

POLICY ON THE USE OF NON-NATIVE PLANTS IN CORNELL BOTANIC GARDENS' ACCESSIONED COLLECTIONS

Guidance Statement

Plants from all over the world form the basis for American agriculture and horticulture. Some of the plant species that were first introduced to our region as ornamentals have proven to be invasive species, which threaten the long-term conservation of biodiversity and the integrity of natural areas. As a public garden, it is inherent in Cornell Botanic Gardens' mission as we "Steward Cornell University's world-class horticultural collections and natural areas," that we stem the proliferation of invasive species and avoid introducing invasive plants.

The primary purpose of this policy document and the recommendations within it is to balance our public garden mission of holding diverse horticultural collections with our conservation mission of preserving natural areas and the broader environment. This mission is further detailed in Botanic Gardens' Envisioning Goals, which provides that the Botanic Gardens will "cultivate, curate and steward high-quality, sustainably-managed horticulture collections and natural areas."

The invasive species policy is based on the Voluntary Code of Conduct for Botanic Gardens and Arboreta, and will serve to direct how invasive plants are managed in the Botanic Gardens' collections.

By identifying the known invasive taxa currently held in our collections and requiring that all of these be removed using best practices in a multi-year process, we are taking a measured but highly responsible approach to invasive species management consistent with the Botanic Gardens' objectives in providing collections with "less invasive tendencies." Furthermore, by monitoring all new species and cultivars for potential invasiveness before entering them into the collections, we are providing a long-term strategy for ensuring that the Gardens will be environmentally progressive in our collections and operations.

For the purpose of this document, an invasive species is defined as a plant that is non-native to the region under consideration, and whose introduction causes or is likely to cause ecological or environmental harm.

Cornell Botanic Gardens Invasive Species Policy Committee

Co-Chairs

Todd Bittner, Director of Natural Areas

Christopher Dunn, Director

Committee Members

Robert Wesley, Natural Areas Botanist

Jules Ginenthal, Natural Areas Steward

Sarah McNaull, Horticultural Plant Records Manager

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Botanic Gardens Code of Conduct Principles

1. Do not add known invasive species to the cultivated collections.

Conduct risk assessment and evaluation protocol.

2. Remove, phase out, and contain existing invasive species in the cultivated collections.

3. Monitor and evaluate new species and cultivars added to the cultivated collections for potential invasive characteristics as identified in Monitoring Protocols for Plant Species of Concern.

4. Do not distribute plants or propagules of known invasive species.

The Botanic Gardens pledges to not sell, trade, or distribute known invasive plants or propagules.

5. Work to control invasive species in the Natural Areas.

6. Educate the public, green industries, and the University about invasive species and the threats they pose to local and global biological diversity.

Appendix 1. Cornell Botanic Gardens' Invasive Species Risk Assessment and Evaluation Protocol.

This protocol will be used prior to adding species, hybrids, and cultivars to the collections:

If the taxon is listed as an invasive species in Appendix 2, 3, or 4, it will not be added to the collections, and will be added to BG-Base as invasive.

If the taxon is listed as an invasive species in Appendix 2, 3, or 4, and an exemption for educational use or research is requested, a written proposal and monitoring plan is required. Proposal review and approval will be conducted by the Botanic Gardens' Invasive Species Policy Committee.

If the taxon is listed as a species of concern in Appendix 5 or is a hybrid or cultivar of a taxon in Appendix 2-5, a written proposal and monitoring plan is required. Proposal review and approval will be conducted by the Botanic Gardens' Invasive Species Policy Committee.

Appendix 2. This list includes plant species that are considered highly invasive to natural areas in the central Finger Lakes region. This list also includes plant species that are not presently known from the region, but are considered highly invasive and would pose a significant threat to natural areas if they were to establish in the region.

Cornell Botanic Gardens commits that all listed species will be removed from the accessioned collections, and that future introductions of listed species will not be permitted, except where species may be retained for educational purposes consistent with these guidelines. If present in the accessioned collections, species from this list are the highest priority for removal.

