

# Queen's University Biological Station Species List: Crustaceans

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 is based on a previous list compiled by Mark Conboy in 2010 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.

Based on the aforementioned criteria we can expect to find at least 35 species of crustaceans (phylum: Arthropoda, sub-phylum: Crustacea) present at QUBS. 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). All species are considered QUBS residents unless otherwise stated. Two species are considered as introduced (*i*).



**Figure 1.** Some of the most abundant crustaceans have microscopic proportions, such as this tiny *Daphnia pulicaria*. Researchers from [Prof. Shelley Arnott](#)'s lab from Queen's University are researching the effects of salt contamination on local zooplankton communities, including Daphnia. Photo courtesy of Shirley French.

**Table 1. Status classification reported for the crustaceans 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)

Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status	
Branchiopoda	Anostraca	Chirocephalidae	<i>Eubbranchipus bundyi</i>	Knob-lip Fairy Shrimp	NE	SNR	
		Bosminidae	<i>Bosmina freyi</i>		NE	SNR	
	<i>Bosmina liederi</i>			NE	SNR		
	Chydoridae	<i>Bosmina longirostris</i>	Common Long-nosed Water Flea	NE	SNR		
		<i>Alona costata</i>	Striped Beaked Water Flea	NE	SNR		
		<i>Chydorus sphaericus</i>	Common Ball Water Flea	NE	SNR		
		<i>Disparalona hamata</i>		NE	SNR		
		<i>Pleuroxus denticulatus</i>		NE	SNR		
		<i>Pleuroxus stramineus</i>		NE	SNR		
		<i>Pleuroxus varidentatus</i>		NE	SNR		
		<i>Ceriodaphnia dubia</i>		NE	SNR		
	Diplostraca	Daphniidae	<i>Daphnia mendotae</i>		NE	SNR	
			<i>Daphnia pulex</i>	Common Water Flea	NE	SNR	
			<i>Daphnia pulex</i>		NE	SNR	
			<i>Scapholebris mucronata</i>	Meniscus Water Flea	NE	SNR	
			<i>Simocephalus exspinosus</i>		NE	SNR	
			<i>Simocephalus punctatus</i>		NE	SNR	
			<i>Simocephalus serrulatus</i>		NE	SNR	
			Eurycercidae	<i>Camptocercus rectirostris</i>	Broad Stilt Water Flea	NE	SNR
				<i>Eurycercus lamellatus</i>	Giant Crawling Water Flea	NE	SNR
<i>Eurycercus longirostris</i>					NE	SNR	
Macrothricidae	<i>Drepanothrix dentata</i>		NE	SNR			
Ophryoxidae	<i>Ophryoxus gracilis</i>		NE	SNR			
Polyphemidae	<i>Polyphemus pediculus</i>	Predatory Giant-eyed Water Flea	NE	SNR			
Sididae	<i>Sida crystallina</i>		NE	SNR			
Malacostraca	Amphipoda	Hyalellidae	<i>Hyalella azteca</i>	Mexican Freshwater Shrimp	NE	SNR	
	Decapoda	Cambaridae	<i>Cambarus robustus</i>	Big Water Crayfish	LC	S3	
			<i>Orconectes immunis</i>	Calico Crayfish	LC	S4	
			<i>Orconectes propinquus</i>	Northern Clearwater Crayfish	LC	S5	
			<i>Orconectes virilis</i>	Virile Crayfish	LC	S5	
	Isopoda	Porcellionidae	<i>Porcellio spinicornis</i>	Painted Woodlouse ( <i>i</i> )	NE	SNA	
		Trachelipodidae	<i>Trachelipus rathkii</i>	Rathki's Woodlouse ( <i>i</i> )	NE	SNA	
		Trichoniscidae	<i>Hyloniscus riparius</i>		NE	SNR	
		<i>Trichoniscus pusillus</i>	Common Pygmy Woodlouse	NE	SNR		
Ostracoda	Podocopida	Cyprididae	<i>Cypridopsis vidua</i>	Knob-lip Fairy Shrimp	NE	SNR	