



Gardening Wisely

Many gardeners have an appreciation and a passion for nature and wildlife and know the challenge of maintaining a landscape that is weed-free. Invasive plants are very much like weeds they may in fact be called 'super weeds'. They can threaten not just gardens with their aggressively spreading habit, but natural areas and the environment in general. Invasive plants out-compete our native species for space and resources, lack natural predators, grow aggressively and reproduce rapidly. While these traits may be desirable in a garden plant, they can result in less desirable effects when spread to natural areas by humans, wildlife, wind and water.

After direct habitat loss, invasive plants are the greatest threat to our planet's biodiversity. Biodiversity encompasses the abundance and diversity of life on our planet, as well as the processes that bind them together. Biodiversity is also a measure of the health of our environment. Invasive plants may:

- introduce disease and/or hybridize with native plants resulting in genetic contamination and reduced vigour;
- directly replace native species with their rapid growth and spread: and
- diminish wildlife habitat and remove resources (e.g. food) that wildlife depend on.

It is important to conserve our native biodiversity for the resources it provides. These include:

- medicinal resources of which over 50 per cent come from
- a healthy network of natural areas to regulate and provide for clean air and water: and
- timber products supported by healthy forests that create thousands of jobs for Ontarians.

ALTERNATIVE PLANT SELECTION SCORE

Invasive Plants and Gardening

Gardeners may be surprised to learn that many invasive plants have been introduced to our natural areas through the horticultural industry. Invasive plants have flourished in the trade and become very popular because of their desirable characteristics (such as low maintenance and aggressive spread). Not all non-native plants are invasive, but effective action needs to be taken to avoid planting ones that are invasive. Government policy and regulation has not caught up to face this new threat, however, progress is being made. In the interim, responsible gardeners can do their part by voluntarily changing their practices and contributing to a solution.

You can help by choosing suitable alternatives to invasive garden plants to prevent their spread and protect our native biodiversity. On the following pages you will find numerous plants suggested as alternatives to common invasive plants.

Remember, native plants are always the best choice. They are better adapted to local climate and soil conditions and have many more benefits for native wildlife. If your property is adjacent to or contains a natural feature such as a forest, wetland or valley, CVC strongly recommends the use of common native plants only. Common native plants are reguired when CVC issues a permit for approval (for a building permit or development application) within a regulated area. Plants that are non-native and non-invasive provide limited benefits to biodiversity but are included here as an alternative for home gardens.

Native plant: A plant that has existed within a given area/ region prior to European settlement.



★ European beech

Shiny dark green foliage turning red-brown in October. Attractive tree often used in parks or on lawns.

Ht. 3 - 3.5 m Spr. 2 - 2.5 m

AVOID

.. xylosteum

growth behaviour.

Non-native honeysuckles

Lonicera japonica, L. maackii,

L. morrowi. L. tatarica. L. x bella.

Woody shrubs with brittle/weak branches.

species). Spreads primarily through seed

(birds), but also by roots, Flowers irregular,

fused together. Native honevsuckles often

★★★ Red osier dogwood

Deciduous shrub with rounded, spreading

shape. Green foliage and red branches.

Clusters of small white flowers bloom in

May/June. White berries provide food for

wildlife. Beautiful year-round ornamental.

★★ Saskatoon

serviceberrv

Cornus sericea (aka C. stolonifera

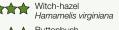
confused with these species. Aggressive

showy and come in a variety of colours. Pro-

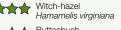
duces fruit consisting of two small, red berries

Bark is light, papery and scraped off easily.

Opposite, lance-shaped leaves (hairy on some







Silver maple
Acer saccharinum



Canada buffaloberry* Shepherdia canadensis

Beautybush
Kolkwitzia amabilis

ALSO CONSIDER

AVOID

TRY INSTEAD

apanese knotweed

Tall herbaceous plant with alternate.

but also by seed. Flowers are small,

Difficult to control once established.

★★★ Joe-pye weed*

Clumping herbaceous perennial. Whorled

leaves, deep red stems, and panicles of

pink flowers. Blooms in August/Septem-

ber. Great border plant for fall flowering.