This list was developed using information from the New York State Prohibited and Regulated Plants list, invasive plant lists for the surrounding states and provinces with similar growing conditions, continuing field observations, input from other knowledgeable persons, and all other credible web-based or published sources. Species were included if they are listed as invasive for one or more state or province in the Northeast, Mid-Atlantic, and upper Midwest (generally plant hardiness zones 4, 5, & 6), and are considered invasive in the central Finger Lakes region based on field observations and scientific publications. Species were also included if they are documented to be invasive in New York or nearby states or provinces and if introduced, could become established in the central Finger Lakes region in the future (indicated by an asterisk *). Species were not listed if they are not known to be invasive in the region, or are listed in other Appendices. This list reflects the current knowledge and will be reviewed and updated annually.

Species name	Common name	Family
<i>Acer platanoides</i> †	Norway maple	Sapindaceae
<i>Ailanthus altissima</i>	ailanthus, tree-of-heaven	Simaroubaceae
<i>Alliaria petiolata</i> †	garlic mustard	Brassicaceae
<i>Artemisia vulgaris</i> †	mugwort	Asteraceae
<i>Berberis thunbergii</i> †	Japanese barberry	Berberidaceae
<i>Brachypodium sylvaticum</i> †	false brome-grass	Poaceae
<i>Celastrus orbiculata</i> †	Asian bittersweet	Celastraceae
<i>Cirsium arvense</i> †	creeping thistle	Asteraceae
<i>Cynanchum rossicum</i> † (<i>Vincetoxicum rossicum</i>)	pale swallowwort	Apocynaceae
<i>Elaeagnus umbellata</i> †	autumn olive	Elaeagnaceae
<i>Ficaria verna</i> † (<i>Ranunculus ficaria</i>)	lesser celandine	Ranunculaceae
<i>Frangula alnus</i> † (<i>Rhamnus frangula</i>)	alder buckthorn	Rhamnaceae
<i>Hydrilla verticillata</i> †	hydrilla	Hydrocharitaceae
<i>Ligustrum obtusifolium</i> †	Amur River privet	Oleaceae
<i>Lonicera maackii</i> †	Maack's honeysuckle	Caprifoliaceae

APPENDIX 2 (CONTINUED)

Species name	Common name	Family
<i>Lonicera morrowii</i> † and hybrids	honeysuckle	Caprifoliaceae
<i>Lonicera tatarica</i> † and hybrids	Tartarian honeysuckle	Caprifoliaceae
<i>Microstegium vimineum</i> †	stilt-grass	Poaceae
<i>Persicaria perfoliata</i> †* (<i>Polygonum perfoliatum</i>)	mile-a-minute weed	Polygonaceae
<i>Phragmites australis</i> ssp. <i>australis</i>	phragmites	Poaceae
<i>Reynoutria bohemica</i> † (<i>Fallopia bohemica</i> , <i>Polygonum bohemicum</i>)	hybrid giant knotweed	Polygonaceae
<i>Reynoutria japonica</i> † (<i>Fallopia japonica</i> , <i>Polygonum cuspidatum</i>)	Japanese knotweed	Polygonaceae
<i>Rhamnus cathartica</i> †	buckthorn	Rhamnaceae
<i>Rosa multiflora</i> †	multiflora rose	Rosaceae
<i>Securigera varia</i> (<i>Coronilla varia</i>)	crownvetch	Fabaceae
<i>Trapa natans</i> †	water-chestnut	Trapaceae

* Not presently known to occur within the central Finger Lakes region.

† New York State Prohibited and Regulated Plant species.

Appendix 3. This list includes plant species that are considered moderately to highly invasive to natural areas in the central Finger Lakes region. This list also includes plant species that are not presently known from the region, but are considered moderately to highly invasive and would pose a significant threat to natural areas if they were to establish in the region.

Cornell Botanic Gardens commits that all listed species will be removed from the accessioned collections, and that future introductions of listed species will not be permitted, except where species may be retained for educational purposes consistent with these guidelines. If present in the accessioned collections, species from this list are a high priority for removal.

This list was developed using information from the New York State Prohibited and Regulated Plants list, invasive plant lists for the surrounding states and provinces with similar growing conditions, continuing field observations, input from other knowledgeable persons, and all other credible web-based or published sources. Species were included if they are listed as invasive for one or more state or province in the Northeast, Mid-Atlantic, and upper Midwest (generally plant hardiness zones 4, 5, & 6), and are considered invasive in the central Finger Lakes region based on field observations and scientific publications. Species were also included if they are documented to be invasive in New York or nearby states or provinces and if introduced, could become established in the central Finger Lakes region in the future (indicated by an asterisk *). Species were not listed if they are not known to be invasive in the region, or are listed in Appendices. This list reflects the current knowledge and will be reviewed and updated annually.

