

# Queen's University Biological Station Species List: Clubmosses and Firmosses

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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 list has been put together 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 clubmosses and firmosses. If you wish to find information regarding ferns, horsetails, conifers and flowering plants, please consult their very own lists published on [our website](#).

Based on the aforementioned criteria we can expect to find nine clubmosses and firmosses (class: Lycopodiopsida) present at QUBS. All species are considered QUBS residents. 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 clubmosses and firmosses 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)

<b>Order</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Global Status</b>	<b>Provincial Status</b>
Isoetales	Isoetaceae	<i>Isoetes echinospora</i>	Spiny-spored Quillwort	NE	S5
		<i>Dendrolycopodium dendroideum</i>	Prickly Tree-Clubmoss	NE	S5
		<i>Dendrolycopodium obscurum</i>	Flat-branched Tree-Clubmoss	NE	S4
		<i>Diphasiastrum complanatum</i>	Flat-stemmed Clubmoss	NE	S5
Lycopodiales	Lycopodiaceae	<i>Diphasiastrum digitatum</i>	Fan Clubmoss	NE	S5
		<i>Diphasiastrum tristachyum</i>	Blue Clubmoss	NE	S5
		<i>Huperzia lucidula</i>	Shining Clubmoss	NE	S5
		<i>Lycopodium clavatum</i>	Stag's-horn Clubmoss	NE	S5
Selaginellales	Selaginellaceae	<i>Selaginella rupestris</i>	Rock Spikemoss	NE	S5