Tall herbaceous perennial with coarse

leaves that fuse together at the base to

form a "cup" that holds water after a rain.

Yellow flowers bloom in July. Beautiful ad-

★★ Cup plant*

dition to the garden.

tear-drop shaped leaf that has a flattened

bottom. Robust stems look like bamboo

when mature. Spreads primarily by roots,

clusters along the stem. Spreads very rap

green-white and arranged on elongated

idly pushing out other species of plants.



AVOID

TRY INSTEAD





Himalayan balsam

Tall (1 to 2 m) herbaceous plant with fleshy pink-reddish stems and a lanceshaped alternating leaf with saw-tooth like edges. Spreads primarily by seed and has irregular cone-shaped pink flowers. Vigorous and dense growth that crowds out other plants. A major threat to wetlands.

★★★ New England aster

Upright herbaceous perennial. Produces

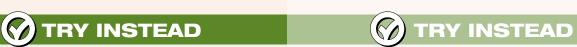
numerous purple flowers with yellow

Beautiful addition to the garden.

centers. Blooms in August/September

Symphyotrichum novae-analiae

(aka Aster novae-angliae)





★★★ Freeman's maple Acer x freemanii

AVOID

Norway maple

Difficult to distinguish from native sugar

maple. Leaves are opposite and five-

lobed, often with a slight purple tinge,

and often affected by black spot fungus.

Milky sap exudes from leaf stem if picked

and squeezed. Spreads by seed. Creates

dense, shaded conditions that eliminate

BEWARE: Many cultivars sold under

queen, columnar, etc.

names such as crimson king, emerald

Fast-growing, deciduous tree with ascending branching and a dense, broadoval crown. Excellent shade tree. Beautiful fall colour. Often sold as autumn blaze



★★ Hackberry Celtis occidentalis

Fast-growing deciduous tree with spreading round canopy. Leaves turn yellow in Tolerates most soils. Used as a street tree, shade tree or windbreak. Berries are an excellent food source for wildlife.





Deciduous tree with a pyramidal shape.



★ Silver buffaloberry Shepherdia argentea

Upright deciduous shrub. Foliage turns

yellow in fall. Fragrant, white flowers bloom

in May. Purple fruit in July is a food source

Large, multi-stemmed deciduous shrub with rounded shape. Silver foliage and contrasting red fruit that attracts wildlife. An effective contrast or hedge plant.



Green panda bamboo Farqesia rufa

Non-invasive clumping bamboo. Very vigorous and cold hardy. Makes an attractive evergreen specimen or hedge when





★★ Butterfly weed Asclepius tuberosa `



Herbaceous ascending perennial with bright orange flowers blooming in July/ August. Drought tolerant. Essential component to any butterfly garden.

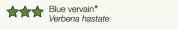






Herbaceous perennial with clusters of scarlet, tubular flowers that bloom in late summer. Excellent for attracting hummingbirds and butterflies to your garden Common names include golden-beard and scarlet bugler.

ALSO CONSIDER



False sunflower
Heliopsis helianthoides Yellow wax bells
Kirengeshoma palmate

Fall phlox Phlox paniculata

ALSO CONSIDER

Witch-hazel
Hamamelis virginiana

Buttonbush
Cephalanthus occidentali

Running serviceberry*

Amelanchier stolonifera

(often sold as bugbane

Cimicifuga ramosa (aka

Actaea racemosa)

False sunflower
Heliopsis helianthoides

Carolina phlox Phlox carolina

GOOD choice - Plant is native to Ontario Plants that may or may not have

benefits to biodiversity FAIR choice - Non-native plant that is

Plants that promote biodiversity

BEST choice - Common native plant

* These plants found primarily at specialized native plant nurseries. See last panel for more information.

SUN & MOISTURE REQUIREMENTS



Partial sun/shade

Full sun







Moist conditions (high water)

Red maple Acer rubrum Moderate conditions (moderate water)



ALSO CONSIDER

Is there more that you can do?

