** There were 19 records this spring with the first at Marble Rock Road on 30 April (BON).

**Glossy Ibis:** A lone bird was seen and photographed at Perch River WMA, NY, on 21 May (BrM).

**Osprey:** The first of the year was seen on Wolfe Island on 26 March (MDR).

**Golden Eagle:** There were 5 records this spring from a number of locations; 1 at Bedford Mills on 2 March (JAL); 1 near Gould Lake on 4 March (DaK); 1 on Blue Mountain Road 12 March (JET); 1 at Amherstview on 7 May (BER); and one at Millhaven on 13 May (KJH).

**Snowy Owl:** It was a fairly poor season with a high of just 5 birds on Amherst Island, and very few records from Wolfe. The last was seen on Amherst on 27 April (DoR).

**Long-eared Owl:** Away from Amherst Island, a bird was noted calling near Storms Corners on 21 March with two on Fourth Lake Road on 26 April (KJH).

**Northern Saw-whet Owl:** All but one record came from Amherst Island where no more than 2 birds were noted.

**Red-headed Woodpecker:** There were 18 records this spring from 5 locations, with a high count of 2 on James Wilson Road (near Frontenac Provincial Park) on 23 May (KFN).

**Peregrine Falcon:** There were many records across the region this spring with breeding confirmed or expected at Kingston, Gananoque and the OPG station, near Bath.

**Olive-sided Flycatcher:** There were just 2 records this spring. The first was seen on Amherst Island on 22 May (NaM et al), and the second was near Codes Corners on 27 May (HeC).

**Yellow-bellied Flycatcher:** There were 22 records this spring with a high count of 3 at Prince Edward Point on 22 May (JeB).

**Loggerhead Shrike:** The first bird of the year was seen at Napanee Limestone Plain IBA on 30 March (CrE).

**Northern Shrike:** The last bird of the season was

seen at Napanee Limestone Plain IBA on 6 April (KJH), illustrating the overlap in dates between the two species.

**Tufted Titmouse:** There were a good number of records this spring (24). Many of these observations came from the US side of the border but birds were also noted at several locations in the general Kingston area with a long-staying bird entertaining visitors at Hillview Park through to April.

**Sedge Wren:** A single bird was seen/heard on California Road on 27 May (BER) and 31 May (PhW).

**Carolina Wren:** There were 57 records this spring, an amazing number. Many of these were long-staying birds but there does seem to be a genuine upturn in the number of birds in the Kingston area.

**Northern Mockingbird:** There were 19 records of this species, but the vast majority came from either the Prince Edward Point area or Amherst Island.

**Grey-cheeked Thrush:** There were 9 spring records this year; the first at Marshlands CA, Kingston, on 16 May (BER) and the last, also at Marshlands CA, on 24 May (NAK).

**Evening Grosbeak:** There were 42 records this spring from across the area, though many of those were in May as birds, presumably, returned north. The last record was of 2 birds on Canoe Lake Road on 28 May (EOB).

**Pine Grosbeak:** The only record (after a pretty good winter) was of a single bird near Verona on 10 March (TAN).

**Common Redpoll:** The bumper year for this species continued into the spring. The largest single flock (of 185) was seen in Kingston on 8 March (MaK).

**Hoary Redpoll:** After the 149 reports over the winter, an additional 66 were received in the spring. Often associating with Common Redpolls, their numbers were much lower with highs of just 2-3 birds.

**Red Crossbill:** There were an additional 35 reports of this irruptive species this winter with a high count of 18 in downtown Kingston on 7 April

(CoG).

**White-winged Crossbill:** There were just 5 further reports this spring with a high count of 8 from Kingston on 12 Mar (JaD).

**Pine Siskin:** This species remained loyal to a few private feeders but was generally quite tricky to see. A high count of 14 was received from Prince Edward Point on 5 May (BMDL).

**Lapland Longspur:** There were just 3 reports with a high (and last report) of 4 seen on Wolfe Island on 9 March (MDR).

**Orchard Oriole:** It was a very great season with 56 records, the first of which were 2 birds seen at Prince Edward Point on 2 May (MJP).

**Rusty Blackbird:** The first birds of the season (2) were seen near Perch River, NY, on 14 March (StK). A high count of 100 came from Verona on 12 May (TAN).

**Louisiana Waterthrush:** There were several records this year of up to 2 birds at their regular location of Canoe Lake Road.

**Golden-winged and Blue-winged Warbler:** It was another great year for this species pair with Golden-winged Warbler more common (109) and widespread than the Blue-winged Warbler (58 reports). The latter was mainly seen at locations south of, or just on, the shield.

**Orange-crowned Warbler:** The first of just 6 records came from Camden East Alvar where 2 were seen and heard on 9 May (WTD, KAW).

**Mourning Warbler:** It was a better year than last with 19 reports, the first of which came from Parrott's Bay on 16 May (NiB).

**Hooded Warbler:** A beautiful male was photographed at Lemoine Point CA, Kingston, on 3 May (PhH). Another was seen near Robert Wehle SP, NY, on 17 May (GrL). One or more birds were seen at Prince Edward Point on 21 May (MaT) and 22 May (AnE, RKFE).

**Cerulean Warbler:** It was an average season for this species with 30 records though some of those



were impressive like the 13 noted at Frontenac Provincial Park on 31 May (DaD).

**Prairie Warbler:** It was a good year for this species in our area though the vast majority of records came from the traditional breeding areas of Chaumont Barrens. However, several birds were also noted on this side of the border with a very impressive total of 6 birds noted at Fishing Lake Road (WTD, KAW) on 16 and 30 May.

**Canada Warbler:** The first bird of the season was seen at Lemoine Point CA, Kingston, on 15 May (JaD).

**Other species observed during the reporting period:** Canada Goose, Mute Swan, Wood Duck, Northern Shoveler, Gadwall, American Wigeon, Mallard, American Black Duck, Northern Pintail, Green-winged Teal, Ring-necked Duck, Greater Scaup, Lesser Scaup, Surf Scoter, White-winged Scoter, Long-tailed Duck, Bufflehead, Common Goldeneye, Hooded Merganser, Common Merganser, Red-breasted Merganser, Ruffed Grouse, Wild Turkey, Pied-billed Grebe, Horned Grebe, Rock Pigeon, Mourning Dove, Yellow-billed Cuckoo, Black-billed Cuckoo, Common Nighthawk, Eastern Whip-poor-will, Chimney Swift, Ruby-throated Hummingbird, Virginia Rail, Sora, Common Gallinule, American Coot, Black-bellied Plover, Semipalmated Plover, Killdeer, Upland Sandpiper, Dunlin, Least Sandpiper, Semipalmated Sandpiper, American Woodcock, Wilson's Snipe, Spotted Sandpiper, Solitary Sandpiper, Greater Yellowlegs, Lesser Yellowlegs, Bonaparte's Gull, Ring-billed Gull, Herring Gull, Iceland Gull, Glaucous Gull, Great Black-backed Gull, Caspian Tern, Common Tern, Double-crested Cormorant, Great Blue Heron, Great Egret, Green Heron, Black-crowned Night-Heron, Turkey Vulture, Northern Harrier, Sharp-shinned Hawk, Cooper's Hawk, Northern Goshawk, Bald Eagle, Red-shouldered Hawk, Broad-winged Hawk, Red-tailed Hawk, Rough-legged Hawk, Eastern Screech-Owl, Great Horned Owl, Barred Owl, Short-eared Owl, Belted Kingfisher, Yellow-bellied Sapsucker, Red-bellied Woodpecker, Downy Woodpecker, Hairy Woodpecker, Pileated Woodpecker, Northern Flicker, American Kestrel, Merlin, Eastern Wood-Pewee, Alder Flycatcher,

Willow Flycatcher, Least Flycatcher, Eastern Phoebe, Great Crested Flycatcher, Eastern Kingbird, Yellow-throated Vireo, Blue-headed Vireo, Philadelphia Vireo, Warbling Vireo, Red-eyed Vireo, Blue Jay, American Crow, Common Raven, Black-capped Chickadee, Horned Lark, Northern Rough-winged Swallow, Purple Martin, Tree Swallow, Bank Swallow, Barn Swallow, Cliff Swallow, Golden-crowned Kinglet, Ruby-crowned Kinglet, Red-breasted Nuthatch, White-breasted Nuthatch, Brown Creeper, Blue-grey Gnatcatcher, House Wren, Winter Wren, Marsh Wren, European Starling, Grey Catbird, Brown Thrasher, Eastern Bluebird, Veery, Swainson's Thrush, Hermit Thrush, Wood Thrush, American Robin, Bohemian Waxwing, Cedar Waxwing, House Sparrow, American Pipit, House Finch, Purple Finch, American Goldfinch, Snow Bunting, Grasshopper Sparrow, Chipping Sparrow, Clay-coloured Sparrow, Field Sparrow, American Tree Sparrow, Fox Sparrow, Dark-eyed Junco, White-crowned Sparrow, White-throated Sparrow, Vesper Sparrow, Savannah Sparrow, Song Sparrow, Lincoln's Sparrow, Swamp Sparrow, Eastern Towhee, Bobolink, Eastern Meadowlark, Baltimore Oriole, Red-winged Blackbird, Brown-headed Cowbird, Common Grackle, Ovenbird, Northern Waterthrush, Black-and-white Warbler, Tennessee Warbler, Nashville Warbler, Common Yellowthroat, American Redstart, Cape May Warbler, Northern Parula, Magnolia Warbler, Bay-breasted Warbler, Blackburnian Warbler, Yellow Warbler, Chestnut-sided Warbler, Blackpoll Warbler, Black-throated Blue Warbler, Palm Warbler, Pine Warbler, Yellow-rumped Warbler, Black-throated Green Warbler, Wilson's Warbler, Scarlet Tanager, Northern Cardinal, Rose-breasted Grosbeak, Indigo Bunting.

