

## APPENDIX I

### Great Lakes Aquatic Invasive Species by Organism Type

The following table lists the aquatic invasive species of the Great Lakes by species name and common name, sorted by organism type (benthic invertebrate, fish, vascular plant and so on).

#### **Invertebrates**

<i>Acineta nitocrae</i>	suctorian ciliate
<i>Lophopodella carteri</i>	bryozoan

#### **Benthic Invertebrates**

<i>Bithynia tentaculata</i>	European faucet snail
<i>Branchiura sowerbyi</i>	oligochaete worm
<i>Cipangopaludina chinensis malleata</i>	Oriental mystery snail
<i>Cipangopaludina japonica</i>	Oriental mystery snail
<i>Corbicula fluminea</i>	Asian clam
<i>Cordylophora caspia</i>	hydroid
<i>Dreissena bugensis</i>	quagga mussel
<i>Dreissena polymorpha</i>	zebra mussel
<i>Echinogammarus ischnus</i>	amphipod
<i>Elimia virginica</i>	snail
<i>Gammarus fasciatus</i>	amphipod
<i>Gillia altilis</i>	buffalo pebblesnail
<i>Heteropsyllus cf. nunni.</i>	harpacticoid copepod
<i>Lasmigona subviridis</i>	green floater
<i>Nitocra hibernica</i>	harpacticoid copepod
<i>Nitocra incerta</i>	harpacticoid copepod
<i>Phallodrilus aquaedulcis</i>	oligochaete worm
<i>Pisidium amnicum</i>	greater European pea clam
<i>Pisidium henslowanum</i>	Henslow's pea clam
<i>Pisidium supinum</i>	humpback pea clam
<i>Potamopyrgus antipodarum</i>	New Zealand mud snail
<i>Radix auricularia</i>	European ear snail
<i>Ripistes parasita</i>	oligochaete worm
<i>Schizopera borutzkyi</i>	harpacticoid copepod
<i>Schmidtea (formerly Dugesia) polychroa</i>	flatworm
<i>Sphaerium corneum</i>	European fingernail clam
<i>Valvata piscinalis</i>	European valve snail
<i>Viviparus georgianus</i>	banded mystery snail

## Epibenthic Invertebrates

<i>Eurytemora affinis</i>	calanoid copepod
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## Invertebrate parasites

<i>Acanthostomum sp.</i>	digenean fluke
<i>Argulus japonicus</i>	parasitic copepod
<i>Dactylogyrus amphibothrium</i>	monogenetic fluke
<i>Dactylogyrus hemiamphibothrium</i>	monogenetic fluke
<i>Glugea hertwigi</i>	micro-sporidian parasite
<i>Ichthyocotylurus pileatus</i>	digenean fluke
<i>Myxobolus cerebralis</i>	salmonid whirling disease
<i>Neascus brevicaudatus</i>	digenean fluke
<i>Sphaeromyxa sevastopoli</i>	mixosporidian
<i>Trypanosoma acerinae</i>	flagellate

## Invertebrate pathogens

<i>Aeromonas salmonicida</i>	furunculosis
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## Insects

<i>Acentropus niveus</i>	aquatic moth
<i>Tanysphyrus lemnae</i>	aquatic weevil

## Planktonic invertebrates

<i>Bosmina maritima</i>	waterflea
<i>Bythotrephes longimanus fo. cederstroemi</i>	spiny waterflea
<i>Cercopagis pengoi</i>	fish-hook waterflea
<i>Craspedacusta sowerbyi</i>	freshwater jellyfish
<i>Daphnia lumholtzi</i>	waterflea
<i>Eubosmina coregoni</i>	waterflea
<i>Megacyclops viridis</i>	cyclopoid copepod
<i>Skistodiaptomus pallidus</i>	calanoid copepod

## Fish

<i>Alosa aestivalis</i>	blueback herring
<i>Alosa pseudoharengus</i>	alewife
<i>Apeltes quadracus</i>	fourspine stickleback
<i>Carassius auratus</i>	goldfish
<i>Cyprinus carpio</i>	common carp
<i>Enneacanthus gloriosus</i>	bluespotted sunfish
<i>Gambusia affinis and Gambusia holbrooki</i>	western and eastern mosquitofish
<i>Gymnocephalus cernuus</i>	ruffe
<i>Lepomis humilis</i>	orange-spotted sunfish
<i>Lepomis microlophus</i>	redeer sunfish
<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish
<i>Morone americana</i>	white perch
<i>Neogobius melanostomus</i>	round goby
<i>Notropis buchanani</i>	ghost shiner
<i>Noturus insignis</i>	margined madtom
<i>Oncorhynchus gorbuscha</i>	pink salmon
<i>Oncorhynchus kisutch</i>	coho salmon
<i>Oncorhynchus mykiss</i>	rainbow trout
<i>Oncorhynchus nerka</i>	kokanee
<i>Oncorhynchus tshawytscha</i>	chinook salmon
<i>Osmerus mordax</i>	rainbow smelt
<i>Petromyzon marinus</i>	sea lamprey
<i>Phenacobius mirabilis</i>	suckermouth minnow
<i>Proterorhinus marmoratus</i>	tubenose goby
<i>Salmo trutta</i>	brown trout
<i>Scardinius erythrophthalmus</i>	rudd