- · Learn about invasive plants and report them
- Volunteer at events to help stop the spread of invasive plants
- Manage invasive plants on your property if they are at risk of spreading to natural areas
- Dispose of garden waste or plants properly (don't dump into natural areas)
- Encourage nurseries to label or remove invasive plants from sale
- Spread the word about invasive plants

The plants presented in this brochure are available at most commercial nurseries. When selecting these plants at your local nurseries, be sure to look for the scientific name, as many times common names can vary (e.g. Norway maple sometimes sold as Red maple). Also be aware of cultivars of native plants and avoid their use.

Additional Resources

CVC Invasive Species Website

Report an invasive species; view a larger list of invasive garden plants and alternatives; obtain a local native plant nursery list and other invasive species information: www.creditvalleyca.ca/invasives

CVC Volunteer events and workshops: www.creditvalleyca.ca/bulletin/events.htm

Ontario Invasive Plant Council

Information on invasive plants:

www.ontarioinvasiveplants.ca

Ontario Federation of Anglers and Hunters (OFAH) / Ministry of Natural Resources (MNR) Provincial Invading Species Program Invasive species information or to report:

www.invadingspecies.com

Native plant gardening and plant selection database: www.evergreen.ca/en/resources/native-plants

This brochure is published for gardening purposes ONLY and is not meant as a tool for restoration projects. Thank you to the Alberta Invasive Plants Council for permission to use the layout and concept of their "WEED WISE: Gardening in Alberta" brochure as the inspiration for this CVC product.



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Vinged euonymus onymus alatus

Woody shrub with opposite, finely toothed, lance-shaped leaves turning oright red in fall. Young stems green in colour. Distinct ridges/wings on the stem Spreads primarily by seed (birds). Seeds are distinct having a two-parted red fruit. Vhite/green flowers. Crowds out other plants and shrubs with its dense growth and rapid reproduction.

BEWARE: Often sold as 'burning bush'.



Aiscanthus. Eulalia

Aiscanthus sinensis and M. sacchariflorus

AVOID

Fall clumping grass with feathery flower heads. In late summer, flower heads turn eddish, then pinkish, then mature to a silvery colour. Leaf blades are 2.5 cm wide with a distinct midrib. Leaves turn yellow/tan in fall. Often escapes into wetlands and crowds out native wetland plants.

BEWARE: Often sold as maiden grass or feather grass.



Flowering rush Butomus umbellatus

Emergent aquatic plant with grass-like long leaves that are triangular in crosssection and corkscrew slightly at the tip Spreads by root fragments, bulbils and seed. Small pink flowers are in a bowl-like cluster on separate stalks. Escapes into wetlands where it crowds out native plants. Extremely difficult to control.



Herbaceous groundcover. Variegated white and green leaves that alternate along the stem. Established plants will often lose this variegation. Spreads primarily by roots, but also by seed. Small white flowers in a bowllike cluster on a single stalk. Spreads rapidly and densely choking out all other plants. Extremely difficult to control.



Periwinkle Vinca minor

GROUNDCOVER PLANTS TO TRY INSTEAD

GROUNDCOVER PLANTS TO AVOID

Distinctive herbaceous groundcover with opposite, bright green, shiny lanceshaped leaves. Spreads primarily by roots and has purple flowers with five petals. Grows in dense mats that choke out other plants. Difficult to control.



ledera helix

Herbaceous groundcover vine. Alternating leaves are three-lobed with lighter coloured veins against a dark green, glossy leaf. Spreads primarily through creeping roots and branches. Will grow in dense mats choking out native plants as well as growing vertically smothering out native shrubs and saplings.

TRY INSTEAD



★★★ Bush honeysuckle Diervilla lonicera

Compact deciduous shrub with green, lance-shaped leaves in whorls on reddish stems. Fragrant yellow flowers bloom in July/August. Great for dry or difficult sites.

★★★ Witch-hazel

arge deciduous shrub with large oval-

ragrant yellow flowers appear in late

September. A sturdy plant, good for mass

shaped leaves turning yellow in fall.

🖈 Japanese maple

Deciduous shrub with a dome-shaped

canopy and light green foliage (some cul-

tivars can be red-burgundy). Beautiful fall

colour ranging from orange to bright red.

