# CAPITAL REGION PRISM ~ Regional Invasive Species Ranking *(as of March 2020)*

## 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:

Tier 5a: Species in our PRISM that need more research, mapping, and monitoring to understand invasiveness and impacts.

Tier 5b: Species surrounding our 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*, Fanwort; Carolina Fanwort

*Eichhornia crassipes*, Water Hyacinth

*Hydrilla verticillata*, Hydrilla, Water-thyme, Florida Elodea, Water thyme

*Ludwigia peploides ssp glabrescens*, Floating Primrose Willow

*Myriophyllum aquaticum*, Parrot s Feather; Parrot Feather Watermilfoil

*Myriophyllum heterophyllum*, Broadleaf Water-milfoil

*Pistia stratiotes*, Water Lettuce

**1c:**

*Alternanthera philoxeroides,* Alligatorweed

*Salvinia molesta*, Giant Salvinia

*Stratiotes aloides*, Water Soldier

## Tier 2:

*Egeria densa, Brazilian* Waterweed; Brazilian elodea

*Nymphoides peltata ,* Yellow Floating-heart, Yellow floating heart

*Nitellopsis obtuse,* Starry Stonewort

## Tier 3:

*Iris pseudacorus,* Yellow Iris, Water-flag, Yellow flag iris, Water flag, Yellow flag

*Hydrocharis morsusranae,* European Frogbit; Common Frogbit

## Tier 4:

## *Myriophyllum spicatum,* Eurasian Water-milfoil; European Water-milfoil; Spike Water-milfoil

## *Potamogeton crispus,* Curly Pondweed; Curly-leaved Pondweed

## *Trapa natans,* Water Chestnut, 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

*Didymosphenia geminate,* Didymo

*Gambusia affinis,* Western Mosquitofish

*Hemigrapsus sanguineus,* Asian Shore Crab

*Misgurnus anguillicaudatus,* Oriental Weatherfish

*Neogobius melanostomus,* Round Goby

*Procambarus clarkia,* Red Swamp Crayfish

*Tinca tinca,* Tench

*Valvata piscinalis,* European Stream Valvata

**1b:**

*Cercopagis pengoi*, Fishhook Waterflea

*Hypophthalmichtys* sp., Asian Carp

*Potamopyrgus antipodarum*, New Zealand Mud Snail

**1c:**

*Limnoperna fortunei*, Golden Mussel

**Tier 2:**

*Bithynia tentaculata,* Mud Bithynia

*Bythotrephes longimanus,* Spiny Waterflea

*Cipangopaludina spp,* Mystery snail

*Dreissena bugensis,* Quagga Mussel

*Orconectes virilis,* Virile Crayfish

## Tier 3:

*Corbicula fluminea,* Asian Clam

*Dreissena polymorpha,* Zebra Mussel

*Hemimysis anomala,* Bloody-red Shrimp

*Orconectes rusticus,* Rusty Crayfish

*Viviparus georgianus,* Banded Mysterysnail

*Cygnus olor*, Mute Swan

## Tier 4:

*Cyprinus carpio,* Common Carp

## Tier 5:

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

# Terrestrial Invasive Plant Species:

## Tier 1:

**1a:**

*Acer pseudoplatanus,* Sycamore Maple

*Actinidia arguta ,* Hardy Kiwi; Taravine

*Actinidia polygama*, Silver Vine

*Akebia quinata*, Chocolate Vine; Fiveleaf

*Arum italicum,* Italian Arum

*Brachypodium sylvaticum ssp sylvaticum ,* Slender Falsebrome

*Broussonetia papyrifera,* Paper-mulberry

*Clematis terniflora,* Japanese Virgin's-bower, Sweet Autumn Clematis, Yam-leaf clematis, Japanese virgin's bower

