

Queen's University Biological Station Species List: Liverworts and Stoneworts

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.



Figure 1. QUBS protect a few species of liverworts and stoneworts. While liverworts are often overlooked in favour of other plants, they are remarkably hardy and occur globally in a wide range of habitats, including the Arctic and in deserts. Photo courtesy of [Dr. Grég Bulté](#).

Based on the aforementioned criteria we can expect to find 11 liverwort and two stonewort (phylum: Charophyta) species 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 liverworts and stoneworts 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
Extinct (EX)	Presumed Extirpated (SX)
Extinct in the Wild (EW)	Possibly Extirpated (SH)
Critically Endangered (CR)	Critically Imperiled (S1)
Endangered (EN)	Imperiled (S2)
Vulnerable (Vu)	Vulnerable (S3)
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)

Phylum	Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status	
Charophyta	Charophyceae	Charales	Characeae	<i>Chara contraria</i>	Opposite Stonewort	NE	SNR	
				<i>Chara globularis</i>	Fragile Stonewort	NE	SNR	
Marchantiophyta	Jungermanniopsida	Jungermanniales	Anastrophyllaceae	<i>Barbilophozia barbata</i>	Bearded Pawwort	NE	S4	
			Harpanthaceae	<i>Harpanthus drummondii</i>	Drummond's Crestwort	NE	S3	
			Ptilidiaceae	<i>Ptilidium pulcherrimum</i>	Tree Fringewort	NE	S5	
		Porellales	Frullaniaceae	<i>Frullania eboracensis</i>	New York Scalewort	NE	S5	
			Porellaceae	<i>Porella platyphylla</i>	Wall Scalewort	NE	S4	
			Radulaceae	<i>Radula complanata</i>	Flat-leaved Scalewort	NE	S4	
			Conocephalaceae	<i>Conocephalum salebrosum</i>	Snakewort	NE	S5	
		Marchantiopsida	Marchantiales	Marchantiaceae	<i>Marchantia polymorpha</i>	Common Liverwort	NE	S5
				Rebouliaaceae	<i>Mannia fragrans</i>	Fragrant Macewort	NE	S3
				Ricciaceae	<i>Riccia fluitans</i>	Floating Crystalwort	NE	S5
					<i>Ricciocarpos natans</i>	Fringed Heartwort	NE	S5