# CAPITAL-MOHAWK PRISM ~ Regional Invasive Species Ranking *(as of October 2018)*

## 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. (at the low end of invasion curve)

## 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. (Suppression efforts)

\*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**:

*Aldrovanda vesiculosa,* Waterwheel

*Cabomba caroliniana,* Carolina Fanwort

*Hydrilla verticillata,* Hydrilla

*Myriophyllum aquaticum,* Parrot Feather

*Myriophyllum heterophyllum*, Variable Leaf Watermilfoil

*Ludwigia hexapetala*, Uruguayan Primrose Willow

*Ludwigia peploides*, Floating Primrose Willow

**1b**:

*Nelumbo nucifera*, Sacred Lotus

**1c:**

*Alternanthera philoxeroides,* Alligatorweed

*Salvinia molesta*, Giant Salvinia

*Stratiotes aloides*, Water Soldier

## Tier 2:

*Egeria densa,* Brazilian Elodea

*Hydrocharis morsus-ranae,* European Frog-bit

*Nitellopsis obtusa,* Starry Stonewort

*Nymphoides peltata*, Yellow Floating-heart

## Tier 3:

*Butomus umbellatus*, Flowering Rush

*Najas minor,* Brittle Naiad

## Tier 4:

*Myriophyllum spicatum,* Eurasian Watermilfoil

*Potamogeton crispus,* Curly Leaf Pondweed

*Trapa natans,* Water Chestnut

## Tier 5:

*Didymosphenia geminata,* Didymo

*Eichhornia crassipes*, Water Hyacinth

*Marsilea quadrifolia*, European Water Fern

*Pistia stratiotes*, Water Lettuce

# Aquatic Invasive Animal Species:

## Tier 1:

**1a:**

*Channa argus*, Northern Snakehead

*Gambusia affinis*, Western Mosquitofish

*Misgurnus anguillicaudatus*, Oriental Weatherfish

*Neogobius melanostomus*, Round Goby

**1b:**

*Cercopagis pengoi*, Fishhook Waterflea

*Hypophthalmichtys* sp., Asian Carp

*Potamopyrgus antipodarum*, New Zealand Mud Snail

*Procambarus clarkii*, Red Swamp Crayfish

*Tinca tinca*, Tench

**1c:**

*Limnoperna fortunei*, Golden Mussel

**Tier 2:**

*Bythotrephes longimanus*, Spiny Waterflea

*Cygnus olor*, Mute Swan

## Tier 3:

*Bithynia tentaculata*, Mud Bithynia (snail)

*Cipangopaludina chinensis*, Chinese Mystery Snail

*Dreissena rostriformis bugensis,* Quagga Mussel

*Hemimysis anomala*, Bloody Red Shrimp

*Vivaparus georgianus*, Banded Mysterysnail

## Tier 4:

*Carassius auratus*, Goldfish

*Corbicula fluminea*, Asian Clam

*Cyprinus carpio*, Common Carp

*Dreissena polymorpha*, Zebra Mussel

*Eriocheir sinensis*, Chinese Mitten Crab

*Orconectes rusticus*, Rusty Crayfish

*Scardinius erythrophthalmus*, Rudd

*Trachemys scripta elegans*, Red-eared Slider (turtle)

## Tier 5:

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

# Terrestrial Invasive Plant Species:

## Tier 1:

**1a:** *Actinidia arguta*, Hardy Kiwi, Taravine

*Actinidia polygama*, Silver Vine

*Akebia quinata,* Chocolate Vine

*Arum italicum,* Italian Arum

*Brachypodium sylvaticum,* Slender False Brome

*Clematis terniflora*, Japanese Virgin’s Bower

*Corydalis incisa,* Incised Fumewort

*Cytisus scoparius*, Scotch Broom

*Dioscorea polystachya*, Chinese Yam

*Eragrostis curvula,* Weeping Lovegrass

*Lespedeza cuneata,* Chinese Bushclover

*Phellodendron amurense*, Amur Corktree

*Photinia villosa,* Oriental Red-tip

*Primula japonica,* Japanese Primrose

*Pueraria montana* var. lobata, Kudzu

*Rubus laciniatus,* Cutleaf Blackberry

*Salix cinerea*, Gray Florists willow

*Salvia glutinosa*, Sticky Sage

*Schoenoplectus mucronatus*, Bog Bulrush (one historical record in CapMo)

*Symplocos paniculata,* Sapphireberry

*Viburnum dilatatum,* Linden Viburnum

*Viburnum plicatum,* Double-File Viburnum

*Viburnum sieboldii,* Siebold’s Viburnum

**1b:** *Oplismenus hirtellus*, Wavyleaf Basketgrass

*Perilla frutescens,* Beefsteak Plant

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## Tier 2:

*Acer palmatum,* Japanese Maple

*Acer pseudoplatanus*, Sycamore Maple

*Ampelopsis glandulosa*, Porcelain Berry

*Aralia elata*, Japanese Angelica Tree

*Arthraxon hispidus*, Small Carpetgrass

*Eleutherococcus pentaphyllus*, Five-leaf Aralia

*Euonymous fortunei,* Wintercreeper

*Ficaria verna* Lesser celandine

*Hedera helix,* English Ivy

*Heracleum mantegazzianum*, Giant Hogweed

*Humulus japonicus*, Japanese Hops

*Impatiens glandulifera,* Policeman’s Helmet

*Lamiastrum galeobdolon,* Yellow Archangel

*Lespedeza bicolor,* Shrubby Bushclover

*Lonicera maackii*, Amur Honeysuckle

*Lysimachia vulgaris*, Yellow Garden Loosestrife

*Malus seboldii,* Turingo Crabapple

*Miscanthus sinensis*, Chinese Silver Grass

*Persicaria perfoliata*, Mile-A-Minute Vine

*Polygonum nepalense,* Nepalese Smartweed

*Populus alba,* White Poplar

*Rhodotypos scandens,* Black Jetbead

*Rubus phoenicolasius*, Wineberry

*Salix atrocinerea*, Rusty Willow

*Silphium perfoliatum var. perfoliatum*, Cup-plant

*Spirea japonica,* Japanese Spirea

*Syringa reticulata,* Japanese Tree Lilac

*Viburnum lantana,* Wayfaring Tree

*Viburnum opulus,* European Cranberry Viburnum

*Wisteria spp.,* Wisteria (Chinese and Japanese)

## Tier 3:

*Euphorbia virgata*, Leafy Spurge

*Ulmus pumila,* Siberian Elm

# Tier 4:

*Acer platanoides*, Norway Maple

*Aegopodium podagraria,* Bishop’s Goutweed

*Ailanthus altissima*, Tree of heaven

*Alliaria petiolata*, Garlic Mustard

*Alnus glutinosa,* Black Alder

*Anthriscus sylvestris*, Wild Chervil

*Artemisia vulgaris var. vulgaris*, Mugwort

*Berberis thunbergii*, Japanese Barberry

*Cardamine impatiens*, Narrowleaf Bittercress

*Celastrus orbiculatus*, Asian Bittersweet

*Centaurea stoebe spp. Micranthos*, Spotted 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*, Water Flag Iris

*Ligustrum spp.*, Privet

*Lonicera japonica*, Japanese Honeysuckle

*Lonicera morrowii*, Morrow Honeysuckle

*Lonicera tatarica*, Tartarian Honeysuckle

*Lonicera x bella*, Showy pink honeysuckle

*Lythrum salicaria*, Purple Loosestrife

*Microstegium vimineum*, Japanese Stiltgrass

*Morus alba,* White Mulberry

*Pastinaca sativa*, Wild Parsnip

*Phalaris arundinacea*, Reed Canarygrass

*Phramites australis ssp. Australis*, Common Reed

*Reynoutria japonica var. japonica: Fallopia japonica var. japonica*, Japanese Knotweed

*Rhamnus cathartica*, Common Buckthorn

*Robinia pseudoacacia*, Black Locust

*Rosa multiflora*, Multiflora Rose

*Vinca Minor,* Periwinkle

## Tier 5:

*Fallopia baldschuanica*, China Fleece Vine

*Carlina vulgaris*, Carline Thistle

*Commelina communis,* Asiatic Dayflower

*Daphne mezereum,* February Daphne

*Epilobium hirsutum,* Hairy Willow Herb

*Lupinus polyphillus,* Bigleaf Lupine

*Reynoutria sachalinensis: Fallopia sachalinensis*, Giant Knotweed

*Sorghum halepense*, Johnsongrass

## Terrestrial Invasive Animal and Fungi Species:

## Tier 1:

**1a:** *Anoplophora glabripennis*, Asian Longhorned Beetle

 *Myrmica rubra*, European fire Ant

**1b:** *Myocastor coypus*, Nutria

 *Sus scrofa,* Eurasian Boar

 *Lymantria dispar asiatica,* Asian Gypsy Moth

## Tier 2:

*Dendroctonus frontalis*, Southern Pine Beetle

*Lycorma delicatula*, Spotted Lanternfly

*Ceratocystis fagacearum*, Oak Wilt

## Tier 3:

*Amynthas agrestis,* Crazy Snake Worm

*Adelges tsugae*, Hemlock Woolly Adelgid

## Tier 4:

*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 5:

*Adelges piceae*, Balsam Woolly Adelgid