**Observers:** Michael Arthurs (MiA), Tom Auer (ToA), Nick Bartok (NiB), Luke Berg (LuB), Eastern Ontario Birding (EOB), R. Kyle Blaney (RKB), Kevin S. Bleeks (KSB), Jessica Bao (JeB), Heidi Csernak (HeC), Dianne Croteau/Richard Brault (DCRB), Richard Brouse (RiB), James Darling (JaD), Jess Daze (JeD), William T. Depew (WTD), Dan Derbyshire (DaD), Bruce M. Di Labio (BMDL), Andrew Edwards (AnE), R. Ken F. Edwards (RKFE), Craig Evans (CrE), Cole Gaerber (CoG), Todd Hagedorn (ToH), Stewart Hamill (StH), Phil

Harvey (PhH), Kurt J. Hennige (KJH), Kathryn Hoo (KaH), Sherri Jensen (ShJ), Paul Jones (PaJ), Carl Kaduck (CaK), N. Anthony Kaduck (NAK), Steve Kelling (StK), Marlene Kraml (MaK), Dale Kristensen (DaK), Greg Lawrence (GrL), John Licharson (JAL), Richard Lott (RiL), Lana Marion (LaM), Phillip Mercier (PhM), Brian Miller (BrM), Nathan Miller (NaM), Barbara O'Neill (BON),

Kingston Field Naturalists (KFN), Todd A. Norris (TAN), Mark J. Patry (MJP), Gerard Phillips (GeP), Mark D. Read (MDR), Bruce Ripley (BER), Dorlisa Robinson (DoR), Kenneth Ross (KeR), Lynn Sprott (LyS), Alex Stone (AlS), Matthew Tobey (MaT), James E. Thompson (JET), Gary Ure (GaU), Kathy A. Webb (KAW), Philip Wright (PhW).

## 6 Articles

### 6.1 Exploring the Backyard: Getting to Know the Woodlot Part 1

by Carolyn Bonta

#### Part 1: Animal and Plant Life

Last fall, I wrote about now having two “backyards:” one around my home in Kingston and the other a woodlot north of Verona. As the first full year of being steward to a beautiful 143 acre parcel of forest, field, swamp, and pond comes to a close, I take time to reflect on what these lands have shown me over the seasons. This is the first of a two-part reflection.

In July 2020 we began to compile a species list for the woodlot, including species physically present within its bounds or its “directly-above airspace” – Sandhill Crane and Common Loon are examples in this latter category – but not including species found on the nearby road or heard on adjacent properties. We rely on sight, sound, tracks, and a trail camera, but no traps yet. Some taxa are more familiar to us than others, so our list is more comprehensive with regards to birds (85 species), mammals (16 species), herptiles (13 species), trees (30 species), and ferns (at least 9 species) but I’m excited by the challenge of identifying other life forms. Most interesting, however, has been getting to know the habits of wildlife, the life stages of plants, and the seasonality of insects and fungi through the months.

Late last summer, we were tickled pink when several large Fly Agaric mushrooms appeared

throughout our campsite area. And by large, I mean large – two were nearly dinner plate sized! As the profusion of this species died off and fall rains began, cheerful little worm-like (*Clavaria fragilis*) and rosy club (*Clavaria rosea*) corals poked up everywhere. Other fungi made themselves known as well: we admired the brilliant lime green of young Parrot Waxcap and enjoyed “helping” Pear-shaped Puffball propagate its ripe spores. We also giggled at the paintball effect of bursting premature Wolf’s Milk slime mould, a life form that superficially resembles a fungus (and indeed was once within Kingdom Fungi) but that is now understood to have characteristics of fungi, plants, and animals. By default of not quite fitting everywhere, slime moulds thus fit nowhere and are now classified within Kingdom Protista. While exploring the woodlot on snowshoe during the winter, a large and stunningly beautiful bracket fungus caught our attention but we were unable to identify it. This spring, morels were a welcome addition to our woodlot diet, pairing nicely with fiddleheads (young Ostrich Fern) and steamed Garlic Mustard.

After years of overlooking Prickly Ash as simply another obstacle during fieldwork, my appreciation for this native species has grown. Often while cycling the K&P Trail in late summer and early fall, I’ve noticed a pleasant citrus scent. But from what? In reading about Prickly Ash, which grows densely in two areas of the woodlot, I learned that

this species, which I've long known that, despite its ash-like leaves is not *Fraxinus* but instead *Zanthoxylum*, is not even in the olive family (as are the true ashes) but in the citrus family. Mystery solved! And recently I was reminded by fellow KFN member Gary Hillaby that Prickly Ash is the primary food source for Giant Swallowtail – a butterfly we frequently see in the woodlands surrounding one of the two patches of Prickly Ash. Similar to the relationship between Monarchs and milkweed, orange dogs (as Giant Swallowtail caterpillars are called) have digestive systems that can handle the furanocoumarins that would otherwise make Prickly Ash toxic. Furanocoumarins are chemicals produced by plants in the citrus and parsley families, believed to aid primarily in defending the plant against fungal pathogens. I'm now on the lookout for orange dogs among the Prickly Ash, but not sure I've quite developed a search image for bird droppings that resemble snake heads!



**Figure 15:** Clockwise from top left: mature Fly Agaric; Worm-like Coral; Pear-shaped Puffball; young Parrot Waxcap. (M. Johnson)

This year was a snowy winter, perfect for observing tracks. We noticed that the Prickly Ash thickets are important travel corridors for *Lepus*, which we suspect are Eastern Cottontail but this species is not yet confirmed. Compared to hares, rabbits are more social, with a tendency to hide from danger rather than run, and thus more likely to present the heavily trodden paths through dense shrubbery than the solitary Snowshoe Hares that we encountered regularly – by track and by sight – in the more open woodland habitat. An area of Eastern White

Cedar rimming a maple swamp and a mature Eastern Hemlock grove both confirmed their winter importance as yarding areas for deer, with numerous tracks and droppings, nipped buds, and flattened areas where deer had bedded down. Tracks in the snow also revealed that the two porcupines inhabiting a large, dead cavity tree only traveled to two other feeding trees all winter.



**Figure 16:** The first photo taken by our trail camera was of a Fisher, a species we hadn't yet (or since) observed. Habitat in this area is dense Speckled Alder transitioning to Eastern White Pine. (C. Bonta / M. Johnson)

Come spring, animals were on the move. Looking out over the regenerating sandpit, it was hard to picture that, hardly 30 years ago, large machinery operated over a devastated landscape stripped of top cover. Now, Mourning Cloaks warmed their bodies in the sun, the first of many species of butterfly that will abound both within the meadow and along the forest edge through the warmer months ahead. Early one evening, I watched a young beaver lope across the open field in search of a pond of its own to call home. Painted Turtles emerged from the sandy nests where they had overwintered and one morning we crossed paths with a large Blanding's Turtle traveling between wetlands. As a child, I was obsessed with turtles and practically memorized the species descriptions in "A Golden Guide: Reptiles and Amphibians." I really wanted a pet Blanding's Turtle, wooed by the guide's description that "This shy turtle tames easily and will make a good pet if kept in a large, shallow pan of water." Goodness, what a horrid and outdated statement that is now! I'm proud to say that the Blanding's Turtles that share my company now are wild and free-ranging across the extensive Piccadilly Swamp Provincially Significant Wetland.



