



# Invasive Exotic Plant Species Ranking for Southern Ontario





### **Recommended Citation**

Society for Ecological Restoration Ontario. 2025. Invasive Exotic Plant Species Ranking for Southern Ontario. Society of Ecological Restoration Ontario, Ontario. 35 pp.

### **Acknowledgements**

We thank everyone who contributed to this document for their valuable assistance. It could not have been done without you.

Gavin Miller (Toronto & Region Conservation Authority) and Bill McIlveen provided extensive input into the list and rankings and assisted with editing.  
Alex Karney, Urban Forest Associates Inc.  
Dale Leadbeater  
Diana Shermet, Town of Richmond Hill  
Francine MacDonald, Ontario Ministry of Natural Resources  
Freyja Whitten and Rod Krick, Credit Valley Conservation  
Dr. John Ambrose  
Larry Lamb  
Mary Gartshore  
Michael Irvine, Ontario Ministry of Natural Resources  
Patricia Mohr  
Paul Heydon, Grow Wild!  
Dr. Stephen Murphy, University of Waterloo  
Cathy Kavassalis, Canadian Coalition for Invasive Plant Regulation  
Steve Varga, Ontario Ministry of Natural Resources

With assistance from Hayley Anderson and Lola Price of the Ontario Invasive Plant Council, who collected the input of many OIPC members.

With additional reports collected from Field Botanists of Ontario newsletters and observations of others submitted to the author since 1995.

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2025

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This document is a listing of the invasive exotic plant species found in natural and managed habitats in southern Ontario according to the observations of plant experts that have consulted and available written and web-based resources.

***Invasive species*** are alien species whose introduction or spread threatens the environment, the economy, and/or society including human health. Invasive species may include those species which are native to Ontario but have been introduced to a new geographic region due to human activity.  
(Ontario Invasive Species Strategic Plan: Review of Progress (2012–2022), OMNRF 2023)

Many non-native (also known as *exotic* or *alien*) species are found in natural areas in Ontario, but most are not a threat to native biodiversity. They co-exist with indigenous (or **native**, the term used here for simplicity) species and can increase local biodiversity while providing benefits to society without dominating a site to the exclusion of most other plants<sup>1</sup>. A few can even provide some of the natural habitat functions like the native species they replace.

Many of the common ‘weeds’ seen around us are not native. They may represent significant costs in time, effort, and money to manage and their presence may affect yield or lower produce quality standards. Despite their nuisance value, they do not represent the same level of threat that the more invasive species do.

Any plant species could become invasive if provided with optimum soil, moisture, and disturbance conditions. The list has been limited to those non-native species that are most problematic in Ontario or have the potential to be in the near future. Changes to our climate will add new species to this list in future.

Keep in mind that some species, while highly invasive in early successional situations, are eventually outcompeted by native or non-invasive exotic species. Meadows and prairies in particular can be home to a large variety of non-native species, with new ones arriving all the time.

Some species that are used for agricultural crops or for erosion control are listed, and some are still being recommended for use by various agencies. No attempt was made to judge the usefulness of the listed species for human purposes, but merely to determine how they affect natural and managed vegetation communities in Ontario.

The invasive plants listed here are priority species for management in Ontario. Site conditions and experience with various species will vary from place to place, so a species that is rated lower on the list may be a high priority to control on your site. It is recognized that not all landowners and agencies have the resources to manage all species, and that sites may be invaded by many other species not listed here if conditions are appropriate for their survival and spread. The species rankings here will assist in establishing management priorities.

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<sup>1</sup> An argument can be made that since superior quality natural habitats are becoming rarer, all non-native species are taking up space that could potentially be occupied by native plants, some of which are uncommon or rare and they would benefit from more space or resources. However, this is not a practical approach in most areas since these areas are and will continue to be highly impacted by human activities. A goal of 100% indigenous species, although desirable, is not possible in most places. For a good discussion of why native plants are usually the best choice for most uses see: Tallamy, D. W. (2007). Bringing Nature Home. *How you can sustain wildlife with native plants*, 359.

Site conditions have a large effect on the presence of invasive species. Road salt, compacted soils, lack of topsoil, high pH soils, repeated disturbance, lack of competing species or predators and high nutrients provide ideal conditions for invasive species to reproduce, while these conditions also create severe limitations to the growth and dominance of many native plants. Invasive plants may be an indicator of the state of the site and point to site remediation that needs to be done.

**Invasive plants are often the symptom of a greater problem, not the cause.** The human footprint on our landscapes (physical, chemical, biological, and cultural) will need to be reduced for invasive species to be reduced, but the larger issues are out of your control and you are left only with the option of managing the vegetation on your particular site.

### **How this Document was Compiled**

This version of the document has been a recent effort, but it incorporates input from many people over many years and builds upon work done by the principal author and others to produce previous Ontario invasive plant lists since 1995.

Online and print publications were surveyed to determine which candidate species should be considered for the list. Notices were sent to organizations and professionals in Ontario with extensive plant knowledge asking for candidate invasive species to be submitted.

An earlier draft of this document was presented at a workshop organized in Peterborough Ontario by the Ontario Ministry of Natural Resources and Forestry and the Ontario Invasive Plant Council in September 2012. Thirty people attended representing governments, non-profit agencies and the consulting industry and gave input on the species and rankings. Some also provided input on later drafts.

Plants were evaluated by the following criteria;

1. They are non-native plants (with exceptions for a very few species whose exact origin is in question but that clearly have impacts similar to alien invasive species on the landscape);
2. They are known to spread or persist over the long term without human assistance and can dominate their niche and reproduce;
3. They were suggested by experienced and credible contributors or found on lists from other organizations or jurisdictions with climates similar to Ontario;
4. There is credible literature or personal experience to support the suggestion;
5. With a few exceptions, the species' ability to dominate the vegetative community is more than just a local occurrence. Where it is presently only a local occurrence, the persistence and spread rate of the plant appears to be a significant potential threat to native vegetation across Ontario;
6. Other criteria such as hybridizing with a native species, negatively affecting wildlife, or replacing a native species across its natural range and government regulations were also a consideration; and

7. A few native plants that are naturally present in some parts of Ontario but spread aggressively when they are moved to new areas or very disturbed habitats are included. In one case a garden cultivar of a native species has escaped into the wild and reverted back to the natural colour form.

Once a species met these criteria, they were listed and a ranking was determined based on degree of dominance, how fast they spread, how widespread they are in Ontario, how long they persist, and the level of functional change they cause. This list does not attempt to prioritize these species for ease of control, since control options can vary and new research may provide new options.

Four categories are used here. Species have been placed in each category based on reports of observed effects, rate of spread and presence, or risk of spread. The level of negative effect for each species is subjective as it was assessed based on the experience of many people and the effects vary across the province and over time.

The Canadian Food Inspection Agency (CFIA) also has its own lists of species that are regulated as well as other background information, and this information changes from time to time. More information can be found on their website. <https://inspection.canada.ca/en/plant-health/invasive-species>.

Some of the listed species are not found in northern Ontario at present or may be overlooked or not considered a serious problem there yet. Winter temperatures are probably limiting the spread of plants there, but this may change as the climate warms. Likewise, many species may not be found in many places in Ontario at present; some are so far largely confined to the Toronto, Ottawa, or southwestern Ontario areas. Many invasive plant species get established in major urban areas first, and then spread to more remote areas **and are still being planted all over the province by professionals and homeowners**; therefore, it is forecasted that invasive species found only in a few urban areas now will eventually spread into rural and more northern and rural areas in future and need to be taken seriously now. If one is trying to prevent invasive species from dominating our lands, it will be more successful if one controls them at the earliest possible stage when they are isolated and in small numbers, an Early Detection and Rapid Response (EDRR) approach.

### **Species Considered for the List but Rejected (for now)**

Some common and widespread non-native species were considered for listing but have not been included on the list, as they do not fit the criteria for being dominant, for causing significant harm to native species, or for persisting permanently in an area in large numbers once established.

There is a fine line to determine which non-native species are truly invasive or are simply very successfully 'naturalized' in Ontario. Without declaring all non-native species invasive, since they all have some effect on native plant and animal species, this distinction was made using the extensive plant knowledge of the contributors. Further input is welcome.

This document is a work in progress, representing the current state of invasive plant species in Ontario. It will be updated from time to time as new information becomes available.

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category   | Botanical Name                         | Botanical Synonyms                                     | Common Name<br>(Synonyms)   | Plant Family  | Plant<br>Form      | Reproduction Method &<br>Dispersal Facilitated by                    | Lifecycle | Noxious<br>Weed<br>Ontario | Invasive<br>Species<br>Act 2015<br>Status | CFIA<br>Regulated | Habitat |                         |        |         |        |        |   |
|--|--|--|---|---------------|--------------------|--|-----------|----------------------------|---|-------------------|---------|-------------------------|--------|---------|--------|--------|---|
|  |  |  |   |               |                    |  |           |                            |   |                   | Aquatic | Lowland /<br>Riverbanks | Upland | Wetland | Meadow | Forest |   |
| <b>Category I - Top priority.</b> Widespread invasive species that exclude most other species and dominate sites indefinitely. Some are an imminent threat to human health, and some are restricted by Ontario laws. They are the top priority for control but control may be difficult and some are beyond control at present. Bio-controls may be the only effective long-term control option. Plants in this category are a threat to natural areas wherever they occur because they disperse widely and quickly, and benefit from human disturbances. Control where possible and do not plant. |  |  |   |               |                    |  |           |                            |   |                   |         |                         |        |         |        |        |   |
| I  | <i>Acer platanoides</i>                |  | Norway maple  | Sapindaceae   | tree               | <u>seed</u> ;<br>wind, planting                                      | woody     |                            |   |                   |         |                         | x      | x       |        |        | x |
| I  | <i>Aegopodium podagraria</i>           | <i>Aegopodium podagraria</i> var.<br><i>variegatum</i> | goutweed, ground elder, snow-on-the-mountain, Bishop's weed       | Apiaceae      | herb               | <u>seed, rhizomes</u> ;<br>planting, moving soil with root fragments | perennial |                            |   |                   |         |                         | x      | x       | x      |        | x |
| I  | <i>Ailanthus altissima</i>             |  | tree-of-heaven, Chinese sumach                                    | Simaroubaceae | tree               | <u>seed, suckers</u> ;<br>wind                                       | woody     |                            | Prohibited                                |                   |         |                         | x      | x       |        | x      | x |
| I  | <i>Alliaria petiolata</i>              | <i>Alliaria officinalis</i>                            | garlic mustard  | Brassicaceae  | herb               | <u>seed</u> ;<br>wind, carried on clothes & fur, earthworms          | biennial  |                            |   |                   |         |                         | x      | x       |        | (x)    | x |
| I  | <i>Alnus glutinosa</i>                 | <i>Betula alnus</i> var. <i>glutinosa</i>              | black alder, European black alder, common alder (in Europe)       | Betulaceae    | tree               | <u>seed</u> ;<br>seed carried by water, planting                     | woody     |                            |   |                   |         |                         | x      |         | x      | x      |   |
| I  | <i>Alnus incana</i> ssp. <i>incana</i> |  | grey alder, European alder  | Betulaceae    | tree               | <u>seed, suckers</u> ;<br>seed carried by water, suckers, planting   | woody     |                            |   |                   |         |                         | x      |         | x      |        |   |
| I  | <i>Azolla</i> spp.                     |  | mosquito fern, water fern   | Salvinaceae   | free-floating herb | <u>stem and root fragments</u> ;<br>water, aquarium dumping          | perennial |                            | Prohibited                                |                   |         | x                       |        |         | x      |        |   |
| I  | <i>Butomus umbellatus</i>              | <i>Butomus junceus</i>                                 | flowering-rush  | Butomaceae    | herb               | <u>water</u> ;<br>rhizomes, root fragments, seed, aquarium dumping   | perennial |                            | Prohibited                                |                   |         | x                       |        |         | x      |        |   |
| I  | <i>Cabomba caroliniana</i>             | <i>Cabomba caroliniana</i> var. <i>pulcherrima</i>     | Carolina fanwort, fanwort   | Cabombaceae   | herb               | <u>water</u> ;<br>rhizomes, stem fragments                           | perennial |                            | Restricted                                |                   |         | x                       |        |         |        |        |   |
| I  | <i>Celastrus orbiculatus</i>           |  | oriental bittersweet, round-leaved bittersweet, Asian bittersweet | Celastraceae  | vine               | <u>seed</u> ;<br>seed eaten by birds, planting                       | woody     |                            |   |                   |         |                         | x      | x       |        | x      | x |

# Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                  | Botanical Synonyms  | Common Name (Synonyms)                                 | Plant Family     | Plant Form         | Reproduction Method & Dispersal Facilitated by                        | Lifecycle            | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated   | Habitat |                      |        |         |        |        |
|----------|---------------------------------|---|--|------------------|--------------------|---|----------------------|----------------------|----------------------------------|------------------|---------|----------------------|--------|---------|--------|--------|
|          |                                 |   |  |                  |                    |   |                      |                      |                                  |                  | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| I        | <i>Egeria densa</i>             |   | waterweed, Brazilian waterweed, Anacharis              | Hydrocharitaceae | herb               | <u>water</u> : stem fragments   | perennial            |                      | Prohibited                       |                  | x       |                      |        |         |        |        |
| I        | <i>Elaeagnus umbellata</i>      | <i>Elaeagnus umbellata</i> var. <i>parvifolia</i> ; <i>Elaeagnus parvifolia</i>                       | autumn olive   | Elaeagnaceae     | shrub              | <u>seed</u> : seed eaten by birds & animals, planting                 | woody                |                      |                                  |                  |         | x                    | x      |         | x      | x      |
| I        | <i>Euonymus alatus</i>          |   | winged euonymus, burning-bush, winged spindle-tree     | Celastraceae     | shrub              | <u>seed</u> : seed eaten by birds, planting                           | woody                |                      |                                  |                  |         | x                    | x      |         | x      |        |
| I        | <i>Euonymus europaeus</i>       |   | European spindle-tree, European euonymus               | Celastraceae     | shrub              | <u>seed, rhizomes</u> : seed eaten by birds                           | woody                |                      |                                  |                  |         | x                    | x      |         | x      | x      |
| I        | <i>Ficaria verna</i>            | <i>Ranunculus ficaria</i> , <i>Ficaria calthifolia</i> , <i>Ficaria verna</i> ssp. <i>calthifolia</i> | lesser celandine, fig-root buttercup                   | Ranunculaceae    | herb               | <u>seed, bulbs</u> : rhizomes, seed                                   | perennial            |                      |                                  |                  |         | x                    | x      |         |        | x      |
| I        | <i>Frangula alnus</i>           | <i>Rhamnus frangula</i>   | glossy buckthorn                                       | Rhamnaceae       | shrub              | <u>seed</u> : seed eaten by birds                                     | woody                |                      |                                  | x "Rhamnus spp." |         | x                    | x      | x       | x      | x      |
| I        | <i>Heracleum mantegazzianum</i> |   | giant hogweed  | Apiaceae         | herb               | <u>seed</u> : water, planting   | monocarpic perennial | x                    |                                  |                  |         | x                    |        | x       | x      | x      |
| I        | <i>Hydrilla verticillata</i>    |   | hydrilla   | Hydrocharitaceae | herb               | <u>stem fragments, seed, offsets</u> : water, planting                | perennial            |                      | Prohibited                       |                  | x       |                      |        |         |        |        |
| I        | <i>Hydrocharis morsus-ranae</i> |   | European frog-bit                                      | Hydrocharitaceae | free-floating herb | <u>water</u> : fragments, buds (turions), seed                        | perennial            |                      | Restricted                       |                  | x       |                      |        | x       |        |        |
| I        | <i>Impatiens glandulifera</i>   |   | Himalayan balsam, purple jewelweed, policeman's helmet | Balsaminaceae    | herb               | <u>seed</u> : seed ejects when touched                                | annual               |                      |                                  |                  |         | x                    |        | x       | x      | x      |
| I        | <i>Koenigia polystachya</i>     | <i>Polygonum polystachyum</i> , <i>Persicaria wallichii</i> , <i>Aconogonon polystachyum</i>          | Himalayan knotweed, cultivated knotweed, Kashmir plume | Polygonaceae     | herb               | <u>root fragments, seeds</u> : moving soil with root pieces, planting | perennial            |                      | Restricted                       |                  |         | x                    |        | x       | x      |        |
| I        | <i>Lagarosiphon major</i>       |   | oxygen weed, African elodea, curly water weed          | Hydrocharitaceae | free-floating herb | <u>plant fragments</u> : water, aquarium dumping                      | perennial            |                      | Prohibited                       |                  | x       |                      |        | x       |        |        |



Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                                    | Botanical Synonyms                                  | Common Name<br>(Synonyms)  | Plant Family   | Plant Form         | Reproduction Method &<br>Dispersal Facilitated by                         | Lifecycle            | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|---|---|--|----------------|--------------------|---|----------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |   |   |  |                |                    |   |                      |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| I        | <i>Lonicera japonica</i>                          |   | Japanese honeysuckle   | Caprifoliaceae | shrub              | <u>seed</u> ;<br>seeds eaten by birds, planting                           | woody                |                      |                                  |                |         | x                    | x      |         |        | x      |
| I        | <i>Lonicera maackii</i>                           |   | Amur honeysuckle, Maack's honeysuckle  | Caprifoliaceae | shrub              | <u>seed</u> ;<br>seeds eaten by birds, planting                           | woody                |                      |                                  |                |         |                      | x      |         |        | x      |
| I        | <i>Lonicera morrowii</i>                          |   | Morrow's honeysuckle   | Caprifoliaceae | shrub              | <u>seed</u> ;<br>seeds eaten by birds, planting                           | woody                |                      |                                  |                |         | x                    | x      |         | x      | x      |
| I        | <i>Lonicera tatarica</i>                          |   | Tartarian honeysuckle  | Caprifoliaceae | shrub              | <u>seed</u> ;<br>seeds eaten by birds, planting                           | woody                |                      |                                  |                |         | x                    | x      |         | x      | x      |
| I        | <i>Ludwigia peploides</i> ssp. <i>glabrescens</i> |   | floating primrose-willow, creeping water primrose, water primrose, primrose willow | Onagraceae     | free-floating herb | <u>plant fragments</u> ;<br>water, aquarium dumping                       | perennial            |                      | Prohibited                       |                | x       |                      |        | x       |        |        |
| I        | <i>Melilotus albus</i>                            |   | white sweet clover   | Fabaceae       | herb               | <u>seed</u> ;<br>wind, planting   | biennial             |                      |                                  |                |         |                      | x      |         | x      |        |
| I        | <i>Microstegium vimineum</i>                      | <i>Andropogon vimineus</i> , <i>Eulalia viminea</i> | Japanese stilt grass, Asian stiltgrass   | Poaceae        | grass              | <u>seed</u> ;<br>wind, animal fur, agricultural contaminant, water        | annual               |                      |                                  | x              |         | x                    | x      | x       | x      | x      |
| I        | <i>Morus alba</i>                                 |   | white mulberry, common mulberry  | Moraceae       | tree               | <u>seed</u> ;<br>seeds eaten by birds, planting                           | woody                |                      |                                  |                |         | x                    | x      |         | x      | x      |
| I        | <i>Myriophyllum aquaticum</i>                     |   | parrot's feather, Brazilian water-milfoil  | Haloragaceae   | herb               | <u>plant fragments</u> ;<br>water, aquarium dumping                       | perennial            |                      | Prohibited                       |                | x       |                      |        | x       |        |        |
| I        | <i>Myriophyllum spicatum</i>                      |   | Eurasian water-milfoil   | Haloragaceae   | herb               | <u>plant fragments</u> ;<br>water   | perennial            |                      | Prohibited                       |                | x       |                      |        |         |        |        |
| I        | <i>Nymphoides peltata</i>                         |   | yellow floatingheart, floatingheart  | Menyanthaceae  | herb               | <u>seed, stolons, plant fragments</u> ;<br>water, boats, aquarium dumping | perennial            |                      | Restricted                       |                | x       |                      |        | x       |        |        |
| I        | <i>Pastinaca sativa</i>                           |   | wild parsnip   | Apiaceae       | herb               | <u>seed</u> ;<br>animal fur & clothes, rainwater                          | monocarpic perennial | x                    |                                  |                |         | x                    |        | x       | x      |        |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                                      | Botanical Synonyms  | Common Name (Synonyms)                                       | Plant Family     | Plant Form | Reproduction Method & Dispersal Facilitated by   | Lifecycle | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|---|---|--|------------------|------------|--|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |   |   |  |                  |            |  |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| I        | <i>Phalaris arundinacea</i> var. <i>arundinacea</i> | <i>Phalaris arundinacea</i>   | reed canary grass, ribbon grass                              | Poaceae          | grass      | <u>rhizomes, seeds</u> ;<br>root fragments, planting/seeding   | perennial |                      |                                  |                |         | x                    |        | x       | x      |        |
| I        | <i>Phragmites australis</i> ssp. <i>australis</i>   | <i>Phragmites communis</i>  | common reed, phragmites, European common reed, European reed | Poaceae          | grass      | <u>seed, rhizomes, root fragments</u> ;<br>root fragments carried by water or soil movement, wind, water | perennial |                      | Restricted                       |                | x       | x                    |        | x       | x      |        |
| I        | <i>Potamogeton crispus</i>                          |   | curly-leaved pondweed, curly pondweed                        | Potamogetonaceae | herb       | <u>seed</u> ;<br>water   | perennial |                      |                                  |                | x       |                      |        | x       |        |        |
| I        | <i>Pueraria montana</i> var. <i>lobata</i>          | <i>Pueraria lobata</i>  | kudzu  | Fabaceae         | vine       | <u>rhizomes, seed (rare)</u> ;<br>planting, water  | woody     | x                    |                                  | x              |         |                      | x      |         | x      | x      |
| I        | <i>Reynoutria japonica</i> var. <i>japonica</i>     | <i>Polygonum cuspidatum</i> , <i>Fallopia japonica</i> , <i>Polygonum japonicum</i> | Japanese knotweed, itadori knotweed, fleeceflower            | Polygonaceae     | herb       | <u>seed, rhizomes, root fragments</u> ;<br>root fragments carried by water or soil movement              | perennial |                      | Restricted                       |                |         | x                    | x      | x       | x      | x      |
| I        | <i>Reynoutria sachalinensis</i>                     | <i>Fallopia sachalinensis</i> ; <i>Polygonum sachalinense</i>                       | giant knotweed, Sakhalin knotweed                            | Polygonaceae     | herb       | <u>seed, rhizomes, root fragments</u> ;<br>root fragments carried by water or soil movement              | perennial |                      | Restricted                       |                |         | x                    | x      | x       | x      | x      |
| I        | <i>Reynoutria</i> × <i>bohemica</i>                 | <i>Polygonum</i> × <i>bohemica</i> ; <i>Fallopia</i> × <i>bohemica</i>              | hybrid knotweed, Bohemian knotweed                           | Polygonaceae     | herb       | <u>seed, rhizomes, root fragments</u> ;<br>root fragments carried by water or soil movement              | perennial |                      | Restricted                       |                |         | x                    | x      | x       | x      | x      |
| I        | <i>Rhamnus cathartica</i>                           |   | common buckthorn, European buckthorn                         | Rhamnaceae       | shrub      | <u>seed</u> ;<br>seed eaten by birds   | woody     | x                    |                                  | x              |         | x                    | x      | x       | x      | x      |
| I        | <i>Rubus bifrons</i>                                | <i>Rubus armeniacus</i> , <i>Rubus procerus</i> , <i>Rubus discolor</i>             | Himalayan blackberry, Asian blackberry                       | Rosaceae         | shrub      | <u>seed</u> ;<br>seed eaten by birds, planting   | woody     |                      |                                  |                |         | x                    |        | x       | x      |        |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category  | Botanical Name               | Botanical Synonyms   | Common Name (Synonyms)  | Plant Family     | Plant Form | Reproduction Method & Dispersal Facilitated by                | Lifecycle | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|---|------------------------------|--|---|------------------|------------|---|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|   |                              |  |   |                  |            |   |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| I   | <i>Rubus phoenicolasius</i>  |  | wine raspberry, Japanese wineberry, wineberry                     | Rosaceae         | shrub      | <u>seed</u> ;<br>seed eaten by birds, planting                | woody     |                      |                                  |                |         | x                    |        | x       | x      |        |
| I   | <i>Salvinia</i> sp.          |  | giant Salvinia, eared watermoss, water fern, floating watermoss   | Salviniaceae     | fern       | <u>plant fragments</u> ;<br>water, planting, aquarium dumping | perennial |                      | Prohibited                       |                | x       |                      |        |         |        |        |
| I   | <i>Scilla siberica</i>       | <i>Othocallis siberica</i>   | squill, Siberian squill   | Asparagaceae     | herb       | <u>seed, offsets</u> ;<br>ants, planting                      | perennial |                      |                                  |                |         | x                    | x      |         |        | x      |
| I   | <i>Stratiotes aloides</i>    | <i>Stratiotes aculeatus</i>  | water soldier   | Hydrocharitaceae | herb       | <u>seed, stolons</u> ;<br>water, aquarium dumping             | perennial |                      | Prohibited                       |                | x       |                      |        | x       |        |        |
| I   | <i>Trapa natans</i>          |  | water chestnut  | Lythraceae       | herb       | <u>seed, plant fragments</u> ;<br>water, boats                | annual    |                      | Prohibited                       |                | x       |                      |        | x       |        |        |
| I   | <i>Vincetoxicum nigrum</i>   | <i>Cynanchum nigrum</i> , <i>Cynanchum louiseae</i>                              | black swallowwort, dog strangling vine (DSV)                      | Apocynaceae      | herb       | <u>seed, short rhizomes</u> ;<br>wind, animal fur             | perennial | x                    | Restricted                       |                |         | x                    |        | x       | x      | x      |
| I   | <i>Vincetoxicum rossicum</i> | <i>Cynanchum rossicum</i> , <i>Vincetoxicum medium</i> , <i>Cynanchum medium</i> | pale swallowwort, dog strangling vine (DSV), European swallowwort | Apocynaceae      | herb       | <u>seed, short rhizomes</u> ;<br>wind, animal fur             | perennial | x                    | Restricted                       |                |         | x                    | x      |         | x      | x      |
| <b>Category 2 - Medium Priority.</b> Less widespread or localized invasives that are a serious concern because they have a large or permanent effect once they become dominant and they will spread more widely in time. They may dominate the niche so the native plants that would have been present are excluded, or they alter a natural process that maintains the habitat. Some are capable of becoming Category I species if given time and may already be so in some places, so are a priority for removal. These species disperse widely and so are a threat to biodiversity wherever they occur. Control where possible and do not plant. |                              |  |   |                  |            |   |           |                      |                                  |                |         |                      |        |         |        |        |
| 2   | <i>Acer negundo</i> *        |  | Manitoba maple, boxelder  | Sapindaceae      | tree       | <u>seed</u> ;<br>wind, planting (historical)                  | woody     |                      |                                  |                |         | x                    | x      | x       | x      | x      |
| 2   | <i>Achyranthes japonica</i>  |  | Japanese chaff-flower   | Amaranthaceae    | herb       | <u>seed</u> ;<br>animal fur & clothes, rainwater              | perennial |                      |                                  |                |         |                      |        |         | x      | x      |
| 2   | <i>Berberis thunbergii</i>   |  | Japanese barberry   | Berberidaceae    | shrub      | <u>seed</u> ;<br>seed eaten by birds & animals, planting      | woody     |                      |                                  | x              |         |                      | x      |         |        | x      |

# Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                                 | Botanical Synonyms  | Common Name (Synonyms)                                    | Plant Family  | Plant Form   | Reproduction Method & Dispersal Facilitated by              | Lifecycle                       | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|--|---|---|---------------|--------------|---|---------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |  |   |   |               |              |   |                                 |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 2        | <i>Berberis vulgaris</i>                       |   | common barberry, European barberry                        | Berberidaceae | shrub        | <u>seed</u> ;<br>seed eaten by birds & animals, planting    | woody                           | x                    |                                  | x              |         |                      | x      |         |        | x      |
| 2        | <i>Betula pendula</i>                          |   | European birch, weeping birch, European white birch       | Betulaceae    | tree         | <u>seed</u> ;<br>wind, planting                             | woody                           |                      |                                  |                |         | x                    |        | x       | x      |        |
| 2        | <i>Centaurea stoebe</i>                        | <i>Centaurea maculosa</i> , <i>Centaurea biebersteinii</i> , <i>Centaurea stoebe</i> ssp. <i>micranthos</i> | spotted knapweed  | Asteraceae    | herb         | <u>seed</u> ;<br>wind, animal fur & clothes                 | biennial, short-lived perennial | x                    |                                  |                |         |                      | x      |         | x      |        |
| 2        | <i>Convallaria majalis</i> var. <i>majalis</i> |   | lily-of-the-valley, European lily-of-the-valley           | Asparagaceae  | herb         | <u>rhizomes</u> ;<br>planting, moving soil with root pieces | perennial                       |                      |                                  |                |         | x                    | x      |         |        | x      |
| 2        | <i>Crataegus monogyna</i> var. <i>monogyna</i> |   | single-seed hawthorn, English hawthorn                    | Rosaceae      | shrub / tree | <u>seed</u> ;<br>seed eaten by birds & animals, planting    | woody                           |                      |                                  |                |         |                      | x      |         | x      |        |
| 2        | <i>Euonymus fortunei</i>                       |   | winter-creeper, climbing euonymus, wintercreeper euonymus | Celastraceae  | shrub        | <u>runners, rhizomes</u> ;<br>planting, seed                | woody                           |                      |                                  |                |         |                      | x      |         |        | x      |
| 2        | <i>Glyceria maxima</i>                         | <i>Molinia maxima</i>   | giant manna grass, rough manna grass, reed manna grass    | Poaceae       | grass        | <u>rhizomes, seed</u> ;<br>wind, planting                   | perennial                       |                      |                                  |                |         | x                    |        | x       | x      |        |
| 2        | <i>Hedera helix</i>                            | <i>Hedera caucasigena</i> , <i>Hedera chrysocarpa</i> , <i>Hedera rhizomatifera</i>                         | English ivy, common ivy                                   | Araliaceae    | vine         | <u>runners</u> ;<br>planting                                | woody                           |                      |                                  |                |         | x                    | x      |         |        | x      |
| 2        | <i>Iris pseudacorus</i>                        |   | yellow flag, yellow iris                                  | Iridaceae     | herb         | <u>seed, rhizomes</u> ;<br>water, planting                  | perennial                       |                      |                                  |                | x       | x                    |        | x       | x      |        |
| 2        | <i>Ligustrum obtusifolium</i>                  |   | border privet, blunt leaved privet                        | Oleaceae      | shrub        | <u>seed</u> ;<br>planting, seed eaten by birds              | woody                           |                      |                                  |                |         | x                    | x      |         |        | x      |
| 2        | <i>Ligustrum sinense</i>                       |   | Chinese privet  | Oleaceae      | shrub        | <u>seed, suckers</u> ;<br>planting, seed eaten by birds     | woody                           |                      |                                  |                |         | x                    |        | x       | x      | x      |
| 2        | <i>Ligustrum vulgare</i>                       |   | privet, European privet, common privet                    | Oleaceae      | shrub        | <u>seed</u> ;<br>planting, seed eaten by birds              | woody                           |                      |                                  |                |         | x                    | x      |         |        | x      |



# Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                   | Botanical Synonyms  | Common Name (Synonyms)  | Plant Family | Plant Form | Reproduction Method & Dispersal Facilitated by                               | Lifecycle | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|----------------------------------|---|---|--------------|------------|--|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                                  |   |   |              |            |  |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 2        | <i>Lolium arundinaceum</i>       | <i>Festuca arundinacea</i> , <i>Festuca elatior</i> , <i>Schedonorus arundinaceus</i> | tall fescue, tall ryegrass  | Poaceae      | grass      | <u>seed, rhizomes</u> ;<br>wind, planting                                    | perennial |                      |                                  |                |         |                      | x      | x       | x      |        |
| 2        | <i>Lolium pratense</i>           | <i>Festuca pratensis</i> ; <i>Schedonorus pratensis</i>                               | meadow fescue, English blue grass, meadow ryegrass                          | Poaceae      | grass      | <u>seed, rhizomes</u> ;<br>wind, planting                                    | perennial |                      |                                  |                |         | x                    | x      |         | x      |        |
| 2        | <i>Lythrum salicaria</i>         |   | purple loosestrife  | Lythraceae   | herb       | <u>seed</u> ;<br>water, wildlife, planting                                   | perennial |                      |                                  |                | x       |                      |        | x       | x      |        |
| 2        | <i>Miscanthus sacchariflorus</i> |   | Amur silvergrass, miscanthus, Japanese plumegrass, eulalia                  | Poaceae      | grass      | <u>rhizomes, seed</u> ;<br>wind, planting                                    | perennial |                      |                                  |                |         | x                    |        | x       | x      |        |
| 2        | <i>Miscanthus sinensis</i>       |   | miscanthus, Chinese silvergrass, maiden grass, eulalia                      | Poaceae      | grass      | <u>rhizomes, seed</u> ;<br>wind, planting                                    | perennial |                      |                                  |                |         | x                    |        | x       | x      |        |
| 2        | <i>Nitellopsis obtusa</i>        | <i>Chara obtusa</i> , <i>Nitella stelligera</i>                                       | starry stonewort  | Characeae    | algae      | <u>seeds, plant fragments</u> ;<br>water, boats, mammals, birds              | annual    |                      |                                  |                | x       |                      |        |         |        |        |
| 2        | <i>Rosa multiflora</i>           |   | multiflora rose, baby rose, rambler rose, Japanese rose, seven-sisters rose | Rosaceae     | shrub      | <u>seed, canes root at tips</u> ;<br>seed eaten by birds & animals, planting | woody     |                      |                                  |                |         | x                    | x      | x       | x      | x      |
| 2        | <i>Securigera varia</i>          | <i>Coronilla varia</i>  | crown vetch, purple crown-vetch   | Fabaceae     | herb       | <u>seed, rhizomes</u> ;<br>planting/seeding                                  | perennial |                      |                                  |                |         | x                    | x      |         | x      |        |
| 2        | <i>Symphytum officinale</i>      |   | comfrey, common comfrey   | Boraginaceae | herb       | <u>seed, root fragments</u> ;<br>planting, ants                              | perennial |                      |                                  |                |         | x                    | x      |         |        | x      |
| 2        | <i>Torilis arvensis</i>          |   | spreading hedge-parsley   | Apiaceae     | herb       | <u>seed</u> ;<br>seeds carried on clothes & fur                              | annual    |                      |                                  |                |         | x                    | x      |         | x      |        |
| 2        | <i>Torilis japonica</i>          | <i>Caucalis japonica</i>  | Japanese hedge-parsley, erect hedge-parsley                                 | Apiaceae     | herb       | <u>seed</u> ;<br>seeds carried on clothes & fur                              | biennial  |                      |                                  |                |         | x                    | x      |         | x      |        |
| 2        | <i>Tussilago farfara</i>         |   | coltsfoot, sweet coltsfoot  | Asteraceae   | herb       | <u>seed, rhizomes</u> ;<br>wind, water                                       | perennial | x                    |                                  |                |         | x                    |        | x       | x      |        |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category   | Botanical Name                            | Botanical Synonyms     | Common Name<br>(Synonyms)  | Plant Family | Plant Form | Reproduction Method &<br>Dispersal Facilitated by  | Lifecycle | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|--|---|------------------------|--|--------------|------------|--|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|  |   |                        |  |              |            |  |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 2  | <i>Typha angustifolia*</i>                |                        | narrow-leaved cattail  | Typhaceae    | herb       | <u>seed, root fragments</u> ;<br>wind, water, planting; root fragments carried by water or soil movement   | perennial |                      |                                  |                | x       |                      |        | x       |        |        |
| 2  | <i>Typha</i> × <i>glauca*</i>             |                        | hybrid cattail, blue cattail   | Typhaceae    | herb       | <u>seed, root fragments (needs T. latifolia present to form hybrid)</u> ;<br>wind, water, planting; root fragments carried by water or soil movement | perennial |                      |                                  |                | x       |                      |        | x       |        |        |
| 2  | <i>Viburnum opulus</i> var. <i>opulus</i> | <i>Viburnum opulus</i> | guelder rose, European highbush-cranberry, cranberry viburnum, snowball tree | Viburnaceae  | shrub      | <u>seed</u> ;<br>planting, seed eaten by birds   | woody     |                      |                                  |                |         | x                    |        |         | x      | x      |
| <b>Category 3 - Local priority.</b> Species that spread locally or persist and reproduce from initial introductions, but may have a negligible affect on biodiversity over the long term because they eventually become integrated into natural systems or will be dominated by natives, die out, or are only found on highly disturbed habitats and don't remain dominant over the long term. They take up space that could be occupied by native species and do not provide the same natural functions as the natives they replace. Some may be Category 2 in some parts of Ontario or in particular vegetation community types. Replace with native species wherever possible and do not plant. |   |                        |  |              |            |  |           |                      |                                  |                |         |                      |        |         |        |        |
| 3  | <i>Acer pseudoplatanus</i>                |                        | sycamore maple   | Sapindaceae  | tree       | <u>seed</u> ;<br>wind, planting  | woody     |                      |                                  |                |         |                      | x      |         |        | x      |
| 3  | <i>Aesculus hippocastanum</i>             |                        | horse chestnut   | Sapindaceae  | tree       | <u>seed</u> ;<br>planting by squirrels & humans  | woody     |                      |                                  |                |         |                      | x      |         |        | x      |
| 3  | <i>Ajuga reptans</i>                      |                        | creeping bugleweed, common bugle   | Lamiaceae    | herb       | <u>rhizomes</u> ;<br>planting, root fragments  | perennial |                      |                                  |                |         |                      | x      |         |        | x      |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                 | Botanical Synonyms                                  | Common Name (Synonyms)                             | Plant Family   | Plant Form | Reproduction Method & Dispersal Facilitated by  | Lifecycle                       | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|--------------------------------|---|--|----------------|------------|---|---------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                                |   |  |                |            |   |                                 |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Allium vineale</i>          |   | field garlic, wild garlic                          | Amaryllidaceae | herb       | <b>bulbils;</b><br>aerial and underground bulbils produce new plants, planting, soil movement | perennial                       |                      |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Anthriscus sylvestris</i>   |   | wild chervil, cow parsley                          | Apiaceae       | herb       | <b>seed;</b><br>roadside mowing, birds, seed contamination                                    | biennial, short-lived perennial | x                    |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Arctium lappa</i>           |   | greater burdock                                    | Asteraceae     | herb       | <b>seed;</b><br>seed attached to fur or clothing  | biennial                        |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Arctium minus</i>           |   | common burdock, lesser burdock                     | Asteraceae     | herb       | <b>seed;</b><br>seed attached to fur or clothing  | biennial                        |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Artemisia vulgaris</i>      |   | mugwort, common mugwort, common wormwood           | Asteraceae     | herb       | <b>rhizome fragments, seed;</b><br>wind, soil movement  | perennial                       |                      |                                  |                |         | x                    |        | x       |        |        |
| 3        | <i>Bromus inermis</i>          |   | smooth brome grass, awnless brome, Hungarian brome | Poaceae        | grass      | <b>seed, rhizomes;</b><br>wind, planting  | perennial                       |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Campanula rapunculoides</i> | <i>Campanula rapunculoides</i> var. <i>ucranica</i> | creeping bellflower                                | Campanulaceae  | herb       | <b>rhizomes, seed;</b><br>wind, planting  | perennial                       |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Cardamine impatiens</i>     | <i>Cardamine impatiens</i> var. <i>angustifolia</i> | narrowleaf bittercress, balsam bitter cress        | Brassicaceae   | herb       | <b>seed;</b><br>seed ejects when touched  | biennial                        |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3        | <i>Carex spicata</i>           |   | spiked sedge, prickly sedge                        | Cyperaceae     | herb       | <b>seed, rhizomes;</b><br>wind  | perennial                       |                      |                                  |                |         |                      |        |         | x      | x      |
| 3        | <i>Chelidonium majus</i>       |   | celandine, greater celandine                       | Papaveraceae   | herb       | <b>seed;</b><br>ants, birds   | perennial                       |                      |                                  |                |         | x                    | x      |         |        | x      |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                | Botanical Synonyms  | Common Name (Synonyms)            | Plant Family  | Plant Form | Reproduction Method & Dispersal Facilitated by                                     | Lifecycle                         | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|-------------------------------|---|-----------------------------------|---------------|------------|--|-----------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                               |   |                                   |               |            |  |                                   |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Cirsium arvense</i>        |   | Canada thistle, creeping thistle  | Asteraceae    | herb       | <u>seed, rhizomes</u> ;<br>wind, moving soil with root fragments                   | perennial                         | x                    |                                  |                |         | x                    | x      | x       | x      |        |
| 3        | <i>Clinopodium acinos</i>     | <i>Acinos arvensis</i>  | basil thyme, mother-of-thyme      | Lamiaceae     | herb       | <u>seed, rhizomes</u> ;<br>planting  | perennial                         |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Corydalis solida</i>       |   | spring corydalis, spring fumewort | Papaveraceae  | herb       | <u>seed</u> ;<br>ants, planting  | perennial                         |                      |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Dactylis glomerata</i>     |   | orchard grass                     | Poaceae       | grass      | <u>seed, rhizomes</u> ;<br>wind, planting/seeding                                  | perennial                         |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Dipsacus fullonum</i>      | <i>Dipsacum fullonum</i> ssp. <i>sylvestris</i> ,<br><i>Dipsacus sylvestris</i> | common teasel, teasel             | Dipsacaceae   | herb       | <u>seed</u> ;<br>wind, water, carried on clothes and fur                           | biennial or short-lived perennial |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Elaeagnus angustifolia</i> |   | Russian olive                     | Elaeagnaceae  | tree       | <u>seed</u> ;<br>seeds eaten by birds, planting                                    | woody                             |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Elymus repens</i>          | <i>Agropyron repens</i> , <i>Elytrigia repens</i>                               | quack grass, couch grass          | Poaceae       | grass      | <u>seed, rhizomes</u> ;<br>wind, moving soil with root fragments                   | perennial                         |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Eranthis hyemalis</i>      | <i>Helleborus hyemalis</i>  | winter aconite                    | Ranunculaceae | herb       | <u>seed, rhizomes</u> ;<br>planting, wind, moving soil with root fragments         | perennial                         |                      |                                  |                |         |                      | x      |         |        | x      |
| 3        | <i>Euphorbia virgata</i>      | <i>Euphorbia esula</i>  | leafy spurge                      | Euphorbiaceae | herb       | <u>seed, rhizomes</u> ;<br>wildlife, ants, water, moving soil with root fragments  | perennial                         | x                    |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Festuca trachyphylla</i>   | <i>Festuca longifolia</i> , <i>Festuca ovina</i> var. <i>duriuscula</i>         | hard fescue, sheep fescue         | Poaceae       | grass      | <u>seed, rhizomes</u> ;<br>wind, planting/seeding, moving soil with root fragments | perennial                         |                      |                                  |                |         |                      | x      |         | x      |        |



Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                  | Botanical Synonyms                                     | Common Name (Synonyms)                                | Plant Family   | Plant Form | Reproduction Method & Dispersal Facilitated by                                     | Lifecycle                         | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|---------------------------------|--|---|----------------|------------|--|-----------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                                 |  |   |                |            |  |                                   |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Festuca rubra ssp. rubra</i> |  | red fescue, creeping red fescue                       | Poaceae        | grass      | <u>seed, rhizomes</u> ;<br>wind, planting/seeding, moving soil with root fragments | perennial                         |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Galanthus nivalis</i>        |  | snowdrop, common snowdrop                             | Amaryllidaceae | herb       | <u>seed, offsets</u> ;<br>ants, planting   | perennial                         |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3        | <i>Galium mollugo</i>           |  | white bedstraw, wild madder, smooth bedstraw          | Rubiaceae      | herb       | <u>seed, stolons</u> ;<br>wind, root fragments, seeds carried on clothes & fur     | perennial                         | x                    |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Galium verum</i>             |  | yellow bedstraw                                       | Rubiaceae      | herb       | <u>seed, stolons</u> ;<br>wind, root fragments, seeds carried on clothes & fur     | perennial                         |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Geranium robertianum*</i>    |  | herb Robert   | Geraniaceae    | herb       | <u>seed</u> ;<br>wind, planting  | annual                            |                      |                                  |                |         |                      | x      |         |        | x      |
| 3        | <i>Geum urbanum</i>             |  | urban avens, herb Bennett, wood avens                 | Rosaceae       | herb       | <u>seed</u> ;<br>seeds carried on clothes & fur                                    | perennial                         |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3        | <i>Hemerocallis fulva</i>       | <i>Hemerocallis lilioasphodelus</i> var. <i>fulvus</i> | orange day-lily, common day-lily, ditch lily          | Asphodelaceae  | herb       | <u>offsets</u> ;<br>planting   | perennial                         |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Hesperis matronalis</i>      |  | dame's rocket, dame's violet                          | Brassicaceae   | herb       | <u>seed</u> ;<br>seeds carried on clothes & fur, planting/seeding                  | biennial or short-lived perennial |                      |                                  |                |         | x                    | x      | x       | x      |        |
| 3        | <i>Hieracium lachenalii</i>     | <i>Hieracium vulgatum</i>                              | common hawkweed, European hawkweed, blotched hawkweed | Asteraceae     | herb       | <u>seed, stolons</u> ;<br>wind, root fragments, seeds carried on clothes & fur     | perennial                         |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Lamium maculatum</i>         |  | spotted dead-nettle, spotted henbit                   | Lamiaceae      | herb       | <u>seed, rhizomes</u> ;<br>planting, root fragments                                | perennial                         |                      |                                  |                |         | x                    |        | x       |        |        |

Invasive Exotic Plant Species Ranking for Southern Ontario

| Category | Botanical Name                                     | Botanical Synonyms           | Common Name (Synonyms)   | Plant Family   | Plant Form | Reproduction Method & Dispersal Facilitated by   | Lifecycle                       | Noxious Weed Ontario | Invasive Species Act 2015 Status | CFIA Regulated | Habitat |                      |        |         |        |        |
|----------|--|------------------------------|--|----------------|------------|--|---------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |  |                              |  |                |            |  |                                 |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Lonicera xylosteum</i>                          |                              | European fly honeysuckle, dwarf fly honeysuckle, dwarf honeysuckle | Caprifoliaceae | shrub      | <u>seed</u> ;<br>seeds eaten by birds, planting  | woody                           |                      |                                  |                |         | x                    | x      |         | x      | x      |
| 3        | <i>Lupinus polyphyllus</i> var. <i>polyphyllus</i> | <i>Lupinus polyphyllus</i>   | large-leaved lupine, garden lupine, Russell lupine                 | Fabaceae       | herb       | <u>seed</u> ;<br>wind, planting  | perennial                       |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Lycopus europaeus</i>                           |                              | bugleweed, gypsywort, European water-horehound                     | Lamiaceae      | herb       | <u>seed, rhizomes</u> ;<br>water, planting   | perennial                       |                      |                                  |                | x       |                      |        | x       | x      |        |
| 3        | <i>Lysimachia nummularia</i>                       |                              | moneywort, creeping Jenny, creeping yellow loosestrife             | Primulaceae    | herb       | <u>runners, seed</u> ;<br>planting   | perennial                       |                      |                                  |                |         | x                    |        | x       |        | x      |
| 3        | <i>Melilotus officinalis</i>                       |                              | yellow sweet clover  | Fabaceae       | herb       | <u>seed</u> ;<br>wind, planting  | biennial                        |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Myosotis scorpioides</i>                        |                              | true forget-me-not   | Boraginaceae   | herb       | <u>seed, stolons</u> ;<br>planting   | perennial                       |                      |                                  |                |         |                      |        | x       |        | x      |
| 3        | <i>Oenanthe javanica</i>                           |                              | water dropwort, Java waterdropwort, water celery                   | Apiaceae       | herb       | <u>seed, rhizomes</u> ;<br>water, flooding, moving soil with root fragments, planting/seeding?                 | annual or short-lived perennial |                      |                                  |                |         | x                    |        | x       |        |        |
| 3        | <i>Persicaria virginiana</i> *                     | <i>Polygonum virginianum</i> | jumpseed, Virginia smartweed                                       | Polygonaceae   | herb       | <u>seed, plant fragments</u> ;<br>(escaped garden cultivar)<br>wind, moving soil with root fragments, planting | perennial                       |                      |                                  |                |         | x                    |        |         |        | x      |
| 3        | <i>Petasites japonicus</i>                         |                              | Japanese butterbur, Japanese sweet coltsfoot, fuki                 | Asteraceae     | herb       | <u>seed, rhizomes</u> ;<br>wind, planting  | perennial                       |                      |                                  |                |         | x                    |        | x       |        | x      |
| 3        | <i>Phellodendron amurense</i>                      |                              | Amur corktree, Chinese corktree                                    | Rutaceae       | tree       | <u>seed</u> ;<br>planting, seeds eaten by birds  | woody                           |                      |                                  |                | x       | x                    |        | x       |        | x      |

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|----------|---|---|---|-----------------|------------|--|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |   |   |   |                 |            |  |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Pilosella aurantiaca</i>                   | <i>Hieracium aurantiacum</i>                              | orange hawkweed, king-devil, devil's paintbrush                     | Asteraceae      | herb       | <u>seed, stolons</u> ;<br>wind, root fragments, seeds carried on clothes & fur | perennial |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Pilosella caespitosa</i>                   | <i>Hieracium caespitosum</i> , <i>Hieracium pratense</i>  | yellow hawkweed, meadow hawkweed                                    | Asteraceae      | herb       | <u>seed, stolons</u> ;<br>wind, root fragments, seeds carried on clothes & fur | perennial |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Pinus sylvestris</i> var. <i>syvestris</i> |   | Scots pine, Scotch pine   | Pinaceae        | tree       | <u>seed</u> ;<br>wind, planting  | woody     |                      |                                  |                |         | x                    | x      | x       | x      | x      |
| 3        | <i>Poa nemoralis</i>                          |   | wood blue grass, woodland spear grass, Eurasian woodland blue grass | Poaceae         | grass      | <u>seed</u> ;<br>wind  | perennial |                      |                                  |                |         |                      | x      |         |        | x      |
| 3        | <i>Poa pratensis</i> ssp. <i>pratensis</i>    |   | Kentucky blue grass   | Poaceae         | grass      | <u>seed, rhizomes</u> ;<br>wind  | perennial |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Populus alba</i>                           |   | white poplar, silver poplar   | Salicaceae      | tree       | <u>suckers</u> ;<br>planting   | woody     |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Pyrus calleryana</i>                       |   | callery pear  | Rosaceae        | tree       | <u>seed</u> ;<br>planting, seeds eaten by birds                                | woody     |                      |                                  |                |         | x                    |        | x       |        |        |
| 3        | <i>Ranunculus repens</i>                      |   | creeping buttercup  | Ranunculaceae   | herb       | <u>seed, rhizomes</u> ;<br>planting, moving soil with root fragments           | perennial |                      |                                  |                | x       |                      | x      | x       | x      |        |
| 3        | <i>Rhodotypos scandens</i>                    |   | jet-bead, black jet-bead, white kerria                              | Rosaceae        | shrub      | <u>seed, runners</u> ;<br>seeds eaten by birds                                 | woody     |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3        | <i>Ribes rubrum</i>                           |   | red currant, European red currant                                   | Grossulariaceae | shrub      | <u>seed, runners</u> ;<br>seeds eaten by birds, planting                       | woody     |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3        | <i>Robinia pseudoacacia</i>                   |   | black locust, false acacia  | Fabaceae        | tree       | <u>seed, suckers</u> ;<br>planting   | woody     |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Rorippa amphibia</i>                       | <i>Nasturtium amphibium</i> , <i>Sisymbrium amphibium</i> | marsh cress, amphibious yellow cress, creeping yellow cress         | Brassicaceae    | herb       | <u>root fragments</u> ;<br>water   | perennial |                      |                                  |                |         | x                    |        | x       | x      |        |

