

Appendix 2  
Invasive Species List (by vegetation type)

The objective of the following list is to act as a guide for projects requiring landscaping. Each of the following species (organized by vegetation type) are not native to the Halton Region and have been designated a code for invasiveness (see legend below). Suitable locations for non-native species are dependent on their invasive coding. For some of the species contained within this list a native alternative has been provided. Please review the list of species native to Halton Region for additional alternatives.

Botanical Name	Common Name	Veg. Type	See invasive location coding legend below			Effect on Habitat	Native Alternative
			Invasiveness	Method of Propagation	Suitable Location		
<b>Aquatic Vegetation</b>							
<i>Cabomba caroliniana</i>	Fanwort	Aquatic	5	Vegetative	> 50M Away From Any Natural Area	Invades Open Waters	<i>Utricularia vulgaris</i>
<i>Egeria densa</i>	Water Weed	Aquatic	5	Vegetative	> 50M Away From Any Natural Area	Invades Open Waters	<i>Utricularia vulgaris</i>
<i>Hydrilla verticillata</i>	Hydrilla	Aquatic	5	Vegetative	> 50M Away From Any Natural Area	Invades Open Waters	<i>Elodea canadensis</i>
<i>Hydrocharis morsus-ranae</i>	European Frog-Bit	Aquatic	1	Vegetative	Not Anywhere	Dominates Open Water	<i>Nymphaea odorata</i>
<i>Isoetes tinctoria</i>	Quillwort	Aquatic	5	Spore	> 50M Away From Any Natural Area		
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil	Aquatic	1	Seed, Vegetative	Not Anywhere	Dominates Open Water	<i>Myriophyllum sibiricum</i>
<i>Najas minor</i>	Minor Naiad	Aquatic	5	Seed	> 50M Away From Any Natural Area		
<i>Nasturtium microphyllum</i>	Water Cress	Aquatic	5	Seed	> 50M Away From Any Natural Area		
<i>Nymphoides peltatum</i>	Floating Heart	Aquatic	1	Seed	Not Anywhere	Dominates Open Water Habitats	
<i>Potamogeton crispus</i>	Curly Pondweed	Aquatic	1	Seed	Not Anywhere	Dominates Open Water Habitats	
<i>Rorippa amphibia</i>	Marsh Cress	Aquatic	3	Vegetative	> 50M Away From Any Natural Area + Physical Barrier		<i>Rorippa palustris</i>
<i>Typha angustifolia</i>	Narrow-Leaved Cattail	Aquatic	5	Vegetative	> 50M Away From Any Natural Area		<i>Typha latifolia</i>
<i>Typha x glauca</i>	Hybrid Cattail	Aquatic	5	Vegetative	> 50M Away From Any Natural Area		<i>Typha latifolia</i>
<b>Herbaceous Vegetation - Forbs/Herbs</b>							
<i>Acinosa arvensis</i>	Spring Savory	Herbaceous	3	Seed	Not Anywhere	Invades Alvars	
<i>Ajuga reptans</i>	Creeping Bugleweed	Herbaceous	4	Vegetative	> 50M Away From Any Natural Area	Persists In Forest Understorey And Edges	<i>Arctostaphylos uva-ursi</i>