**Figure 17:** If 11 year old me had known one day I'd have a swamp with Blanding's Turtles, I wouldn't have slept for 35 years! (C. Bonta)

Last summer, a neighbour pointed out Halberd-leaved Tearthumb growing in a damp area at swamp edge. This plant from the Smartweed family, so-named "tear thumb" as a possible consequence to the tiny prickles on its stem, is ranked S3 ("Vulnerable") in Ontario. We tried to locate the plant again this summer, but the site is closely guarded by Stinging Nettle and we decided to spare our skin and look for the tearthumb another year – preferably one in which our epidermis isn't already ravaged by rash from LD Moth caterpillar hairs. Because what an assault those horrid critters caused to our bodies and woodlot's trees this year!

In fact, 2021 was focused on trees and this will be the topic of the second part of my end-of-year woodlot reflection... stay tuned.

## 6.2 Wildlife Photography Tips #9—Manual Mode

*by Anthony Kaduck*

As a pandemic make-work project I went through and reclassified about 20 000 of my images, going back to 2005 when we got our first digital camera. Looking through the bird photographs in particular I could see that I have been on a bit of a journey. Increasing experience and investment in better equipment showed up as progressively better images

So I now find myself not content to just get another decent image of a bird – I want images of better quality that show the bird and its environment clearly and even (not as often as I would hope) artistically.

(n.b. If the best image available is going to be of poor quality I may still take it – mainly to keep those eBird county recorders - I'm looking at you, Mark and Kurt ☺ – satisfied that I did see what I claimed to see!)

As I mentioned in the previous installment of this column, automatic modes such as aperture priority and shutter priority are a good way to become familiar with the capabilities of the camera, but they both involve trade-offs. I have used both modes extensively but as my focus (sorry!) shifted to pro-

ducing better quality images I felt that it might be time to try manual mode. I switched to manual in the spring as an experiment and haven't yet had a reason to shift back.



**Figure 18:** Stilt Sandpiper and Lesser Yellowlegs. 1/1600 sec, f/5.6, ISO 500. (A. Kaduck)

This article will explain why you might want to try out manual mode, and how to go about it.

**What is manual mode?**



Manual mode is just that – you take complete control of all of the elements of photography, and in particular the light triangle of aperture, shutter speed and ISO.

### Why you should you use manual mode?

Manual mode is the only way to have complete control of the shot. Its use avoids the possibility that an automated function makes the wrong adjustment – for example by setting the aperture too wide which gives insufficient depth of field. In principle using manual mode gives you the capability to get the best achievable results. It may not be the best choice for everyday use, but from my experience so far it is the preferable approach when the quality of the image is important.

Using manual mode requires foresight, quick reactions and a good understanding of the trade-offs between control adjustments. To get the best results you need to be actively thinking about your photography choices while you are out on the land.

### Why should you not use manual mode?

The use of manual mode unquestionably adds complexity to your life. There is a lot to learn and it should be expected that, like using a new piece of equipment, the quality of your results will decline in the short term.

You may also find that you miss a few shots where an automated mode would have given you a fighting chance. So that once-in-a-lifetime brief exposure of a Yellow-legged Seedshrike may go unrecorded.

But the principal downside is that “actively thinking about your photography choices” as mentioned above can detract from simple pleasures of birding/wildlife watching.

So my advice would be not to go down this road until you reach a point where you really want to improve the quality of your images.

### How to get set up

Most camera bodies have a PASM dial on the top right hand corner. Switching that to M is all you need to be in manual mode. For Nikon camera

bodies there is usually a mode button on the top left – depressing that allows you to cycle through the mode options.



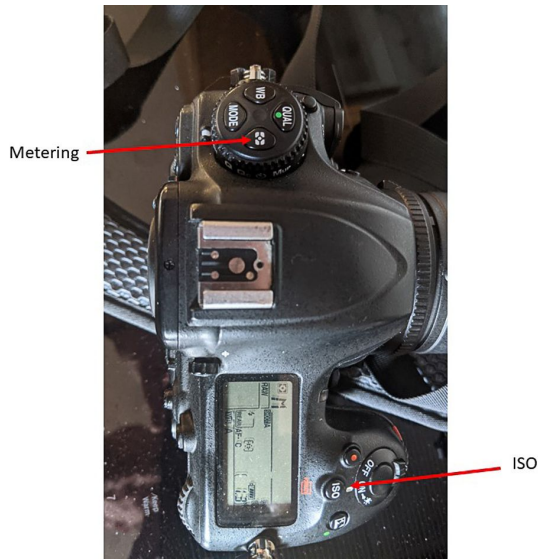
**Figure 19: PASM dial.** (Kārlis Dambrāns, CC BY 2.0, via Wikimedia Commons)

Your first task will be to ensure that you are familiar with controls – how to adjust shutter speed, aperture, ISO, and metering mode quickly and efficiently. Controls vary from camera to camera so you will need to consult your owners’ manual.

Higher-end DSLRs and mirrorless camera bodies make this a bit easier because they have multiple control thingsies (dials, levers, buttons) that can have separate functions. Bridge (superzoom) cameras and entry-level DSLR bodies may require you to access changes to settings through the menu system, which is slower and more fiddly.



**Figure 20: Nikon D500 Control thingsies.** (A. Kaduck)



**Figure 21:** Nikon D500 Control thingsies. (A. Kaduck)

Now looking through your viewfinder, you should see an exposure meter. It indicates whether, with the current camera settings, the image is likely to be properly exposed. If the meter points to the right-hand side of the scale the shot may be overexposed; to the left indicates underexposure. We will return to this point later on.



**Figure 22:** Representative viewfinder showing overexposure. (A. Kaduck)

### Using manual in the field

When you set out on a photography expedition, make a habit of pre-setting the controls for the shot that you are expecting. Consider your target species and set a shutter speed that will work if you get a brief chance meeting. For birds it should never be lower than 1/500 sec, and if you are

anticipating flight shots 1/1600 is a good starting point. For mammals 1/500 is a good choice as well, whereas for amphibians you could start as low as 1/200.

Then consider the range at which exposure is likely to occur. If you are headed to Marshlands CA then the creatures will be at close range, so an aperture of at least f5.6 or better f/8 will help you get the right depth of field. On the other hand if you are on Wolfe Island anything you see will be far enough away that the widest aperture of your lens should work.

Now take a look at the surroundings, particularly the amount of ambient light available, and set your ISO. In an ideal world your camera's lowest ISO will give the best shots. But don't be afraid to go a bit higher. For DSLRs and mirrorless cameras an ISO of 800 should produce good images with low or non-existent noise. Bridge/superzoom cameras struggle in this area due to their smaller sensors and less exotic software, so you may not want to go above ISO 400. Experiment with your camera equipment to determine the range within which you want to work.

Finally, consider how the conditions will work with your metering mode. Most of the time you should stick with matrix metering (Canon calls this evaluative metering). This is the default mode for your camera and works well most of the time. However in situations where there are wide variations in light between the subject and the background you should consider using center-weighted metering. For birds, particularly distant ones, spot metering (which looks at only the exact center point of the frame) may give you the best chance of ensuring that your target is correctly exposed.

Now that you have made your initial settings, take a look at a likely point for a photograph and see what the exposure meter is telling you. If in doubt, take a test exposure and check it in your monitor.

If everything is good you are ready to set out. But more likely you will have to make some trade-offs. In Marshlands, for example, there is not a lot of ambient light on the trail so you may find that you

have to increase the ISO – sometimes by a lot – to get a proper exposure with the aperture and shutter speed settings you want. Here it is important to remember that, to a certain extent, underexposure can be fixed in post-production. With the right software (the subject of a future column) the noise associated with high ISO can be dealt with. But nothing will fix blurred images caused by a too-low shutter speed and there is no way of adding depth of field after the shot is taken. So where possible err on the side of correct shutter speed and aperture, even if it means a higher ISO. And if the situation permits (i.e. the pesky bird is content to sit still for a moment), take a test exposure of the subject and then check the monitor to see how your settings are working.



**Figure 23:** Eastern Wood Pewee, 1/800 sec, f/8.0, ISO 250. Cropped but otherwise unadjusted. (A. Kaduck)

You will find as you get familiar with manual mode that you develop a feel for interpreting the exposure meter. With backlit or silhouetted subjects (e.g. a bird high in a bare tree) the meter may show that the shot is overexposed but if you don't have time to switch to center-weighted mode experience will allow you to judge how much "overexposure" of the sky is needed to ensure that the target is properly exposed.

### Summary

Manual mode is not for everyone, nor is it ideal for every situation. It is a complex approach which elevates optimal image quality above other photography considerations. But the complexity should not be overstated. Manual mode photography is not any more difficult than photography was in the age of film when all cameras were essentially manual.