Invasive Exotic Plant Species Ranking for Southern Ontario

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|----------|--------------------------------|---|--|--------------|------------|---|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                                |   |  |              |            |   |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3        | <i>Salix alba</i>              | <i>Salix alba</i> var. <i>vitellina</i> | white willow   | Salicaceae   | tree       | <u>seed, fallen branches root</u> ;<br>planting, fallen branches root   | woody     |                      |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Salix</i> × <i>fragilis</i> | <i>Salix</i> × <i>rubens</i>            | crack willow; hybrid white willow                              | Salicaceae   | tree       | <u>seed, fallen branches root</u> ;<br>planting, fallen branches root   | woody     |                      |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Salix purpurea</i>          |   | purple willow, purple-osier willow, Streamco willow            | Salicaceae   | shrub      | <u>seed, fallen branches root</u> ;<br>planting, fallen branches root   | woody     |                      |                                  |                |         | x                    |        | x       | x      |        |
| 3        | <i>Sedum acre</i>              |   | mossy stonecrop  | Crassulaceae | herb       | <u>seed, rhizomes</u> ;<br>planting, wind   | perennial |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Setaria faberi</i>          |   | giant foxtail  | Poaceae      | grass      | <u>seed</u> ;<br>wind, water, animal fur  | annual    |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Solanum dulcamara</i>       |   | bittersweet nightshade, climbing nightshade, deadly nightshade | Solanaceae   | vine       | <u>seed, root fragments</u> ;<br>seeds eaten by animals   | perennial |                      |                                  |                |         | x                    | x      | x       |        | x      |
| 3        | <i>Sorbaria sorbifolia</i>     | <i>Spiraea sorbifolia</i>               | false spiraea, Ural false spiraea                              | Rosaceae     | shrub      | <u>suckers</u> ;<br>planting  | woody     |                      |                                  |                |         |                      | x      |         | x      | x      |
| 3        | <i>Sorbus aucuparia</i>        |   | European mountain-ash, rowan                                   | Rosaceae     | tree       | <u>seed</u> ;<br>seed eaten by birds, planting  | woody     |                      |                                  |                |         | x                    |        |         |        | x      |
| 3        | <i>Syringa reticulata</i>      |   | Japanese tree lilac  | Oleaceae     | tree       | <u>seed</u> ;<br>planting   | woody     |                      |                                  |                |         |                      | x      |         | x      | x      |
| 3        | <i>Syringa vulgaris</i>        |   | lilac, common lilac  | Oleaceae     | shrub      | <u>suckers</u> ;<br>planting  | woody     |                      |                                  |                |         |                      | x      |         | x      |        |
| 3        | <i>Tanacetum vulgare</i>       | <i>Chrysanthemum vulgare</i>            | tansy, common tansy  | Asteraceae   | herb       | <u>seed</u> ;<br>wind   | perennial |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3        | <i>Tilia cordata</i>           |   | European linden, little-leaf linden, small-leaf lime           | Malvaceae    | tree       | <u>seed</u> ;<br>wind, planting, hybridizes with native <i>Tilia</i> , mislabelled cultivars/hybrids being sold | woody     |                      |                                  |                |         | x                    | x      |         | x      | x      |



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|--|---|---|---|-----------------|------------|--|---------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|  |   |   |   |                 |            |  |                                 |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 3  | <i>Ulmus glabra</i>                           |   | Scotch elm, wych elm, Camperdown elm  | Ulmaceae        | tree       | <u>seed</u> ;<br>wind, planting (historical)                     | woody                           |                      |                                  |                |         | x                    | x      |         | x      | x      |
| 3  | <i>Ulmus pumila</i>                           |   | Siberian elm, Chinese elm   | Ulmaceae        | tree       | <u>seed</u> ;<br>wind, planting                                  | woody                           |                      |                                  |                |         | x                    | x      |         | x      |        |
| 3  | <i>Viburnum lantana</i>                       |   | wayfaring-tree, wayfaring viburnum  | Viburnaceae     | shrub      | <u>seed</u> ;<br>seed eaten by birds, planting                   | woody                           |                      |                                  |                | x       | x                    |        | x       |        |        |
| 3  | <i>Vinca minor</i>                            |   | periwinkle, myrtle, lesser periwinkle                                       | Apocynaceae     | herb       | <u>rhizomes</u> ;<br>planting, moving soil with root fragments   | perennial                       |                      |                                  |                |         | x                    | x      |         |        | x      |
| 3  | <i>Viola odorata</i>                          |   | sweet violet, English violet, March violet                                  | Violaceae       | herb       | <u>runners, seed</u> ;<br>planting, root fragments               | perennial                       |                      |                                  |                |         |                      |        |         |        | x      |
| Category 4 - Species to Watch. Species that have been observed spreading occasionally and currently appear to have minimal effects on biodiversity but may in the future. These species should be monitored to assess impacts. Control where desired and do not plant. |   |   |   |                 |            |  |                                 |                      |                                  |                |         |                      |        |         |        |        |
| 4  | <i>Acer ginnala</i>                           | <i>Acer tataricum</i> ssp. <i>ginnala</i> | Amur maple  | Sapindaceae     | shrub      | <u>seed</u> ;<br>wind, planting                                  | woody                           |                      |                                  |                |         | x                    | x      |         | x      |        |
| 4  | <i>Akebia quinata</i>                         |   | fiveleaf akebia, chocolate vine   | Lardizabalaceae | vine       | <u>seed, stolons</u> ;<br>seeds eaten by birds, planting         | woody                           |                      |                                  |                |         | x                    | x      |         |        | x      |
| 4  | <i>Allium carinatum</i> ssp. <i>carinatum</i> | <i>Allium carinatum</i>                   | keeled garlic   | Amaryllidaceae  | herb       | <u>seed, bulbils</u> ;<br>wind, moving soil with root fragments  | perennial                       |                      |                                  |                |         |                      | x      |         | x      |        |
| 4  | <i>Anemone ranunculoides</i>                  |   | yellow woodland anemone, yellow woodland thimbleweed, European wood anemone | Ranunculaceae   | herb       | <u>seed, rhizomes</u> ;<br>wind, dumped plant material, planting | perennial                       |                      |                                  |                |         | x                    |        |         | x      | x      |
| 4  | <i>Angelica sylvestris</i>                    |   | woodland angelica, wild angelica, angelica                                  | Apiaceae        | herb       | <u>seed, rhizomes</u> ;<br>wind, planting                        | annual or short-lived perennial |                      |                                  |                |         | x                    |        |         | x      |        |
| 4  | <i>Ampelopsis glandulosa</i>                  | <i>Ampelopsis brevipedunculata</i>        | Amur peppervine, porcelain-berry  | Vitaceae        | vine       | <u>seed, rooting stems</u> ;<br>seeds eaten by birds, planting   | woody                           |                      |                                  |                |         |                      | x      |         | x      | x      |

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|----------|--------------------------------|---|---|------------------|------------|--|-------------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                                |   |   |                  |            |  |                                     |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 4        | <i>Aralia elata</i>            | <i>Aralia spinosa</i> var. <i>elata</i> | Japanese angelica-tree, Hercules club               | Araliaceae       | shrub      | <u>seed, suckers</u> ;<br>seed eaten by birds, planting                                | woody                               |                      |                                  |                |         |                      | x      |         | x      | x      |
| 4        | <i>Arundo donax</i>            |   | giant reed, giant cane, Spanish reed                | Poaceae          | grass      | <u>rhizomes, plant fragments</u> ;<br>planting, water, moving soil with root fragments | perennial                           |                      |                                  | x              | x       |                      |        | x       |        |        |
| 4        | <i>Brachypodium sylvaticum</i> |   | slender false brome                                 | Poaceae          | grass      | <u>seed</u> ;<br>wind, seeds carried on clothes & fur                                  | perennial                           |                      |                                  |                | x       |                      | x      | x       |        |        |
| 4        | <i>Buddleja davidii</i>        |   | butterfly bush                                      | Scrophulariaceae | shrub      | <u>seed</u> ;<br>planting, wind  | woody                               |                      |                                  |                |         |                      | x      |         | x      |        |
| 4        | <i>Carex acutiformis</i>       |   | European lake sedge, lesser pond sedge, swamp sedge | Cyperaceae       | sedge      | <u>seed, rhizomes</u> ;<br>water, seeds carried on fur                                 | perennial                           |                      |                                  |                |         |                      |        | x       | x      |        |
| 4        | <i>Carex pendula</i>           |   | pendulous sedge, hanging sedge                      | Cyperaceae       | sedge      | <u>seed, rhizomes</u> ;<br>water, planting   | perennial                           |                      |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Convolvulus arvensis</i>    |   | field bindweed                                      | Convolvulaceae   | herb       | <u>rhizomes, seed</u> ;<br>wind, moving soil with root pieces                          | perennial                           |                      |                                  |                |         | x                    | x      | x       | x      |        |
| 4        | <i>Cornus mas</i>              |   | Cornelian-cherry                                    | Cornaceae        | shrub      | <u>rhizomes, seed</u> ;<br>seeds eaten by birds, planting                              | woody                               |                      |                                  |                |         |                      | x      |         |        | x      |
| 4        | <i>Corydalis nobilis</i>       |   | Siberian corydalis                                  | Papaveraceae     | herb       | <u>seed</u> ;<br>planting, ants  | perennial                           |                      |                                  |                |         |                      |        |         |        | x      |
| 4        | <i>Daucus carota</i>           |   | wild carrot, Queen Anne's lace                      | Apiaceae         | herb       | <u>seed</u> ;<br>wind, seeds carried on fur & clothes                                  | biennial                            | x                    |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Eichhornia crassipes</i>    |   | water-hyacinth                                      | Pontederiaceae   | herb       | <u>seeds, plant fragments</u> ;<br>water, plant fragments moved by boats               | mostly annual (perennial in U.S.A.) |                      |                                  |                | x       |                      |        |         |        |        |

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|----------|--|-----------------------------------|--|-----------------|--------------|--|-----------------------------------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |  |                                   |  |                 |              |  |                                   |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 4        | <i>Eleutherococcus sieboldianus</i>                | <i>Acanthopanax sieboldianus</i>  | five-leaved aralia   | Araliaceae      | shrub        | <u>seed, layering</u> ;<br>seeds eaten by animals, planting    | woody                             |                      |                                  |                |         |                      | x      |         |        | x      |
| 4        | <i>Fraxinus excelsior</i>                          |                                   | European ash, common ash   | Oleaceae        | tree         | <u>seed</u> ;<br>wind  | woody                             |                      |                                  |                |         | x                    | x      |         | x      | x      |
| 4        | <i>Galium odoratum</i>                             |                                   | sweet woodruff, sweet-scented bedstraw                             | Rubiaceae       | herb         | <u>rhizomes</u> ;<br>planting, moving soil with root fragments | perennial                         |                      |                                  |                |         |                      | x      |         |        | x      |
| 4        | <i>Gypsophila paniculata</i>                       |                                   | baby's-breath, tall baby's-breath                                  | Caryophyllaceae | herb         | <u>rhizomes</u> ;<br>planting                                  | perennial                         |                      |                                  |                | x       |                      |        | x       |        |        |
| 4        | <i>Hippophae rhamnoides</i>                        |                                   | sea buckthorn  | Elaeagnaceae    | shrub / tree | <u>seed, suckers</u> ;<br>planting, seeds eaten by birds       | woody                             |                      |                                  |                |         |                      | x      |         | x      |        |
| 4        | <i>Humulus japonicus</i>                           | <i>Humulus scandens</i>           | Japanese hop   | Cannabaceae     | vine         | <u>seed</u> ;<br>water, planting                               | annual                            |                      |                                  |                | x       |                      |        |         | x      |        |
| 4        | <i>Impatiens parviflora</i>                        |                                   | small-flowered jewelweed, small touch-me-not                       | Balsaminaceae   | herb         | <u>seed</u> ;<br>seed ejects when touched, planting            | annual                            |                      |                                  |                |         | x                    |        |         |        |        |
| 4        | <i>Isatis tinctoria</i>                            |                                   | dyer's woad  | Brassicaceae    | herb         | <u>seed</u> ;<br>water, animals                                | biennial or short-lived perennial |                      |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Lamium galeobdolon</i>                          | <i>Lamiastrum galeobdolon</i>     | yellow archangel   | Lamiaceae       | herb         | <u>seed, stem fragments</u> ;<br>planting                      | perennial                         |                      |                                  |                |         | x                    |        |         |        | x      |
| 4        | <i>Leucanthemum vulgare</i>                        | <i>Chrysanthemum leucanthemum</i> | ox-eye daisy   | Asteraceae      | herb         | <u>seed</u> ;<br>wind, planting/seeding                        | perennial                         |                      |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Leymus arenarius</i>                            |                                   | European dunegrass, lymegrass, European lymegrass, blue lyme grass | Poaceae         | grass        | <u>rhizomes, seed</u> ;<br>wind                                | perennial                         |                      |                                  |                | x       |                      |        |         |        |        |
| 4        | <i>Magnolia kobus</i>                              |                                   | Kobus magnolia   | Magnoliaceae    | tree         | <u>seed</u> ;<br>seed eaten by birds, planting                 | woody                             |                      |                                  |                |         |                      | x      |         |        | x      |
| 4        | <i>Melissa officinalis</i> ssp. <i>officinalis</i> |                                   | lemon balm   | Lamiaceae       | herb         | <u>seed, root fragments</u> ;<br>planting                      | perennial                         |                      |                                  |                |         | x                    |        | x       |        |        |

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|----------|-------------------------------|------------------------------|---|--------------|---------------|--|-----------|----------------------|----------------------------------|----------------|---------|----------------------|--------|---------|--------|--------|
|          |                               |                              |   |              |               |  |           |                      |                                  |                | Aquatic | Lowland / Riverbanks | Upland | Wetland | Meadow | Forest |
| 4        | <i>Mycelis muralis</i>        | <i>Lactuca muralis</i>       | wall lettuce  | Asteraceae   | herb          | <u>seed</u> ;<br>wind                          | perennial |                      |                                  |                | x       | x                    |        |         | x      |        |
| 4        | <i>Pachysandra terminalis</i> |                              | Japanese spurge   | Buxaceae     | herb          | <u>seed, rhizomes</u> ;<br>planting            | perennial |                      |                                  |                |         |                      |        |         |        | x      |
| 4        | <i>Persicaria perfoliata</i>  | <i>Polygonum perfoliatum</i> | Asiatic tearthumb, mile-a-minute weed, devil's-tail tearthumb | Polygonaceae | vine          | <u>seed</u> ;<br>wind, birds & animals         | annual    |                      |                                  | x              |         | x                    |        |         | x      |        |
| 4        | <i>Pistia stratiotes</i>      |                              | water-lettuce   | Araceae      | floating herb | <u>offsets</u> ;<br>water, aquarium dumping    | perennial |                      |                                  |                | x       |                      |        | x       |        |        |
| 4        | <i>Poa compressa</i>          |                              | Canada blue grass, flat-stemmed blue grass                    | Poaceae      | grass         | <u>seed, rhizomes</u> ;<br>wind                | perennial |                      |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Prunus avium</i>           |                              | mazzard cherry, sweet cherry, bird cherry                     | Rosaceae     | tree          | <u>seed</u> ;<br>seed eaten by birds, planting | woody     |                      |                                  |                |         | x                    |        |         |        | x      |
| 4        | <i>Prunus tomentosa</i>       |                              | Nanking cherry, Manchu cherry                                 | Rosaceae     | shrub         | <u>seed, suckers</u> ;<br>seed eaten by birds  | woody     |                      |                                  |                |         | x                    |        |         |        | x      |
| 4        | <i>Rorippa sylvestris</i>     |                              | creeping yellow cress   | Brassicaceae | herb          | <u>rhizomes, root fragments</u> ;<br>water     | perennial |                      |                                  |                |         | x                    |        | x       |        |        |
| 4        | <i>Tulipa sylvestris</i>      |                              | wild tulip, woodland tulip                                    | Liliaceae    | herb          | <u>offsets</u> ;<br>planting                   | perennial |                      |                                  |                |         |                      | x      |         | x      | x      |



