



Capital Region PRISM Aquatic High Priority Invasive Species List

For more information including resources for identification, visit www.capitalregionprism.org

To report these species, visit www.nyimainvasives.org

Purpose: The Capital Region Partnership for Regional Invasive Species Management (CR-PRISM) created this list of species to identify the highest priority invasive species for monitoring, detection, and response efforts within the Capital Region. This list also fulfills Objective 2.4: *Anticipate new introductions and reassess current species of concern through event horizon scanning* within “Goal 2: Prevent” in the CR-PRISM 2023-2027 Five-Year Strategic Plan. All the species contained on this list are high or very high threat and many are prohibited within the state of New York by the NYS Department of Environmental Conservation. This list will be shared with the Partnership to incorporate into their education and outreach, monitoring, detection, and response efforts.

These species were selected by the CR-PRISM staff through reviewing the CR-PRISM Tier List, ecological threat rankings and regulatory status of each of these species. In addition, event horizon scanning techniques were used including reviewing tier rankings on neighboring PRISM tier lists, the [NYNHP Statewide Tier List](#) and observing proximity of species to the CR-PRISM region for each species were taken into consideration.

Tier 2 High Priority Invasive Species- species with few known populations in the Capital Region PRISM

Common Name	Scientific Name	Growth Form	Ecological Threat	Socio-economic Threat	Regulatory Status
Mud bithynia	Bithynia tentaculata	Animal	High	Low Negative	Prohibited
Spiny waterflea	Bythotrephes longimanus	Animal	Very High	High Negative	Prohibited
Freshwater Jellyfish	Craspedacusta sowerbyi	Animal	Moderate	Equal Outcome	
Quagga mussel	Dreissena bugensis	Animal	Very High	Significant Negative	Prohibited
Brazilian elodea	Egeria densa	Plant	High	Insignificant Negative	Prohibited
Variable watermilfoil; broadleaf watermilfoil	Myriophyllum heterophyllum	Plant	Very High	Equal outcome	Prohibited
Indian lotus	Nelumbo nucifera	Plant	Moderate	High Positive	
Starry stonewort	Nitellopsis obtusa	Plant	Very High	High Negative	
Sea lamprey	Petromyzon marinus	Animal	Moderate	Significant Negative	Prohibited





Tier 1 High Priority Invasive Species- species not yet detected in the Capital Region PRISM

Common Name	Scientific Name	Growth Form	Ecological Threat	Socio-economic Threat	Regulatory Status
Waterwheel plant	Aldrovanda vesiculosa	Plant	Unknown	Insignificant Positive	
Fanwort	Cabomba caroliniana	Plant	High	<i>Not assessed</i>	Prohibited
Fishhook waterflea	Cercopagis pengoi	Animal	Very High	Significant Negative	Prohibited
Northern snakehead	Channa argus	Animal	High	Significant Negative	Prohibited
Water hyacinth	Eichhornia crassipes	Plant	High	Insignificant Negative	
Hydrilla	Hydrilla verticillata	Plant	Very High	Insignificant Negative	Prohibited
Oriental weatherfish	Misgurnus anguillicaudatus	Animal	High	Insignificant Negative	Prohibited
Parrot feather watermilfoil	Myriophyllum aquaticum	Plant	High	<i>Not assessed</i>	Prohibited
Water lettuce	Pistia stratiotes	Plant	Very High	Insignificant Negative	
New zealand mudsnail	Potamopyrgus antipodarum	Animal	High	Insignificant Negative	Prohibited
Red swamp crayfish	Procambarus clarkii	Animal	High	Equal outcome	
Marbled crayfish	Procambarus virginalis	Animal	High	<i>Not assessed</i>	
Water spangles	Salvinia minima	Plant	High	<i>Not assessed</i>	
Water soldiers	Stratiotes aloides	Plant	High	Insignificant Negative	
European stream valvata	Valvata piscinalis	Animal	High	Significant Negative	

Definitions:

Invasive Species

A species that is nonnative to the ecosystem under consideration, and whose introduction causes or is likely to cause economic or environmental harm or harm to human health. For the purpose of 6 NYCRR Part 575, the harm must significantly outweigh any benefits.

Prohibited Species

Prohibited invasive species cannot be knowingly possessed with the intent to sell, import, purchase, transport or introduce. In addition, no person shall sell, import, purchase, transport, introduce or propagate prohibited invasive species.

Regulated Species

Regulated invasive species, on the other hand, are species which cannot be knowingly introduced into a free-living state or introduced by a means that one should have known would lead to such an introduction, although such species shall be legal to possess, sell, buy, propagate, and transport.





Definitions continued:

Horizon Scanning

A process for identifying and assessing potential risks posed by non-native species that may be introduced and become established.

High Priority Invasive Species (HPIS)

A Tier 1 or 2 invasive species which poses a high or very high threat that are of particular concern with significant impacts to our ecosystems, economy, agricultural systems, and human health.

Species of Concern (SOC)

Species that have unknown consequences and impacts to our environment, economy, agricultural systems, and human health. These species have shown evidence of invasive tendencies that could pose moderate to very high threats. These species can be approaching the region or found locally.