As with any new addition to your photography repertoire, practice, and then evaluation of what went right and what went wrong in a particular shoot, will help build your skills in manual photography.

And of course, if possible shoot in raw format. If the exposure ends up a bit off you can usually set things right during post-processing.



**Figure 24:** Greater and Lesser Yellowlegs together at Trenton/Bayside sewage lagoons, 2021-09-11. (John Licharson)



**Figure 25:** Wilson's Warbler near Charwell Point, Prince Edward County, 2021-09-15. (Peter Waycik)

## 7 KFN Outings

### 7.1 Teen Naturalist Trip to the Fallow Deer Reserve (March 13, 2021)

by Everett Bark

On a beautiful day near the end of a lovely winter, ten of the Kingston Teen Naturalists, and both of the leaders, met up at 9:30 am to hike The Fallow Deer Reserve. Their names were James, Ryan, Damon, Billy, Amelie, Connor, Liam, Abel, Beckett, Chris Grooms, Anne Robertson and myself, Everett. The temperature was  $-4^{\circ}\text{C}$ , with a light breeze and some sun. The terrain was slightly icy and there was some snow and water.

On the start of our walk we saw and heard a raven and some chickadees. We started at the gate of the reserve and went right from there. We passed the fallow deer enclosure. There were once 13 male fallow deer who called the property home. They have unfortunately died of old age, but the land is still home to a lot of wildlife. While we were at the enclosure we found Bobcat and Coyote tracks, and some meat that Chris had left out the day before. We continued along the path to find more chickadees, Ruffed Grouse feathers, a Downy Woodpecker, White-tailed Deer tracks and more Coyote tracks. We also found either Bobcat or Coyote scat and deer scat. We saw some plants too, such as Speckled Alder (*Alnus incana*), different types of moss and a big patch of last years' flowers of Ghost Pipe (it was red) (*Monotropa uniflora*). On the ground we saw evidence of American Red Squirrel (*Tamiasciurus hudsonicus*) based on a bunch of gnawed off tree branches on the ground. The tips appeared to have bite marks from the squirrels. Anne and Chris helped to identify the different kinds of scat and tracks.

While walking, we came to a fork in the road. We took the road less traveled (which was to the right, hehe). That path took us to the trail camera. On our walk there we saw more of the tracks and scat that we saw before. When we got to the trail cam, Chris told us how it worked and some of the different types of animals that he sees on it and shared some stories of how some of the animals react. He told us that whenever animals walk up to the trail cam, a

motion sensor is set off and an infrared light shines. Humans can't see it very well, but animals can. It illuminates everything around the animal. Whenever Coyotes see the light, they tend to be frightened by it and they will look around it as if they see ghosts. Usually there is only one Bobcat that Chris sees on the trail cam. It usually doesn't seem to care about the infrared light. It generally stops, looks around for a second, then has no other reaction. Some of the different types of animals that Chris sees on the camera are House Cats, Fishers, otters, skunks, porcupines, and flying squirrels. If you want to see the videos of the animals on the trail cam Chris has a YouTube Channel. To find it you go to YouTube and search for "Chris Grooms bobcat."

After viewing the trail cam, we continued along the path. We came out into a clearing where we found some bunny fur. Chris told us about the rock we were walking on and how it had been there for millions of years and there was a lot of it in the area. It was a mix of limestone and granite. Then he told us about the fault line that we were on. After that we went back to the trail cam to observe a tree with Downy Woodpecker holes in it. We found some of the birds regurgitated food close by. In the food there were exoskeletons of ants. In the holes themselves, there were snow fleas encased in the trees' sap. After that we went back to the fork in the path. This time we went left to see the three owl boxes that Chris had put up previously. Two of them were out of reach so we used a tree branch to scratch the bottom of the boxes. We were trying to scare anything that was inside of the box out for us to observe (neither of them had anything). The third box was at head level so we opened it. There were no animals in it at the time, but there were chewed up cedar bark shavings in it, which led us to think that a squirrel had been using it as a home. Sometimes squirrels use cedar bark shavings in their nests to help keep parasites out. Af-



ter that we went back to the beginning of the trail where we stopped to have lunch. During lunch, we found some ants under a rock. When lunch was done we recorded details of our hike in our teen naturalist field note books. Right before we left, Chris found an intact frozen Eastern Bluebird egg with the yolk still in it from last year.

Overall I had a great time and I think everyone else

did too. We all shared Anne's excitement to see the Bobcat tracks on the trail. This was a great trip because it was a very popular place for animals to walk, so we got to see a lot of tracks. Not very many people go to the reserve which is privately owned so most of the tracks have been left untouched. I had a really good time on this trip and we were lucky to be able to go on this trail.

## 7.2 Ramble to Helen Quilliam Sanctuary (June 15, 2021)

by Dawna Bate



**Figure 26:** Female Red-winged Blackbird "Grabbing a bite of lunch." (Dawna Bate)

On Tuesday, June 15 we started with 12 members meeting for the ramble through one of the Helen Quilliam trails – the Faith Avis Trail, led by Anne Robertson.

Before we headed out to the trails, we learned about a lot of different things. Anne started by telling us about the history of the Helen Quilliam Sanctuary covering the acquisition of the property, the different trails and the significance of the gravel pit.

We talked about LD Moth caterpillars and the current infestation of them. The hairs of the LD Moth make it difficult for birds to eat them. Cuckoos are one type that can feast on them, as they are a bird species able to shed the lining of their stomachs. So as the LD Moth caterpillar population rises, so does the population of cuckoos. We also learned that there are two different types of LD Moths and research is being done to determine if the Asian variety has also made an appearance, as some have been seen feeding on white pines.



**Figure 27:** American Bullfrog. (Dawna Bate)

Anne had samples of deer ticks and dog ticks to show us. The deer ticks are smaller and have a red-orange body. One suggestion that was shared with us is to wrap packing tape around the bottom of our pant legs (with the sticky side out) to capture any ticks that might try to make their way up our legs.

There was a suggestion that we use non-deet bug spray, such as PiACTIVE (available at several stores including Canadian Tire) or Life Brand's equivalent available at Shopper's Drug Marts. There was a discussion about the concerns with DEET, including health issues and effects of melting rubber on binoculars and cameras.

Anne handed out turtle ID sheets to anyone wanting them. Locally we have 7 species of turtles, all on the endangered species list.



**Figure 28:** American Toad (Dawna Bate)

During our walk we saw and heard a lot. It was an overcast day, that had been preceded by a down-pour on the way to the property, so we didn't see as much as we had hoped.

One thing that Anne explained was the difference between sedges, rushes and grass. "Sedges have edges, rushes are round. Grasses have lashes wherever they're found."

A partial list of flora we saw includes several types of sedges, as listed below. There were also others that were not identified. Thank you to Paul MacKenzie for supplying the list of sedges. We also saw Blue Iris, maidenhair ferns, sensitive ferns, red elders, Buffalo Berry with bright red berries and several Wood Lilies.

*Carex comosa* – Bearded Sedge or Bristly Sedge.

Large, Velcro-like. It has beaks with long spreading teeth at the tips of the perigynia (seeds) longer than those of other similar big looking sedges like Porcupine Sedge Bladder Sedge and Hop Sedge.

*Carex gracillima* – Graceful sedge with thin hanging spikes.

*Carex crinita* – Fringed Sedge with thicker hanging spikes.

*Carex albersina* – White Bear Sedge Which you saw with wide leaves but not as wide as Plantain-leaved Sedge.

*Carex vulpinoides* – Fox Sedge roadside ditch.

*Carex rosea* – Rosy Sedge a fine-leaved woodland sedge with small spaced out spikes.

*Caex blanda* – Eastern Woodland Sedge.

*Carex sprengelii* – Long-beaked Sedge – hanging spikes with long beaks on perigynia.

*Carex pensylvanica* – Early Flowering or Oak Sedge – too late for fruit.

*Carex sparganoides* – Bur-reed Sedge.

*Carex stricta* – Tussock Sedge in the marsh.