### Notes for Columns on the Species List

| Column Title             | Function  | Sources of Information  |
|--------------------------|---|---|
| Botanical Name           | Species shown in red* are native in parts of Ontario or perform critical ecosystem functions despite being exotic species and this should be considered before removing them on a site by site basis. | VASCAN, TRCA (2025), USDA Plants, NHIC 2025   |
| Botanical Name           | Accurate and current scientific name  | VASCAN, TRCA (2025), USDA Plants, NHIC 2025   |
| Botanical Synonyms       | Old scientific names, only a few commonly used ones are listed  | VASCAN, NHIC 2025   |
| Common Names             | Commonly used names in Ontario, only a few commonly used are listed   | VASCAN, NHIC 2025, names in common usage in other publications (edited to remove very uncommon names that are rarely used)  |
| Plant Form               | Tree/shrub/vine/herb/grass/sedge  | OMNR, VASCAN  |
| Reproduction Method      | Main method of reproduction   | various documents (see references)  |
| Dispersal Facilitated by | Main method of dispersal  | various documents (see references)  |
| Life Cycle               | Woody/annual/perennial  | USDA Plants, various sources (see references)   |
| Noxious Ontario          | Listed as a Noxious Weed in Ontario   | OMAFRA - Ontario Noxious Weed List  |
| ISA 2015 Status          | Listed in the Invasive Species Act, Ontario 2015 regulations  | OMNR - <a href="http://www.ontario.ca/laws/regulation/r16354">www.ontario.ca/laws/regulation/r16354</a>   |
| CFIA Regulated           | Listed as a regulated species by the Canadian Food Inspection Agency  | CFIA website - <a href="http://www.inspection.gc.ca/plants/plant-pests-invasive-species/pests/regulated-pests/eng/1363317115207/1363317187811">www.inspection.gc.ca/plants/plant-pests-invasive-species/pests/regulated-pests/eng/1363317115207/1363317187811</a> |
| Habitat                  | Where plant is commonly found growing   | various documents (see references)  |

References

| Author(s)   | Year    | Title   | Source  | Species             | Verification Date (if applicable) |
|---|---------|---|---|---------------------|-----------------------------------|
| Adams, W.W., III, B. Demming-Adams, T.N. Rosenstiel, and V. Ebbert        | 2001    | Dependence of photosynthesis and energy dissipation activity upon growth form and light environment during the winter                             | Photosynthesis Research 67: 51-62   | periwinkle          |                                   |
| Albers, F., S. Liede and U. Meve  | 1993    | Deviating chromosome numbers in Asclepiadaceae  | Nord. J. Bot. 13(1):37-39   | dog-strangling vine |                                   |
| Alex, J.F., Professor, Ontario Agricultural College, University of Guelph | 1976(?) | Ontario Weeds, Descriptions, Illustrations and Keys to their Identification, Publication 505  | Consumer Information Centre, Ontario Ministry of Agriculture and Food, Toronto, Ontario, Canada | Various             |                                   |
| Anderson, Hayley  | 2012    | Invasive Common (European) Buckthorn (Rhamnus cathartica) Best Management Practices in Ontario  | Ontario Invasive Plant Council, Peterborough, ON  | common buckthorn    |                                   |
| Ang, B.N., L.T. Kok, G.I. Holtzman and D.D. Wolf                          | 1995    | Canada thistle [Cirsium arvense (L.) Scop.] response to density of Cassida rubiginosa Muller (Coleoptera: Chrysomelidae) and plant competition    | Biological Control 5: 31-38   | Canada thistle      |                                   |
| Anon  | 1990    | Vegetation Management Guidelines for Illinois Nature Preserves  | Illinois Nature Preserves Commission  | Various             |                                   |
| Anon  | 1991    | Invasive Exotics  | Andropogon Associates, Inc. Factsheet reprinted by Maryland Native Plant Society: 4             | Various             |                                   |
| Bailey, L.H. and E.Z. Bailey, Hortus                                      | 1977    | Third: A Concise Dictionary of Plants Cultivated in the United States and Canada  | MacMillan Publishing Co., Inc., New York  | Various             |                                   |
| Barden, L.S.  | 1987    | Invasion of Microstegium vimineum (Poaceae), an exotic, annual, shade-tolerant, C4 grass, into a North Carolina floodplain                        | American Midland Naturalist 118(1): 40-45   | Japanese stiltgrass |                                   |
| Barden, L.S.  | 1996    | The linear relation between stand yield and integrated light in a shade-adapted annual grass  | Bulletin of the Torrey Botanical Club 123(2): 122-125   | Japanese stiltgrass |                                   |
| Barden, L.S.  | 1996    | A comparison of growth efficiency of plants on the east and west sides of a forest canopy gap   | Bulletin of the Torrey Botanical Club 123(3): 240-242   | Japanese stiltgrass |                                   |
| Baskin, C.C. and J.M. Baskin  | 2001    | Seeds: Ecology, Biogeography, and Evolution of Dormancy and Germination   | Academic Press, San Diego, CA   | Various             |                                   |
| Beerling, D.J., J.P. Bailey and A.P. Conolly                              | 1994    | Biological Flora of the British Isles: Fallopia japonica (Houtt.) Ronse Decraene (Reynoutria japonica Houtt.; Polygonum cuspidatum Sieb. & Zucc.) | Journal of Ecology 82(4): 959-979   | Japanese knotweed   |                                   |
| Benson, L.  | 1942    | The North American Ranuncli-V.  | Bulletin of the Torrey Botanical Club 69(5): 373-386  | lesser celandine    |                                   |
| Berenbaum, M.   | 1981    | Patterns of furanocoumarin distribution and insect herbivory in the Umbelliferae: Plant chemistry and community structure                         | Ecology 62(5): 1254-1266  | giant hogweed       |                                   |
| Bryan, W.B. and T.A. Mills  | 1988    | Effect of frequency and method of defoliation and plant size on the survival of multiflora rose   | Biological Agriculture and Horticulture 5: 209-215  | multiflora rose     |                                   |
| Cadenasso, M.L. and S.T.A. Pickett  | 2000    | Linking forest, edge structure to edge function: mediation of herbivore damage  | Journal of Ecology 88: 31-44  | tree-of-heaven      |                                   |
| Caffrey, J.M.   | 1999    | Phenology and long-stem control of Heracleum mantegazzianum   | Hydrobiologia 415: 223-228  | giant hogweed       |                                   |
| Carter, G.A. and A.H. Teramura  | 1988    | Nonsummer stomatal conductance fo the invasive vines kudzu and Japanese honeysuckle   | Canadian Journal of Botany 66: 2392-2395  | kudzu               |                                   |
| Carter, J.R.L.  | 1996    | Bright as a buttercup   | Garden (London) 121(2): 90-95   | lesser celandine    |                                   |
| Christensen, Tove and Paul Leale  | 1999    | Pale Swallow-wort Study: First Year Results   | Urban Forest Associates, Toronto, Ontario, Canada   | dog-strangling vine |                                   |
| Cipollini, D.   | 2002    | Variation in the expression of chemical defenses in Alliaria petiolata (Brassicaceae) in the field and common garden                              | American Journal of Botany 89(9): 1422-1430   | garlic mustard      |                                   |
| Cody, W.J.  | 1961    | Iris pseudacorus L. escaped from cultivation in Canada  | Canadian Field Naturalist 75: 139-142   | yellow-flag iris    |                                   |

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|   |      |  |   |  |  |
|---|------|--|---|--|--|
| Cruden, R.W. and A.M. McClain           | 1996 | Pollination biology and breeding system of <i>Alliaria petiolata</i> (Brassicaceae)  | Bulletin of the Torrey Botanical Club 123(4): 273-280   | garlic mustard   |  |
| Cusick, A.W. and M. Ortt                | 1987 | <i>Polygonum perfoliatum</i> L. (Polygonaceae): A Significant New Weed in the Mississippi Drainage   | SIDA Contributions to Botany 12(1): 246-249   | mile-a-minute weed                                       |  |
| Daniel, S and David Werier              | 2010 | Slender false brome ( <i>Brachypodium sylvaticum</i> ssp. <i>sylvaticum</i> ): a new invasive plant in New York  | New York Flora Association Quarterly Newsletter Vol. 21 No. 1   | slender false brome                                      |  |
| Davies Jr., F.T.                        | 1987 | Effects of VA mycorrhizal fungi on growth and nutrient uptake of cuttings of <i>Rosa multiflora</i> in two container media with three levels of fertilizer application | Plant and Soil 104: 31-35   | Multiflora rose  |  |
| Davis, O.H.                             | 1927 | Germination and early growth of <i>Cornus florida</i> , <i>Sambucus canadensis</i> , and <i>Berberis Thunbergii</i>  | The Botanical Gazette 84(3): 225-263  | Japanese barberry  |  |
| Dawson, F.H. and D. Holland             | 1999 | The distribution in bankside habitats of three alien invasive plants in the U.K. in relation to the development of control strategies                                  | Hydrobiologia 415: 193-201  | giant hogweed  |  |
| Debener, T.                             | 1999 | Generic analysis of horticulturally important morphological and physiological characters in diploid roses  | Gartenbauwissenschaft 64(1): 14-20  | multiflora rose  |  |
| Demars, B.G. and R.E.J. Boerner         | 1997 | Foliar nutrient dynamics and resorption in naturalized <i>Lonicera maackii</i> (Caprifoliaceae) populations in Ohio, USA   | American Journal of Botany 84(1): 112-117   | Amur honeysuckle   |  |
| Demming-Adams, B.                       | 1998 | Survey of thermal dissipation and pigment composition in sun and shade leaves  | Plant Cell Physiology 39 (5): 474-482   | periwinkle   |  |
| Demming-Adams, B. and W.W. Adams, III   | 1996 | The role of xanthophylls cycle carotenoids in the protection of photosynthesis   | Trends in Plant Science Reviews 1(1): 21-26   | periwinkle   |  |
| Derickx, L.M.; Antunes, P.M.            | 2013 | A Guide to the Identification and Control of Exotic Invasive Species in Ontario's Hardwood Forests.  | Sault Ste. Marie: Invasive Species Research Institute.  | Various  |  |
| Derr, J.F.                              | 1992 | Low management crops and areas: multiflora rose and its control in pastures.   | Publication - Virginia Cooperative Extension Service (456-017): 208-209   | multiflora rose  |  |
| Destefano, S.                           | 2013 | Status of exotic grasses and grass-like vegetation and potential impacts on wildlife in New England.   | Wildlife Society Bulletin 37(3): 486 – 496.   | Various  |  |
| Detzel, A. and M. Wink                  | 1993 | Attraction, deterrence or intoxication of bees ( <i>Apis mellifera</i> ) by plant allelochemicals  | Chemoecology 4(1): 8-18   | periwinkle   |  |
| DeYoung, Bill and Bonnie Bergsma        | 2006 | Woodland Ecology in the Presence of the Invasive Alien Species Buckthorn ( <i>Rhamnus cathartica</i> , <i>R. frangula</i> )  | Society of Ecological Restoration Ontario Chapter Annual General Meeting, University of Waterloo, Waterloo, Ontario, Canada | common buckthorn   |  |
| Dinkins, M.F.                           | 2005 | Biological control of Canada thistle ( <i>Cirsium arvense</i> ) in Southwestern Nebraska   | Master Thesis, University of Nebraska, Lincoln, Nebraska  | Canada thistle   |  |
| Dirr, M.A.                              | 1997 | Dirr's Hardy Trees and Shrubs: An Illustrated Encyclopedia   | Timber Press Portland, OR.  | autumn olive, winged euonymus                            |  |
| Dirr, M.A.                              | 1998 | Manual of woody landscape plants, 5th ed.  | Stipes Publishing LLC Champaign, IL. 1187 p.  | periwinkle, common buckthorn, Norway maple, autumn olive |  |
| DiTomasso, J.                           | 2001 | Element stewardship abstract for <i>Centaurea solstitialis</i>   | The Nature Conservancy  | yellow starthistle                                       |  |
| Donald, W.W.                            | 1994 | The biology of Canada thistle ( <i>Cirsium arvense</i> )   | Review of Weed Science 6: 77-101  | Canada thistle   |  |
| Dremann, C.                             | 1996 | Grasses and mulch control: Yellow-star thistle   | Restoration and Management Notes 14(1): 79  | yellow starthistle                                       |  |
| Dreyer, G.D., L.M. Baird and C. Fickler | 1987 | <i>Celastrus scandens</i> and <i>Celastrus orbiculatus</i> : Comparisons of reproductive potential between a native and an introduced woody vine                       | Bulletin of the Torrey Botanical Club 114(3): 260-264   | Oriental bittersweet                                     |  |
| Eber, S. and R. Brandl                  | 2003 | Regional patch dynamics of <i>Cirsium arvense</i> and possible implications for plant-animal interactions  | Journal of Vegetation Science 14: 259-266   | Canada thistle   |  |

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|---|------|--|--|---|--|
| Edwards, G.R., G.W. Bourdot and M.J. Crawley                                  | 2000 | Influence of herbivory, competition and soil fertility on the abundance of <i>Cirsium arvense</i> in acid grassland  | Journal of Applied Ecology 37: 321-334   | Canada thistle                                      |  |
| Ehrenfeld, J.G.   | 1999 | Structure and dynamics of populations of Japanese barberry ( <i>Berberis thunbergii</i> DC.) in deciduous forests of New Jersey  | Biological Invasions 1: 203-213  | Japanese barberry                                   |  |
| Ehrenfeld, J.G.   | 1997 | Invasion of deciduous forest pereserves in the New York metropolitan region by Japanese barberry ( <i>Berberis thunbergii</i> DC.)                                     | Journal of the Torrey Botanical Society 124(2):210-215                             | Japanese barberry                                   |  |
| Ehrenfeld, J.G., P. Kourtov and W. Huang                                      | 2001 | Changes in soil functions following invasions of exotic understory plants in deciduous forests   | Ecological Applications 11(5): 1287-1300   | Japanese stiltgrass, Japanese barberry              |  |
| Facelli, J.M.   | 1994 | Multiple indirect effects of plant litter affect the establishment of woody seedlings in old fields  | Ecology 75(6): 1727-1735   | tree-of-heaven                                      |  |
| Fawcett, R.S.   | 1980 | Today's weed - multiflora rose   | Weeds Today 11(1): 22-23   | multiflora rose                                     |  |
| Feret, P.P., R.L. Bryant and J.A. Ramsay                                      | 1974 | Genetic variation among American seed sources of <i>Ailanthus altissima</i> (Mill.) Swingle  | Scientia Horticulturae 2: 405-411  | tree-of-heaven                                      |  |
| Fernald, M.L.   | 1970 | Gray's Manual of Botany, 8th ed.   | D. Van Nostrand Company, New York, NY  | Japanese stiltgrass, common buckthorn, Norway maple |  |
| Fowells, H.A.   | 1965 | Silvics of Forest Trees of the United States   | U.S. Dept. Agric. Forest Service Agric. Handbook No. 271, p. 642-648.              | black locust  |  |
| Frick, Dr. B. L.  | 1990 | Studies on the Control of Problem Weed Species in Conservation Tillage Systems: Final Report 19  | Southwestern Ontario Agricultural Research Corporation, Harrow, Ontario, Canada    | Various   |  |
| Frye, J.G. and G. Wolfgang  | 1992 | Growth responses to flooding and recovery of deciduous trees   | Zietschrift-fuer-Naturforschung-Section C Journal of Biosciences 47(9-10): 683-689 | common buckthorn                                    |  |
| Funk, Jennifer L., Elsa E. Cleland, Katherine N. Suding and Erika S. Zavaleta | 2008 | Restoration through reassembly: plant traits and invasion resistance   | Trends in Ecology and Evolution 23(12): 695-703                                    | Various   |  |
| Galbraith-Kent, Shannon L. and Steven N. Handel                               | 2008 | Invasive <i>Acer platanoides</i> inhibits native sapling growth in forest understorey communities  | Journal of Ecology 96: 293-302   | Norway maple  |  |
| Gavine, Kim   | 1996 | Natural Invaders: Invasive Plants in Ontario   | Federation of Ontario Naturalists, Toronto, Ontario, Canada                        | Various   |  |
| Gibson, D.J., G. Spyreas and J. Benedict                                      | 2002 | Life history of <i>Microstegium vimineum</i> (Poaceae), an invasive grass in southern Illinois   | Journal of the Torrey Botanical Society 129(3): 207-219                            | Japanese stiltgrass                                 |  |
| Gleason, H.A. and A. Cronquist  | 1993 | Manual of Vascular Plants of Northeastern United States and Adjacent Canada, 2nd ed.   | The New York Botanical Garden. Bronx, NY. 910 p.                                   | lesser celandine, Norway maple                      |  |
| Gorchov, D.L. and D.E. Trisel   | 2003 | Competitive effects of the invasive shrub, <i>Lonicera maackii</i> (Rupr.) Herder (Caprifoliaceae), on the growth and survival of native tree seedlings                | Plant Ecology 166: 13-24   | Amur honeysuckle                                    |  |
| Gould, A.M.A. and D.L. Gorchov  | 2000 | Effects of the exotic invasive shrub, <i>Lonicera maackii</i> on the survival and fecundity of three species of native annuals   | American Midland Naturalist 144: 36-50   | Amur honeysuckle                                    |  |
| Grashof-Bokdam, C.J. and W. Geertsema   | 1998 | The effect of isolation and history on colonization patterns of plant species in secondary woodland  | Journal of Biogeography 25: 837-846  | periwinkle  |  |
| Gravano, E., M. Ferretti, F. Bussotti and P. Grossoni                         | 1999 | Foliar symptoms and growth reduction of <i>Ailanthus altissima</i> Desf. In an area with high ozone and acidic deposition in Italy                                     | Water, Air, and Soil Pollution 116: 267-272  | tree-of-heaven                                      |  |
| Hamerlynck, E. P.   | 2001 | Chlorophyll II fluorescence and photosynthetic gas exchange responses to irradiance of Tree of Heaven ( <i>Ailanthus altissima</i> ) in contrasting urban environments | Photosynthetica 39(1): 79-86   | tree-of-heaven                                      |  |
| Harrington, R.A., B.J. Brown, P.B. Reich and J.H. Fownes                      | 1989 | Ecophysiology of exotic and native shrubs in Southern Wisconsin II. Annual growth and carbon gain.   | Oecologica 80: 356-367   | common buckthorn                                    |  |
| Havinga, D. and Ontario Invasive Plants Working Group                         | 2000 | Sustaining Biodiversity: A Strategic Plan for Managing Invasive Plants in Southern Ontario   | City of Toronto, Office of the City Forester, Toronto, Ontario, Canada             | Various   |  |

