

Queen’s University Biological Station Species List: Flies

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 compiled 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 221 species of flies (class: Insecta, Order: Diptera) present at QUBS. All species are considered QUBS residents unless otherwise stated. Two species are considered to be 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).



Figure 1. Deer flies in the genus *Chrysops* are commonly seen during the summer months at QUBS. Only deer flies females feed on blood and typically do so to lay their eggs. Males are typically only nectar feeders. In addition to provide important ecosystem services as pollinators, deer flies are also integral parts of the food chain of many species, including frogs and toads, spiders, wasps and hornets, dragonflies and certain bird species. Photo courtesy of [Dr. Ivy Schoepf](#).

Table 1. Status classification reported for the flies 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)

Family	Scientific Name	Common Name	Global Status	Provincial Status
Agromyzidae	<i>Cerodontha longipennis</i>		NE	SNR
	<i>Chromatomyia lactuca</i>		NE	SNR
	<i>Liriomyza fricki</i>		NE	SNR
	<i>Nemorimyza posticata</i>		NE	SNR
	<i>Phytomyza crassiseta</i>		NE	SNR
Anisopodidae	<i>Sylvicola alternatus</i>		NE	SNR
Anthomyiidae	<i>Delia platura</i>	Seedcorn Maggot	NE	SNR
	<i>Eutrichota lipsia</i>		NE	SNR
	<i>Hydrophoria lancifer</i>		NE	SNR
	<i>Hylemyza partita</i>		NE	SNR
Asilidae	<i>Laphria posticata</i>		NE	SNR
	<i>Laphria thoracica</i>	Bumble Bee-mimic Robber Fly	NE	SNR
Aulacigastridae	<i>Aulacigaster neoleucopeza</i>		NE	SNR
Bombyliidae	<i>Bombylius major</i>	Greater Bee Fly	NE	S5
	<i>Bombylius pygmaeus</i>	Pygmy Bee Fly	NE	S4
	<i>Exoprosopa decora</i>	Adorned Bee Fly	NE	S3
	<i>Hemipenthes morio</i>	Mischievous Bee Fly	NE	S4
	<i>Hemipenthes sinuosa</i>	Sinuuous Bee Fly	NE	S3
Calliphoridae	<i>Calliphora livida</i>		NE	SNR
	<i>Cynomya cadaverina</i>		NE	SNR
	<i>Phormia regina</i>	Black Blow Fly	NE	SNR
	<i>Pollenia pediculata</i>	Tufted Cluster Fly	NE	SNR
	<i>Pollenia rudis</i>	Cluster Fly	NE	SNR
Cecidomyiidae	<i>Asteromyia modesta</i>		NE	SNR
	<i>Rabdophaga strobiloides</i>	Willow Pinecone Gall Midge	NE	SNA
Chironomidae	<i>Ablabesmyia monilis</i>		NE	SNR
	<i>Camptocladius tritoma</i>		NE	SNR
	<i>Chironomus acidophilus</i>		NE	SNR
	<i>Chironomus bifurcatus</i>		NE	SNR
	<i>Chironomus maturus</i>		NE	SNR
	<i>Chironomus melanescens</i>		NE	SNR
	<i>Corynoneura scutellata</i>		NE	SNR
	<i>Gymnometriocnemus brumalis</i>		NE	SNR
	<i>Limnophyes minimus</i>		NE	SNR
	<i>Micropsectra nigripila</i>		NE	SNR
	<i>Micropsectra polita</i>		NE	SNR
	<i>Monopelopia tenuicalcar</i>		NE	SNR
	<i>Paraphaenocladius impensus</i>		NE	SNR
	<i>Paratanytarsus laccophilus</i>		NE	SNR
	<i>Procladius denticulatus</i>		NE	SNR
	<i>Smittia stercoraria</i>		NE	SNR
	<i>Tanytarsus mendax</i>		NE	SNR
<i>Thienemanniella xena</i>		NE	SNR	
Chloropidae	<i>Elachiptera nigriceps</i>		NE	SNR
	<i>Eribolus nana</i>		NE	SNR
	<i>Liohippelates bishoppi</i>		NE	SNR
	<i>Oscinisoma alienum</i>		NE	SNR
	<i>Parectecephala eucera</i>		NE	SNR
	<i>Thaumatomyia pulla</i>		NE	SNR
	<i>Tricimba melancholica</i>		NE	SNR
Clusiidae	<i>Clusia czernyi</i>		NE	SNR
	<i>Clusiodes ater</i>		NE	SNR
	<i>Clusiodes melanostomus</i>		NE	SNR
	<i>Clusiodes orbitalis</i>		NE	SNR
Conopidae	<i>Physocephala furcillata</i>		NE	SNR