Botanical Name	Common Name	Veg. Type	See invasive location coding legend below			Effect on Habitat	Native Alternative
			Invasiveness	Method of Propagation	Suitable Location		
<i>Artemisia absinthium</i>	Absinth	Herbaceous	3	Seed	Not Anywhere	Invades Meadows	
<i>Artemisia vulgaris</i>	Common Mugwort	Herbaceous	5	Vegetative	> 50M Away From Any Natural Area		
<i>Berteroa incana</i>	Hoary Alyssum	Herbaceous	3	Seed	Not Anywhere	Invades Prairies	<i>Epilobium ciliatum</i>
<i>Campanula rapunculoides</i>	Creeping Bellflower	Herbaceous	4	Seed, Vegetative	> 50M Away From Any Natural Area	Invades Forest Edges And Meadows	<i>Campanula rotundifolia</i>
<i>Convallaria majalis</i>	Lily-Of-The-Valley	Herbaceous	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Invades Forest Understorey	<i>Maianthemum canadensis</i>
<i>Convolvulus arvensis</i>	Field Bindweed	Herbaceous	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Climbs On Vegetation And Smothers Them	
<i>Euphorbia esula</i>	Leafy Spurge	Herbaceous	4	Vegetative	> 50M Away From Any Natural Area	Can Dominate Prairies	
<i>Glechoma hederacea</i>	Ground-Ivy	Herbaceous	4	Seed	> 50M Away From Any Natural Area	Competes With Meadow And Prairies Species	<i>Physostegia virginiana</i>
<i>Hemerocallis fulva</i>	Orange Day-Lily	Herbaceous	4	Vegetative	> 50M Away From Any Natural Area	Dominate Meadows	<i>Erythronium americanum</i>
<i>Hesperis matronalis</i>	Dame's-Rocket	Herbaceous	1	Seed	Not Anywhere	Dominates Open Forest Understorey And Meadows	<i>Phlox divaricata</i>
<i>Hieracium aurantiacum</i>	Orange Hawkweed	Herbaceous	3	Seed, Vegetative	Not Anywhere	Invades Meadows	<i>Hieracium scabrum</i>
<i>Hieracium caespitosum</i>	Yellow Hawkweed	Herbaceous	3	Seed, Vegetative	Not Anywhere	Invades Meadows	<i>Hieracium scabrum</i>
<i>Hieracium vulgatum</i>	Common Hawkweed	Herbaceous	3	Seed, Vegetative	Not Anywhere	Invades Meadows	<i>Hieracium scabrum</i>
<i>Humulus lupulus</i>	Common Hop	Herbaceous	5	Seed, Vegetative	>50M Away From Any Natural Area		
<i>Hypericum perforatum</i>	Common St. John's-Wort	Herbaceous	4	Seed, Vegetative	>50M Away From Any Natural Area		
<i>Impatiens glandulifera</i>	Himalayan Balsam	Herbaceous	1	Seed	Not Anywhere	Dominate Forests And Wet Meadows	<i>Impatiens capensis</i>
<i>Inula helenium</i>	Elecampane	Herbaceous	4	Seed, Vegetative	>50M Away From Any Natural Area	Invades Meadows	
<i>Iris pseudacorus</i>	Yellow Flag	Herbaceous	4	Vegetative	>50M Away From Any Natural Area	Invades Wetlands	<i>Iris versicolor</i>
<i>Lapsana communis</i>	Nipplewort	Herbaceous	5	Seed	>50M Away From Any Natural Area		
<i>Lythrum salicaria</i>	Purple Loosestrife	Herbaceous	1	Seed	Not Anywhere	Dominate Wetlands	<i>Ludwigia palustris</i>
<i>Malva moschata</i>	Musk Mallow	Herbaceous	4	Seed	>50M Away From Any Natural Area	Invades Meadows	