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|---|------|--|--|--|--|
| Heinken, T., H. Hanspach and F. Schaumann                 | 2001 | How important is endozoochorous seed dispersal by wild mammals in central European forests?  | Hercynia 34(2): 237-259 (German; abstract in English)  | lesser celandine   |  |
| Hettwer, U. and B. Gerowitt                               | 2004 | An investigation of genetic variation in <i>Cirsium arvense</i> field patches  | Weed Research 44: 289-297  | Canada thistle   |  |
| Hickman, J.C. and C.S. Hickman                            | 1977 | <i>Polygonum perfoliatum</i> : a recent Asiatic adventive  | Bartonia 45: 18-23   | mile-a-minute weed   |  |
| Hidayati, S.N., J.M. Baskin and C.C. Baskin               | 2000 | Dormancy-breaking and germination requirements of seeds of four <i>Lonicera</i> species (Caprifoliaceae) with underdeveloped spatulate embryos                     | Seed Science Research 10(4): 459-469   | Amur honeysuckle   |  |
| Hiebert, Ronald D. and Stubbendieck, James                | 1993 | Handbook for Ranking Exotic Plants for Management and Control  | U.S. Department of the Interior, National Park Service, Natural Resources Publication Office, Denver, Colorado | Various  |  |
| Hong, T.D. and R.H. Ellis                                 | 1990 | A comparison of maturation drying, germination, and dessication tolerance between developing seeds of <i>Acer pseudoplatanus</i> L. and <i>Acer platanoides</i> L. | New Phytologist 116(4): 589-596  | Norway maple   |  |
| Honnay, O., M. Hermy, and P. Coppin                       | 1999 | Impact of habitat quality on forest plant species colonization   | Forest Ecology and Management 115: 157-170   | periwinkle   |  |
| Horton, J.J. and H.S. Neufeld                             | 1998 | Photosynthesis responses of <i>Microstegium vimineum</i> (Trin.) A. Camus, a shade-tolerant, C4 grass, to variable light environments                              | Oecologia 114:11-19  | Japanese stiltgrass  |  |
| Huebner, Cynthia D., Cassandra Olson and Heather C. Smith | 2008 | Invasive Plants Field and Reference Guide: An Ecological Perspective of Plant Invaders of Forests and Woodlands  | United States Department of Agriculture, Forest Service, Newtown Square, Pennsylvania                          | Various  |  |
| Huner, N.P.A., M. Krol, J.P. Williams, and E. Maissan     | 1988 | Overwintering periwinkle ( <i>Vinca minor</i> L.) exhibits increased photosystem I activity  | Plant Physiology 87: 721-726   | periwinkle   |  |
| Hunt, D.M. and R.F. Zaremba                               | 1992 | The northeastward spread of <i>Microstegium vimineum</i> (Poaceae) into New York and adjacent states   | Rhodora 94(878): 167-170   | Japanese stiltgrass  |  |
| Hutchings, Michael J. and Price, Elizabeth A. C.          | 1999 | Biological Flora of the British Isles: No. 205. <i>Glechoma hederacea</i> L. ( <i>Nepeta glechoma</i> Benth., <i>N. hederacea</i> (L.) Trev.)                      | Journal of Ecology. 87(2): 347-364   | ground ivy   |  |
| Hutchinson, T.F. and J.L. Vankat                          | 1997 | Invasibility and effects of Amur honeysuckle in southwestern Ohio forests  | Conservation Biology 11(5): 1117-1124  | Amur honeysuckle   |  |
| Hyland, H.L.  | 1977 | History of U.S. plant introduction   | Environmental Review 4: 26-33  | Various  |  |
| Illinois Nature Preserves Commission                      | 1990 | Management Guidelines for Illinois Nature Preserves  | Illinois Nature Preserves Commission 1(1)  | Various  |  |
| Kaufman, Sylvan Ramsey & Wallace Kaufman                  | 2007 | Invasive Plants: Guide to Identification and the Impacts and Control of Common North American Species  | Stackpole Books, Mechanicsburg, Pennsylvania   | yellow starthistle, Chinese yam  |  |
| Kavassalis, C., Sims, C.                                  | 2023 | Invasive Knotweeds - Information and Control   | Master Gardeners of Ontario (Facebook Group)   | knotweed   |  |
| Kirk, Malcolm   | 1985 | <i>Vincetoxicum</i> spp. (Dog-Strangling Vines): Alien Invaders of Natural Ecosystems in Southern Ontario  | The Plant Press. 3(4):130-131  | Black swallow-wort   |  |
| Klein, H.   | 2011 | Fire Effects Information System  | University of Alaska   | dames rocket, common reed, Tartarian honeysuckle, leafy spurge, European alder, orchard grass, oxeye daisy, garlic mustard, goutweed |  |
| Klick, K., O'Brien, S. and L. Lobik-Klick                 | 1989 | Exotic Plants of Indiana Dunes National Lakeshore. A Management Review of their Extent and Implications  | United States National Park Service. 135 p.  | Various  |  |
| Kluth, S., A. Kruess and T. Tschardtke                    | 2001 | Interactions between the rust fungus <i>Puccinia punctiformis</i> and ectophagus and endophagus insects on creeping thistle.                                       | Journal of Applied Ecology 38: 548-556   | Canada thistle   |  |
| Kohri, M., M. Kamada, T. Yuuki, T. Okabe and N. Nakagoshi | 2002 | Expansion of <i>Elaeagnus umbellata</i> on a gravel bar in the Naka River, Shikoku, Japan.   | Plant Species Biology 17(1): 25-26   | Autumn olive   |  |



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|   |      |  |   |                     |  |
|---|------|--|---|---------------------|--|
| Kourtev, P.S., J.G. Ehrenfeld and W.Z. Huang                                    | 1998 | Effects of exotic plant species on soil properties in hardwood forests of New Jersey   | Water, Air, and Soil Pollution 105: 493-501   | Japanese stiltgrass |  |
| Kourtev, P.S., W.Z. Huang and J.G. Ehrenfeld                                    | 1999 | Differences in earthworm densities and nitrogen dynamics in soils under exotic and native plant species  | Biological Invasions 1:237-245  | Japanese stiltgrass |  |
| Kricsfalussy, Vladimir V. and Gavin C. Miller                                   | 2008 | Invasion and distribution of <i>Cynanchum rossicum</i> (Asclepidaceae) in the Toronto Region, Canada, with remarks on its taxonomy   | Thaiszea Journal of Botany, Kosice, 18: 21-36   | dog-strangling vine |  |
| Kurz, D.  | 1997 | Shrubs and Woody Vines of Missouri   | Missouri Department of Conservation. Jefferson City, Missouri   | autumn olive        |  |
| Lancaster, A.L., D.E. Deyton, C.E. Sams, J.C. Cummins, C.D. Pless and D.C. Fare | 2002 | Soybean oil controls two-spotted spider mites on burning bush  | Journal of Environmental Horticulture 20(2): 86-92  | winged euonymus     |  |
| Landry, L.M.  | 2013 | Les especes floristiques exotiques et envahissants du Quebec   | <a href="http://www.lmlandry.com/LM_Landry_2013_Les_especes_floristiques_exotiques_du_Qc.pdf">http://www.lmlandry.com/LM_Landry_2013_Les_especes_floristiques_exotiques_du_Qc.pdf</a>               | Various             |  |
| Larson, K.C., S.P. Fowler and J.C. Walker                                       | 2002 | Lack of pollinators limits fruit set in the exotic <i>Lonicera japonica</i>  | American Midland Naturalist 148: 54-60  | Japanese stiltgrass |  |
| Louda, S. and C.W. O'Brien  | 2002 | Unexpected ecological effects of distributing the exotic weevil, <i>Larinus planus</i> (F.), for the biological control of Canada thistle                                      | Conservation Biology 16: 717-727  | Canada thistle      |  |
| Luken, J.O.   | 1988 | Population structure and biomass allocation of the naturalized shrub <i>Lonicera maackii</i> (Rupr.) Maxim. in forest and open habitats  | American Midland Naturalist 119(2): 258-267   | Amur honeysuckle    |  |
| Luken, J.O. and D.T. Mattimiro  | 1991 | Habitat-specific resilience of the invasive shrub Amur honeysuckle ( <i>Lonicera maackii</i> ) during repeated clipping  | Ecological Applications 1(1): 104-109   | Amur honeysuckle    |  |
| Luken, J.O., T.C. Tholemeier, B.A. Kunkel and L.M. Kuddes                       | 1995 | Branch architecture plasticity of Amur honeysuckle ( <i>Lonicera maackii</i> (Rupr.) Herder): Initial response in extreme light environments                                   | Bulletin of the Torrey Botanical Club 122(3): 190-195   | Amur honeysuckle    |  |
| Luken, J.O., T.C. Tholemeier, B.A. Kunkel and L.M. Kuddes                       | 1995 | Performance, plasticity, and acclimation of the nonindigenous shrub <i>Lonicera maackii</i> (Caprifoliaceae) in contrasting light environments                                 | Canadian Journal of Botany 73: 1953-1961  | Amur honeysuckle    |  |
| Lumer, Cecile and Yost, Susan E.  | 1995 | The reproductive biology of <i>Vincetoxicum nigrum</i> (L.) Moench (Asclepidaceae), a Mediterranean weed in New York State   | Bulletin of the Torrey Botanical Club 122(1):15-23  | black swallow-wort  |  |
| Magee D.W. and H.A. Ahles   | 1999 | The Flora of the Northeast   | University of Massachusetts Press. Amherst, MA  | Japanese barberry   |  |
| Marshall, P.E. and G.R. Furnier   | 1981 | Growth responses of <i>Ailanthus altissima</i> seedlings to SO <sub>2</sub>  | Environmental Pollution, Series A: Ecological and Biological 25(2): 149-153   | tree-of-heaven      |  |
| Maruta, E.  | 1976 | Seedling establishment of <i>Polygonum cuspidatum</i> on Mt. Fuji  | Japanese Journal of Ecology 26: 101-105   | Japanese knotweed   |  |
| Maruta, E.  | 1983 | Growth and survival of current-year seedlings of <i>Polygonum cuspidatum</i> at the upper distribution limit on Mt Fuji  | Oecologia 60: 316-320   | Japanese knotweed   |  |
| Matlack, Glenn R.   | 1987 | Diaspore Size, Shape, and Fall Behavior in Wind-Dispersed Plant Species  | American Journal of Botany, 74(8):1150-1160   | Various             |  |
| Matsuda, H., H. Shimoda, T. Morikawa and M. Yoshikawa                           | 2001 | Phytoestrogens from the roots of <i>Polygonum cuspidatum</i> (Polygonaceae): Structure-requirement of hydroxyanthraquinones for estrogen activity                              | Bioorganic & Medicinal Chemistry Letters 11:1839-1842   | Japanese knotweed   |  |
| McClay, A.S.  | 2002 | Canada thistle. In: Van Driesche, R., B. Blossey, M. Hoddle, S. Lyon, and R. Reardon (eds.) Biological Control of Invasive Plants in the Eastern United States. FHTET-2002-04. | Forest Health Technology Enterprise Team, USDA, Morgantown, West Virginia   | Canada thistle      |  |
| McCormick, L.H. and N.L. Hartwig  | 1995 | Control of the noxious weed mile-a-minute ( <i>Polygonum perfoliatum</i> ) in reforestation  | Northern Journal for Applied Forestry 12: 127-132   | mile-a-minute weed  |  |
| Macoun, John  | 1892 | Catalogue of Canadian Plants IV-VII  | William Foster Brown & Company  | Various             |  |
| McDonnell, M.J.   | 1986 | Old field vegetation height and dispersal pattern of bird-disseminated woody plants  | Bulletin of the Torrey Botanical Club 113(1): 6-11  | multiflora rose     |  |
| Mehrhoff, L.  | 2000 | Perennial <i>Microstegium vimineum</i> (Poaceae): An Apparent Misidentification?   | Journal of the Torrey Botanical Society 127(3): 251-254   | Japanese stiltgrass |  |
| Miller, K.E. and D.L. Gorchoy   | 2004 | A review of distribution, ecology and control of this invasive exotic plant  | Oecologica 139: 359-375   | Amur honeysuckle    |  |
| Missouri Botanical Garden   | 2014 | Plant Finder   | <a href="http://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?kempercode=v680">http://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?kempercode=v680</a> | Various             |  |

Invasive Exotic Plant Species Ranking for Southern Ontario

|  |      |   |  |                                  |  |
|--|------|---|--|----------------------------------|--|
| Mizuno, N., A. Takahashi, T. Wagatsuma, T. Mizuno and H. Obata | 2002 | Chemical composition of guttation fluid and leaves of <i>Petasites japonicus</i> v. <i>giganteus</i> and <i>Polygonum cuspidatum</i> growing on ultramafic soil | Soil Science Plant Nutrition 48(3): 451-453  | Japanese knotweed                |  |
| Moore, Raymond J.  | 1958 | The Dog-Strangline Vine <i>Cynanchum Medium</i> , Its Chromosome Number and Its Occurrence in Canada  | The Canadian Field-Naturalist 73:144-147   | dog-strangling vine              |  |
| Moringa, T.  | 1926 | Effect of alternating temperatures upon the germination of seeds  | American Journal of Botany 13(2): 141-158  | Japanese barberry                |  |
| Mulligan, Gerald A., Editor and Compiler                       | 1979 | The Biology of Canadian Weeds, Contribution 1-32, Publication 1693  | Agriculture Canada, Minister of Supply and Services, Reprinted from Canadian Journal of Plant Science                            | Various                          |  |
| Mulligan, Gerald A., Editor and Compiler                       | 2011 | Common Weeds of the Northern United States and Canada   |  | Various                          |  |
| Munger, G.   | 2001 | Fire Effects Information System   | University of Alaska   | garlic mustard                   |  |
| Nawrocki, T.   | 2010 | Fire Effects Information System   | University of Alaska   | English ivy, bird's-foot trefoil |  |
| Neite, E. and U. Pahlke  | 1991 | Air pollution-induced changes in the ground vegetation in oak/hornbeam forests in Westphalian Bight in the last 30 years  | Forst und Holz 46(10):286-289 (German; abstract in English)  | lesser celandine                 |  |
| Nowak, D.J. and Rowan A. Rowntree                              | 1990 | History and range of Norway Maple   | Journal of Arboriculture 16 (11) 291-295   | Norway maple                     |  |
| Nuzzo, V.A.  | 1993 | Current and historic distribution of garlic mustard ( <i>Alliaria petiolata</i> ) in Illinois   | The Michigan Botanist 32(1): 23-33   | garlic mustard                   |  |
| Oliver, J.D.   | 1996 | Mile-a-Minute weed ( <i>Polygonum perfoliatum</i> L.), an invasive vine in natural and disturbed sites  | Castanea 61(3):244-251   | mile-a-minute weed               |  |
| Oliver, J.D. and N.C. Colle                                    | 1994 | <i>Polygonum perfoliatum</i> L. (Polygonaceae), the Mile-a-minute weed  | Florida Department of Agriculture & Consumer Services Division of Plant Industry. Botany Circular No. 29. November/December 1994 | mile-a-minute weed               |  |
| Ontario Ministry of Natural Resources                          | 2011 | Invasive Phragmites - Best Management Practices   | Ontario Ministry of Natural Resources, Peterborough, Ontario   | common reed                      |  |
| Ostfield, R.S., R.H. Manson and C.D. Canham                    | 1997 | Effects of rodents on survival of tree seeds and seedlings invading old fields  | Ecology 78(5): 1531-1542   | tree-of-heaven                   |  |
| Overlease, W. R.   | 1987 | 150 Years of Vegetation Change in Chester County, Pennsylvania  | Bartonia No. 53: 1-12  | Various                          |  |
| Panetta, F.D.  | 2000 | Fates of fruits and seeds of <i>Ligustrum lucidum</i> W.T. Ait. and <i>L. sinense</i> Lour. Maintained under natural rainfall or irrigation                     | Australian Journal of Botany 48(6): 701-705  | Chinese privet                   |  |
| Park, C.W.   | 1986 | Nomenclatural typifications in <i>Polygonum</i> Section <i>Echinocaulon</i> (Polygonaceae)  | Brittonia 38(4): 394-406   | mile-a-minute weed               |  |
| Porter, A.   | 1994 | Implications of introduced garlic mustard ( <i>Alliaria petiolata</i> ) in the habitat of <i>Pieris virginiensis</i> (Pieridae)                                 | Journal of the Lepidopterists' Society 48(2): 171-172  | garlic mustard                   |  |
| Price, D.L., J. Hough-Goldstein and M.T. Smith                 | 2003 | Biology, rearing, and preliminary evaluation of host range of two potential biological control agents for mile-a-minute weed, <i>Polygonum perfoliatum</i> L.   | Environmental Entomology 32(1): 229-236  | mile-a-minute weed               |  |
| Pridham, Dave  | 2009 | The Landowner's Guide to Controlling Invasive Woodland Plants   | Ontario Federation on Anglers and Hunters, Peterborough, Ontario   | Various                          |  |
| Pringle, James S.  | 1973 | The Spread of <i>Vincetoxicum</i> Species (Asclepiadaceae) in Ontario   | Royal Botanical Gardens, Hamilton, Ontario   | dog-stangling vine               |  |
| Pysek, P.  | 1991 | <i>Heracleum mantegassianum</i> in the Czech Republic: Dynamics of spreading from the historical perspective  | Folia Geobotanica et Phytotaxonomica 26(4): 439-454  | giant hogweed                    |  |
| Pysek, P., M. Kopecky, V. Jarosik and P. Kotkova               | 1998 | The role of human density and climate in the spread of <i>Heracleum mantegazzianum</i> in the Central European landscape  | Diversity and Distributions 4: 9-16  | giant hogweed                    |  |
| Randall, John M. & Janet Marinelli, Editors                    | 1996 | Invasive Plants: Weeds of the Global Garden   | Brooklyn Botanic Garden Publications, Brooklyn, New York   | Various                          |  |
| Redman, D.E.   | 1995 | Distribution and habitat types for Nepal <i>Microstegium</i> [ <i>Microstegium vimineum</i> (Trin.) Camus] in Maryland and the District of Columbia             | Castanea 60(3): 270-275  | Japanese stiltgrass              |  |

