

Queen's University Biological Station Species List: Other Arthropods

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 arthropods comprise an incredibly diverse phylum, which includes thousands of species, to help the reader navigate their staggering diversity, I have broken down the entire phylum into several order- and class-based sub-lists. The current list is, therefore, not comprehensive and focuses only on a subset of arthropods. For information regarding arachnids; beetles; crickets & grasshoppers; crustaceans; dragonflies; flies; hymenopterans; and moths & butterflies, please consult their very own lists published on [our website](#).



Figure 1. Northern walkingsticks (*Diaperomera femorata*) can be quite large and measure up to 95 mm, with females typically being larger than males. The one pictured here from QUBS is a rather small individual, only measuring 50 mm. Photo courtesy of [Dr. Ivy Schoepf](#)

Based on the aforementioned criteria we can expect to find 84 additional arthropod species (phylum: Arthropoda) present at QUBS. These include 68 insects (class: Insecta); eight millipedes (class: Diplopoda); five springtails (class: Entognatha); two centipedes (class: Chilopoda); and one hexanauplian (class: Hexanauplia). Five 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 other arthropods 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)

Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Chilopoda	Geophilomorpha	Schendylidae	<i>Schendyla nemorensis</i>	(i)	NE	SNA
	Scutigermomorpha	Scutigeridae	<i>Scutigera coleoptrata</i>	House Centipede (i)	NE	SNA
Diplopoda	Julida	Julidae	<i>Ophiulus pilosus</i>		NE	SNR
		Paradoxosomatidae	<i>Oxidus gracilis</i>	Greenhouse Millipede (i)	NE	SNA
	Polydesmida	Polydesmidae	<i>Pseudopolydesmus canadensis</i>		NE	SNR
			<i>Pseudopolydesmus serratus</i>		NE	SNR
		Xystodesmidae	<i>Sigmoria trimaculata</i>		NE	SNR
	Polyxenida	Polyxenidae	<i>Polyxenus lagurus</i>	Bristly Millipede	NE	SNR
Spirobolida	Spirobolidae	<i>Narceus americanus</i>	American Giant Millipede	NE	SNR	
		<i>Narceus annularis</i>		NE	SNR	
Entognatha	Collembola	Entomobryidae	<i>Entomobrya nivalis</i>	Cosmopolitan Springtail	NE	SNR
			<i>Lepidocyrtus paradoxus</i>		NE	SNR
		Isotomidae	<i>Folsomia nivalis</i>		NE	SNR
		<i>Isotoma notabilis</i>		NE	SNR	
	Neanuridae	<i>Neanura muscorum</i>		NE	SNR	
Hexanauplia	Calanoida	Diaptomidae	<i>Diaptomus oregonensis</i>		NE	SNR
Insecta	Blattodea	Blatellidae	<i>Parcoblatta pennsylvanica</i>	Pennsylvania Wood Cockroach	NE	SNR
	Dermaptera	Forficulidae	<i>Forficula auricularia</i>	European Earwig (i)	NE	SNA
			<i>Callibaetis ferrugineus</i>	Red Small Minnow Mayfly	NE	SU
		Baetidae	<i>Cloeon dipterum</i>	Pond Small Minnow Mayfly	NE	SU
	Ephemeroptera	Caenidae	<i>Caenis diminuta</i>	Northern Small Square-gilled Mayfly	NE	SU
		Ephemerellidae	<i>Eurylophella temporalis</i>	Temporal Spiny Crawler Mayfly	NE	S4
		Heptageniidae	<i>Maccaffertium modestum</i>	Modest Flat-headed Mayfly	NE	SU
	<i>Stenacron interpunctatum</i>		Common Flat-headed Mayfly	NE	S4	
	<i>Stenonema femoratum</i>		Red Fox Flat-headed Mayfly	NE	S4	
	Hemiptera	Aphididae	<i>Aphis nerii</i>	Oleander Aphid	NE	SNA
Aphrophoridae		<i>Lepyronia coleoptrata</i>		NE	SNA	

Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Insecta	Hemiptera	Belostomatidae	<i>Lethocerus americanus</i>	American Giant Water Bug	NE	SNA
		Cicadellidae	<i>Colladonus clitellarius</i>	Saddled Leafhopper	NE	SNR
			<i>Dikraneura mali</i>		NE	SNR
			<i>Graphocephala coccinea</i>	Red-banded Leafhopper	NE	SNR
			<i>Hymetta balteata</i>		NE	SNR
			<i>Idiocerus alternatus</i>		NE	SNR
			<i>Latalus sayii</i>		NE	SNR
			<i>Norvellina seminuda</i>		NE	SNR
			<i>Penthimia americana</i>		NE	SNR
			<i>Prescottia lobata</i>		NE	SNR
			Clastopteridae	<i>Clastoptera proteus</i>	Dogwood Spittle Bug	NE
		Coreidae	<i>Acanthocephala terminalis</i>		NE	SNA
			<i>Leptoglossus occidentalis</i>	Western Conifer Seed Bug	NE	SNA
		Epipygidae	<i>Aphrophora cribrata</i>	Pine Spittlebug	NE	S5
		Eriococcidae	<i>Cryptococcus fagisuga</i>	Beech Scale	NE	SNA
		Flatidae	<i>Metcalfa pruinosa</i>	Citrus Flatid Planthopper	NE	SNA
		Lygaeidae	<i>Lygaeus kalmi</i>	Small Milkweed Bug	NE	SNA
		Pentatomidae	<i>Banasa dimidiata</i>	Green Burgundy Stink Bug	NE	SNA
			<i>Chinavia hilaris</i>	Green Stink Bug	NE	SNA
			<i>Cosmopepla lintneriana</i>	Twice-stabbed Stink Bug	NE	SNA
		Reduviidae	<i>Zelus luridus</i>	Pale Green Assassin Bug	NE	SNA
		Rhopalidae	<i>Boisea trivittata</i>	Eastern Boxelder Bug	NE	SNA
		Mantodea	Mantidae	<i>Mantis religiosa</i>	European Mantis (<i>i</i>)	LC
Megaloptera	Corydalidae	<i>Chauliodes pectinicornis</i>	Summer Fishfly	NE	SNA	
		<i>Chauliodes rastricornis</i>	Spring Fishfly	NE	SNA	
		<i>Corydalus cornutus</i>	Eastern Dobsonfly	NE	SNA	
		<i>Nigronia serricornis</i>	Serrate Dark Fishfly	NE	SNR	
		<i>Sialis vagans</i>		NE	SNR	
	Sialidae	<i>Sialis velata</i>		NE	SNR	

Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status	
Insecta	Neuroptera	Mantispidae	<i>Climaciella brunnea</i>	Wasp Mantidfly	NE	S4	
			<i>Dicromantispa interrupta</i>	Four-spotted Mantidfly	NE	SU	
			<i>Dicromantispa sayi</i>	Say's Mantidfly	NE	SU	
	Phasmida	Diapheromeridae	<i>Diapheromera femorata</i>	Northern Walkingstick	NE	S4	
	Plecoptera	Capniidae	<i>Allocapnia vivipara</i>	Shortwing Snowfly	NE	SNR	
		Nemouridae	<i>Soyedina vallicularia</i>	Valley Forestfly	NE	SU	
		Perlidae		<i>Acroneuria abnormis</i>	Common Stone	NE	SU
				<i>Acroneuria lycorias</i>	Boreal Stone	NE	S4
				<i>Paragnetina media</i>	Embossed Stone	NE	S4
		Taeniopterygidae		<i>Strophopteryx fasciata</i>	Mottled Willowfly	NE	S4
				<i>Taeniopteryx nivalis</i>	Boreal Willowfly	NE	SNR
	Psocodea	Psocidae	<i>Metylophorus novaescotiae</i>		NE	SNR	
			<i>Psocus leidyi</i>		NE	SNR	
	Thysanoptera	Thripidae	<i>Taeniothrips inconsequens</i>		NE	SNR	
	Trichoptera	Dipseudopsidae		<i>Phylocentropus placidus</i>	Calm Pitot-tube Caddisfly	NE	S4
				<i>Cheumatopsyche analis</i>	Little Sister Net-spinning Caddisfly	NE	SU
		Hydropsychidae		<i>Cheumatopsyche campyla</i>	Bent Net-spinning Caddisfly	NE	S4
				<i>Hydropsyche betteni</i>	Betten's Net-spinning Caddisfly	NE	S4
				<i>Hydropsyche dicantha</i>	Two-edged Net-spinning Caddisfly	NE	S4
				<i>Macrostemum zebratum</i>	Zebra Caddis	NE	S4
Hydroptilidae			<i>Orthotrichia aegerfasciella</i>	Sickly Microcaddisfly	NE	SU	
Leptoceridae			<i>Ceraclea cancellata</i>	Cancelled Long-horned Caddisfly	NE	SU	
			<i>Nectopsyche exquisita</i>	Exquisite Long-horned Caddisfly	NE	S4	
			<i>Oecetis inconspicua</i>	Inconspicuous Long-horned Caddisfly	NE	S4	

Class	Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Insecta	Trichoptera	Leptoceridae	<i>Triaenodes nox</i>	Nighttime Long-horned Caddisfly	NE	SU
		Limnephilidae	<i>Pycnopsyche guttifera</i>	Flecked Northern Caddisfly	NE	S4
			<i>Pycnopsyche lepida</i>	Scaly Northern Caddisfly	NE	S4
		Pryganeidae	<i>Oligostomis ocelligera</i>	Acid Giant Caddisfly	NE	SU