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			Invasiveness	Method of Propagation	Suitable Location		
<i>Medicago lupulina</i>	Black Medic	Herbaceous	4	Vegetative	>50M Away From Any Natural Area	Invades Meadows	
<i>Medicago sativa</i>	Alfalfa	Herbaceous	4	Seed	>50M Away From Any Natural Area	Invades Meadows And Prairies	
<i>Mentha piperita</i>	Peppermint	Herbaceous	4	Vegetative	>50M Away From Any Natural Area	Invades Meadows	<i>Mentha arvensis</i>
<i>Myosotis scorpioides</i>	True Forget-Me-Not	Herbaceous	4	Vegetative	>50M Away From Any Natural Area	Dominates Shaded Seepage Areas	<i>Impatiens capensis</i>
<i>Myosotis sylvatica</i>	Forget-Me-Not	Herbaceous	4	Seed	>50M Away From Any Natural Area	Persists in forest edges and understory, meadows	
<i>Nepeta cataria</i>	Catnip	Herbaceous	4	Seed	>50M Away From Any Natural Area	Invades Meadows	
<i>Origanum vulgare</i>	Oregano	Herbaceous	4	Seed	>50M Away From Any Natural Area	Invades Disturbed Meadows	
<i>Pachysandra terminalis</i>	Japanese Spurge	Herbaceous	4	Seed	>50M Away From Any Natural Area	Persists In Forest Understorey And Edges	
<i>Polygonum cuspidatum</i>	Japanese Knotweed	Herbaceous	2	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Wet Meadows And Moist Forests	<i>Apocynum androsaemifolium</i>
<i>Primula veris</i>	European Cowslip	Herbaceous	5	Seed	>50M Away From Any Natural Area		
<i>Ranunculus repens</i>	Creeping Buttercup	Herbaceous	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Invades Meadows	
<i>Rumex acetosella</i>	Sheep Sorrel	Herbaceous	4	Vegetative	>50M Away From Any Natural Area	Invades Meadows	
<i>Saponaria officinalis</i>	Soapwort	Herbaceous	3	Seed	Not Anywhere	Invades Meadows	
<i>Scilla sibirica</i>	Scilla	Herbaceous	2	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Forest Understorey	
<i>Sedum acre</i>	Mossy Stonecrop	Herbaceous	2	Vegetative	Not Anywhere	Invades Alvars	
<i>Tanacetum vulgare</i>	Tansy	Herbaceous	3	Seed, Vegetative	Not Anywhere	Invades Meadows	
<i>Thymus praecox</i>	Creeping Thyme	Herbaceous	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Invades Meadows	
<i>Vinca minor</i>	Periwinkle	Herbaceous	2	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Forest Understorey	<i>Arctostaphylos uva-ursi</i>
<i>Vincetoxicum rossicum</i>	Dog-Strangling Vine	Herbaceous	5	Seed	>50M Away From Any Natural Area		
<i>Viola odorata</i>	Sweet Violet	Herbaceous	5	Seed	>50M Away From Any Natural Area	Difficult To Identify Accurately	<i>Viola fimbriatula</i>
<b>Herbaceous Vegetation - Grasses</b>							
<i>Bromus inermis</i>	Smooth Brome Grass	Grass	4	Seed	>50M Away From Any Natural Area	Resists Conversion To Native Meadow And Prairie	<i>Bromus pubescens</i>

