

Plant This Not That

Native Alternatives to Invasive Plants

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WO West Michigan Shore-to-Prairie
<https://westmichiganshoretoprairie.wildones.org>

Bradford Pear or Callery pear *Pyrus calleryana*



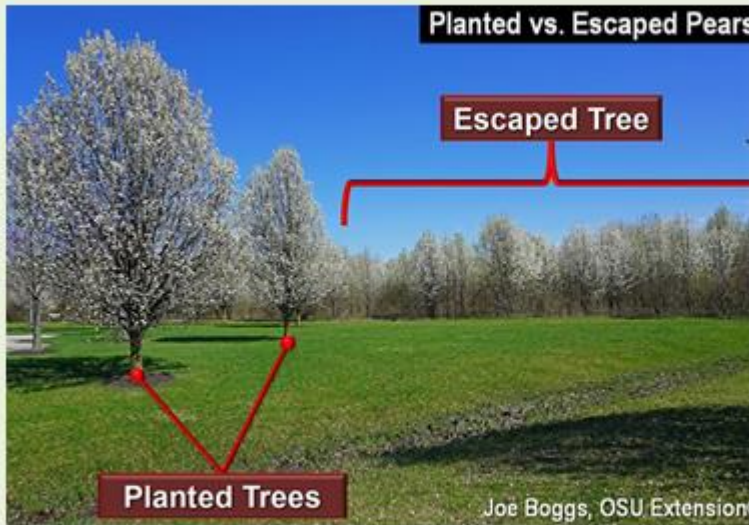
30 -50' tall

White flowers in Spring that have a foul smell

Structurally Weak

Banned in Ohio, Pennsylvania and S. Carolina

Produces plenty of seeds.



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Serviceberry *Amelanchier laevis*



Grows 15' to 25' tall
Multi trunk
Sun to Part Shade
Showy White Flowers in Spring
Berries in June
Great fall color
Birds love the Berries



Works well in the designed landscape but also when planted with other native trees and shrubs to increase wildlife support.



Beautiful Fall Color



Red Spotted Purple Butterfly



Striped Hairstreak Butterfly

Serviceberry species in general support 124 plus species of caterpillars. This species hosts the Red Spotted Purple Butterfly, Viceroy Butterfly, Striped Hairstreak Butterfly

Native Habitat of *Amelanchier laevis* are cool, rich woods; moist to drier thickets; swamp margins & clearings



Viceroy Butterfly

Redbud *Cercis canadensis*

Grow 20 to 30 feet tall

Sun to Part Shade

Blooms in April

Attracts birds, Hummingbirds & Butterflies

Larval Host to Henry's Elfin Butterfly



Tolerant of Deer, Clay Soil, Walnut Trees

Native Habitat: Woods, Stream Banks



Common Buckthorn *Rhamnus cathartica*

16 to 25 Feet Tall

Full Sun to Part Shade

Blooms April to June

Berries Deep Blue

Attracts Birds

Highly invasive forming dense thickets



First to leaf out

Last to drop their leaves



Recently propose by The Michigan Department of Agriculture and Rural Development (MDARD) to be added to Michigan's invasive species list along with Glossy buckthorn. Callery pear. Japanese barberry, Water hyacinth & Water lettuce.

Serviceberry *Amelanchier laevis*

Showy White Flowers in Spring



Grows 15' to 25' tall
Multi trunk
Sun to Part Shade

Great fall color



Berries in June

Highbush Cranberry *Viburnum opulus var. americanum*

6 to 12 foot tall shrub

Full sun to part shade

White lacecap flowers in April
thru June

Red Berries late summer

Fall color

Attracts birds Butterflies



Host plant for the Spring Azure Butterfly

Native habitat swampy woods, bogs, lake margins.



Ninebark *Physocarpus opulifolius*



3 to 9 foot tall shrub

Full sun to part shade

Soils - clay and loam

White flowers in May to June

Fall color coppery orange

Birds use the strips of bark from the stems as nesting material!

