

CAPITAL MOHAWK PRISM ~ Invasive Species by State Ranking (as of 11.15.16)

Note: New terminology for species category descriptions (as of January 2017)

Tier 1 – Early Detection / Prevention

Not in yet PRISM, with anticipated high or very high impacts. Highest level of survey efforts. Should conduct delineation surveys and assign to appropriate Tier if detected.

Tier 1a: Species not in the PRISM, but in the buffer (surrounding PRISM)

Tier 1b: Species not in PRISM or the buffer, but in Eastern North America (with potential for establishment) Tier 1c: Species far outside PRISM and buffer (not in east NA), but introduction pathway exists

Tier 2 - Eradication

High and very high impact species with low enough abundance to make eradication feasible within the PRISM. Highest level of response efforts. Need delineation surveys to determine full extent.

Tier 3 – Containment

High and very high impact species that are likely too widespread for eradication, but low enough abundance to think about regional containment. Target strategic management to slow the spread since many surrounding regions could be at risk if left unattended.

Tier 4 – Local Control

Well-established species with high and very high impacts. Eradication efforts not feasible; only localized management over time to contain, exclude, or suppress, if justified to meet local management goals. *Subcategory: Not established outside of PRISM, manage to contain within PRISM.

Tier 5 - Research

Species in or surrounding PRISM that need more research, mapping, and monitoring to understand invasiveness and impacts.

Aquatic Invasive Plant Species:

Tier 1

1a: *Egeria densa*, Brazilian elodea
Nymphoides peltata, Yellow floating-heart

1b: *Aldrovanda vesiculosa*, Waterwheel
Cabomba caroliniana, Carolina fanwort
Hydrilla verticillata, Hydrilla
Myriophyllum aquaticum, Parrot feather
Nitellopsis obtusa, Starry stonewort

Tier 2

Hydrocharis morsus-ranae, European frog-bit
Myriophyllum heterophyllum, Broadleaf or variable leaf watermilfoil

Tier 3

Myriophyllum spicatum, Eurasian watermilfoil
Potamogeton crispus, Curly pondweed
Trapa natans, Water chestnut

Tier 4

Didymosphenia geminata, Didymo
Eichhornia crassipes, Water hyacinth
Marsilea quadrifolia, European water fern
Pistia stratiotes, Water lettuce

Aquatic Invasive Animal Species:

Tier 1

- 1a:** *Bythotrephes longimanus*, Spiny waterflea
Cipangopaludina chinensis, Chinese mystery snail
Cygnus olor, Mute swan
- 1b:** *Channa argus*, Northern snakehead
Hemimysis anomala, Bloody red shrimp
Misgurnus anguillicaudatus, Oriental weatherfish
Neogobius melanostomus, Round goby
- 1c:** *Hypophthalmichthys* sp., Asian carp
Tinca tinca, Tench

Tier 2

- Bithynia tentaculata*, Mud bithynia (snail)
Eriocheir sinensis, Chinese mitten crab
Trachemys scripta elegans, Red-eared slider (turtle)

Tier 3

- Carassius auratus*, Goldfish
Corbicula fluminea, Asian clam
Dreissena sp. (*bugensis* & *polymorpha*), Quagga & zebra mussel
Orconectes rusticus, Rusty crayfish
Scardinius erythrophthalmus, Rudd

Tier 4

- Alosa pseudoharengus*, Alewife (native to some drainages of NYS & ranked Medium)

Terrestrial Invasive Plant Species:

Tier 1

- 1a:** *Acer pseudoplatanus*, Sycamore maple
Arthraxon hispidus, Small carpetgrass
Clematis terniflora, Japanese virgin's bower
Eleutherococcus pentaphyllus, Five-leaf aralia
Ficaria verna ssp. Lesser celandine
Humulus japonicas, Japanese hops
Lysimachia vulgaris, Garden loosestrife
Miscanthus sinensis, Chinese silver grass
Persicaria perfoliata, Mile-A-Minute vine
Rubus phoenicolasius, Wineberry
Salix atrocinerea, Rusty willow
Silphium perfoliatum var. *perfoliatum*, Cup-plant
Syringa reticulata, Japanese tree lilac
- 1b:** *Actinidia arguta*, Hardy kiwi
Actinidia polygama, Silver vine
Ampelopsis glandulosa var. *brevipedunculata*, Porcelain berry
Aralia elata, Japanese angelica tree
Cytisus scoparius, Scotch broom
Dioscorea polystachya, Air potato
Lonicera maackii, Amur honeysuckle
Phellodendron amurense, Amur cork tree
Pueraria montana var. *lobata*, Kudzu
Salix cinerea, Gray florists willow
Salvia glutinosa, Sticky sage
Schoenoplectus mucronatus, Bog bulrush (one historical record in CapMo)
- 1c:** *Corydalis incisa*, Incised fumewort
Oplismenus hirtellus, Wavyleaf basketgrass