## Phytoplankton

<i>Actinocyclus normanii fo. subsalsa</i>	diatom
<i>Bangia atropurpurea</i>	red alga
<i>Biddulphia laevis</i>	diatom
<i>Chaetoceros hohnii</i>	diatom
<i>Chroodactylon ramosum</i>	red alga
<i>Cyclotella atomus</i>	diatom
<i>Cyclotella cryptica</i>	diatom
<i>Cyclotella pseudostelligera</i>	diatom

<i>Cyclotella woltereki</i>	diatom
<i>Diatoma eherebergii</i>	diatom
<i>Enteromorpha intestinalis</i>	green alga
<i>Enteromorpha prolifera</i>	green alga
<i>Hymenomonas roseola</i>	cocco-lithophoroid
<i>Nitellopsis obtusa</i>	green alga
<i>Skeletonema potamos</i>	diatom
<i>Skeletonema subsalsurn</i>	diatom
<i>Sphacelaria fluviatilis</i>	brown alga
<i>Sphacelaria lacustris</i>	brown alga
<i>Stephanodiscus binderanus</i>	diatom
<i>Stephanodiscus subtilis</i>	diatom
<i>Thalassiosira baltica</i>	diatom
<i>Thalassiosira guillardii</i>	diatom
<i>Thalassiosira lacustris</i>	diatom
<i>Thalassiosira pseudonana</i>	diatom
<i>Thalassiosira weissflogii</i>	diatom

### Vascular plants

<i>Agrostis gigantea</i>	red top
<i>Alnus glutinosa</i>	black alder
<i>Alopecurus geniculatus</i>	water foxtail
<i>Butomus umbellatus</i>	flowering rush
<i>Cabomba caroliniana</i>	fanwort
<i>Carex acutiformis</i>	swamp sedge
<i>Carex disticha</i>	creeping brown sedge
<i>Carex flacca</i>	blue sedge
<i>Chenopodium glaucum</i>	oak leaved goose foot
<i>Cirsium palustre</i>	marsh thistle
<i>Conium maculatum</i>	poison hemlock
<i>Echinochloa crusgalli</i>	barnyard grass
<i>Epilobium hirsutum</i>	great hairy willow herb
<i>Epilobium parviflorum</i>	small flowered hairy willow herb
<i>Glyceria maxima</i>	reed sweet-grass
<i>Hydrocharis morsus-ranae</i>	European frogbit
<i>Impatiens glandulifera</i>	Indian balsam
<i>Iris pseudacorus</i>	yellow flag
<i>Juncus compressus</i>	flattened rush

<i>Juncus gerardii</i>	black-grass rush
<i>Juncus inflexus</i>	hard rush
<i>Lycopus asper</i>	western water horehound
<i>Lycopus europaeus</i>	European water horehound
<i>Lysimachia nummularia</i>	moneywort
<i>Lysimachia vulgaris</i>	garden loosestrife
<i>Lythrum salicaria</i>	purple loosestrife
<i>Marsilea quadrifolia</i>	European water clover
<i>Mentha gentilis</i>	creeping whorled mint
<i>Mentha piperita</i>	peppermint
<i>Mentha spicata</i>	spearmint
<i>Myosotis scorpioides</i>	true forget-me-not
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil
<i>Najas marina</i>	spiny naiad
<i>Najas minor</i>	minor naiad
<i>Nymphoides peltata</i>	yellow floating heart
<i>Pluchea odorata</i> var. <i>purpurescens</i>	salt-marsh fleabane
<i>Pluchea odorata</i> var. <i>succulenta</i>	salt-marsh fleabane
<i>Poa trivialis</i>	rough-stalked meadow grass
<i>Polygonum caespitosum</i> var. <i>longisetum</i>	bristly lady's thumb
<i>Polygonum persicaria</i>	lady's thumb
<i>Potamogeton crispus</i>	curlyleaf pondweed
<i>Puccinellia distans</i>	weeping alkali grass
<i>Rhamnus frangula</i>	glossy buckthorn
<i>Rorippa nasturtium aquaticum</i>	water cress
<i>Rorippa sylvestris</i>	creeping yellow cress
<i>Rumex longifolius</i>	yard dock
<i>Rumex obtusifolius</i>	bitter dock
<i>Salix alba</i>	white willow
<i>Salix fragilis</i>	crack willow
<i>Salix purpurea</i>	purpleosier willow
<i>Solanum dulcamara</i>	bittersweet nightshade
<i>Solidago sempervirens</i>	seaside goldenrod
<i>Sonchus arvensis</i>	field sow thistle
<i>Sonchus arvensis</i> var. <i>glabrescens</i>	smooth field sow thistle
<i>Sparganium glomeratum</i>	bur reed
<i>Stellaria aquatica</i>	giant chickweed
<i>Trapa natans</i>	water chestnut
<i>Typha angustifolia</i>	narrow leaved cattail
<i>Veronica beccabunga</i>	European brooklime