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			Invasiveness	Method of Propagation	Suitable Location		
<i>Butomus umbellatus</i>	Flowering Rush	Grass	1	Vegetative	Not Anywhere	Dominates Open Marsh	<i>Scirpus cyperinus</i>
<i>Dactylis glomerata</i>	Orchard Grass	Grass	3	Seed	Not Anywhere	Invades Meadows And Prairies	<i>Danthonia spicata</i>
<i>Elymus repens</i>	Quack Grass	Grass	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Meadows And Prairies	<i>Elymus hystrix</i>
<i>Festuca arundinacea</i>	Tall Fescue	Grass	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Moist Meadows And Prairies	<i>Festuca obtusa</i>
<i>Glyceria maxima</i>	Rough Manna Grass	Grass	1	Seed	Not Anywhere	Dominates Wet Meadows	<i>Glyceria striata</i>
<i>Miscanthus sinensis</i>	Silver Grass	Grass	3	Seed	Not Anywhere	Dominates Wet Meadows	
<i>Panicum miliaceum</i>	Common Millet	Grass	5	Seed, Vegetative	>50M Away From Any Natural Area		<i>Panicum xanthophysum</i>
<i>Phalaris arundinacea</i>	Reed Canary Grass	Grass	5	Seed	>50M Away From Any Natural Area	Dominates Wetlands	<i>Glyceria striata</i>
<i>Phragmites australis</i>	Common Reed	Grass	1	Seed	Not Anywhere	Dominates Wetlands And Wet Meadows	<i>Typha sp.</i>
<i>Phragmites communis</i>	Giant Reed	Grass	1	Seed	Not Anywhere	Dominates Wetlands And Wet Meadows	
<i>Poa pratensis</i>	Kentucky Blue Grass	Grass	2	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Prairies	<i>Poa compressa</i>
<i>Setaria glauca</i>	Yellow Foxtail	Grass	4	Seed	>50M Away From Any Natural Area	Invades Meadows	<i>Elymus canadensis</i>
<i>Setaria viridis</i>	Green Foxtail	Grass	4	Seed	>50M Away From Any Natural Area	Invades Meadows	<i>Elymus canadensis</i>
<b>Woody Vegetation - Shrubs</b>							
<i>Alnus glutinosa</i>	Black Alder	Shrub	1	Seed	>50M Away From Any Natural Area	Invades Riparian Areas	<i>Alnus incana sp. rugosa</i>
<i>Alnus incana incana</i>	European White Alder	Shrub	5	Seed	>50M Away From Any Natural Area	Invades Riparian Areas	<i>Alnus incana sp. rugosa</i>
<i>Ampelopsis brevipedunculata</i>	Porcelain Berry	Shrub	5	Seed, Vegetative	>50M Away From Any Natural Area		
<i>Berberis thunbergii</i>	Japanese Barberry	Shrub	3	Seed	Not Anywhere	Invades Forests	<i>Crataegus punctata</i>
<i>Berberis vulgaris</i>	Common Barberry	Shrub	3	Seed	Not Anywhere	Invades Forests	<i>Crataegus punctata</i>
<i>Crataegus monogyna</i>	English Hawthorn	Shrub	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier		<i>Crataegus punctata</i>
<i>Daphne mezereum</i>	Mezer's Daphne	Shrub	5	Seed	>50M Away From Any Natural Area	Invades Moist Forests	