Species name	Common name	Family
<i>Acer campestre</i>	hedge maple	Sapindaceae
<i>Acer tataricum</i> ssp. <i>ginnala</i> (<i>A. ginnala</i>)	Asian maple	Sapindaceae
<i>Aegopodium podagraria</i>	goutweed, bishop's weed	Apiaceae
<i>Allium vineale</i>	wild onion, onion-grass	Amaryllidaceae
<i>Alnus glutinosa</i>	European black alder	Betulaceae
<i>Anthriscus sylvestris</i> †	wild chervil	Apiaceae
<i>Berberis vulgaris</i>	European barberry	Berberidaceae
<i>Cabomba caroliniana</i> †*	fanwort	Cabombaceae
<i>Cardamine hirsuta</i>	hairy cress	Brassicaceae
<i>Centaurea stoebe</i> ssp. <i>micranthos</i> † (<i>Centaurea maculosa</i>)	spotted knapweed	Asteraceae
<i>Centaurea jacea</i>	black or brown knapweed	Asteraceae
<i>Cynanchum louiseae</i> † (<i>Vincetoxicum nigrum</i>)	black swallowwort	Apocynaceae
<i>Dipsacus laciniatus</i> †	cut-leaved teasel	Caprifoliaceae

APPENDIX 3 (CONTINUED)

Species name	Common name	Family
<i>Euonymus alata</i> †	burning-bush, winged euonymus	Celastraceae
<i>Euphorbia esula</i> †	leafy spurge	Euphorbiaceae
<i>Galium album</i> (<i>G. mollugo</i>)	white bedstraw	Rubiaceae
<i>Hedera helix</i>	English ivy	Araliaceae
<i>Hemerocallis fulva</i>	daylily	Asphodelaceae
<i>Heracleum mantegazzianum</i> †	giant hogweed	Apiaceae
<i>Hesperis matronalis</i>	dame's rocket	Brassicaceae
<i>Hydrocharis morsus-ranae</i> †*	frog-bit	Hydrocharitaceae
<i>Iris pseudacorus</i> †	yellow iris	Iridaceae
<i>Ligustrum ovalifolium</i>	California privet	Oleaceae
<i>Ligustrum vulgare</i>	common privet	Oleaceae
<i>Lonicera japonica</i> †	Japanese honeysuckle	Caprifoliaceae
<i>Lysimachia nummularia</i>	moneywort, creeping jenny	Primulaceae
<i>Lythrum salicaria</i> †	purple loosestrife	Lythraceae
<i>Myosotis scorpioides</i>	forget-me-not	Boraginaceae
<i>Myriophyllum spicatum</i> †	Eurasian water-milfoil	Haloragaceae
<i>Phalaris arundinacea</i>	reed canary grass	Poaceae
<i>Phellodendron amurense</i> †	Amur cork tree	Rutaceae
<i>Potamogeton crispus</i> †	curly pondweed	Potamogetonaceae
<i>Pueraria montana</i> †* (<i>Pueraria lobata</i>)	kudzu	Fabaceae
<i>Reynoutria sachalinensis</i> †	Sakhalin knotweed	Polygonaceae
(Fallopia sachalinensis, Polygonum sachalinense)		
<i>Robinia pseudoacacia</i> †	black locust	Fabaceae
<i>Rubus caesius</i>	European dewberry	Rosaceae
<i>Solanum dulcamara</i>	bittersweet nightshade	Solanaceae
<i>Torilis japonica</i>	Japanese hedge parsley	Apiaceae
<i>Viburnum opulus</i> ssp. <i>opulus</i>	European cranberry viburnum	Adoxaceae
<i>Vinca minor</i>	periwinkle	Apocynaceae

* Not presently known to occur within the central Finger Lakes region.

† New York State Prohibited and Regulated Plant species.

Appendix 4. This list includes plant species that are considered moderately invasive to natural areas in the central Finger Lakes region. This list also includes plant species that are not presently known from the region, but are considered moderately invasive and would pose a significant threat to natural areas if they were to establish in the region.

Cornell Botanic Gardens commits that all listed species will be removed from the accessioned collections, and that future introductions of listed species will not be permitted, except where species may be retained for educational purposes consistent with these guidelines. If present in the accessioned collections, species from this list are a lower priority for removal than species listed in Appendix 2 and 3.