Tier 2

- Euphorbia esula*, Leafy spurge
Heracleum mantegazzianum, Giant hogweed

Tier 3

- Acer platanoides*, Norway maple
Ailanthus altissima, Tree of heaven
Alliaria petiolata, Garlic mustard
Anthriscus sylvestris, Wild chervil
Artemisia vulgaris var. *vulgaris*, Mugwort
Berberis thunbergii, Japanese barberry

Tier 3 (continued Terrestrial Plants):

Cardamine impatiens, Narrowleaf bittercress
Celastrus orbiculatus, Asian bittersweet
Centaurea stoebe ssp. *micranthos*, jacea L., * moncktonii, Spotted, brown, and meadow knapweed
Cirsium arvense, Canada thistle
Cynanchum louiseae, Black swallow-wort
Cynanchum rossicum, Pale swallow-wort
Dispsacus laciniatus, Cut-leaf teasel
Elaeagnus umbellata, Autumn, olive
Euonymus alatus, Burning bush
Euphorbia cyparissias, Cypress spurge
Frangula alnus, Glossy buckthorn
Iris pseudacorus, Yellow iris
Ligustrum obtusifolium, Border privet
Lonicera japonica, Japanese honeysuckle
Lonicera morrowii, Morrow honeysuckle
Lonicera tatarica, Tartarian honeysuckle
Lonicera × *bella*, Fly honeysuckle
Lythrum salicaria, Purple loosestrife
Microstegium vimineum, Japanese stiltgrass
Pastinaca sativa, Wild parsnip
Phalaris arundinacea, Reed canarygrass
Phragmites australis ssp. *australis*, Common reed
Reynoutria japonica var. *japonica*: (*Fallopia japonica* var. *japonica*), Japanese knotweed
Reynoutria × *bobemica*: (*Fallopia* × *bobemica*), Bohemian knotweed
Rhamnus cathartica, Common buckthorn
Robinia pseudoacacia, Black locust
Rosa multiflora, Multiflora rose

Tier 4

Fallopia baldschuanica, China fleece vine
Carlina vulgaris, Carline thistle
Reynoutria sachalinensis: (*Fallopia sachalinensis*), Giant knotweed
Sorghum halepense, Johnsongrass

Terrestrial Invasive Animal Species:

Tier 1

1b: *Anoplophora glabripennis*, Asian long-horned beetle
Dendroctonus frontalis, Southern pine beetle
Myrmica rubra, European fire ant
1c: *Lycorma delicatula*, Spotted lanternfly

1c (continued Terrestrial Animals):

Myocastor coypus, Nutria

Sus scrofa, Eurasian boar

1d: *Lymantria dispar asiatica*, Asian gypsy moth (not in East NA, but could easily be introduced via ports)

Tier 2

Amyntas agrestis, Crazy snake worm

Adelges tsugae, Hemlock woolly adelgid

Tier 3

Agrilus planipennis, Emerald ash borer

Drosophila suzukii, Spotted winged drosophila

Fiorinia externa, Elongated hemlock scale

Halyomorpha halys, Brown marmorated stink bug

Lymantria dispar, European gypsy moth

Pyrrhalta viburni, Viburnum leaf beetle

Sirex noctilio, European woodwasp

Tier 4

Adelges piceae, Balsam woolly adelgid

Forest Invasive Species:

Tier 1

1b: *Anoplophora glabripennis*, Asian long-horned beetle

Dendroctonus frontalis, Southern pine beetle

Myrmica rubra, European fire ant

1c: *Ceratocystis fagacearum*, Oak wilt

Lycorma delicatula, Spotted lanternfly

1d: *Lymantria dispar asiatica*, Asian gypsy moth (not in East NA, but could easily be introduced via ports)

Tier 2

Adelges tsugae, Hemlock woolly adelgid

Tier 3

Agrilus planipennis, Emerald ash borer

Fiorinia externa, Elongated hemlock scale

Lymantria dispar, European gypsy moth

Pyrrhalta viburni, Viburnum leaf beetle

Sirex noctilio, European wood wasp

Tier 4

Adelges piceae, Balsam woolly adelgid