Botanical Name	Common Name	Veg. Type	See invasive location coding legend below			Effect on Habitat	Native Alternative
			Invasiveness	Method of Propagation	Suitable Location		
<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	3	Seed, Vegetative	Not Anywhere	Dominates Forest And Shrub Communities	<i>Prunus virginiana</i>
<i>Elaeagnus umbellata</i>	Autumn Olive	Shrub	1	Seed	Not Anywhere	Dominates Forest Edges	<i>Prunus virginiana</i>
<i>Euonymus alatus</i>	Burning Bush	Shrub	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Invades Forest Understorey Shrub Layer	<i>Euonymus atropurpurea</i>
<i>Euonymus europaeus</i>	Spindle-Tree	Shrub	3	Seed, Vegetative	Not Anywhere	Invades Forest Understorey And Edges	
<i>Ligustrum vulgare</i>	Privet	Shrub	4	Seed	>50M Away From Any Natural Area	Invades Forest Edges	<i>Lonicera canadensis</i>
<i>Lonicera maackii</i>	Amur Honeysuckle	Shrub	1	Seed	Not Anywhere	Invades Meadows And Forest Edges	<i>Lonicera dioica</i>
<i>Lonicera morrowi</i>	Morrow's Honeysuckle	Shrub	1	Seed	Not Anywhere	Invades Meadows And Forest Edges	<i>Lonicera hirsuta</i>
<i>Lonicera tatarica</i>	Tatarian Honeysuckle	Shrub	1	Seed	Not Anywhere	Invades Meadows And Forest Edges	<i>Lonicera oblongifolia</i>
<i>Lonicera xylosteum</i>	European Fly Honeysuckle	Shrub	1	Seed	Not Anywhere	Invades Meadows And Forest Edges	<i>Lonicera canadensis</i>
<i>Morus alba</i>	White Mulberry	Shrub	1	Seed	Not Anywhere	Hybridizes With Endangered M. Rubra	
<i>Rhamnus cathartica</i>	Common Buckthorn	Shrub	1	Seed, Vegetative	Not Anywhere		
<i>Rhamnus frangula</i>	Glossy Buckthorn	Shrub	1	Seed, Vegetative	Not Anywhere	Dominates Wetlands	
<i>Rosa multiflora</i>	Multiflora Rose	Shrub	1	Seed	Not Anywhere	Dominates Forest Edges	<i>Rosa blanda</i>
<i>Salix alba</i>	White Willow	Shrub	3	Seed	Not Anywhere	Invades Wetlands	<i>Salix discolor</i>
<i>Salix caprea</i>	Goat Willow	Shrub	4	Seed	>50M Away From Any Natural Area		<i>Salix discolor</i>
<i>Salix fragilis</i>	Crack Willow	Shrub	3	Seed	Not Anywhere	Invades Wetlands	<i>Salix nigra</i>
<i>Salix purpurea</i>	Purple Willow	Shrub	4	Seed	>50M Away From Any Natural Area	Invades Wetlands	<i>Salix lucida</i>
<i>Salix X rubens</i>	Hybrid Willow	Shrub	3	Seed	Not Anywhere	Invades Wetlands	<i>Salix lucida</i>
<i>Sambucus racemosa</i>	European Red Elderberry	Shrub	5	Seed	>50M Away From Any Natural Area	Invades Forests And Wetlands	<i>Sambucus pubens</i>
<i>Solanum dulcamara</i>	Bittersweet	Shrub	3	Seed, Vegetative	Not Anywhere		<i>Parthenocissus inserta</i>
<i>Sorbaria sorbifolia</i>	False Spirea	Shrub	3	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Invades Meadows And Forest Understorey	
<i>Sorbus aucuparia</i>	European Mountain Ash	Shrub	4	Seed	>50M Away From Any Natural Area	Invades Forests	
<i>Symphytum albus var. laevigata</i>	Western Snowberry	Shrub	4	Vegetative	>50M Away From Any Natural Area	Often Substituted For <i>S. albus albus</i>	<i>Symphoricarpos albus var. albus</i>