Birds that we saw or heard are listed below. I learned that I can't distinguish a lot of the bird calls – partly because of my lack of experience and partly because I can't distinguish sounds when there are many things happening at the same time. Thank you to Paul MacKenzie and Janis Grant for supplying this list. (28 species, 45 individuals)

Hooded Merganser (*Lophodytes cucullatus*) 1 Small merganser flying over, not rare here

Wilson's Snipe (*Gallinago delicata*) 1

Turkey Vulture (*Cathartes aura*) 1

Osprey (*Pandion haliaetus*) 2

Northern Flicker (*Colaptes auratus*) 1

Eastern Phoebe (*Sayornis phoebe*) 1

Great Crested Flycatcher (*Myiarchus crinitus*) 1

Yellow-throated Vireo (*Vireo flavifrons*) 1

Warbling Vireo (*Vireo gilvus*) 1

Red-eyed Vireo (*Vireo olivaceus*) 4

Common Raven (*Corvus corax*) 1 Calling; not rare

here

Tree Swallow (*Tachycineta bicolor*) 6

Barn Swallow (*Hirundo rustica*) 1

White-breasted Nuthatch (*Sitta carolinensis*) 1

Veery (*Catharus fuscescens*) 1

American Robin (*Turdus migratorius*) 2

American Goldfinch (*Spinus tristis*) 1

Chipping Sparrow (*Spizella passerina*) 1

Swamp Sparrow (*Melospiza georgiana*) 1

Baltimore Oriole (*Icterus galbula*) 1

Red-winged Blackbird (*Agelaius phoeniceus*) 5

Common Grackle (*Quiscalus quiscula*) 2

Ovenbird (*Seiurus aurocapilla*) 1

Common Yellowthroat (*Geothlypis trichas*) 2

Yellow Warbler (*Setophaga petechia*) 2

Scarlet Tanager (*Piranga olivacea*) 1

Rose-breasted Grosbeak (*Pheucticus ludovicianus*) 1

Indigo Bunting (*Passerina cyanea*) 1

Other fauna we noticed included American Bullfrogs, Green Frogs, American Toad and a Pearl Crescent butterfly. There weren't many moths and butterflies around as it was an overcast, wet day. We also noticed that there was a definite lack of mammals, as no one reported seeing any. We did spend some time trying to identify mystery bubbles that appeared at one point. There was no definitive answer as to what caused them.

### 7.3 Field Trip to NCC Milburn (June 26, 2021)

by Gary Hillaby

It was our first field trip during Phase One of the pandemic. The weather was overcast and threatening showers were around every corner. We did get lucky with the weather only having to endure a brief sprinkle of rain. Temperature was approximately 21 degrees Celsius and the number of attendees was affected by the threat of rain. There were a total of four KFN members in the group.

The Milburn property isn't huge but has a variety of habitats that contributed to us seeing 53 bird

species. One of the highlights was seeing parent Trumpeter Swans with their three cygnets. We were also informed by a Hairy Woodpecker that we were walking too close to the family home. A just-fledged Rose-breasted Grosbeak posed for pictures as we proceeded along the trail. We extended the natural trail to include a birding stroll through the village of Battersea. We walked over to the public boat launch before returning to our parking lot. The grand total for our walk was 4.1 kilometres.

### 7.4 Ramble To Upper Brewer's Locks (July 6, 2021)

by Helen Pyne

A group of 9 met this morning with Anne Robertson at Upper Brewer's Lock. The weather was generally hot and humid, so when we felt a breeze we sure enjoyed it. Originally we were supposed to take a trail from the cottage lane, to Cranberry Lake. Because it is now overgrown in areas, we decided to stay with the cottage lane, and the island in the Rideau Canal with locks on one side and a

dam on the other. And the original lock house on the island up a hill overlooking the canal.

A Warbling Vireo, American Robin, and Common Grackle were heard right off the bat. Then a beautiful monarch butterfly which kept flying off and coming back while we tried to determine if it was a male with a black spot on the hind wing.



We had fun too looking at field horsetail – Anne mentioned the silica content (up to 25% of dry weight) which means it can be used to clean pots and pans (when camping perhaps). We noticed the leaf veins curving towards the tip on Alternate-leaved or Pagoda Dogwood. We noticed too the sensitive fern (sensitive to frost), Spotted Joe-Pye Weed not showing its pink flowers yet, and the enormous leaves of Elecampane.

After a bit we did do a very small part of the trail to Cranberry Lake.

As we had a huge rain the night before, the woods were still quite wet. A Red-backed Salamander caused some excitement where it was found under a rotting log in a drying ephemeral pond. Tiny Wood Frogs were jumping about. But the big interest for me was all the discussion around the LD Moth life cycle. We saw caterpillars starting the process of cocooning, as well as cocoons, white female moths on trees and many many of the tan-coloured males flying about. There was much evidence of defoliation, but nothing where the tree was completely eaten of leaves. Anne educated us about the life cycle and the relationship of LD Moths to the cuckoos. When this bird population is up, the LD Moth numbers are down, as cuckoos can eat the caterpillars. The caterpillar hairs, which get stuck in the stomach walls of the bird,

are removed when this bird sheds the lining of its stomach.

We also heard Eastern Wood-Pewee, Red-eyed Vireos, a Downy Woodpecker, American Goldfinch, Belted Kingfisher, Eastern Kingbird, White-breasted Nuthatch, Cedar Waxwing, Song Sparrow, Common Yellowthroat, American Redstarts, Northern Cardinals, and Indigo Bunting amongst the 20 bird species recorded this morning. A Great Blue Heron flew over the water up into a nearby White Pine tree.

A Cabbage White butterfly entertained us as well as a Violet Dancer damselfly. Anne caught a freshwater snail, and we continued on looking at Japanese Beetles, Common and Swamp Milkweed side-by-side, Flowering Rush (alien), as well as some digger wasps and their nests.

Once we crossed the locks onto the island, we saw several different species of trees, but the most unusual to me was the American Bladdernut shrub. We also saw a Cecropia Moth cocoon. Wow they are big! By then it was getting pretty toasty. Felt great to change into my sandals, unzip my cut-off pants, take a huge gulp of water, and head to the picnic table to relax. And of course the air conditioning in the car afterwards was fantastic! (temperature was up to 30 degrees!)

## 7.5 Cat on a Bike Field Trip (August 14, 2021)

*by Gary Hillaby*



**Figure 29:** Cat on a bike participants enjoy a cooler day. (Gary Hillaby)

The weather cooperated and provided the group with a beautiful day to go biking on the Cataraqui Trail east of Perth Road. The high humidity of the previous week broke the day before our outing and created excellent conditions for riding about 24 °C. There were a total of seven participants and we observed twenty-seven bird species and several plant species. A couple of birding highlights we observed were a Solitary Sandpiper and a Greater Yellowlegs. We paused at several wetlands along the trail to see what the area offered in both bird and plant sightings. Farther up the trail we went off on a secondary trail to see an old abandoned

mica mine. Another highlight of this excursion was watching three Blanding's Turtles frolicking (if you can call it that) in a pond. The turtles weren't bothered by our presence and we certainly weren't bother by theirs.

In total we covered approximately 32 km. Going

forward, I'd like to see this field trip continue on an annual or semi-annual basis. We could move the ride to various portions of the Cataraqui Trail to get a variety of habitats and landscapes. We start together and we leave no one behind so have your bicycles ready for next year.

## 7.6 Ramble to Howe Island (August 17, 2021)

by Peter Waycik

A humid, misty and rainy day did not deter eleven Kingston Field Naturalists from exploring the Howe Island Trail on Tuesday, August 17, 2021. The Howe Island Trail is a relatively new endeavour of the Township of Frontenac Islands that follows an unused road allowance through varied habitat between farm fields and forests. It generally follows a straight line, but there is a small loop at the end that touches the tip of Johnson Bay.

The adventure began with an uneventful ferry ride on a ferry that is fraught with possible complications. Some of the participants parked on the mainland side of the Frontenac County run ferry (south of Joyceville Road) and carpooled—fully masked—to avoid paying the \$8 per car toll. Two participants avoided both the toll and the carpooling by taking the ferry on foot and walking the 1.8 km up the hill to the trailhead (and back again later). One late-comer ended up crossing on her own and bearing the entire weight of the toll. And one smart fellow had the foresight to buy a house on the island to avoid both the potential problems with the ferry and the toll.

Once everyone was assembled at the trailhead parking lot (corner of Baseline Road and Howe Island Drive), the ramble began. Shortly thereafter, the rain let up and those who had brought umbrellas put them away. It was still humid and misty though, so no one got out dry, but there was certainly no danger of hypothermia. The weather might have been compared to that of a tropical rainforest in July. Two groups quickly formed: one small group looking for birds and another group examining everything else along the way, which

will be referred to as the ramble group.

As birders take delight in identifying and counting things, it can be said with a great amount of certainty that 23 species of bird and one species of *Parulidae* (species undetermined) were observed by the bird group with a total of 115 individual birds. The four most abundant species observed from greatest to least were: Mourning Doves (15), American Goldfinches (15), Red-eyed Vireos (10) and Cedar Waxwings (10).