Invasive Exotic Plant Species Ranking for Southern Ontario

|   |      |  |   |  |   |
|---|------|--|---|--|---|
| Rhoades, A.F. and T.A. Block  | 2000 | The Plants of Pennsylvania   | University of Pennsylvania Press, Philadelphia, Pennsylvania                              | Various  |   |
| Riefner, R.E.   | 1982 | Studies on the Maryland flora VIII: range extensions of <i>Polygonum perfoliatum</i> L., with notes on introduction and dispersal in North America | Phytologia 50(2): 152-159   | mile-a-minute weed   |   |
| Schueler, F.  | 1999 | The <i>Acer negundo</i> community  | Wildflower 15(3)  | Manitoba maple   |   |
| Silveri, A., P.W. Dunwiddie and H.J. Michaels   | 2001 | Logging and edaphic factors in the invasion of an Asian woody vine in a mesic North American forest  | Biological Invasions 3: 379-389   | Oriental bittersweet   |   |
| Smith, L.   | 2013 | Extended leaf phenology in deciduous forest invaders: mechanisms of impact on native communities   | Journal of Vegetation Science 24 979–987  | Various  |   |
| Smittle, D. ed.   | 2002 | Care-free plants: a guide to growing the 200 hardest low-maintenance, long-living beauties   | The Reader's Digest Association, Pleasantville, NY. 352 p.                                | periwinkle   |   |
| Sole, M., W. Durka, S. Eber, and R. Brandl  | 2004 | Genotypic and genetic diversity of the common weed <i>Cirsium arvense</i> (Asteraceae)   | International Journal of Plant Science 165(3): 437-444                                    | Canada thistle   |   |
| Soper, James H. and Margaret L. Heimbürger  | 1990 | Shrubs of Ontario  | Royal Ontario Museum, Toronto, Ontario, Canada, 495 p.                                    | Various  |   |
| Stoleson, S.H. and D.M. Finch   | 1999 | Unusual nest sites for southwestern willow flycatchers.  | Wilson Bulletin 111(4): 574-575   | multiflora rose  |   |
| Stone, K.R.   | 2009 | Fire Effects Information System  | University of Alaska  | dog-strangling vine, yellow flag iris, periwinkle, yellow hawkweed |   |
| Strobl, Silvia  | 1996 | Evaluation of Manual and Herbicide Control Treatments for the Removal of the Invasive Exotic Species, Glossy Buckthorn                             | Ontario Ministry of Natural Resources, Southcentral Sciences Section, Kemptville, Ontario | glossy buckthorn   |   |
| Stromayer, K.A.K., R.J. Warren, A.S. Johnson, P.E. Hale, C.L. Rogers, and C.L. Tucker | 1998 | Chinese privet and the feeding ecology of white-tailed deer: the role of an exotic plant   | Journal of Wildlife Management 62(4): 1321-1329   | Chinese privet   |   |
| Sutherland, W.J.  | 1990 | Biological Flora of the British Isles: <i>Iris pseudacorus</i> L. No. 169  | Journal of Ecology 78: 833-848  | yellow-flag iris   |   |
| Suthers, H.B., J.M. Bickal and P.G. Rodewald  | 2000 | Use of successional habitat and fruit resources by songbirds during autumn migration in central New Jersey   | Wilson Bulletin 112(2): 249-260   | Autumn olive   |   |
| Symonds, G.W.   | 1963 | The Shrub Identification Book  | William and Morrow Company. New York, NY  | Various  |   |
| Tallamy, D.W.   | 2007 | Bringing Nature Home. How You Can Sustain Wildlife with Native Plants  | Timber Press Portland, OR.  | Various  |   |
| Tanaka, N., M. Takao, and T. Matsumoto  | 1995 | Vincamine production in multiple shoot culture derived from hairy roots of <i>Vinca minor</i>  | Plant Cell, Tissue and Organ Culture 41: 61-64  | periwinkle   |   |
| Taylor, K. and B. Markham   | 1978 | Biological flora of the British Isles: <i>Ranunculus ficaria</i> (Ficaria verna Huds.; F. ranunculoides Moench)                                    | Journal of Ecology 66: 1011-1031  | lesser celandine   |   |
| Tiley, G.E.D., F.S. Dodd and P.M. Wade  | 1996 | <i>Heracleum mantegassianum</i> Sommier & Levier   | Journal of Ecology  | giant hogweed  |   |
| Tjepkema, J.D. and I.J. Winship   | 2004 | Energy requirement for nitrogen fixation in actinorhizal and legume root nodules   | Science (New Series) 209(4453): 279-281   | autumn olive   |   |
| Tomczyk, M. and J. Gudej  | 2003 | Pilewort ( <i>Ficaria verna</i> Huds.) - early-spring medicinal plant  | Herba Polonica 49 (3/4): 444-450 (Polish; abstract in English)                            | lesser celandine   |   |
| Tu, M.  | 2002 | Element stewardship abstract for <i>Dioscorea oppositifolia</i>  | The Nature Conservancy  | Chinese yam  | <a href="http://wiki.bugwood.org/Dioscorea_oppositifolia">http://wiki.bugwood.org/Dioscorea_oppositifolia</a> Last verified January 2, 2024 |
| Urban Forest Associates Inc.  | 2002 | Invasive Exotic Species Ranking for Southern Ontario   | Urban Forest Associates, Toronto, Ontario, Canada   | Various  |   |
| Van Clef, M. and E.W. Stiles  | 2001 | Seed longevity in three parts of native and non-native congeners: Assessing invasive potential   | Northeastern Naturalist 8(3): 301-310   | mile-a-minute weed   |   |

| Waggy, M.  | 2010 | Fire Effects Information System: Aegopodium podagraria   | University of Alaska  | goutweed  | <a href="http://www.fs.fed.us/database/feis/plants/forb/aegpod/all.html">http://www.fs.fed.us/database/feis/plants/forb/aegpod/all.html</a><br><a href="#">Last verified January 19, 2022, broken Janaury 4, 2023</a> |
|--|------|--|---|---|---|
| Wells, Elizabeth Fortson; Brown, Rebecca Louise                            | 2000 | An annotated checklist of the vascular plants in the forest at historic Mount Vernon, Virginia: a legacy from the past   | Castanea 65(4): 242-257   | ground ivy  |   |
| Wheeler Jr. A. G. and S. A. Mengel   | 1984 | Phytophagous insect fauna of Polygonum perfoliatum, an Asiatic weed recently introduced to Pennsylvania  | Annals of the Entomological Society of America 77:197-202   | mile-a-minute weed  |   |
| White, David J., Erich Haber and Cathy Keddy                               | 1993 | Invasive Plants of Natural Habitats in Canada: An Integrated Review of Wetland and Upland Species and Legislation Governing their Control  | Canadian Wildlife Service, Environment Canada, Ottawa, Ontario, Canada, Publication No. CW-66-127/1993E   | Various   |   |
| Wilcox, D.A., S.I. Apfelbaum, and R. Hiebert                               | 1984 | Cattail invasion of sedge meadows following hydrologic disturbance in the Cowles Bog Wetland Complex, Indiana Dunes National Lakeshore.  | Journal of the Society of Wetlands Scientists 4:115-128.  | hybrid cattail  |   |
| Willis, S.G. and P.E. Hulme  | 2002 | Does temperature limit the invasion of Impatiens glandulifera and Heracleum mantegassianum in the UK?  | Functional Ecology 16: 530-539  | giant hogweed   |   |
| Winter, K. M.R. Schmitt and G.E. Edwards                                   | 1982 | Microstegium vimineum, a shade adapted C4 grass  | Plant Science Letters 24: 311-318   | Japanese stiltgrass   |   |
| Wu, Y., R.C. Reardon and D. Jian-qing                                      | 2002 | Mile-A-Minute Weed. In: Van Driesche, R., B. Blossey, M. Hoddle, S. Lyon and R. Reardon, eds., Biological Control of Invasive Plants in the Eastern United States. FHTET-2002-04 | USDA Forest Service   | mile-a-minute weed  |   |
| Zampella, R.A. and K.J. Laidig   | 1997 | Effect of watershed disturbances on Pinelands stream vegetation  | Journal of the Torrey Botanical Society 124(1): 52-66   | Japanese stiltgrass   |   |
| Zouhar, Kristin, Smith, Jane Kapler, Sutherland, Steve, Brooks, Matthew L. | 2008 | Wildland fire in ecosystems: fire and nonnative invasive plants Gen. Tech. Rep. RMRS-GTR-42-vol. 6   | U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 355 p.   | Various   |   |
| Zouhar, K.   | 2009 | Fire Effects Information System  | U.S. Department of Agriculture, Forest Service  | Canada thistle, field bindweed  |   |
| INVASIVE PLANT SPREAD (primarily websites)                                 |      |  |   |   |   |
| Author(s)  | Year | Title  | Source  | Species   | Verification Date (if applicable)   |
| Barney, J.N. and A. DiTommaso  | 2002 | The biology of Canadian weeds. 118. Artemisia vulgaris L.  | <a href="https://weedecology.css.cornell.edu/pubs/Artemisia%20CanJPLSci.%20article.pdf">https://weedecology.css.cornell.edu/pubs/Artemisia%20CanJPLSci.%20article.pdf</a>   | mugwort   | Verified January 19, 2022, redirects January 2, 2024 to "Weed Science"  |
| British Columbia Ministry of Agriculture                                   | 2021 | Noxious Weeds and Other Selected Invasive Plants   | <a href="https://bcinvasives.ca/wp-content/uploads/2021/02/Field_guide_to_Noxious_Weeds_11th_2021.pdf">https://bcinvasives.ca/wp-content/uploads/2021/02/Field_guide_to_Noxious_Weeds_11th_2021.pdf</a>                                     | Various   | Last verified January 2, 2024   |
| Canadian Food Inspection Agency  | 2021 | Invasive Alien Plants in Canada  | <a href="http://www.inspection.gc.ca/plants/plant-protection/invasive-plants/fact-sheet/eng/1331614724083/1331614823132">http://www.inspection.gc.ca/plants/plant-protection/invasive-plants/fact-sheet/eng/1331614724083/1331614823132</a> | Various   | Last verified January 2, 2024   |
| Catling, P.M.  | 2005 | New "Top of the list" invasive plants of natural habitats in Canada  | <a href="http://www.ou.edu/cas/botany-micro/ben/ben345.html">http://www.ou.edu/cas/botany-micro/ben/ben345.html</a>   | common reed, sea buckthorn, knapweed, European lake sedge, Autumn olive | Last verified January 2, 2024   |
| Central Lake Ontario Conservation Authority                                | 2022 | Updated: Invasive Species Management Strategy (2017-2027)  | <a href="https://www.cloca.com/action-plans">https://www.cloca.com/action-plans</a>   | Various   | Verified January 4, 2023; redirects to "Library" January 2, 2024  |

Invasive Exotic Plant Species Ranking for Southern Ontario

|  |       |  |   |                       |  |
|--|-------|--|---|-----------------------|--|
| Cymbaly, Lauren  | 2007  | Invasive Alien Species found in the Carolinian Zone - Inventory and Management Options | <a href="https://caroliniancanada.ca/legacy/Documents/student_assistantship_program/Reports/Invasive%20Alien%20Species%20Found%20in%20Carolinian%20Zone.pdf">https://caroliniancanada.ca/legacy/Documents/student_assistantship_program/Reports/Invasive%20Alien%20Species%20Found%20in%20Carolinian%20Zone.pdf</a> | Various               | Verified January 4, 2023, broken January 2, 2024       |
| Early Detection and Distribution Maps  | 2024* | Early Detection and Distribution Mapping System  | <a href="http://www.eddmaps.org/">http://www.eddmaps.org/</a>   | Various               | Last verified January 2, 2024                          |
| Environment Canada, Canadian Wildlife Service  | 2011  | Invasive Plants of Natural Habitats in Canada  | <a href="https://cvc.ca/wp-content/uploads/2011/03/invasives.pdf">https://cvc.ca/wp-content/uploads/2011/03/invasives.pdf</a>   | Various               | Last verified January 2, 2024                          |
| Encyclopedia of Life   | 2024* | Global access to knowledge about life on Earth   | <a href="https://eol.org/">https://eol.org/</a>   | Various               | Last verified January 2, 2024                          |
| eFloras  | 2024* | eFloras: Flora of North America  | <a href="http://www.efloras.org/">http://www.efloras.org/</a>   | Various               | Last verified January 2, 2024                          |
| European and Mediterranean Plant Protection Organization Reporting Service - Invasive Plants | 2024  | EPPO Reporting Service - Invasive Plants   | <a href="http://www.eppo.int/INVASIVE_PLANTS/ias_plants.htm?utm_source=www.eppo.org&amp;utm_medium=int_redirected">http://www.eppo.int/INVASIVE_PLANTS/ias_plants.htm?utm_source=www.eppo.org&amp;utm_medium=int_redirected</a>   | Various               | Last verified January 2, 2024                          |
| Forest Park Ivy Removal Project  | 2018  | Alien Invaders   | <a href="http://www.portlandoregon.gov/parks/47820">http://www.portlandoregon.gov/parks/47820</a>   | Various               | Last verified January 19, 2022, broken January 4, 2023 |
| Global Biodiversity Information Facility   | 2019  | Global Biodiversity Information Facility Database                                      | <a href="http://www.gbif.org/">http://www.gbif.org/</a>   | Various               | Last verified January 2, 2024                          |
| Guiry, Michael D.  | 2019  | Algaebase  | <a href="http://www.algaebase.org">http://www.algaebase.org</a>   | Various               | Last verified January 2, 2024                          |
| Hilty, John  | 2019  | WeedyWildflowers of Illinois   | <a href="http://www.illinoiswildflowers.info/weeds/weed_index.htm#mk_strawberry">http://www.illinoiswildflowers.info/weeds/weed_index.htm#mk_strawberry</a>   | Various               | Last verified January 2, 2024                          |
| Illinois Department of Natural Resources   | 2023* | Illinois Invasive Species  | <a href="http://www.dnr.illinois.gov/programs/Pages/InvasiveSpeciesCouncil.aspx">http://www.dnr.illinois.gov/programs/Pages/InvasiveSpeciesCouncil.aspx</a>   | Various               | Last verified January 4, 2023, broken January 2, 2024  |
| Integrated Taxonomic Information System  | 2023* | Integrated Taxonomic Information System  | <a href="http://www.itis.gov/index.html">http://www.itis.gov/index.html</a>   | Various               | Last verified January 2, 2024                          |
| Invasive Species Council of British Columbia   | 2023* | Invasive Species Council of British Columbia   | <a href="http://bcinvasives.ca/">http://bcinvasives.ca/</a>   | Various               | Last verified January 2, 2024                          |
| Invasive Plant Council of New England  | 2023* | Invasive Plant Atlas of New England (IPANE)  | <a href="https://www.invasive.org/weedcd/html/ipane.htm">https://www.invasive.org/weedcd/html/ipane.htm</a>   | Various               | Last verified January 2, 2024                          |
| IUCN Species Survival Commission Invasive Species Specialist Group                           | 2019* | Global Invasive Species Database   | <a href="http://www.issg.org/database/welcome/">http://www.issg.org/database/welcome/</a>   | Various               | Last verified January 19, 2022, broken January 4, 2023 |
| Invasive Species Council of Manitoba   | 2024  | Invasive Species Council of Manitoba: Terrestrial Species                              | <a href="http://invasivespeciesmanitoba.com/site/index.php">http://invasivespeciesmanitoba.com/site/index.php</a>   | Various               | Last verified January 2, 2024                          |
| National Invasive Species Council  | 2024  | National Invasive Species Council  | <a href="http://www.invasivespecies.gov/">http://www.invasivespecies.gov/</a>   | Various               | Last verified January 2, 2024                          |
| Natural Areas Association  | 2023  | Invasive and Exotic Species Compendium 1982-2002                                       | <a href="https://www.naturalareas.org/invasive_and_exotic_species_co.php">https://www.naturalareas.org/invasive_and_exotic_species_co.php</a>   | Various               | Last verified January 2, 2024                          |
| Nature Conservancy's Global Invasive Species Team  | 2012  | Invasipedia  | <a href="http://wiki.bugwood.org/Invasipedia">http://wiki.bugwood.org/Invasipedia</a>   | Various               | Last verified January 2, 2024                          |
| New York Invasive Species  | 2024  | New York Invasive Species Clearinghouse  | <a href="http://www.nyis.info">http://www.nyis.info</a>   | Various               | Last verified January 2, 2024                          |
| Northeast Aquatic Nuisance Species Panel   | 2018  | Online Guide to Aquatic Invasive Species in Northeastern North America                 | <a href="http://www.northeastans.org/online-guide/">http://www.northeastans.org/online-guide/</a>   | Various               | Last verified January 2, 2024                          |
| Ontario Federation of Anglers and Hunters  | 2022  | Ontario's Invading Species Awareness Program   | <a href="http://invadingspecies.com/">http://invadingspecies.com/</a>   | Various               | Last verified January 2, 2024                          |
| Ontario Invasive Plants Council  | 2022  | Ontario Invasive Plants  | <a href="http://www.ontarioinvasiveplants.ca/">http://www.ontarioinvasiveplants.ca/</a>   | Various               | Last verified January 2, 2024                          |
| Ontario Ministry of Agriculture, Food and Rural Affairs                                      | 2022  | Cover Crop Seed Suppliers  | <a href="http://www.omafra.gov.on.ca/english/crops/resource/covercrp.htm">http://www.omafra.gov.on.ca/english/crops/resource/covercrp.htm</a>   | Various               | Last verified January 2, 2024                          |
| Ontario Ministry of Natural Resources  | 2023  | Natural Heritage Information Centre  | <a href="https://www.ontario.ca/page/natural-heritage-information-centre">https://www.ontario.ca/page/natural-heritage-information-centre</a>   | Various               | Last verified January 2, 2024                          |
| Quebec, Développement Durable, Environnement et Parcs  | 2023  | Québec Interdepartmental Committee on Invasive Species                                 | <a href="http://www.mddep.gouv.qc.ca/">http://www.mddep.gouv.qc.ca/</a>   | Various               | Last verified January 2, 2024                          |
| Royal Horticultural Society  | 2020  | Anemone ranunculoides  | <a href="https://www.rhs.org.uk/Plants/1256/Anemone-ranunculoides/Details">https://www.rhs.org.uk/Plants/1256/Anemone-ranunculoides/Details</a>   | Anemone ranunculoides | Last verified January 2, 2024                          |