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			Invasiveness	Method of Propagation	Suitable Location		
<i>Syringa vulgaris</i>	Lilac	Shrub	2	Vegetative	>50M Away From Any Natural Area + Physical Barrier	Dominates Shallow Limestone Areas	<i>Rhus aromatica</i> , <i>Prunus virginiana</i>
<i>Viburnum opulus</i>	Guelder-Rose	Shrub	4	Seed	>50M Away From Any Natural Area	Often Substituted For <i>V. trilobum</i>	<i>Viburnum trilobum</i>
<b>Woody Vegetation - Trees</b>							
<i>Acer ginnala</i>	Amur Maple	Tree	4	Seed, Vegetative	>50M Away From Any Natural Area	Competes With Early Successional Forest Species	<i>Acer spicatum</i>
<i>Acer negundo</i>	Manitoba Maple	Tree	1	Seed, Vegetative	Not Anywhere	Invades All Habitat Types	<i>Acer spicatum</i>
<i>Acer platanoides</i>	Norway Maple	Tree	2	Seed	Not Anywhere	Dominates Forest Canopy	<i>Acer saccharum</i>
<i>Acer pseudoplatanus</i>	Sycamore Maple	Tree	2	Seed	Not Anywhere	Dominates Forest Canopy	<i>Acer saccharum</i>
<i>Aesculus hippocastanum</i>	Horse Chestnut	Tree	3-4	Seed	>50M Away From Any Natural Area	Invades Forests	
<i>Ailanthus altissima</i>	Tree Of Heaven	Tree	2	Seed, Vegetative	Not Anywhere	Dominates Early Successional Forest	<i>Rhus typhina</i>
<i>Betula pendula</i>	European Birch	Tree	2	Seed	Not Anywhere	Dominates Open Wetlands	<i>Betula papyrifera</i>
<i>Fraxinus excelsior</i>	European Ash	Tree	5	Seed	>50M Away From Any Natural Area	Can Reproduce In Shade	<i>Fraxinus americana</i>
<i>Pinus sylvestris</i>	Scots Pine	Tree	2	Seed	Not Anywhere	Invades Meadows	<i>Pinus rubra</i>
<i>Populus alba</i>	White Poplar	Tree	2	Seed	Not Anywhere	Invades Meadows	<i>Populus papyrifera</i>
<i>Populus tremula</i>	European Aspen	Tree	5	Seed	>50M Away From Any Natural Area	Often Substituted For <i>P. tremuloides</i>	<i>Populus tremuloides</i>
<i>Populus x canadensis</i>	Carolina Poplar	Tree	4	Seed	>50M Away From Any Natural Area	Often Substituted For <i>P. deltoides</i>	<i>Populus papyrifera</i>
<i>Prunus avium</i>	Sweet Cherry	Tree	5	Seed	>50M Away From Any Natural Area		<i>Prunus serotina</i>
<i>Prunus mahaleb</i>	Perfumed Cherry	Tree	5	Seed	>50M Away From Any Natural Area		<i>Prunus pensylvanica</i>
<i>Robinia pseudoacacia</i>	Black Locust	Tree	2	Seed	Not Anywhere	Invades Meadows	<i>Tilia americana</i>
<i>Tilia cordata</i>	European Linden	Tree	5	Seed	>50M Away From Any Natural Area		<i>Tilia americana</i>
<i>Ulmus glabra</i>	Scotch Elm	Tree	4	Seed, Vegetative	>50M Away From Any Natural Area	Invades Forest	<i>Ulmus americana</i> / <i>Ulmus rubra</i>
<i>Ulmus pumila</i>	Siberian Elm	Tree	2	Seed	Not Anywhere	Invades Prairies	<i>Ulmus americana</i> / <i>Ulmus rubra</i>

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			Invasiveness	Method of Propagation		
<b>Vines</b>						
<i>Celastrus orbiculatus</i>	Oriental Bittersweet	Vine	2	Seed	Displaces Native <i>C. scandens</i>	
<i>Hedera helix</i>	English Ivy	Vine	3	Vegetative	Invades Forest Understorey	<i>Arctostaphylos uva-ursi</i> , <i>Parthenocissus inserta</i>
<i>Lonicera japonica</i>	Japanese Honeysuckle	Vine	1	Seed	Dominates Forest Understorey	<i>Lonicera canadensis</i>
<i>Pueraria lobata</i>	Kudzu Vine	Vine	1	Seed, Vegetative	Dominates Forest Edges, Meadows, Disturbed Areas	

\*\* based on *Sustainable Biodiversity*: by D. Havinga and the Ontario Invasive Plants Working Group  
 Royer, F and R. Dickinson. 1999. *Weeds of Canada and the Northern United States*. University of Alberta Press. Edmonton.

Invasiveness Legend	
1.	Excludes all other species and dominates sites indefinitely
2.	Highly invasive, dominates niches or does not spread rapidly
3.	Moderately invasive, locally dominant
4.	Competitive once established
5.	Potentially invasive/more information required

Location Coding Legend		
Invasiveness	Propagation Method	Location Code
1	Seed	not anywhere
1	Vegetative	not anywhere
2	Seed	not anywhere
2	Vegetative	>50m away from any natural area + physical barrier
3	Seed	not anywhere
3	Vegetative	>50m away from any natural area + physical barrier
4	Seed	
4	Vegetative	>50m away from any natural area
5	Seed	
5	Vegetative	