Queen's University Biological Station Species List: Fishes

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 and has been updated using resources from The Natural Heritage Information Centre (April 2018); The IUCN Red List of Threatened Species (February 2018) and iNaturalist. Contact Ivy to report any errors, omissions and/or new sightings.

Based on the aforementioned criteria we can expect to find a total of 40 species of fishes (class: Actinopterygii) 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

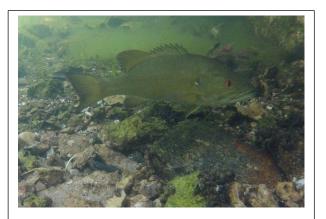


Figure 1. Largemouth bass (*Micropterus salmoides*) is one of several species of fishes found in lakes across QUBS properties. Researchers from Prof.
Steven Cooke's lab from Carlton University are studying the physiological correlates of reproduction and fitness in a population of largemouth bass in Lake Opinicon. Photo courtesy of Nick Cairns.

QUBS residents with the exception of the American Eel (*Anguilla rostrata*), who is a resident non-breeder (*nb*), spending most of its life in freshwater before migrating to the open ocean to spawn.

Table 1. Status classification reported for the fishes 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)



Figure 2. Bluegill sunfish (*Lepomis macrochirus*) are another fish species commonly spotted in the lakes at QUBS. A long-term collaborative study between Prof. Bryan Neff from the University of Western Ontario and Prof. Rosemary Knapp from the University of Oklahoma aimed at understanding the neurobiology and behavioural endocrinology of this species is currently underway in Lake Opinicon. Photo courtesy of David Sutter.

Order	Family	Scientific Name	Common Name	Global Status	Provincial Status
Anguilliformes	Anguillidae	Anguilla rostrata	American Eel (nb)	EN	S1
Atheriniformes	Atherinopsidae	Labidesthes sicculus	Brook Silverside	LC	S4
Clupeiformes	Clupeidae	Alosa pseudoharengus	Alewife	LC	SNA
Cypriniformes	Catostomidae	Catostomus commersonii	White Sucker	LC	S2
	Cyprinidae	Chrosomus eos	Northern Redbelly Dace	LC	S5
		Chrosomus neogaeus	Finescale Dace	LC	S5
		Exoglossum maxillingua	Cutlip Minnow	LC	S1
		Luxilus chrysocephalus	Striped Shiner	LC	S4
		Luxilus cornutus	Common Shiner	LC	S5
		Notemigonus crysoleucas	Golden Shiner	LC	S5
		Notropis anogenus	Pugnose Shiner	LC	S2
		Notropis bifrenatus	Bridle Shiner	LC	S2
		Notropis heterodon	Blackchin Shiner	LC	S4
		Notropis heterolepis	Blacknose Shiner	LC	S5
		Notropis rubellus	Rosyface Shiner	LC	S4
		Pimephales notatus	Bluntnose Minnow	LC	S5
		Pimephales promelas	Fathead Minnow	LC	S5
Cyprinodontiformes	Fundulidae	Fundulus diaphanus	Banded Killifish	LC	S5
Esociformes	Esocidae	Esox americanus	Redfin Pickerel	LC	S3
		Esox lucius	Northern Pike	LC	S5
	Umbridae	Umbra limi	Central Mudminnow	LC	S5
Gasterosteiformes	Gasterosteidae	Culaea inconstans	Brook Stickleback	LC	S5
Perciformes	Centrarchidae	Ambloplites rupestris	Rock Bass	LC	S5
		Lepomis gibbosus	Pumpkinseed	LC	S5
		Lepomis macrochirus	Bluegill Sunfish	LC	S5
		Micropterus dolomieu	Smallmouth Bass	LC	S5
		Micropterus salmoides	Largemouth Bass	LC	S5
		Pomoxis nigromaculatus	Black Crappie	LC	S4
	Percidae	Etheostoma exile	Iowa Darter	LC	S5
		Etheostoma microperca	Least Darter	LC	S4
		Etheostoma nigrum	Johnny Darter	LC	S5
		Etheostoma olmstedi	Tessellated Darter	LC	S4
		Perca flavescens	Yellow Perch	LC	S5
		Percina caprodes	Logperch	LC	S5
		Percina copelandi	Channel Darter	LC	S2
		Percina shumardi	River Darter	LC	S1
		Sander vitreus	Walleye	LC	S5
Siluriformes	Ictaluridae	Ameiurus natalis	Yellow Bullhead	LC	S4
		Ameiurus nebulosus	Brown Bullhead	LC	S5
		Noturus insignis	Margined Madtom	LC	SU