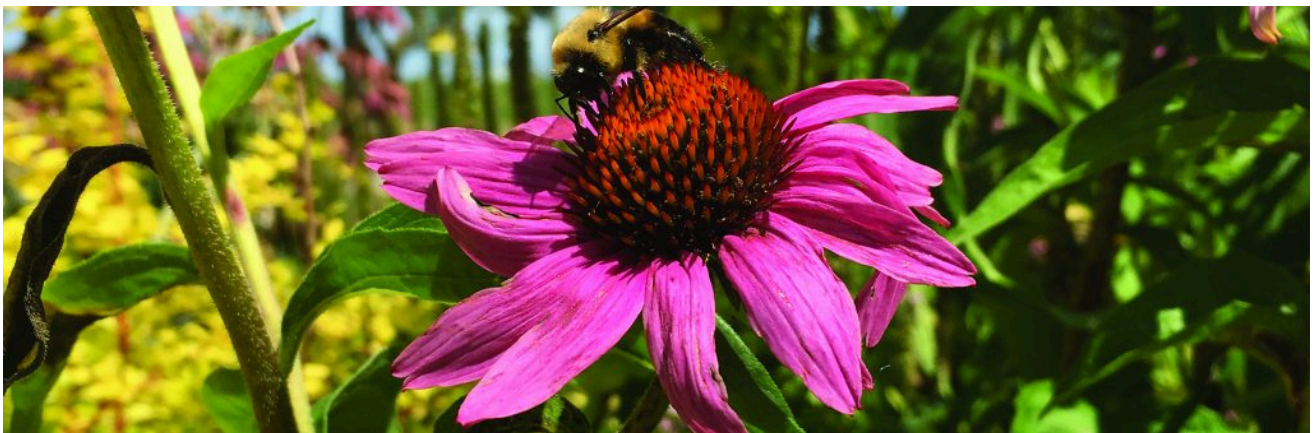




Mohawk College Fennell Campus Biodiversity Inventory September - December 2024



Introduction

In the Fall of 2024 Mohawk Sustainability began connecting with the Mohawk College Community to conduct a biological survey to set a baseline inventory of biodiversity on Mohawk College's Fennell Campus. This inventory will serve as a reference point for future observation of trends in pollinator prevalence and diversity on campus.

The 2024 Fall Fennell Campus Biodiversity Inventory includes observations made for the Fall Semester, September 1st – December 31st. Additionally from October 1st – 11th Mohawk Sustainability hosted a BioBlitz to identify any animals, insects, plants and trees on the Fennell Campus. Sip and Search events and guided nature walks were held to involve the Mohawk Community in adding observations to the iNaturalist project Fennell Campus BioBlitz - Fall 2024.

Summary:

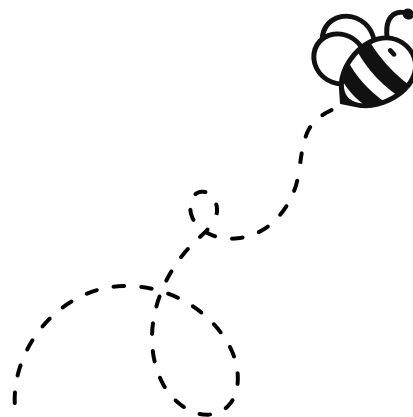
In total 31 staff, students, and community members added their observations to contribute to the Biodiversity Inventory project.

403

**Observations
Made**

169

**Species
Identified**



Inventory Location

The Biodiversity Inventory was performed on the Mohawk College Fennell Campus located at 135 Fennell Avenue West in Hamilton Ontario. Below is a map of the campus boundary and the points of observations made.



Figure 1: Mohawk College Fennell Campus

Specific areas on campus that have been planted with native pollinator plants and maintained as natural spaces were inventoried including:



Mohawk Community Garden



The Miyawaki Forest



Rooftop Pollinator Garden



Governor's Blvd. Bioswale



The Hoop Dance



The Seed Orchard

Inventory Results

What did we find on campus?