Family	Scientific Name	Common Name	Global Status	Provincial Status
Culicidae	<i>Aedes vexans</i>	Inland Floodwater Mosquito	NE	SNR
	<i>Anopheles walkeri</i>	Permanent Marsh Mosquito	NE	S3
	<i>Coquillettidia perturbans</i>	Cattail Mosquito	NE	S5
	<i>Culex territans</i>	Northern Frog-biting Mosquito	NE	S5
	<i>Tipula dorsimacula</i>		NE	SNR
	<i>Uranotaenia sapphirina</i>	Sapphire-striped Mosquito	NE	SU
Dolichopodidae	<i>Amblypsilopus scintillans</i>		NE	SNR
	<i>Dolichopus comatus</i>		NE	SNR
	<i>Pelastoneurus vagans</i>		NE	SNR
	<i>Sympycnus lineatus</i>		NE	SNR
Drosophilidae	<i>Chymomyza amoena</i>		NE	SNR
	<i>Scaptomyza flava</i>	Brassica Leaf Miner	NE	SNR
	<i>Scaptomyza pallida</i>		NE	SNR
Dryomyzidae	<i>Dryomyza anilis</i>		NE	SNR
	<i>Dryomyza simplex</i>		NE	SNR
Ephydriidae	<i>Philygria debilis</i>		NE	SNR
Heleomyzidae	<i>Suillia quinquepunctata</i>		NE	SNR
Hybotidae	<i>Tachypeza fenestrata</i>		NE	SNR
Keroplastidae	<i>Mycetophila fungorum</i>		NE	SNR
	<i>Mycetophila ocellus</i>		NE	SNR
	<i>Mycetophila strigatoides</i>		NE	SNR
	<i>Orfelia nemoralis</i>		NE	SNR
Lauxaniidae	<i>Drosophila affinis</i>		NE	SNR
	<i>Drosophila falleni</i>		NE	SNR
	<i>Drosophila quinaria</i>		NE	SNR
Limoniidae	<i>Epiphragma fasciapenne</i>	Band-winged Crane Fly	NE	SNR
	<i>Erioptera caliptera</i>		NE	SNR
	<i>Gnophomyia tristissima</i>		NE	SNR
	<i>Metalimnobia immatura</i>		NE	SNR
	<i>Metalimnobia triocellata</i>		NE	SNR
	<i>Rhipidia maculata</i>		NE	SNR
	<i>Symplecta cana</i>		NE	SNR
Lonchaeidae	<i>Helina evecta</i>		NE	SNR
	<i>Helina rufitibia</i>		NE	SNR
Lonchopteridae	<i>Lonchoptera bifurcata</i>		NE	SNR
Micropezidae	<i>Compsobata univitta</i>		NE	SNR
Muscidae	<i>Caricea alma</i>		NE	SNR
	<i>Caricea erythrocerata</i>		NE	SNR
	<i>Coenosia tigrina</i>		NE	SNR
	<i>Eudasyphora cyanicolor</i>		NE	SNR
	<i>Macrorchis ausoba</i>		NE	SNR
	<i>Muscina levida</i>		NE	SNR
	<i>Muscina pascuorum</i>		NE	SNR
	<i>Myospila meditabunda</i>		NE	SNR
	<i>Neodexiopsis calopyga</i>		NE	SNR
	<i>Phaonia apicata</i>		NE	SNR
<i>Phaonia fuscana</i>		NE	SNR	
Opomyzidae	<i>Geomyza tripunctata</i>	Cereal Fly	NE	SNR
Phoridae	<i>Anevrina macateei</i>		NE	SNR
	<i>Anevrina thoracica</i>		NE	SNR
	<i>Diplonevra nitidula</i>		NE	SNR
	<i>Megaselia arcticae</i>		NE	SNR
	<i>Megaselia aristalis</i>		NE	SNR
	<i>Megaselia rufipes</i>		NE	SNR
Pipunculidae	<i>Chalarus decorus</i>		NE	SNR