The ramble group observed many plants and animals right out of the gate. There were trees such as hickories and basswoods and oaks to discuss. Plants such as tearthumb and jewelweed were prodded and poked and in at least one case, a plant was released from its comfortably rooted position in lush fertile soil to be properly examined and identified by the observers. Some may be intrigued to know more about tearthumb and jewelweed based solely on their names. Tearthumb got its name because of its very sharp back pointing prickles all along the stem which dig into the skin when passing too close to this plant. Jewelweed is so named because of its jewel-like appearance under the right conditions which include a little moisture and sunshine. Jewelweed has an even more beguiling name: Spotted Touch-Me-Not. Touch-me-not does not have anything to do with the spots, but because of what happens when you touch the seeds. From Wikipedia, "The seed pods have five valves which coil back rapidly to eject the seeds in a process called explosive dehiscence." Deer are charmed by this plant and will readily munch on it. Perhaps they like it for the



same reason human children like Pop Rocks. According to local plant expert, Anne Robertson, “it is also reputed to counteract the effects of poison ivy, has a very juicy stem and is related to the garden plant Busy Lizzie or Impatiens.”

It should also be noted that someone caught a grasshopper in a gentle and somewhat amazing way as grasshoppers can hop great distances and this particular species enhances its hops with wings that appear to be bands of black and white in a semi-circle in flight. They tend not to stick around long enough for a human to capture them. Perhaps this one was ill.

At one point, an unfamiliar plant drew the attention of the larger ramble group. The plant was ostensibly a shrub with flowers and three colours of fruits—yellow, red and black increasing in ripeness – all at the same time. At least two participants initiated a gustatory and tactile investigation into the structure and chemical composition of the fruits and each fruit was discovered to contain about three seeds indicating the shrub was not in the cherry family (drupes of cherries contain a single pit). It was also ascertained that the fruits of this shrub might not be suitable for a pie, at least not one you would feed to company. Further research after the ramble revealed this to be a Glossy Buckthorn, a plant introduced into this area via anthropogenic means (the reader therefore is cautioned not to carry too much disdain for the plant as it was put there through no choice of its own, found some soil and did what plants do). Glossy Buckthorn differs from Common Buckthorn (another human-introduced species) in that the leaf veins are a little straighter and there are no spine-tipped short shoots.

Several other species were observed varying from a Monarch caterpillar with its black, white and yellow stripes, to Hedge Bindweed (a relative of Morning Glory) and some green algae covered Turkey Tail mushrooms. A fairly large scat full of partly digested corn was examined. The animal, perhaps a raccoon, had likely been feeding in the neighbouring fields rather than purchasing the corn at a roadside stand, for example.

On a one-way trail, it is fairly easy to determine

how far to go – simply divide your allotted time in half and when you have reached that amount of time, turn around. This is what several of the ramble participants did, but several others felt a desire to reach Johnson Bay and complete the small loop before returning. To achieve this took about 45 minutes longer than the scheduled time of the ramble, so if the reader is interested in visiting this seldom-visited trail, it would be a good idea to plan for three hours at a moderate naturalist pace. A fast pace with a few observations can be accomplished in two hours; however if you are of the ilk to record everything and the warbler migration happens to be in full swing, it might be best to plan for four hours.

The salamander search that began earlier in the ramble was ultimately successful near Johnson Bay in a wooded area under a fairly substantial, rotting, but still liftable log that netted four Red-backed Salamanders. The search for butterflies, on the other hand, was a miserable failure mainly due to the fact that butterflies much prefer dry days with sun shining to cloudy days with mist and rain.



**Figure 30:** Red-backed Salamanders on the Howe Island Trail near Johnson Bay. (Peter Waycik)

Thank you for reading this ramble report. It is quite likely that if someone else wrote it, it might have given you a much different impression of how the ramble unfolded. For example, if one of the birders had written it, you might have had to slog through a list of all 23 species plus one species

of *Parulidae* and be regaled by exposition of how those pesky birds were darting around too fast for binoculars to keep up, too high for middle-aged necks, and continually hiding behind leaves to explain why two *Parulidae* could not be identified to species. Were a lepidopterist to write this ramble

report, the reader would have had to read only complaints about the weather conditions. Regardless, it was I who wrote it, and I do hope with sincerity that you will attend the next, nay all future rambles and on occasion volunteer to write your perspective of this relaxing activity.

## 7.7 Field Trip to Presqu'île Provincial Park (August 29, 2021)

by Anthony Kaduck



**Figure 31:** The trip leader failed to take a group photo until the end. Christine Hough, Steve Ottenhof, Carl Kaduck. Missing: Monique Grenier, John Licharson, Walter Sliva, Peter Waycik. (A. Kaduck)

It's been some time since we last held an out-of-area birding trip, but with the province in stage 3 and fall migration starting to kick in it seemed like the right time to gear up for birding adventure. And it all worked like clockwork: eight members participating (of which five were on their first KFN field trip), park passes successfully negotiated, everyone arriving on time – what could possibly go wrong? Well, we'll get to that.

We started out with a patrol of the beaches, but apart from the gull flock and some Caspian Terns there was little to see. No worries, the next station stop was Owen Point – a legendary shorebird hotspot. Unfortunately, no one had advised the birds. We had good looks at the usual suspects (Spotted, Least and Semipalmated Sandpipers, Lesser Yellowlegs) but nothing really exciting. Then, acting on a hot tip, we quick-marched

back to the beaches only to find that the Baird's Sandpipers had just decamped in the direction of Gull Island. By now it had turned into a really hot and humid day so we decided to stop by the Park Store for a much-needed ice cream break.

The next point of call was the lighthouse, usually a highly reliable spot for passerine migrants. But for our pains all we could come up with were some cormorants and a couple of MODOs. Convinced that there had to be birds somewhere we worked back up the access road and (finally) discovered a small mixed flock. Four species of warbler were ticked, along with a group of Red-eyed Vireos and singles of several other species. Eastern Wood Peewees appeared to be on the move as we had four in view at the same time, to add to several spotted earlier.



**Figure 32:** Scarlet Tanager (female). (A. Kaduck)

We then moved on to the Calf Pasture where we ate our lunch, mostly unmolested by birds. Deciding



that there must be some shorebirds to see we returned to Owen Point to find... well, nothing much actually. So after 13 km of marching in the heat we decided to call it a day.

Or so we thought. John Licharson had declined the last walk to Owen Point in favour of visiting the Bayside sewage lagoons on the way back. As we headed home we got a call on a dodgy connection but the word “dowitcher” was clear. So off we trooped to Bayside for excellent views of a Short-billed Dowitcher feeding amid a group of four not-very-solitary Solitary Sandpipers. Flushed with success the hard core survivors decided to make a final stop at the Amherstview sewage lagoons to add a few new species to the trip list, which totalled 66 species for the day.



**Figure 33:** The star bird of the trip – Short-billed Dowitcher. (A. Kaduck)

## 7.8 Ramble to Roger Candy Trail (September 7, 2021)

*by Tammy Browning*



**Figure 34:** Philadelphia Vireo. (Kathy Webb)

Though members awoke to overcast grey skies in the morning, the clouds began to part allowing the sun to shine through just in time for the commencement of this wonderful ramble. 29 members gathered, prepared for rain or shine, looking forward to exploring this unique and beautiful trail.

Coming to life over the course of two decades, the Roger Candy Trail is unique to the County of Frontenac and its surrounding area as it is a fundraised ‘human made’ project. Fundraising for the project began in the early 1990s by staff, residents, fami-

lies, community partners and the many donors affiliated with Fairmount Home. The trail is approximately one kilometre long and offers a wheelchair accessible, fully paved path that runs around the entire park. There are several accessible resting areas including gazebos and granite benches and the trail is open for the public to enjoy.

The members were given the opportunity to narrow in on their individual interests and participate with the ‘birding’ group or the ‘plants, trees and various other species’ group. The ‘birding’ group, binoculars and cameras in hand, were off to a quick start rapidly disappearing from the sight of the ‘plant’ group who were already stopped and observing goldenrod approximately 10 feet into the trail.

The ‘birding’ group observed a wide variety of species, 24 in total, starting with five Tennessee Warblers in the parking lot. Other warblers noted were Black-and-white, Nashville and Black-throated Green. Red-breasted and White-breasted Nuthatches were both seen and a hummingbird, 16 Turkey Vultures and a couple of hawks amongst other species.

As mentioned, the 'plant' group began their ramble observing goldenrod, a member of the Asteraceae, (composite) family. Observers quickly noticed that much of the first half of the trail beautifully displayed many of plants from this family. We looked closely at the stems (for hairiness), leaves (for venation and tothing) and florets for number of rays, on these composite flowers all of which help distinguish the various species of goldenrod.