Animals



Insects



Spiders



Flowers & Grasses



Trees



Fungi

Fall 2024 Biodiversity Inventory Results

Common Name	Scientific Name	Number Observed
Agrarian Sac Spider	Cheiracanthium Inclusum	1
Agrotina	Agrotina	1
American Asters	Symphotrichum	5
American Crow	Corvus Brachyrhynchos	5
American Sycamore	Platanus Occidentalis	1
Apple	Malus Domestica	3
Apple Scab	Venturia Inaequalis	1
Ashes	Fraxinus	1
Asian Lady Beetle	Harmonia Axyridis	13
Asters	Astereae	1
Autumn Meadowhawk	Sympetrum vicinum	1
Bark Mycena	Mycena Corticola	1
Basswood	Tilia Americana	2
Bean Weevil	Bruchini	1
Beefsteak Plant	Perilla Frutescens	1
Bindweed Family	Convolvulaceae	1
Bittersweet Nightshade	Solanum Dulcamara	3
Black Maple	Acer Nigrum	2
Blanketflowers	Gaillardia	2
Bold Jumping Spider	Diplopoda	1
Brittlestems And Allies	Psathyrellaceae	1
Buckthorns	Rhamnus	1
Bull Thistle	Cirsium Vulgare	4
Bur Oak	Quercus Macrocarpa	2
Burdock	Arctium	1
Butter-And-Eggs	Linaria Vulgaris	5

Introduction

Common Name	Scientific Name	Number Observed
Buttercup Family	Ranunculaceae	1
Canada Goose	Branta Canadensis	3
Canada Thistle	Cirsium arvense	2
Catchflies	Silene	1
Catnip	Nepeta Cataria	2
Caucasian Stonecrop	Phedimus Spurius	3
Chinese Mantis	Tenodera Sinensis	5
Cinquefoils	Potentilla	1
Clouded Sulphur	Colias Philodice	1
Common Buckthorn	Rhamnus Cathartica	1



Sage

Sage holds deep cultural and spiritual importance among Indigenous communities. It is one of the four sacred medicines, alongside cedar, tobacco, and sweetgrass, used in ceremonies, healing practices, and daily rituals.

Common Drone Fly	Eristalis Tenax	1
Common Earthworm	Lumbricus	1
Common Eastern Bumble Bee	Bombus Impatiens	5
Common Evening-Primrose	Oenothera Biennis	1
Common Gilled Mushrooms And Allies	Agaricales	1
Common Groundsel	Senecio Vulgaris	1
Common Idia	Idia	1
Common Milkweed	Asclepias Syriaca	6
Common Motherwort	Leonurus Cardiaca	3
Common Ninebark	Physocarpus Opulifolius	1
Common Pill Woodlouse	Armadillidium Vulgare	1
Common Purslane	Portulaca Oleracea	1
Common Selfheal	Prunella Vulgaris	3
Common Serviceberry	Amelanchier Arborea	1
Crabgrasses, Cottontops, And Allies	Digitaria	1
Cup Plant	Silphium Perfoliatum	1
Dandelions	Taraxacum	7
Dense Blazing Star	Liatris Spicata	1
Dicots	Magnoliopsida	7
Dog-Rose	Rosa Canina	1
Dogwoods	Cornus	1
Downy Woodpecker	Dryobates Pubescens	1
Dwarf Mallow	Malva Neglecta	4
Eastern Calligrapher	Toxomerus Geminatus	1
Easter Cottontail	Sylvilagus floridanus	1
Eastern Cottonwood	Populus Deltoides	2
Eastern Grey Squirrel	Sciurus Carolinensis	5
Eastern Redcedar	Juniperus Virginiana	1
Eastern White Cedar	Thuja Occidentalis	3
Eastern White Pine	Pinus Strobus	1

Introduction

Common Name	Scientific Name	Number Observed
Elms	Ulmus	1
English Oak	Quercus Robur	2
European Earwig	Forficula Auricularia	2
European Harvestman	Phalangium Opilio	1
European Paper Wasp	Polistes Dominula	1

Red-Tailed Hawk

Red-tailed hawks play a crucial role as apex predators, helping to maintain balance in ecosystems by controlling populations of small mammals and other prey. Their presence signifies a healthy, thriving environment.