Family	Scientific Name	Common Name	Global Status	Provincial Status
Platystomatidae	<i>Nemopoda nitidula</i>		NE	SNR
Psychodidae	<i>Psychoda trinodulosa</i>		NE	SNR
	<i>Telmatoscopus albipunctata</i>		NE	SNR
Ptychopteridae	<i>Bittacomorpha clavipes</i>	Phantom Crane Fly	NE	SNR
Pyrgotidae	<i>Pyrgota valida</i>		NE	SNR
Rhagionidae	<i>Rhagio mystaceus</i>	Common Snipe Fly	NE	SNR
	<i>Symphoromyia fulvipes</i>		NE	SNR
Sarcophagidae	<i>Boettcheria cimbicis</i>		NE	SNR
	<i>Boettcheria latisterna</i>		NE	SNR
	<i>Helicobia rapax</i>		NE	SNR
	<i>Ravinia querula</i>		NE	SNR
	<i>Sarcophaga sinuata</i>		NE	SNR
Scathophagidae	<i>Cordilura pleuritica</i>		NE	SNR
	<i>Scathophaga furcata</i>		NE	SNR
	<i>Scathophaga stercoraria</i>	Yellow Dung Fly	NE	SNR
Sciaridae	<i>Bradysia giraudii</i>		NE	SNR
	<i>Bradysia impatiens</i>		NE	SNR
	<i>Bradysia nitidicollis</i>		NE	SNR
	<i>Bradysia placida</i>		NE	SNR
	<i>Bradysia splendida</i>		NE	SNR
	<i>Bradysiopsis vittigera</i>		NE	SNR
	<i>Camptochaeta cursor</i>		NE	SNR
	<i>Camptochaeta furcata</i>		NE	SNR
	<i>Phytosciara prosciaroides</i>		NE	SNR
Sciomyzidae	<i>Atrichomelina pubera</i>		NE	SNR
	<i>Sepedon fuscipennis</i>		NE	SNR
Sepsidae	<i>Sepsis punctum</i>		NE	SNR
Simuliidae	<i>Prosimulium arvum</i>	Field Black Fly	NE	SNR
Sphaeroceridae	<i>Apteromyia claviventris</i>		NE	SNR
	<i>Coproica ferruginata</i>		NE	SNR
	<i>Copromyza equina</i>		NE	SNR
	<i>Ischiolepta pusilla</i>		NE	SNR
	<i>Lotophila atra</i>		NE	SNR
	<i>Pullimosina pullula</i>		NE	SNR
	<i>Spelobia bifrons</i>		NE	SNR
	<i>Spelobia clunipes</i>		NE	SNR
	<i>Spelobia maculipennis</i>		NE	SNR
Stratiomyidae	<i>Actina viridis</i>		NE	SNR
	<i>Allognosta fuscitarsis</i>		NE	SNR
	<i>Microchrysa polita</i>	Black-horned Gem	NE	SNR
	<i>Odontomyia cincta</i>		NE	SNR
	<i>Sargus decorus</i>		NE	SNR
Syrphidae	<i>Brachyopa daeckei</i>		NE	SU
	<i>Brachyopa flavescens</i>		NE	S4
	<i>Brachyopa notata</i>	Black-banded Sapeater	NE	S4
	<i>Brachyopa perplexa</i>		NE	S4
	<i>Brachypalpus oarus</i>	Eastern Catkin Fly	NE	S3
	<i>Chalcosyrphus nemorum</i>	Dusky-banded Forest Fly	NE	S4
	<i>Dasysyrphus venustus</i>	Transverse Conifer Fly	NE	S4
	<i>Eristalis anthophorina</i>	Orange-spotted Drone Fly	NE	S5
	<i>Eristalis dimidiata</i>	Black-shouldered Drone Fly	NE	S5
	<i>Eristalis flavipes</i>	Orange-legged Drone Fly	NE	S5
<i>Eristalis tenax</i>	Drone Fly (<i>i</i>)	NE	SNA	