**Figure 35:** Cone shaped galls made by a Gall Gnat Midge. The larva overwinters in the gall which grows on Willow shrubs when stimulated by the egg laying adult midge. (Bruce Elliott)

Anne stopped to point out and identify several plants including asters, soapwort and Wild Carrot flowers. Members were given the chance to taste some Wild Carrot (or Queen Anne's Lace) seeds that were maturing in closed flower heads. Fun fact: Wild Carrot seed heads serve as a natural barometer. The changes in atmospheric moisture cause opening and closing of the seed heads. This is an adaptation so that the hairy dry seeds may be carried by passing animals but when the seeds are wet, and the hairs do not attach, the seed head

closes to prevent seeds just dropping to the ground and not getting dispersed.

Ramblers were fascinated to learn about Horsetail. Species of Horsetail date back to the time of the dinosaurs about 65 million years ago. Think that is old? Members also observed an approximately 8 ton, 1 billion year old boulder. One of several glacial erratics intentionally placed at the different cross roads of the trail to aid in navigation. The boulder displayed evidence of quartz, and an oxidised red iron vein. Before the arrival of oxygen to the planet, more than two billion years ago, this oxidation would not have occurred. Common Mullein, False Solomon's Seal, Wild Thyme, Scots Pine, Red Pine, White Pine, Manitoba Maple, Eastern Hemlock as well as male and female sumac were identified. Members also stumbled across some mini crab apples which contained very bright red seeds inside. It was finally also noted that the wide and open natural sand deposit plateau at the end of our two hour foray was just enough distance away from Kingston to serve as a wonderful place to observe the stars at night.



**Figure 36:** Grey Goldenrod. (Peter Waycik)

The 'birding' group finished a few minutes before the 'plants' group; some of these people had been around the trail twice. Another wonderful ramble, participants were looking forward to the next one. In total the KFN donated \$65 to the upkeep of the park. An excellent experience.



## 7.9 Jones Creek Ramble (September 21, 2021)

by Ken Ross



**Figure 37:** Chicken of the Woods growing on a fallen tree trunk. (Ken Ross)

On September 21, 2021, fourteen hikers enjoyed an easy 5 kilometre ramble at the Jones Creek trails in the Thousand Islands National Park. Geologically, this area sits on part of the Frontenac Arch which joins the Canadian Shield to the Adirondacks. The weather on this day was temperate and cloudy with sunny breaks. The ramble commenced with a sighting of a Merlin perched atop a dead tree. This was immediately followed by sightings of an American Redstart and a Ruby-crowned Kinglet. Other birds seen over the 3 hours were: Eastern Phoebe, Blue Jays, Song Sparrow, White-throated Sparrow, Northern Flicker, Mallard, American Crows, American Goldfinches, Downy Woodpeckers, Red-winged Blackbirds, Cedar Waxwings, Black-capped Chickadees, Brown Creeper, Common Yellowthroats, Marsh Wrens, Northern Cardinals, Mourning Doves, and a Turkey Vulture for a total of 23 species.

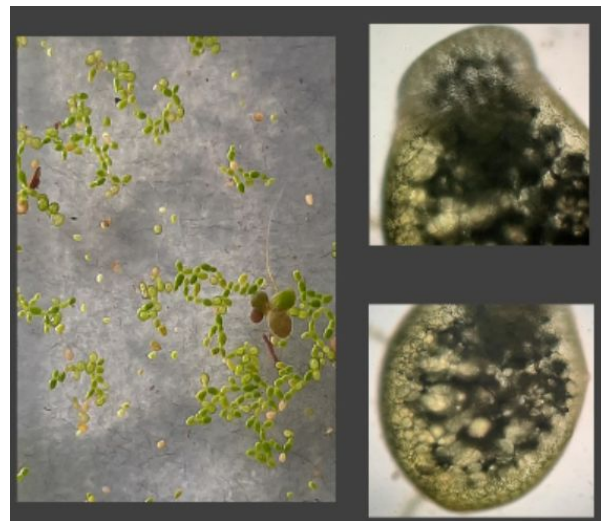
Numerous Eastern Chipmunks, Red Squirrels and Grey Squirrels escorted us along the paths. No one was observed feeding these beggars.

Several amphibians were identified and the highlight was finding the lead-backed colour phase of the Eastern Red-backed Salamander. An American Toad, a Grey Treefrog and a Northern Leopard Frog also made brief appearances for us.

Some of the invertebrates seen included a Monarch, a Clouded Sulfur, a Cabbage White, a Common Eastern Bumblebee, a ladybird beetle, a Hemlock Looper Moth and an Autumn Meadowhawk.

A few fungi were noted including: Late Fall Polypore, Turkey-tail, and Chicken of the Woods. British Soldier Lichen was noted growing from the tops of fence posts.

Among the usual tree species such as Eastern White Pine, Eastern Hemlock (which likes acidic soils), American Beech, and Basswood, we saw a rarity for this region, the Pitch Pine. This species of pine is at the northern limits of its range and it is easily identified by its needles in bunches of three.



**Figure 38:** Tray (far left) showing the smallest duckweed species which Anne referred to as *Wolffia* sp. (size ~1 mm). It is the smallest flowering plant in the world. *Wolffia* is rootless, but the larger *Lemna minor* duckweed has roots. Leaf close-up shows the tiny chloroplasts (small green dots) and most likely, dark starch grains. *Wolffia* is rich in nutrients. Its common name is “water-meal” referring to its “mealy” texture. (Shirley French)

Some shrubs that were noted included male and female Staghorn Sumac, Maple Leaf Viburnum, Grey Dogwood, Grey Alder and blueberries.



Interesting plants included Ghost Pipes, wild grapes, boneset, cinquefoil, tearthumb, jewelweed, Doll's Eyes, New England Aster, Calico Aster, Hepatica, Partridgeberry, Wintergreen and a big stand of Wild Rice in the creek.

A number of ferns were seen such as Marsh Fern, Christmas Fern, Interrupted Fern, Sensitive Fern, Rock Polypody and Marginal Wood fern.

From the wetlands bordering the creek a water

sample viewed under magnification showed the smallest flowering plant, *Wolffia sp.*, a species of watermeal.

Overall, it was a very enjoyable and informative ramble and we all learned interesting facts about the plants and animals of this unique area. We extend a sincere and collective "thank you" to Anne Robertson for organizing these events and for identifying specimens for us and sharing so many interesting facts about the flora and fauna of this area.

## 8 Not for Adults!

by Rick Bortolotti

### Introduction

One of my favourite poets as a young adult was Milton Acorn. He wrote a series of poems called the Jack Pine Sonnets. I loved those poems, and Acorn's structural relationship in them to how the Jack Pine grows, helped me to understand that form is important to learn, yet have the freedom to let something be what it needs to be – with a little work!

In the Duck Bum poem I purposefully used a true rhyme only at the end of Part I, and while trying to keep a somewhat consistent rhythm, played with the length of verse and line, near rhyme and wee bit of meter change. Part I was written in the spring and uses more or less an anapaest meter, like in a limerick.

Part II was written in the summer and in a freer verse, signalling growth.

Hope you enjoy it!



**Figure 39:** My wife Alix and I watched a yellow bellied sapsucker carve this out around a maple sapling over a weekend. (Rick Bortoletti)

## Four Duck Bum Pond (not to be read by adults)

### Part I – An Anapaest Spring

My yurt's by a pond in the forest  
And seasons go by one by one.  
Winter and fall, summer to swim,  
But the birds all come back in the spring!

Goose is the first  
With ice still on the pond,  
She walks on the cold frozen water.  
From hummock to hill  
Tiny islands they are,  
Which one will be good for a nest?

I watch from my place  
Every year it's the same,  
Her inspection can last several days.  
Finally no doubt! A spot has been found  
Behind beaver's lodge it will be.

Robins of course  
Among the first to arrive  
With phoebe not too far behind.  
Phoebes like us  
Enjoy a home that's well-made  
And this year we're sharing my stoop.

Most bird names work well  
In a poem like this  
To keep rhythm and meter just fine

The yellow-bellied-sapsucker just happens not to  
be one of them –

But bear with me a while  
As I come to the point  
For its story I do want to tell

A woodpecker by trade  
He drums trees with his beak,  
To say this is my spot  
Here I am.

Dada-tat-tat

Tatta-dat-dat

Tadda-ta-dat  
Dada-tat!

I got spooked by the beat!  
With his rap on the door  
Of my outhouse (yes, toilet:  
my home-made wood toilet)  
Datta-dat-tat on my door!!

