

# Queen's University Biological Station Species List: Monocotyledonous Flowering Plants

---

The current list has been compiled by Dr. Ivy Schoepf, [QUBS Research Coordinator](#), in 2018 and includes data gathered by direct observation, collected by researchers at the station and/or assembled using digital distribution maps. The current list of monocotyledonous flowering plants is based on a list of trees, shrubs and vines originally compiled by Mark A. Conboy and Adele Crowder in 2009 and has been updated using resources from [The Natural Heritage Information Centre](#) (April 2018); [The IUCN Red List of Threatened Species](#) (February 2018); [iNaturalist](#) and [GBIF](#). Contact [Ivy](#) to report any errors, omissions and/or new sightings. Because vascular plants (phylum: Tracheophyta) comprise an incredibly diverse phylum, which includes thousands of species, to help the reader navigate their staggering diversity, I have broken it down into several class-based sub-lists. The current list is, therefore, not comprehensive and focuses only on a subset of vascular plants, that of the monocotyledonous flowering plants. If you wish to find information regarding horsetails, conifers, clubmosses & firmosses, adder's-tongues, moonworts & grape-ferns, ferns and dicotyledonous flowering plants, please consult their very own lists published on [our website](#).

Flowering plants (sub-phylum: Angiospermae) have been remarkably difficult to classify and there has been a lot of debate surrounding their taxonomy. We have followed the classification provided by the Takhtajan system and the Cronquist system, which is used by [The IUCN Red List of Threatened Species](#), [iNaturalist](#) and [GBIF](#). Following these systems, flowering plants are grouped into two major classes: Dicotyledoneae (or Magnoliopsida) and Monocotyledonae (or Liliopsida), based on whether the plant has two cotyledons, or embryonic leaves, within each seed (i.e. is a dicot) or has only one (i.e. is a monocot). Saying that, we do recognize that this way of classifying flowering plants is not absolute as recent studies conducted by the Angiosperm Phylogeny Group (APG) have shown that monocots form a monophyletic group, while dicots are paraphyletic. Therefore, we do not assume our list to be definitive and expect it to likely change as more information on genetic and molecular data becomes available.

Based on the aforementioned criteria we can expect to find 212 species of monocotyledonous flowering plants (class: Liliopsida) present at QUBS. All species are considered QUBS residents unless otherwise stated. Seven species are considered as introduced (*i*). Species are reported using their full taxonomy; common name and status, based on whether the species is of global or provincial concern (see Table 1 for details).

**Table 1. Status classification reported for the monocotyledonous flowering plants of QUBS.** Global status based on IUCN Red List of Threatened Species rankings. Provincial status based on Ontario Natural Heritage Information Centre SRank.

Global Status	Provincial Status
<b>Extinct (EX)</b>	<b>Presumed Extirpated (SX)</b>
<b>Extinct in the Wild (EW)</b>	<b>Possibly Extirpated (SH)</b>
<b>Critically Endangered (CR)</b>	<b>Critically Imperiled (S1)</b>
<b>Endangered (EN)</b>	<b>Imperiled (S2)</b>
<b>Vulnerable (Vu)</b>	<b>Vulnerable (S3)</b>
Near Threatened (NT)	Apparently Secure (S4)
Least Concern (LC)	Secure (S5)
Data Deficient (DD)	Unrankable - insufficient information (SU)
Not Evaluated (NE)	Unranked - not yet assessed (SNR)
	Conservation Status Rank Not Applicable (SNA)

Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Alismatales	Alismataceae	<i>Alisma gramineum</i>	Ribbon-leaved Water Plantain	DD	S4
		<i>Alisma subcordatum</i>	American Water Plantain	LC	S4
		<i>Alisma triviale</i>	Northern Water Plantain	LC	S5
		<i>Sagittaria cuneata</i>	Arumleaf Arrowhead	LC	S5
		<i>Sagittaria graminea</i>	Grass-leaved Arrowhead	LC	SNA
		<i>Sagittaria latifolia</i>	Broadleaf Arrowhead	LC	S5
	Araceae	<i>Arisaema triphyllum</i>	Jack-in-the-Pulpit	NE	S5
		<i>Calla palustris</i>	Wild Calla	LC	S5
		<i>Lemna minor</i>	Common Duckweed	LC	S5
		<i>Lemna trisulca</i>	Ivy-leaved Duckweed	LC	S5
		<i>Peltandra virginica</i>	Green Arrow Arum	LC	S3
		<i>Spirodela polyrhiza</i>	Greater Duckweed	LC	S5
		<i>Wolffia brasiliensis</i>	Brazilian Watermeal	NE	S2
		<i>Wolffia columbiana</i>	Columbian Watermeal	NE	SNA
	Hydrocharitaceae	<i>Elodea canadensis</i>	Common Waterweed	NE	S5
		<i>Hydrocharis morsus-ranae</i>	European Frog-Bit ( <i>i</i> )	LC	SNA
		<i>Najas flexilis</i>	Slender Water-Nymph	NE	S4
		<i>Najas guadalupensis</i>	Southern Naiad	NE	S3
	<i>Vallisneria americana</i>	Eel-Grass	NE	S5	
	Potamogetonaceae	<i>Potamogeton amplifolius</i>	Broad-leaved Pondweed	NE	S5
		<i>Potamogeton crispus</i>	Crisp-leaved Pondweed ( <i>i</i> )	LC	SNA
		<i>Potamogeton foliosus</i>	Leafy Pondweed	NE	S5
		<i>Potamogeton gramineus</i>	Grass-leaved Pondweed	LC	S5
		<i>Potamogeton illinoensis</i>	Illinois Pondweed	NE	S4
		<i>Potamogeton natans</i>	Floating-leaved Pondweed	LC	S5
		<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	LC	S4
		<i>Potamogeton ogdenii</i>	Ogden's Pondweed	NE	S2
		<i>Potamogeton perfoliatus</i>	Perfoliate Pondweed	LC	S4
		<i>Potamogeton pusillus</i>	Small Pondweed	NE	S4
		<i>Potamogeton richardsonii</i>	Richardson's Pondweed	NE	S5
		<i>Potamogeton robbinsii</i>	Robbins' Pondweed	NE	S5
<i>Potamogeton spirillus</i>		Spiral Pondweed	LC	S5	
<i>Potamogeton strictifolius</i>		Straight-leaved Pondweed	LC	S4	
<i>Potamogeton zosteriformis</i>		Eel-grass Pondweed	NE	S5	
<i>Stuckenia pectinata</i>	Fennel-leaf Pondweed	NE	S5		
Asparagales	Amaryllidaceae	<i>Allium schoenoprasum</i>	Wild Chives	NE	S4
		<i>Allium tricoccum</i>	Wild Leek	NE	S4
	Asparagaceae	<i>Maianthemum canadense</i>	Canada Mayflower	NE	S5
		<i>Maianthemum racemosum</i>	Large False Solomon's Seal	NE	S5
		<i>Maianthemum stellatum</i>	Star-flowered Lily-of-the-Valley	NE	S5
		<i>Maianthemum trifolium</i>	Three-leaved False Solomon's Seal	NE	S5
		<i>Polygonatum biflorum</i>	Solomon's Seal	NE	S4
		<i>Polygonatum pubescens</i>	Hairy Solomon's Seal	NE	S5
	Iridaceae	<i>Iris versicolor</i>	Northern Blue Flag	NE	S5
		<i>Sisyrinchium angustifolium</i>	Narrow-leaved Blue-eyed-grass	NE	S4
		<i>Sisyrinchium montanum</i>	Strict Blue-eyed Grass	NE	S5
	Orchidaceae	<i>Amerorchis rotundifolia</i>	Roundleaf Orchis	NE	S4
<i>Aplectrum hyemale</i>		Putty Root	NE	S2	
<i>Arethusa bulbosa</i>		Dragon's-mouth	LC	S4	
<i>Calopogon tuberosus</i>		Tuberous Grasspink	NE	S4	
<i>Corallorhiza maculata</i>		Spotted Coralroot	NE	S5	
<i>Cypripedium acaule</i>	Pink Lady's Slipper	LC	S5		

Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Asparagales	Orchidaceae	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	NT	S3
		<i>Cypripedium parviflorum</i>	Yellow Lady's Slipper	LC	S5
		<i>Cypripedium reginae</i>	Showy Lady's Slipper	LC	S4
		<i>Epipactis helleborine</i>	Broad-leaved Helleborine ( <i>i</i> )	NE	SNA
		<i>Galearis spectabilis</i>	Showy Orchis	NE	S4
		<i>Goodyera pubescens</i>	Downy Rattlesnake Plantain	NE	S4
		<i>Goodyera tessellata</i>	Checked Rattlesnake-plantain	NE	S5
		<i>Liparis liliifolia</i>	Purple Twayblade	NE	S2
		<i>Liparis loeselii</i>	Loesel's Twayblade	NE	S4
		<i>Malaxis monophyllos</i>	White Adder's-mouth	NE	S4
		<i>Malaxis unifolia</i>	Green Adder's-mouth	NE	S4
		<i>Platanthera aquilonis</i>	North Wind Bog Orchid	NE	S5
		<i>Platanthera clavellata</i>	Small Green Woodland Orchid	LC	S4
		<i>Platanthera dilatata</i>	White Bog-Orchid	NE	S5
		<i>Platanthera hookeri</i>	Hooker's Orchid	LC	S3
		<i>Platanthera hyperborea</i>	Leafy Northern Green Orchid	LC	S4
		<i>Platanthera obtusata</i>	Blunt-leaved Orchid	NE	S5
		<i>Platanthera psycodes</i>	Small Purple Fringed Orchid	NE	S4
		<i>Pogonia ophioglossoides</i>	Rose Pogonia	NE	S4
		<i>Spiranthes casei</i>	Case's Ladies' Tresses	LC	S4
		<i>Spiranthes cernua</i>	Nodding Ladies' Tresses	NE	SNA
		<i>Spiranthes lacera</i>	Slender Ladies' Tresses	NE	S4
		<i>Spiranthes lucida</i>	Shining Ladies' Tresses	NE	S4
<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses	NE	S2		
Commelinales	Pontederiaceae	<i>Heteranthera dubia</i>	Water Stargrass	LC	S5
		<i>Pontederia cordata</i>	Pickerelweed	NE	S5
Liliales	Colchicaceae	<i>Uvularia grandiflora</i>	Largeflower Bellwort	NE	S5
		<i>Uvularia perfoliata</i>	Perfoliate Bellwort	NE	S1
		<i>Uvularia sessilifolia</i>	Sessile Bellwort	NE	S4
	Liliaceae	<i>Clintonia borealis</i>	Bluebead Lily	NE	S5
		<i>Erythronium americanum</i>	Yellow Trout Lily	NE	S5
		<i>Lilium philadelphicum</i>	Wood Lily	NE	S5
		<i>Medeola virginiana</i>	Indian Cucumber Root	NE	S5
	<i>Streptopus lanceolatus</i>	Rose Twisted-stalk	NE	S5	
	Melanthiaceae	<i>Trillium erectum</i>	Red Trillium	NE	S5
		<i>Trillium grandiflorum</i>	White Trillium	NE	S5
	Smilacaceae	<i>Smilax herbacea</i>	Smooth Carrionflower	NE	S4
<i>Smilax tamnoides</i>		Hispid Greenbrier	LC	S5	
Poales	Cyperaceae	<i>Carex albursina</i>	White Bear Sedge	NE	S5
		<i>Carex arctata</i>	Drooping Woodland Sedge	NE	S5
		<i>Carex atlantica</i>	Prickly Bog Sedge	LC	S1
		<i>Carex aurea</i>	Golden Sedge	NE	S5
		<i>Carex backii</i>	Back's Sedge	NE	S4
		<i>Carex bebbii</i>	Bebb's Sedge	NE	S5
		<i>Carex blanda</i>	Woodland Sedge	NE	S5
		<i>Carex bromoides</i>	Brome-like Sedge	NE	S5
		<i>Carex canescens</i>	Hoary Sedge	LC	S5
		<i>Carex cephalophora</i>	Oval-leaved Sedge	NE	S4
		<i>Carex communis</i>	Fibrous-root Sedge	LC	S5
		<i>Carex comosa</i>	Bristly Sedge	NE	S5
		<i>Carex crinita</i>	Fringed Sedge	NE	S5
		<i>Carex cristatella</i>	Crested Sedge	NE	S5
		<i>Carex cryptolepis</i>	Northeastern Sedge	LC	S4

Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Poales	Cyperaceae	<i>Carex cumulata</i>	Clustered Sedge	NE	S4
	Cyperaceae	<i>Carex deflexa</i>	Bent Northern Sedge	LC	S5
	Cyperaceae	<i>Carex disperma</i>	Two-seeded Sedge	NE	S5
	Cyperaceae	<i>Carex eburnea</i>	Ebony Sedge	NE	S5
	Cyperaceae	<i>Carex echinata</i>	Star Sedge	LC	S5
	Cyperaceae	<i>Carex flava</i>	Yellow-green Sedge	LC	S5
	Cyperaceae	<i>Carex formosa</i>	Handsome Sedge	NE	S4
	Cyperaceae	<i>Carex garberi</i>	Garber's Sedge	NE	S4
	Cyperaceae	<i>Carex gracillima</i>	Graceful Sedge	NE	S5
	Cyperaceae	<i>Carex hirtifolia</i>	Hairy Sedge	NE	S4
	Cyperaceae	<i>Carex houghtoniana</i>	Houghton's Sedge	NE	S5
	Cyperaceae	<i>Carex hystericina</i>	Porcupine Sedge	NE	S5
	Cyperaceae	<i>Carex interior</i>	Inland Sedge	LC	S5
	Cyperaceae	<i>Carex intumescens</i>	Bladder Sedge	NE	S5
	Cyperaceae	<i>Carex lacustris</i>	Lake Sedge	NE	S5
	Cyperaceae	<i>Carex lupulina</i>	Hop Sedge	NE	S5
	Cyperaceae	<i>Carex lurida</i>	Sallow Sedge	NE	S4
	Cyperaceae	<i>Carex novae-angliae</i>	New England Sedge	LC	S4
	Cyperaceae	<i>Carex pallescens</i>	Pale Sedge	NE	S4
	Cyperaceae	<i>Carex peckii</i>	Peck's Sedge	NE	S5
	Cyperaceae	<i>Carex pedunculata</i>	Long-stalked Sedge	NE	S5
	Cyperaceae	<i>Carex pensylvanica</i>	Pennsylvania Sedge	NE	S5
	Cyperaceae	<i>Carex plantaginea</i>	Plantain-leaved Sedge	NE	S5
	Cyperaceae	<i>Carex platyphylla</i>	Broad-leaved Sedge	NE	S4
	Cyperaceae	<i>Carex retrorsa</i>	Retorse Sedge	NE	S5
	Cyperaceae	<i>Carex rosea</i>	Rosy Sedge	NE	S5
	Cyperaceae	<i>Carex scabrata</i>	Eastern Rough Sedge	LC	S5
	Cyperaceae	<i>Carex scoparia</i>	Pointed Broom Sedge	NE	S5
	Cyperaceae	<i>Carex sprengelii</i>	Longbeak Sedge	NE	S5
	Cyperaceae	<i>Carex stipata</i>	Awl-fruited Sedge	NE	S5
	Cyperaceae	<i>Carex tuckermanii</i>	Tuckerman's Sedge	NE	S5
	Cyperaceae	<i>Carex vulpinoidea</i>	Fox Sedge	NE	S5
	Cyperaceae	<i>Carex xanthocarpa</i>	Yellow-headed Fox Sedge	NE	SNR
	Cyperaceae	<i>Cinna latifolia</i>	Drooping Woodreed	NE	S5
	Cyperaceae	<i>Cladium mariscoides</i>	Smooth Saw-Sedge	NE	S5
	Cyperaceae	<i>Cyperus strigosus</i>	Straw-colored Flatsedge	NE	S5
	Cyperaceae	<i>Dulichium arundinaceum</i>	Three-way Sedge	NE	S5
	Cyperaceae	<i>Eleocharis acicularis</i>	Needle Spikerush	LC	S5
	Cyperaceae	<i>Eleocharis obtusa</i>	Engelmann's Spikerush	LC	S1
	Cyperaceae	<i>Eleocharis palustris</i>	Creeping Spikerush	NE	S5
	Cyperaceae	<i>Eriophorum tenellum</i>	Rough Cottongrass	LC	S5
	Cyperaceae	<i>Eriophorum virginicum</i>	Tawny Cotton-Grass	NE	S5
	Cyperaceae	<i>Rhynchospora alba</i>	White Beak-Sedge	LC	S5
	Cyperaceae	<i>Rhynchospora fusca</i>	Brown Beakrush	LC	S4
	Cyperaceae	<i>Schoenoplectus subterminalis</i>	Water Bulrush	NE	S4
	Cyperaceae	<i>Schoenoplectus tabernaemontani</i>	Soft-stemmed Bulrush	LC	S5
	Cyperaceae	<i>Scirpus atrovirens</i>	Dark Green Bulrush	NE	S5
	Cyperaceae	<i>Scirpus cyperinus</i>	Cottongrass Bulrush	NE	S5
	Cyperaceae	<i>Scirpus pendulus</i>	Nodding Bulrush	NE	S5
	Cyperaceae	<i>Trichophorum alpinum</i>	Alpine Clubrush	LC	S5
Echinochloa	<i>Echinochloa muricata</i>	Rough Barnyard Grass	NE	S5	
Eriocaulaceae	<i>Eriocaulon aquaticum</i>	Common Pipewort	LC	S5	
Juncaceae	<i>Juncus canadensis</i>	Canada Rush	NE	S5	

Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Poales	Juncaceae	<i>Juncus dudleyi</i>	Dudley's Rush	NE	S5
		<i>Juncus effusus</i>	Soft Rush	NE	S5
		<i>Juncus filiformis</i>	Thread Rush	NE	S5
		<i>Juncus tenuis</i>	Path Rush	NE	S5
	Poaceae	<i>Agrostis hyemalis</i>	Winter Bentgrass	NE	<b>S1</b>
		<i>Agrostis perennans</i>	Upland Bentgrass	LC	S4
		<i>Alloteropsis cimicina</i>	Bug-seed Grass	NE	SNR
		<i>Andropogon gerardii</i>	Big Bluestem	NE	S4
		<i>Brachyelytrum erectum</i>	Southern Shorthusk	NE	S4
		<i>Calamagrostis canadensis</i>	Canadian Bluejoint	LC	S5
		<i>Cinna arundinacea</i>	Stout Wood Reed	NE	S4
		<i>Danthonia spicata</i>	Poverty Oatgrass	NE	S5
		<i>Deschampsia flexuosa</i>	Wavy Hair-Grass	NE	SNA
		<i>Digitaria ischaemum</i>	Smooth Crabgrass ( <i>i</i> )	NE	SNA
		<i>Echinochloa microstachya</i>	Rough Cockspur	NE	S5
		<i>Elymus hystrix</i>	Bottlebrush Grass	NE	S5
		<i>Elymus repens</i>	Quack Grass ( <i>i</i> )	NE	SNA
		<i>Elymus virginicus</i>	Virginia Wildrye	NE	S5
		<i>Eragrostis pectinacea</i>	Tufted Lovegrass	NE	S5
		<i>Festuca subverticillata</i>	Nodding Fescue	NE	S4
		<i>Glyceria canadensis</i>	Rattlesnake Mannagrass	NE	S5
		<i>Glyceria maxima</i>	Rough Mannagrass ( <i>i</i> )	LC	SNA
		<i>Glyceria striata</i>	Fowl Mannagrass	NE	S5
		<i>Leersia oryzoides</i>	Rice Cutgrass	NE	S5
		<i>Leersia virginica</i>	Virginia Cutgrass	LC	S4
		<i>Milium effusum</i>	Wood Millet	NE	S4
		<i>Muhlenbergia sylvatica</i>	Woodland Muhly	NE	<b>S2</b>
		<i>Oryzopsis asperifolia</i>	White-grained Mountain-Ricegrass	NE	S5
		<i>Oryzopsis racemosa</i>	Black-fruit Mountain-Ricegrass	NE	S4
		<i>Panicum boreale</i>	Northern Panic-grass	NE	S4
		<i>Panicum capillare</i>	Witch Grass	NE	S5
		<i>Panicum depauperatum</i>	Starved Panicgrass	NE	S4
<i>Panicum flexile</i>		Wiry Panicgrass	NE	S4	
<i>Panicum latifolium</i>		Broad-leaved Panic Grass	NE	S4	
<i>Panicum latifolium</i>		Broad-leaf Witchgrass	NE	SNR	
<i>Panicum xanthophysum</i>		Slender Rosette Grass	NE	SNR	
<i>Phalaris arundinacea</i>		Reed Canary Grass	NE	S5	
<i>Phragmites australis</i>		Common Reed	NE	S4	
<i>Poa alsodes</i>		Grove Meadow Grass	NE	S4	
<i>Poa palustris</i>		Swamp Meadow-Grass	LC	S5	
<i>Poa pratensis</i>		Kentucky Bluegrass	NE	S5	
<i>Poa saltuensis</i>		Weak Bluegrass	NE	<b>S3</b>	
<i>Puccinellia nuttalliana</i>	Nuttall's Alkaligrass	LC	SNA		
<i>Sorghastrum nutans</i>	Indiangrass	NE	S4		
<i>Sporobolus cryptandrus</i>	Sand Dropseed	NE	S4		
<i>Sporobolus michauxianus</i>	Prairie Cordgrass	NE	S4		
<i>Torreyochloa pallida</i>	Pale False Mannagrass	LC	S4		
Typhaceae	<i>Sparganium americanum</i>	American Bur-Reed	NE	S5	
	<i>Sparganium androcladum</i>	Branching Burreed	LC	<b>SH</b>	
	<i>Sparganium emersum</i>	Unbranched Bur-Reed	LC	SU	
	<i>Sparganium eurycarpum</i>	Broad-fruited Bur-Reed	NE	S5	
	<i>Sparganium fluctuans</i>	Floating Burreed	LC	S5	
	<i>Typha angustifolia</i>	Narrow-leaved Cattail ( <i>i</i> )	LC	SNA	

<b>Order</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Global Status</b>	<b>Provincial Status</b>
Poales	Typhaceae	<i>Typha latifolia</i>	Broad-leaved Cattail	NE	S5