Evening Primroses, Sundrops, And Beeblossoms	Oenothera	1
False Spirea	Sorbaria	1
Field And Button Mushrooms	Agaricus	2
Field Maple	Acer Campestre	1
Fleabanes And Horseweeds	Erigeron	1
Flowering Plants	Angiospermae	1
Fungi Including Lichens	Fungi	2
German Yellowjacket	Vespula Germanica	1
Glandular Globe-Thistle	Echinops Sphaerocephalus	1
Golden-Crowned Kinglet	Regulus Satrapa	2
Goldenrod Gall Fly	Eurosta Solidaginis	1
Goldenrod Rust	Coleosporium Solidaginis	1
Goldenrods	Solidago	11
Grass Spiders	Agelenopsis	2
Grasses	Poaceae	1
Greater Celandine	Chelidonium Majus	1
Greater Plantain	Plantago Major	1
Ground Crickets	Nemobiinae	1
Ground Yellowjackets	Vespula	1
Groundsels	Senecio	2
Grove Snail	Cepaea	1
Hairy Snail	Trochulus Hispidus	1
Hairy White Oldfield Aster	Symphotrichum Pilosum	1



Red Maple

The maple is a common symbol of strength and endurance and has been chosen as the national tree of Canada. There are 10 species naturally growing in the country, with at least one in each province.

Introduction

Common Name	Scientific Name	Number Observed
Harebell Complex	Campanula Rotundifolia	3
Hawkweed Oxtongue	Picris Hieracioides	1
Henbit Deadnettle	Lamium Amplexicaule	2
Honey Locust	Gleditsia Triacanthos	1
Hop-Hornbeams	Ostrya	1
Horse Mushroom	Agaricus Arvensis	1
Horseweed	Erigeron Canadensis	2
House Sparrow	Passer Domesticus	1
Hover Flies	Syrphidae	1
Hypochaeridinae	Hypochaeridinae	1
Jagged Ambush Bugs	Phymata	1
Jointed Rush	Juncus Articulatus	1
Lance-Leaved Coreopsis	Coreopsis Lanceolata	1
Large-Leaved Avens	Geum Macrophyllum	1
Leafminer	Liriomyza Arctii	1
Little-Leaf Linden	Tilia Cordata	2
Long-Tailed Aphideater Complex	Eupeodes Americanus	2
Maples	Acer	1

Red-breasted Nuthatch

The Red-breasted Nuthatch is a small songbird. The adult has blue-grey upperparts with cinnamon underparts, a white throat and face with a black stripe through the eyes, a straight grey bill and a black crown



Meadowhawks	Sympetrum	2
Meadowsweet	Spiraea	1
Melioides	Melioides	1
Milky Slug	Deroceras reticulatum	1
Mock Strawberry	Potentilla Indica	3
Mulberries	Morus	1
Mustard Family	Brassicaceae	1
Nettles	Urtica	1
New England Aster	Symphotrichum Novae-Angliae	3
Nightshades	Solanum	1
Nitrous Bonnet	Mycena Leptocephala	1
Nodding Onion	Allium Cernuum	1
North American Spur-Throated Grasshoppers	Melanoplus	3
North American Tarnished Plant Bug	Lygus Lineolaris	2
Northern Arrowwood	Viburnum Recognitum	3
Northern Bush Honeysuckle	Diervilla Ionicera	1
Northern Red Oak	Quercus Rubra	3
Norway Maple	Acer Platanoides	2
Norway Spruce	Picea Abies	2
Oaks	Quercus	6
Oblique Streaktail	Allograpta Obliqua	1
Onions	Allium	1

Introduction

Common Name	Scientific Name	Number Observed
Orbweavers	Araneidae	1
Oxtongues	Picris	4
Palm Warbler	Setophaga Palmarum	1
Panicled Aster	Symphotrichum Lanceolatum	2
Paper Birch	Betula Papyrifera	1



Red Mulberry

The berries are edible and sweet. Today, mulberries are eaten raw, used in the fillings of pastries, and fermented into wine. They are also used for marmalades, liquors, natural dyes, and cosmetics.

Pear Rust	Gymnosporangium Sabinae	1
Pillbugs	Armadillidium	1
Pines	Pinus	5
Plantains	Plantago	1
Plants	Plantae	15
Plume Thistles	Cirsium	1
Plums, Cherries, And Allies	Prunus	2
Plums, Cherries, And Allies	Nemobiinae	2
Poplars, Cottonwoods, And Aspens	Populus	1
Powdery Mildew	Golovinomyces Asterum	1
Prickly Sowthistle	Sonchus Asper	1
Primrose	Primula Vulgaris	1
Purple Coneflower	Echinacea Purpurea	2
Red Clover	Trifolium Pratense	1
Red Columbine	Aquilegia Canadensis	1

Canada Goose

The Canada goose is considered part of the Canadian national identity. In North America, nonmigratory Canada goose populations have been on the rise. The species is frequently found on golf courses, parking lots, and urban parks.