This list was developed using information from the New York State Prohibited and Regulated Plants list, invasive plant lists for the surrounding states and provinces with similar growing conditions, continuing field observations, input from other knowledgeable persons, and all other credible web-based or published sources. Species were included if they are listed as invasive for one or more state or province in the Northeast, Mid-Atlantic, and upper Midwest (generally plant hardiness zones 4, 5, & 6), and are considered invasive in the central Finger Lakes region based on field observations and scientific publications. Species were also included if they are documented to be invasive in New York or nearby states or provinces and if introduced, could become established in the central Finger Lakes region in the future (indicated by an asterisk *). Species were not listed if they are not known to be invasive in the region, or are listed in Appendices. This list reflects the current knowledge and will be reviewed and updated annually.

Species name	Common name	Family
<i>Achyranthes japonica</i> †*	Japanese chaff flower	Amaranthaceae
<i>Akebia quinata</i>	akebia	Lardizabalaceae
<i>Ampelopsis brevipedunculata</i> †	porcelain-berry	Vitaceae
<i>Aralia elata</i> †*	Japanese angelica tree	Araliaceae
<i>Arthraxon hispidus</i> †*	small carpet grass	Poaceae
<i>Campanula rapunculoides</i>	creeping bellflower	Campanulaceae
<i>Cardamine impatiens</i> †*	narrow-leaved cress	Brassicaceae
<i>Convallaria majalis</i>	lily-of-the-valley	Asparagaceae
<i>Egeria densa</i> †*	Brazilian waterweed	Hydrocharitaceae
<i>Euonymus fortunei</i> †	evergreen bittersweet	Celastraceae
<i>Imperata cylindrica</i> †*	cogon grass	Poaceae
<i>Lepidium latifolium</i> †*	broad-leaved peppergrass	Brassicaceae
<i>Lespedeza cuneata</i> †*	Chinese bush clover	Fabaceae
<i>Lonicera xylosteum</i>	honeysuckle	Caprifoliaceae

APPENDIX 4 (CONTINUED)

Species name	Common name	Family
<i>Ludwigia hexapetala</i> †*	common primrose-willow	Onagraceae
<i>Ludwigia peploides</i> †*	floating primrose-willow	Onagraceae
<i>Malus baccata, floribunda, sylvestris</i> and hybrids	crabapple	Rosaceae
<i>Murdannia keisak</i> †*	marsh dewflower	Commelinaceae
<i>Myriophyllum aquaticum</i> †*	parrot-feather	Haloragaceae
<i>Oplismenus hirtellus</i> †*	wavy basketgrass	Poaceae
<i>Phyllostachys aurea</i> †*	golden bamboo	Poaceae
<i>Phyllostachys aureosulcata</i> †*	yellow-grooved bamboo	Poaceae
<i>Picea abies</i>	Norway spruce	Pinaceae
<i>Rubus phoenicolasius</i> †	wineberry	Rosaceae
<i>Rumex acetosella</i>	sheep sorrel	Polygonaceae
<i>Silphium perfoliatum</i> †	cup-plant	Asteraceae
<i>Vitex rotundifolia</i> †*	beach vitex	Lamiaceae
<i>Wisteria sinensis</i>	wisteria	Fabaceae

* Not presently known to occur within the central Finger Lakes region.

† New York State Prohibited and Regulated Plant species.

Appendix 5. Plant species of concern (Watch List) within the central Finger Lakes region are listed below. Species on this list may or may not be invasive, and additional information or monitoring is needed to make this determination.

Cornell Botanic Gardens commits to implement a monitoring program for listed species presently within the accessioned collections and for future introductions of listed species consistent with these guidelines.

This list was developed using information from the New York State Prohibited and Regulated Plants list, invasive plant lists for the surrounding states and provinces with similar growing conditions, continuing field observations, input from other knowledgeable persons, and all other credible web-based or published sources. Species were included if they are listed as invasive for one or more state or province in the Northeast, Mid-Atlantic, and upper Midwest (generally plant hardiness zones 4, 5, & 6), and the possibility exists they may become invasive in the central Finger Lakes region based on field observations and scientific publications. While many of the listed species have long been naturalized, additional monitoring is warranted, as many appear to be becoming more invasive. Species were not listed if they are considered invasive (Appendix 1), or are not documented to be invasive in the region, adjacent states, or provinces. The list reflects the current knowledge, and will be reviewed and updated annually. With sufficient information from field observations, Botanic Gardens' monitoring, or other sources, species may be removed altogether or moved to the known invasive species list (Appendix 1).