Hamamelis virqiniana



★★ Switchgrass

Panicum virgatum

TRY INSTEAD

Clumping perennial grass with narrow green leaves turning yellow and red in fall. Flowers give way to reddish seed heads. Drought resistant. Beautiful border or screen plant

Perennial grass, green to silvery-blue (sum-

mer); red, orange and purple (fall). Red

or blue flowers bloom in July/September.

Drought-tolerant, Excellent screen plant.

* Karl Foerster feather

Upright clumping perennial grass with

green foliage and soft feathery plumes of white flowers blooming in June/July.

trast among low shrubs and perennials.

Drought resistant. Provides excellent con-



Andropogon gerardii

reed grass

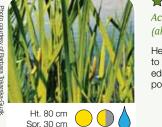
'Karl Foerster'

ALSO CONSIDER

Calamagrostis x acutiflora

Ht. 30 - 60 cm Spr. 40 cm







★★★ Blue flag*

Iris versicolor

Herbaceous perennial with slender green leaves and large blue flowers with yellow and white markings at the base of the petals. Flowers May to July. Does well in wet areas.

WARNING: Sap can cause dermatitis in sensitive individuals.

TRY INSTEAD

★★ Sweet flag grass

(aka Acorus americanus)

Herbaceous wetland perennial with green to yellow blades. Great for containers or edging, especially in wet areas or around ponds and streams.



Ht. 10 cm Spr. 30 cm

Clumping herbaceous perennial with coarse, bright green foliage, Upright spikes of scarlet-red flowers bloom in late summer. Attracts butterflies and hum-

★★ Cardinal flower

WARNING: Poisonous if ingested by humans or animals.

Lobelia cardinalis

Ht. 7 - 12 cm Spr. 30 cm

★★★ Wild ginger Asarum canadense

Herbaceous perennial with fleshy, heartshaped dark green leaves. Flowers dull green to purple-red. Easy to grow and spreads quickly to make an excellent ground cover in shady areas.



★★ Bearberry Arctostaphylos uva-ursi Low, woody evergreen shrub with small, thick, shiny leaves that turn bronze-red in the fall. Produces crowded, drooping clusters of white-pink flowers in May/June.



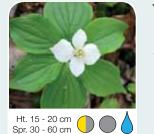
★ Barrenwort/ Fairy wings Epimedium species

Hardy herbaceous perennials that come

in a wide variety of colours and other characteristics to meet the needs of your garden. Heart or lance-shaped, reddish leaves that turn green as they mature. Some varieties have a spreading form, while others clump together in dense mounds. Flowers have four petals in colours ranging from white to purple.

★★★ Barren strawberry* Waldsteinia fragarioides

Low, spreading, herbaceous perennial with green, three-lobed leaves that turn bronze in the fall. Showy yellow flowers bloom in May/ June. Easy to grow.



★★ Bunchberry Cornus canadensis

Low, erect herbaceous perennial with four to six whorled leaves at the top of stem. Single white flower above the leaf whorl appears in late spring, followed by scarlet berries in the fall, attracting birds. Beautiful bronze-red fall colour. Requires rich soils.



Coral bells Heuchera micrantha

Herbaceous perennial with lobed leaves

that are quite variable in appearance due to a number of cultivated varieties. Leaves range from green to reddish-green to purple-green. Produces an erect stalk bearing many clusters of pink, white, or greenish flowers. Good for mass plantings.

ALSO CONSIDER



Canada buffaloberry* Shepherdia canadensis

Running serviceberry*

Amelanchier stolonifera

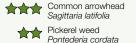
Mexican muhly*

Muhlenbergia mexicana Indian grass Sorghastrum nutans

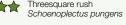
Ht. 1 - 1.5 m Spr. 60 - 80 cm

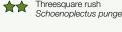
Blue oat grass Helictotrichon sempervirens

ALSO CONSIDER



Ht. 90 cm Spr. 60 cm





Threesquare rush Schoenoplectus pungens

GROUNDCOVER PLANTS TO ALSO CONSIDER



Green and gold

Chrysogonum virginianum