What makes it so good  
For a sounding board,  
Is the year that the  
Porcupine came.

She chewed at the joint  
When I was away  
As wood makes a porcupine's feast,  
Metal screen on the walls  
Stops her chomp chomp,  
And sounds like a xylophone too!

(PS- nothing is yours in the forest)

Butt... one of the funniest sights  
I'd say funny because:

To see four in a row  
In the very same place  
At the very same time  
(We all eat around 9)  
There's something they like  
At the spot where  
They stop on the pond

How do they know  
That beneath them is food in the dark mucky water  
pee-ew?!  
With their bums in the air

Duck their duck heads in the goo,  
They feast on the good food below!

## Part II – Summer Free

Now July into August  
The pond, all frog sound bounce  
                    gauwp            Green  
Of gauwp gauwp            bauwp  
Bull frog rhaow rhaow rhaow rum  
Mink frog  
            A curious sound  
            Random knuckles knocking  
            On my picnic table  
Pierced by the whistle-trill Towhee

And the Vireo that's been singing  
                                    since 1863

I daydream, as Sirius lines up with the Sun  
To give us a dog day's heat,  
The deep silence below autumn night's moon  
Turns the scurry-stop scurry-rustle of a chipmunk  
Into a bear

And the land  
Now belonging to deer flies and mosquitos  
A longing - almost, as there's still time to swim –  
For black spruce sun-dialling  
Long shadows on January's pond  
Jupiter rising, clouds from the west  
Not long 'til spring.

## 9 Clipped Classics

*Edited by Alexandra Simmons*

### *Excerpts from past issues of The Blue Bill*

*[During the summers of 2020 and 2021, some KFN members took to canoeing as a way to get exercise and observe nature from a different perspective. Fifty years ago, a pair of KFN couples took a canoe trip down the Rideau Canal. Their experiences were published in Volume 18, No. 3 of the Blue Bill (September 1971). Perhaps some current members could repeat the trip and report on changes in habitats, flora and fauna in the last half-century! –ed.]*

#### **Ottawa to Kingston by Canoe, June 1971**

P.T. Nation

Paddling swiftly along with the sun warming your back and a light breeze crinkling the water's surface; floating motionless above an inverted reflection on a misty surface so idyllically smooth its edges could not be surely seen; gripping tightly to the lowest branches of a huge willow as a stiff headwind spills a cloud full of rain over you while summer lightning cuts the blackness with distant flashes: these are moments from a June canoe trip which took Edith and Bill Powles and Nancy and

Pip Nation from Dow's Lake in Ottawa to the foot of West Street in Kingston in six and a half fascinating days. We did not share the fierce grandeur of the Coppermine nor the swirling white-water of the Madawaska, but thoroughly enjoyed the easy going, the varying and largely unspoiled scenery, the birds and the late spring growth along the shores, and the revelation of the canals, weirs, dams and locks built 140 years ago.

The timing proved sound. Mooney's Bay on a Sunday was full of pleasure boats, but leaving them behind we saw only five or six cruisers all the way and shared a lock only once. It was mosquito time, but they stayed ashore and at night we dined, slept and breakfasted in restaurants, cottages and motels. This frustrated the mosquitoes and eliminated time and effort required for camping. It made detailed planning necessary as all accommodation had to be reserved in advance. It gave us a specific goal each day, helped us finish the long ones and let us enjoy the easy ones.

The locks and dams are the most interesting. We read Legget's "Rideau Waterway" before the trip, and as we travelled we tried to picture the lakes and swamps before the levels were changed. This is one system improved by man in both usefulness and beauty. We were surprised how little of the shore is filled with cottages, how extensive are the empty natural areas. The high dams at Long Island and Jones' Falls are very impressive. For some years they were the highest in North America. The narrow curving approach channels at Burritts Rapids, Poonamalie, Newboro, Chaffey's, Jones' Falls and Upper Brewers bring with mystery and expectation as the trees and rocky walls close in on the slender craft. The locks themselves, especially the higher sets at Smith's Falls (35 feet) Jones' Falls (59 feet) and Kingston Mills (45 feet) carry you vertically from one kind of countryside to another. When it was quicker and easier, e.g. Black Rapids and Brewers Mills, we portaged, avoiding the locks. After 5 p.m. June closing time we portaged all we came to (Old Sly's in the dusk is very nasty); but at the big lifts and where portaging was awkward, e. g. Burritt's, Clowes and Davis, we floated up or down in the locks admiring the stone and timber work and trying to dodge the spray from crannies behind some of the great granite blocks.

Birds were not numerous, but 61 species were noted. From Ottawa to Smith's Falls, where land is open or alder-covered, Red-winged Blackbirds, grackles, orioles, meadowlarks, Kingbirds, Tree Swallows, Song Sparrows and Yellow Warblers were the most common. Further south with heavier woods, rock cliffs, islands, swamps and open fields alternating, there were more species in smaller numbers: herons, loons, Common and Black Terns, Kingfishers, Blue Jays, Black-capped Chickadees, Cedar Waxwings, Catbirds, Phoebe, Pewees, Ovenbirds, Killdeer, Goldfinches and one each Bald Eagle and Osprey. A flock of Black Brant Geese was feeding among cattails near Kars, but we saw only a handful of ducks and a pair of

White-winged Scoters. One Scarlet Tanager flew over on its way across Rideau Lake. The best sightings were the loons: one flying over the bridge at Rideau Ferry in the moonlight, two courting below our balcony at Newboro and first three, then four, in a courting swim-and-dive ritual off Goat Island south of Newboro early one morning.

Animal life was scarce except for a few water rats and groundhogs and groups of interested cows with which Edith Powles seemed able to communicate. Two or three water snakes showed themselves, but at the wharf at Davis Lock at a hot noon break a lot of grass snakes acted very unpleasantly, popping their heads up between the boards where we set out the lunch. There must have been a nest on the rock-fill under the decking.

The waterway was at its greenest, the trees dressed out and the hayfields lush. The water was clear even in the drowned land full of stumps and stringy weed, as below Joyceville. We were not well placed to see spring wildflowers but honeysuckle, columbine and many white flowering shrubs hung over the banks and ferns filled shaded niches in the rocks.

For the statisticians – a day's travel varied from 6 miles and 4 locks to 27 miles and 11 locks, with 3 days over 22 miles. Headwinds blew for two days, tailwinds for three. There is virtually no current. Both canoes were 16 feet long, one aluminum and one (a little lighter) was fibreglass. They averaged  $3 \frac{2}{3}$  miles an hour for an average of  $5 \frac{1}{4}$  hours paddling plus  $2 \frac{1}{2}$  hours of resting, eating snacks and sight-seeing each day. Bill estimates the Powles used 50,025 strokes at 23 per minute, the Nations 60,900 shorter quicker ones. Having two canoes was the best: the two crews encouraged each other and provided friendly competition.

In all it was a very pleasant and interesting trip, an inspiration for bigger ones and one we know many others could enjoy.



# Kingston Field Naturalists

## Objectives

The Kingston Field Naturalists (KFN) is an active, local club of over 500 members interested in a wide variety of natural history. The objectives of the club are:

- to acquire, record and disseminate knowledge of natural history;
- to stimulate public interest in nature and in the protection and preservation of wildlife and natural habitats; and
- to acquire, receive and hold lands for the purpose of preserving their natural flora and fauna, and to encourage and assist other organizations and individuals to do likewise.

## Nature Reserves

The KFN owns properties that are designated as nature reserves.

*Helen Quilliam Sanctuary at Otter Lake:* A 217 hectare (536 acre) property of mixed forest located in the Canadian Shield in the Township of South Frontenac accessible to members through a trail system..

*Martin Edwards Nature Reserve:* A 100 hectare (247 acre) property of fields and marshland located on the southeast shore of Amherst Island.

*Sylvester-Gallagher Nature Reserve:* An 80 acre (32.4 hectare) parcel of forest and grassland, adjacent to the Martin Edwards Nature Reserve.

## Conservation and Education

The KFN actively supports conservation efforts. Issues such as park creation, wildlife and habitat protection, and environmental welfare are of on-going concern. The club also makes natural history resources and knowledge available to the community through education programs which include field courses, talks, awards and a loan library.

## Be a Contributor!

This edition of The Blue Bill could have contained your  
article, anecdote, fantastic photo, nature sketch,  
report, puzzle, quiz, conundrum,  
cartoon, or other contribution.



(If it did, many thanks!)

Email The Blue Bill ([editor@thebluebill.ca](mailto:editor@thebluebill.ca)) for more information.





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