Species name	Common name	Family
<i>Acer pseudoplatanus</i> †	sycamore maple	Sapindaceae
<i>Aesculus hippocastanum</i>	horse chestnut	Sapindaceae
<i>Ajuga reptans</i>	bugleweed	Lamiaceae
<i>Bromus inermis</i>	smooth brome grass	Poaceae
<i>Butomus umbellatus</i>	flowering rush	Butomaceae
<i>Convolvulus arvensis</i>	field bindweed	Convolvulaceae
<i>Crataegus monogyna</i>	English hawthorn	Rosaceae
<i>Dioscorea polystachya</i> †	Chinese wild yam	Dioscoreaceae
<i>Elaeagnus angustifolia</i>	Russian olive	Elaeagnaceae
<i>Euonymus europaea</i>	spindle tree	Celastraceae
<i>Euphorbia cyparissias</i> †	cypress spurge	Euphorbiaceae
<i>Glechoma hedracea</i>	ground ivy	Lamiaceae
<i>Glyceria maxima</i> †	giant manna grass	Poaceae
<i>Humulus japonicus</i> †	Japanese hop	Cannabaceae

APPENDIX 5 (CONTINUED)

Species name	Common name	Family
<i>Luzula luzuloides</i> ssp. <i>luzuloides</i>	European woodrush	Juncaceae
<i>Lysimachia vulgaris</i> †	garden loosestrife	Primulaceae
<i>Malus prunifolia</i> and hybrids	crabapple	Rosaceae
<i>Melilotus alba</i>	white sweet-clover	Fabaceae
<i>Miscanthus sinensis</i> †	silver-grass	Poaceae
<i>Nymphoides peltata</i> †	yellow floating-hearts	Menyanthaceae
<i>Ornithogalum umbellatum</i>	star-of-Bethlehem	Asparagaceae
<i>Paulownia tomentosa</i>	princess-tree	Paulowniaceae
<i>Pinus sylvestris</i>	Scots pine	Pinaceae
<i>Poa compressa</i>	wiry bluegrass	Poaceae
<i>Populus alba</i>	white poplar	Salicaceae
<i>Prunus avium</i>	bird cherry	Rosaceae
<i>Pyrus calleryana</i>	Bradford pear	Rosaceae
<i>Rhodotypos scandens</i>	jetbead	Rosaceae
<i>Rorippa nasturtium-aquaticum</i>	watercress	Brassicaceae
<i>Salix atrocinerea</i> †	gray florist's willow	Salicaceae
<i>Salix purpurea</i>	basket willow	Salicaceae
<i>Taxus cuspidata</i>	Japanese yew	Taxaceae
<i>Ulmus pumila</i>	Siberian elm	Ulmaceae
<i>Viburnum lantana</i>	wayfaring tree	Adoxaceae
<i>Viburnum sieboldii</i>	Siebold's viburnum	Adoxaceae

* Not presently known to occur within the central Finger Lakes region.

† New York State Prohibited and Regulated Plant species.

Appendix 6. Invasive plant references for New York and surrounding states and provinces.

New York State

New York State Prohibited and Regulated Plants list. September 10, 2014.

http://www.dec.ny.gov/docs/lands_forests_pdf/isprohibitedplants2.pdf

Invasive Plant Council of New York State. <http://www.ipcnys.org/default.aspx>

Adirondack Park Invasive Plants Program. <http://www.adkinvasives.com/>

General

Invasipedia developed by the Nature Conservancy's Global Invasive Species Team.

<http://invasipedia.ucdavis.edu/doku.php>

Other States and Provinces

Invasive plants of natural habitats in Canada: an integrated review of wetland and upland species and legislation governing their control. http://www.cws-scf.ec.gc.ca/publications/inv/index_e.cfm

Connecticut Invasive Plants Council – Connecticut Invasive Plants List.

<http://www.hort.uconn.edu/cipwg/invplantsCT05.pdf>

Invasive Plants of Illinois. http://www.ill-inps.org/index_files/Page815.htm

Noxious and Invasive Weeds and the Weed Laws in Indiana.