*Cytisus scoparius,* Scotch Broom

*Deutzia scabra,* Fuzzy Deutzia; Pride-of-Rochester

*\*Eragrostis curvula,* Weeping Lovegrass

*Euphorbia virgata,* Slender Leafy Spurge

*Heracleum mantegazzianum,* Giant Hogweed

*Kalopanax septemlobus,* Castor-Aralia

*Koelreuteria paniculata,* Golden-rain Tree

*Lepidium latifolium,* Perennial Pepperweed; Broadleaf pepperweed

*Lespedeza cuneata,* Asian Bush Clover; Chinese Lespedeza; Chinese Bushclover; Sericea Lespedeza

*Macleaya cordata,* Plume Poppy

*Ornithogalum nutans,* Drooping Star-of-Bethlehem; Star-of-Bethlehem

*Perilla frutescens,* Beefsteak Plant

*Photinia villosa,* Oriental Redtip

*Primula japonica,* Japanese primrose

*Rubus caesius,* European Dewberry

Rubus laciniatus, Cutleaf Blackberry

*Saccharum ravennae,* Ravenna Grass

*Salix atrocinerea,* Rusty Willow

*\*Salvia glutinosa,* Sticky Sage

*Symplocos paniculata,* Sapphireberry

*\*Viburnum dilatatum,* Linden Arrow-wood

**1b:**

*Oplismenus hirtellus*, Wavyleaf Basketgrass

## Tier 2:

*Acer palmatum,* Japanese Maple

*Anthriscus sylvestris*, Wild Chervil

*Arthraxon hispidus,* Small Carpetgrass; Joint-head Arthraxon

*Carum carvi,* Common Caraway

*Eleutherococcus pentaphyllus,* Five-leaf Aralia

*Euonymus fortunei,* Winter Creeper, Climbing Euonymus, Wintercreeper

*Euphorbia esula,* Leafy Spurge, Wolf's Milk

*Impatiens glandulifera,* Policemen's Helmet, Ornamental Jewelweed, Himalayan Balsam, Purple Jewelweed

*\*Lamiastrum galeobdolon*, Yellow Arch-angel

*\*Lespedeza bicolor,* Shrubby Lespedeza; Shrubby Bush Clover

*Lysimachia vulgaris,* Garden Loosestrife, Yellow Garden Loosestrife

*Malus toringo*, Toringo crabapple

*Miscanthus sinensis,* Chinese Silver Grass; Eulalia; Chinese Silvergrass; Maiden Grass

*\*Persicaria nepalensis,* Nepal Smartweed

*Persicaria perfoliata,* Mile-a-minute Weed, Mile-a-minute Vine, Asiatic Tearthum, Mile a minuteweed