Red Maple	Acer Rubrum	1
Red Pine	Pinus Resinosa	1
Red-Breasted Nuthatch	Sitta Canadensis	3
Reddening Lepiota	Leucoagaricus Americanus	1
Red-Legged Grasshopper	Melanoplus Femurrubrum	2

Introduction

Common Name	Scientific Name	Number Observed
Red-Legged Grasshopper	Melanoplus Femurrubrum	2
Red Raspberry	Rubus idaeus	1
Red-Tailed Hawk	Buteo Jamaicensis	1
Rhopalomyia	Rhopalomyia	1
Riverbank Grape	Vitis Riparia	1
Roses	Rosa	1
Round-backed Millipedes	Juliformia	1
Ruby-Crowned Kinglet	Corthylio Calendula	1
Scentless False Mayweed	Tripleurospermum	1
Scots Pine	Pinus Sylvestris	3
Shellbark Hickory	Carya Laciniosa	1
Showy Tick-Trefoil	Desmodium Canadense	1
Siberian Crabapple	Malus Baccata	2
Siberian Elm	Ulmus Pumila	2
Slender Wedgescale	Sphenopholis Intermedia	1
Slender Wheat Grass	Elymus Trachycaulus	1
Small White Aster	Symphyotrichum Racemosum	1
Smooth Blue Aster	Symphyotrichum Laeve	3
Smooth Sumac	Rhus Glabra	1
Southern Arrowwood	Viburnum Dentatum	1
Sow Thistles	Sonchus	3
Spindles	Euonymus	1
Spotted Cucumber Beetle	Diabrotica Undecimpunctata	6
Spotted Lady's Thumb	Persicaria Maculosa	2
Spotted Orbweaver	Neoscona Crucifera	1



Sweat bee

Sweat bees are important pollinators for many wildflowers and crops including sunflowers, stone fruits, apples and alfalfa. As their common name suggests, sweat bees are attracted to perspiration.

Spotted Spurge	Euphorbia Maculata	1
Spruces	Picea	2
Spurges	Euphorbia	1
Stigmella Rhamnicola	Stigmella Rhamnicola	1
Stinking Dapperling	Lepiota Cristata	1
Stonecrop Family	Crassulaceae	3
Strawberries, Cinquefoils, And Allies	Potentilleae	1
Striped Cucumber Beetle	Acalymma Vittatum	2
Sunflowers, Daisies, Asters, And Allies	Asteraceae	3
Swamp Aster	Symphyotrichum Puniceum	1
Sweat Bee	Lasioglossum	2
Switchgrass	Panicum Virgatum	1
Tall Goldenrod	Solidago Altissima	2
Therion	Therion	1
Toadflaxes	Linaria	4

Introduction

Common Name	Scientific Name	Number Observed
True Crickets And Allies	Grylloidea	1
Tulip Tree	Liriodendron Tulipifera	3
Twenty-Spotted Lady Beetle	Psyllobora Vigintimaculata	1
Typical Stone Centipedes	Diplopoda	2
Variegated Lady Beetle	Hippodamia variegata	1
Velvetleaf	Abutilon theophrasti	2
Vetches	Vicia	4
Violets	Viola	1
Western Conifer Seed Bug	Leptoglossus Occidentalis	1
Western Honey Bee	Apis mellifera	1
White Ash	Fraxinus Americana	1
White Dapperling	Leucoagaricus Leucothites	1
White Heath Aster	Symphotrichum Ericoides	5
White Mulberry	Morus Alba	2
White Spruce	Picea Glauca	3
Wild Carrot	Daucus Carota	5
Wild Ryes And Wheatgrasses	Elymus	2
Wild Teasel	Dipsacus Fullonum	1
Wood Avens	Geum Urbanum	1
Wood Ferns	Dryopteris	1
Woodland Strawberry	Fragaria Vesca	1
Woodsorrels	Oxalis	4