<http://www.btny.purdue.edu/WeedScience/2005/WeedLaw05.pdf>

Invasive Plants of Indiana. <http://www.inpaws.org/InvasivePlants.pdf>

KY-EEPC Kentucky Exotic Pest Plant Council. <http://www.se-eppc.org/ky/list.htm>

Kentucky EPPC – Invasive Exotic Plant List. <http://www.invasive.org/listview.cfm?list=16>

Maine Natural Areas Program. Status of Invasive Plants in Maine.

http://www.mainenaturalareas.org/docs/program_activities/status_invasive_plants.php

Invasive Species of Concern in Maryland.

http://www.mdinvasivesp.org/invasive_species_md.html

The Evaluation of Non-Native Plant Species for Invasiveness in Massachusetts. Massachusetts Invasive Plant Advisory Group. 2005.

<http://www.newenglandwildflower.org/conservation/docs/MIPAG040105.pdf>

Massachusetts Invasive Plants Advisory Group. Plants voted as invasive.

<http://www.massnrc.org/MIPAG/invasive.htm>

Massachusetts Prohibited Plant List.

http://www.mass.gov/agr/farmproducts/proposed_prohibited_plant_list_v12-12-05.htm

Michigan Invasive Plants Council – Invasive Plant Information. <http://invasiveplantsmi.org/>

Invasive Plant Atlas of New England. Current Invasive Species List.

http://nbii-nin.ciesin.columbia.edu/ipane/ipanespecies/current_inv.htm

New Hampshire Prohibited Plant Species.

http://www.nh.gov/agric/divisions/plant_industry/documents/list_of_invasive_species.pdf

A Guide to Invasive Upland Plant Species in New Hampshire. New Hampshire Department of Agriculture, Markets and Food, Plant Industry Division & New Hampshire Invasive Species Committee. 2005. <http://extension.unh.edu/forestry/Docs/invasive.pdf>

Invasive Plant Species – Native Plant Society of New Jersey.

http://www.npsnj.org/invasive_species_0103.htm

Snyder, David and Sylvan R. Kaufman. 2004. An overview of nonindigenous plant species in New Jersey. New Jersey Department of Environmental Protection, Division of Parks and Forestry, Office of Natural Lands Management, Natural Heritage Program, Trenton, NJ. 107 pages.

<http://www.nj.gov/dep/parksandforests/natural/heritage/InvasiveReport.pdf>

Ohio's Invasive Plant Species.

<http://www.dnr.state.oh.us/Portals/3/invasive/pdf/OHIO%20INVASIVE%20PLANTS.pdf>

Invasive Plants in Ontario.

http://www.city.stratford.on.ca/naturally/documents/fact_sheet_invasive_plants_in_ontario.pdf

Invasive Plants in Pennsylvania.

<http://www.dcnr.state.pa.us/forestry/wildplant/invasivelist.aspx>

List of Exotic, Invasive Plants in the Murrysville, PA Area.

http://www.murrysville.com/documents/parks_invasive_plants.pdf

Invasive Plants of Rhode Island. http://www.urimga.org/invasive_plants.html#invasive

The Nature Conservancy. Invasive Species in Vermont.

<http://www.nature.org/wherewework/northamerica/states/vermont/volunteer/art21110.html>

Vermont Land Trust list of Invasive Species in Vermont.

<http://www.vlt.org/invasives/index.html>

Vermont Invasive Exotic Plant Committee. Vermont Invasive Plants.

<http://www.vtinvasiveplants.org/invaders.php>

Invasive Alien Plant Species of Virginia.

http://www.dcr.virginia.gov/natural_heritage/invspinfo.shtml

Invasive Plants of West Virginia. <http://www.wvdnr.gov/wildlife/invasivewv.shtm>

Invasive Plants Association of Wisconsin - Working List of the Invasive Plants of Wisconsin - March 2003. <http://www.ipaw.org/newsletters/issue4.pdf>

Wisconsin Department of Natural Resources. Invasive Species: Plants.
<http://www.dnr.state.wi.us/invasives/plants.asp>

Cofrin Center for Biodiversity, University of Wisconsin - Green Bay Herbarium. Invasive Plants of Wisconsin.
http://www.uwgb.edu/BIODIVERSITY/herbarium/invasive_species/invasive_plants01.htm