| Sarver, Matthew and Treher, Amanda, Wilson, Lenny, Naczi, Robert, and Faith B. Kuehn                      | 2008  | Mistaken Identity? Invasive Plants and their Native Look-alikes and Identification Guide for the Mid-Atlantic | <a href="http://www.nybg.org/files/scientists/rnaczi/Mistaken_Identity_Final.pdf">http://www.nybg.org/files/scientists/rnaczi/Mistaken_Identity_Final.pdf</a>         | Various                    | Last verified January 2, 2024                          |
|---|-------|---|---|----------------------------|--|
| Scher, J., Walters, D.S., and Redford, A.J.   | 2015  | Federal Noxious Weed Disseminules of the U.S.   | <a href="http://idtools.org/id/fnw/index.php">http://idtools.org/id/fnw/index.php</a>   | Various                    | Last verified January 2, 2024                          |
| Schmidt, J.   | 2024  | BoDD (Botanical Dermatology Database)   | <a href="http://www.botanical-dermatology-database.info/index.html">http://www.botanical-dermatology-database.info/index.html</a>                                     | Various                    | Last verified January 2, 2024                          |
| Southeast Exotic Pest Plant Council   | 2019  | Invasive Plants of the Southeast  | <a href="https://www.se-eppc.org/">https://www.se-eppc.org/</a>   | Chinese yam                | Last verified January 2, 2024                          |
| Swearingen, Jil, Slattery, Britt, Reshetiloff, Kathryn and Susan Zwicker                                  | 2014  | Plant Invaders of Mid-Atlantic Natural Areas  | <a href="http://www.maipc.org/PlantInvadersMidAtlanticNaturalAreas5thEdition.pdf">http://www.maipc.org/PlantInvadersMidAtlanticNaturalAreas5thEdition.pdf</a>         | Various                    | Last verified January 4, 2023, broken January 2, 2024  |
| United States Department of Agriculture, Agricultural Research Service                                    | 2020  | Germplasm Resources Information Network   | <a href="https://www.ars-grin.gov/">https://www.ars-grin.gov/</a>   | Various                    | Last verified January 2, 2024                          |
| United States Department of Agriculture   | 2020* | National Invasive Species Information Center  | <a href="http://www.invasivespeciesinfo.gov/">http://www.invasivespeciesinfo.gov/</a>   | Various                    | Last verified January 19, 2022, broken January 4, 2023 |
| United States Department of Agriculture, Natural Resources Conservation Service                           | 2023  | Plants Database   | <a href="https://plants.sc.egov.usda.gov/java/">https://plants.sc.egov.usda.gov/java/</a>   | Various                    | Last verified January 2, 2024                          |
| United States Department of Agriculture, Forest Service   | 2023  | Fire Effects Information System   | <a href="https://www.feis-crs.org/feis/">https://www.feis-crs.org/feis/</a>   | Various                    | Last verified January 2, 2024                          |
| University of Alaska Anchorage  | 2019  | Alaska Center for Conservation Science  | <a href="http://aknhp.uaa.alaska.edu/botany/akepic/non-native-plants-alaska/">http://aknhp.uaa.alaska.edu/botany/akepic/non-native-plants-alaska/</a>                 | Various                    | Last verified January 4, 2023; broken January 2, 2024  |
| University of Georgia Center for Invasive Species and Ecosystem Health and the National Park Service      | 2018  | Invasive Plant Atlas of the United States   | <a href="http://www.invasiveplantatlas.org">http://www.invasiveplantatlas.org</a>   | Various                    | Last verified January 2, 2024                          |
| University of Georgia Center for Invasive Species and Ecosystem Health and the Warnell School of Forestry | 2011  | Invasive and Exotic Species of North America  | <a href="http://www.invasive.org">http://www.invasive.org</a>   | Various                    | Last verified January 2, 2024                          |
| Van Clef, Michael   | 2011  | Global Invasive Species Database  | <a href="http://www.iucngisd.org/gisd/species.php?sc=582">http://www.iucngisd.org/gisd/species.php?sc=582</a>   | Various                    | Last verified January 2, 2024                          |
| Weeds Canada  | 2024  | Weeds Canada  | <a href="http://weedscanada.ca/">http://weedscanada.ca/</a>   | Various                    | Last verified January 2, 2024                          |
| Zipcode Zoo   | 2012* | Zipcode Zoo.com   | <a href="http://zipcodezoo.com">http://zipcodezoo.com</a>   | Various                    | No longer available. Last verified February 16, 2018   |
| POISONOUS PLANTS  |       |   |   |                            |  |
| Author(s)   | Year  | Title   | Source  | Species                    | Verification Date (if applicable)                      |
| Invasive Species Research Institute   | 2011  | Invasive Plants Poisonous to the Touch in Ontario   | Invasive Species Research Institute   | Various                    |  |
| Mark, K.A., Brancaccio, R.R., Soter, N.A., & Cohen, D.E.  | 1999  | Allergic Contact and Photoallergic Contact Dermatitis to Plant and Pesticide Allergens                        | Archives of Dermatology 135(1):67-70.   | tansy                      |  |
| North Carolina Health   | 2023  | Potentially poisonous wild plants in North Carolina   | <a href="http://www.northcarolinahealth.com/poisonous-wild-plants-north-carolina.php">http://www.northcarolinahealth.com/poisonous-wild-plants-north-carolina.php</a> | English ivy, giant hogweed | Last verified January 2, 2024                          |
| Schmidt, R.J.   | 2018  | Botanical Dermatological Database   | <a href="http://www.botanical-dermatology-database.info/BotDermFolder/UMBE-6.html">http://www.botanical-dermatology-database.info/BotDermFolder/UMBE-6.html</a>       | Various                    | Last verified January 2, 2024                          |



## List of Other Invasive Species Lists Consulted

*Note that some jurisdictions combine their Noxious and Invasive weed lists and some jurisdictions do not have an invasive plant list.*

|  |  |   |   |
|--|--|---|---|
| CBCN = Canadian Botanical Conservation Network   | Invasive Plant Lists - Herbs   | <a href="http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_herb1.html">http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_herb1.html</a>   | Verified July 10, 2021; redirects to blog January 2, 2024                                 |
| CBCN = Canadian Botanical Conservation Network   | Invasive Plant Lists - Shrubs and Vines                                  | <a href="http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_shrub.html">http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_shrub.html</a>   | Verified July 15, 2021; redirects to blog January 2, 2024                                 |
| CBCN = Canadian Botanical Conservation Network   | Invasive Plant Lists - Trees   | <a href="http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_tree1.html">http://www.rbg.ca/archive/cbcn/en/projects/invasives/i_tree1.html</a>   | Verified July 15, 2021; redirects to blog January 2, 2024                                 |
| CT = Connecticut Invasive Plant Working Group  | Connecticut Invasive Plant List  | <a href="https://cipwg.uconn.edu/invasive_plant_list/">https://cipwg.uconn.edu/invasive_plant_list/</a>   | Verified April 4, 2024  |
| CFIA = Canadian Food Inspection Agency   | CFIA   | <a href="https://inspection.canada.ca/plant-health/invasive-species/invasive-plants/invasive-plants/eng/1331614724083/1331614823132">https://inspection.canada.ca/plant-health/invasive-species/invasive-plants/invasive-plants/eng/1331614724083/1331614823132</a>                                   | Verified April 4, 2024  |
| CVCA = Credit Valley Conservation Authority  | CVC Priority Invasive Plants   | <a href="https://cvc.ca/wp-content/uploads/2011/07/11-150-priorityinvasives-11-list-web.pdf">https://cvc.ca/wp-content/uploads/2011/07/11-150-priorityinvasives-11-list-web.pdf</a>   | Verified April 4, 2024  |
| CWS = Canadian Wildlife Service (also Environment Canada)  | Invasive Plants of Natural Habitats in Canada                            | <a href="http://www.collectionscanada.gc.ca/eppp-archive/100/200/301/environment_can/cws-scf/occasional_paper-e/110/html/publications/inv/cont_e.cfm">http://www.collectionscanada.gc.ca/eppp-archive/100/200/301/environment_can/cws-scf/occasional_paper-e/110/html/publications/inv/cont_e.cfm</a> | Verified January 4, 2023; broken link January 2, 2024                                     |
| IN = Indiana Department of Natural Resources   | Invasive Exotic Plants in Indiana  | <a href="https://www.in.gov/dnr/rules-and-regulations/invasive-species/terrestrial-invasive-species-plants/">https://www.in.gov/dnr/rules-and-regulations/invasive-species/terrestrial-invasive-species-plants/</a>   | Verified April 4, 2024  |
| IN = Indiana Invasive Species Council  | Official IISC Invasive Plant List  | <a href="https://www.entm.purdue.edu/iisc/invasiveplants.html">https://www.entm.purdue.edu/iisc/invasiveplants.html</a>   | Verified April 4, 2024  |
| ISRI = Invasive Species Research Institute (P. Antunes)  | IAS Plant List   | IAS_PLANT_LIST PREPARED BY ISRI.xlsx  | No longer available online, last verified March 2016 (July 15, 2021: still not available) |
| MA = Massachusetts Department of Fisheries and Wildlife and Massachusetts Invasive Plant Advisory Group                              | The Massachusetts Prohibited Plant List                                  | <a href="https://www.mass.gov/files/documents/2017/11/15/prohibited_plant_list_sciname_0.pdf">https://www.mass.gov/files/documents/2017/11/15/prohibited_plant_list_sciname_0.pdf</a>   | Not available online since July 15, 2021  |
| MA = Massachusetts Invasive Plant Advisory Group   | Evaluation of Non-native Plant Species for Invasiveness in Massachusetts | <a href="https://www.mass.gov/files/documents/2016/08/tm/invasive-plant-list.pdf">https://www.mass.gov/files/documents/2016/08/tm/invasive-plant-list.pdf</a>   | Verified April 4, 2024  |
| MB = Invasive Species Council of Manitoba  | Aquatic Species  | <a href="http://invasivespeciesmanitoba.com/site/index.php?page=aquatic-species">http://invasivespeciesmanitoba.com/site/index.php?page=aquatic-species</a>   | Verified April 4, 2024  |
| MB = Invasive Species Council of Manitoba  | Terrestrial Species  | <a href="http://invasivespeciesmanitoba.com/site/index.php?page=terrestrial-species">http://invasivespeciesmanitoba.com/site/index.php?page=terrestrial-species</a>   | Verified April 4, 2024  |
| MI = Michigan Department of Agriculture and Rural Development  | Prohibited and Restricted Weeds  | <a href="https://www.michigan.gov/documents/mdard/Michigan_Prohibited_and_Restricted_Weeds_641413_7.pdf">https://www.michigan.gov/documents/mdard/Michigan_Prohibited_and_Restricted_Weeds_641413_7.pdf</a>   | Verified April 4, 2024  |
| MI = State of Michigan (Multiple Areas)  | Michigan Invasive Species Watch List                                     | <a href="https://www.michigan.gov/invasives/0,5664,7-324-68002_74188---00.html">https://www.michigan.gov/invasives/0,5664,7-324-68002_74188---00.html</a>   | Verified April 4, 2024  |
| MN = Minnesota Department of Agriculture   | Minnesota Noxious Weeds  | <a href="https://www.mda.state.mn.us/plants-insects/minnesota-noxious-weed-list">https://www.mda.state.mn.us/plants-insects/minnesota-noxious-weed-list</a>   | Verified April 4, 2024; Prohibited species are listed                                     |
| NH = New Hampshire Department of Agriculture, Markets and Food, Plant Industry Division and New Hampshire Invasive Species Committee | New Hampshire Prohibited Invasive Plant Species                          | <a href="https://www.agriculture.nh.gov/publications-forms/documents/prohibited-invasive-species.pdf">https://www.agriculture.nh.gov/publications-forms/documents/prohibited-invasive-species.pdf</a>   | Verified April 4, 2024  |
| NJ = New Jersey Department of Environmental Protection   | An Overview of Nonindigenous Plant Species in New Jersey                 | <a href="https://www.nj.gov/dep/parksandforests/natural/docs/invasivereport.pdf">https://www.nj.gov/dep/parksandforests/natural/docs/invasivereport.pdf</a>   | Verified April 4, 2024  |
| NY = New York State Department of Environmental Conservation   | Interim List of invasive Plant Species                                   | <a href="http://www.dec.ny.gov/docs/lands_forests_pdf/isprohibitedplants2.pdf">http://www.dec.ny.gov/docs/lands_forests_pdf/isprohibitedplants2.pdf</a>   | Verified April 4, 2024  |
| OH = Ohio Department of Natural Resources and The Nature Conservancy   | Ohio Invasive Plant Species  | <a href="https://agri.ohio.gov/divisions/plant-health/invasive-pests/invasive-and-noxious-plants/invasive-plants">https://agri.ohio.gov/divisions/plant-health/invasive-pests/invasive-and-noxious-plants/invasive-plants</a>   | Verified April 4, 2024  |
| PA = Pennsylvania Department of Conservation and Natural Resources   | Invasive Exotic Plants in Pennsylvania                                   | <a href="http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr_20026634.pdf">http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr_20026634.pdf</a>   | Verified January 4, 2023; broken link January 2, 2024                                     |
| TRCA = Toronto and Region Conservation Authority   | Invasive Plant List  | <a href="http://www.trca.on.ca/dotAsset/36890.pdf">http://www.trca.on.ca/dotAsset/36890.pdf</a>   | Verified January 19, 2022, broken link January 4, 2023                                    |
| VT = Vermont Department of Agriculture, Food, and Markets  | Vermont Noxious Weeds  | <a href="https://agriculture.vermont.gov/public-health-agricultural-resource-management-divisio">https://agriculture.vermont.gov/public-health-agricultural-resource-management-divisio</a>   | Verified April 4, 2024  |
| WI = Wisconsin Department of Natural Resources   | Chapter NR 40 Regulated Plants   | <a href="https://dnr.wisconsin.gov/topic/Invasives/RegulatedSpecies">https://dnr.wisconsin.gov/topic/Invasives/RegulatedSpecies</a>   | Verified April 4, 2024  |