*Phellodendron amurense,* Amur Corktree

*Pueraria montana var lobata,* Kudzu, Japanese arrowroot

*Pyrus calleryana,* Callery Pear; Bradford Pear

*Reynoutria sachalinensis: Fallopia sachalinensis*, Giant Knotweed

*Rhodotypos scandens,* Black Jetbead

*\*Salix cinerea*, European gray Willow; Gray Florist’s Willow

*Silphium perfoliatum var perfoliatum,* Cup-plant, Indian Cup-plant, Cup plant

*\*Spiraea japonica,* Japanese Spiraea, Japanese Meadowsweet

*\*Syringa reticulata*, Japanese-Tree Lilac

*Typha x glauca,* Blue Cat-tail, Hybrid Cat-tail

*Viburnum plicatum,* Japanese Snowball

*Viburnum sieboldii*, Siebold's Viburnum

*\*Wisteria spp*

## Tier 3:

# *Ampelopsis brevipedunculata,* Porcelain Berry; Amur Peppervine

# *Cardamine impatiens,* Narrowleaf Bittercress, Bushy Rock-cress

# *Dipsacus fullonum,* Wild Teasel; Fuller s Teasel

# *Ficaria verna ssp verna,* Lesser celandine, Fig Buttercup

# *Frangula alnus,* Glossy Buckthorn

# *Humulus japonicas,* Japanese Hops

# *Ligustrum spp, P*rivet

# *Lonicera japonica,* Japanese Honeysuckle

# *Lonicera maackii,* Amur Honeysuckle

# *Lychnis floscuculi,* Ragged Robin

# *Microstegium vimineum,* Japanese Stiltgrass, Nepalese Browntop, Japanese stilt grass, Nepalgrass

# *Pachysandra terminalis,* Japanese-spurge

# *Rubus phoenicolasius,* Wineberry

# Tier 4:

*Acer platanoides,* Norway Maple

*Aegopodium podagraria,* Bishop’s Goutweed; Goutweed

*Ailanthus altissima,* Tree-of-heaven; Chinese Sumac; Ailanthus

*Alliaria petiolata,* Garlic Mustard

*Alnus glutinosa*, European Alder, Black Alder

*Artemisia vulgaris var vulgaris,* Mugwort

*Berberis thunbergii,* Japanese Barberry

*Celastrus orbiculatus,* Oriental Bittersweet

*Centaurea spp.,* Brown Starthistle, Brown knapweed

*Cirsium arvense,* Canada Thistle, Creeping Thistle

# *Dipsacus laciniatus,* Cut-leaved teasel; Cutleaf teasel

# *Euphorbia cyparissias,* Cypress Spurge

*Elaeagnus umbellata,* Autumn Olive

*Euonymus alatus,* Burning Bush, Winged Euonymus, Winged Burning Bush, Winged Spindletree

# *Glechoma hederacea,* Ground Ivy; Gill-over-the-ground

*Lonicera spp,* Bush Honeysuckle

*Lythrum salicaria,* Purple Loosestrife

*Morus alba,* White Mulberry

*\*Pastinaca sativa,* Wild Parsnip

*Phalaris arundinacea,* Reed Canarygrass

*Phragmites australis ssp australis,* Common Reed, phragmites, Common reed grass

*Reynoutria spp,* Knotweed

*Rhamnus cathartica,* Common Buckthorn

*Robinia pseudoacacia,* Black Locust

*Rosa multiflora,* Multiflora Rose; Rambler Rose

*Ulmus pumila*, Siberian Elm

*Vincetoxicum spp,* Swallowwort

## Tier 5:

***5a:***

*Commelina communis,* Asiatic Dayflower

*Daphne mezereum,* February Daphne

*Epilobium hirsutum,* Hairy Willow Herb

*Hedera helix*, English Ivy

*Lupinus polyphyllus,* Bigleaf Lupine

*\*Malus baccata,* Siberian Crabapple, Crabapple

# *Populus alba,* White Poplar

# Salvia relfexa, Lanceleaf Sage

*\*Viburnum lantana*, Wayfaring-tree

*\*Viburnum opulus var opulus*, Guelder Rose; European Cranberrybush

**5b:**

*Fallopia baldschuanica*, China Fleece Vine

*Carlina vulgaris*, Carline Thistle

*Dioscorea polystachya*, Chinese Yam

*Sorghum halepense*, Johnsongrass

## Terrestrial Invasive Animal and Fungi Species:

## Tier 1:

**1a:**

*Dendroctonus frontalis*, Southern Pine Beetle

*Lycorma delicatula*, Spotted Lanternfly

*Anoplophora glabripennis*, Asian Longhorned Beetle

 *Myrmica rubra*, European fire Ant

 Beech Leaf Disease\*\*\*

**1b:**

*Myocastor coypus*, Nutria

*Sus scrofa,* Eurasian Boar

*Lymantria dispar asiatica,* Asian Gypsy Moth

## Tier 2:

*Ceratocystis fagacearum*, Oak Wilt

## Tier 3:

*Amynthas agrestis,* Crazy Snake Worm

*Adelges tsugae*, Hemlock Woolly Adelgid

## Tier 4:

*Agrilus planipennis,* Emerald Ash Borer

## Tier 5:

***5a:***

*Adelges piceae Balsam Woolly Adelgid*

*Amynthas Metaphire spp,* Jumping Worms

*Fiorinia externa*, Elongate Hemlock Scale

*Lymantria dispar,* Gypsy Moth

Phytomyza gymnostoma, Allium Leaf Miner

Popillia japonica, Japanese Beetle

Pyrrhalta viburni, Viburnum Leaf Beetle

**5b:**

*Lipoptena cervi,* Deer ked