Family	Scientific Name	Common Name	Global Status	Provincial Status
Syrphidae	<i>Eristalis transversa</i>	Transverse Flower Fly	NE	S5
	<i>Eumerus strigatus</i>	Onion Bulb Fly (<i>i</i>)	NE	SNA
	<i>Ferdinandea buccata</i>		NE	S4
	<i>Helophilus fasciatus</i>	Narrow-headed Sun Fly	NE	S5
	<i>Lejops lineatus</i>	Long-nosed Swamp Fly	NE	S4
	<i>Lejops lunulatus</i>		NE	S4
	<i>Melangyna lasiophthalma</i>		NE	S4
	<i>Meliscaeva cinctella</i>	American Thintail	NE	S4
	<i>Musca autumnalis</i>	Face Fly	NE	SNR
	<i>Musca stabulans</i>		NE	SNR
	<i>Myolepta nigra</i>		NE	S4
	<i>Neoscia distincta</i>		NE	S4
	<i>Orthonevra anniae</i>		NE	S2
	<i>Paragus haemorrhous</i>		NE	S4
	<i>Parhelophilus rex</i>	Dusky Bog Fly	NE	S4
	<i>Platycheirus confusus</i>		NE	S4
	<i>Platycheirus granditarsis</i>		NE	S4
	<i>Platycheirus hyperboreus</i>		NE	SU
	<i>Platycheirus obscurus</i>		NE	S4
	<i>Platycheirus quadratus</i>	Meadow Sedgesitter	NE	S5
	<i>Rhingia nasica</i>	American Heineken Fly	NE	S5
	<i>Sericomyia chrysotoxoides</i>	Oblique-banded Pond Fly	NE	S5
	<i>Somula decora</i>	Spotted Wood Fly	NE	S4
	<i>Spilomyia fusca</i>	Bald-faced Hornet Fly	NE	S4
	<i>Syritta pipiens</i>	Thick-legged Hoverfly	NE	SNA
	<i>Temnostoma alternans</i>	Wasp-like Falsehorn	NE	S4
	<i>Toxomerus geminatus</i>	Eastern Calligrapher	NE	S5
	<i>Toxomerus marginatus</i>	Margined Calligrapher	NE	S5
	<i>Trichopsomyia apisaon</i>		NE	S4
	<i>Tropidia quadrata</i>	Common Thickleg	NE	S4
Tabanidae	<i>Chrysops ater</i>	Malicious Deer Fly	NE	S5
	<i>Chrysops excitans</i>	Agitated Deer Fly	NE	S5
	<i>Chrysops frigidus</i>	Frigid Deer Fly	NE	S4
	<i>Chrysops indus</i>	West Indies Deer Fly	NE	S5
	<i>Chrysops univittatus</i>	One-striped Deer Fly	NE	S5
	<i>Chrysops venus</i>	Venus Deer Fly	NE	S4
	<i>Chrysops vittatus</i>	Striped Deer Fly	NE	S5
	<i>Hybomitra illota</i>	Bog Horse Fly	NE	S5
	<i>Hybomitra lurida</i>	Broad-headed Horse Fly	NE	S5
	<i>Scaptia lasiophthalma</i>		NE	SNR
Tachinidae	<i>Actia diffidens</i>		NE	SNR
	<i>Epalpus signifer</i>		NE	SNR
	<i>Eribella exilis</i>		NE	SNR
	<i>Gymnosoma occidua</i>		NE	SNR
	<i>Hystericia abrupta</i>		NE	SNR
	<i>Phryxe pecosensis</i>		NE	SNR
	<i>Siphona intrudens</i>		NE	SNR
	<i>Winthemia fumiferanae</i>		NE	SNR
Tephritidae	<i>Eurosta solidaginis</i>	Goldenrod Gall Fly	NE	SNR
	<i>Tephritis pura</i>		NE	SNR
Tipulidae	<i>Ctenophora dorsalis</i>		NE	SNR
	<i>Nephrotoma ferruginea</i>	Ferruginous Tiger Cranefly	NE	SNR
Ulidiidae	<i>Callopietromyia annulipes</i>	Peacock Fly	NE	SNR
	<i>Euxesta notata</i>		NE	SNR