Special value to native bees

Ninebark is the larval host to at least 10 different species of moths. It supports a high diversity of insects, making it a valuable addition to the landscape



Buttonbush

Cephalanthus occidentalis



Grows 6 to 12 feet tall

Part shade to shade

White Flowers blooms June thru September

Multi season interest



Native Habitat swamps, around ponds and margins of streams



Norway Maple *Acer platanoides*



40 to 50 feet tall and wide
Full sun to part shade
Grows in wide range of soils clay, sand, acid & alkaline soils
Tolerant of Drought, & Urban Conditions
Produces large quantity of seeds



Reported invasive in CT, DC, DE, IL, IN, MA, MD, ME, MI, NH, NJ, NY, OR, PA, TN, VA, VT, WI, and WV

Sugar Maple *Acer saccharum*

40 to 80 feet tall

Full sun to part shade

Super fall color

Great nesting site for birds

Seeds are an important food source for many birds

Not salt tolerant



Larval host to the Rosy Maple Moth (*Dryocampa rubicunda*)



Native Habitat is in moist bottomlands; rich, wooded slopes

Burning Bush *Euonymus alatus*

15 to 20 feet tall

Full sun to p. shade

Seed attractive to birds

Vivid red fall color



No nutritional
value to wildlife



Escaped into the forest

Virginia sweetspire *Itea virginica*

3 to 5 feet tall

Blooms June to July

White flowers

Full sun to p. shade

Medium to wet soil

Good fall color

High nectar value to many
moths, butterflies
hummingbirds

Host plant for



Spring Azure Butterfly



Native to Illinois and Indiana

Highbush blueberry *Vaccinium corymbosum*

15' tall but usually shorter
Sun to p. shade
Wet to dry, acid, rocky soils
Attracts 30 species of birds
A vital native larval host plant to over 200 species of butterflies and moths.
Native Habitat: Swamps; bogs; dry barrens; oak woods.



Brown Eftin



Henry's Eftin



Spring Azure



Red Spotted Purple

Japanese barberry *Berberis thunbergii*

3 to 6 feet tall
Blooms in April
Full sun to p. shade
Red fruit
Dry to medium soils
Winter interest
Deer resistant
Birds eat fruits and disperse seeds
This plant is very invasive and alternatives should be used to replace it



Home of the Black Legged Tick
transmits Lyme Disease



Main carrier of Lyme Disease



Japanese Barberry Invasion

Red Twig Dogwood *Cornus serica*



6 to 12 feet tall

Full sun to p. shade

Blooms from May to June

Deer Resistant

Native habitat: River banks; lake shores; wooded or open, wet areas



Summer Azure



Spring Azure

Larval Host: Spring Azure & Summer Azure butterflies and many moths.



Fall and Winter Color



New Jersey Tea *Ceanothus americanus*

Grows to 3 feet tall
Rounded shape
Sun to light shade
White flowers
Blooms May to July
Attracts hummingbirds & butterflies
Extremely adaptable species
Tolerant of drought, dry soil, shallow-
rocky soil, & black walnut
Deer resistant



Summer Azure



Spring Azure



Mottled Duskywing

New Jersey Tea



Fall Color

Bush Honeysuckle *Lonicera spp.*

6 to 15 feet tall

Flowers May thru June

Sun to part shade

Fast growing

Thrives in disturbed areas, forest edges, and roadsides



The roots, fruits, and leaves of bush honeysuckle contain chemical compounds that inhibit seed germination

Got Honeysuckle?



Get Rid of It!

Arrowwood viburnum *Viburnum dentatum*

Grows 6 feet tall
Full sun to p. shade
Has white blooms from May to June
Dark blue berries attract songbirds
moist woods
Good fall color
Tolerates clay soil, black walnut
Native habitat are stream banks

Special value to Native Bees

Larval Host: Spring Azure & several moths



Hummingbird Clearwing Moth

Northern Spicebush *Linera benzoin*

6 to 15 feet tall
 6 to 15 foot spread
 Best in part shade
 Flowers of pale yellow in April to May
 Deer resistant
 Native Habitat Low, deciduous woods;
 stream banks; swamps



Fall color

Larval Host



Spicebush Swallowtail



Eastern Tiger Swallowtail



Promethea silkmoth

Butterfly bush *Buddleia davidii*



6 to 12 foot tall

Blooms June thru September

Many shades of purple, pink & white

Fragrant

Full sun

Attracts hummingbirds & butterflies

Native Range: China, Japan



Swamp milkweed *Asclepias incarnata*

3 to 4 feet tall
Blooms from July to August
Color mauve or pink
Full sun to light shade
Native Habitat: wet meadow, prairie,
swamp, marsh
Attracts butterflies, hummingbirds,
and native bees
Deer don't like it

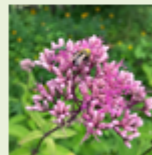


Host plant for
Monarch caterpillars



Joe Pye Weed *Eutrochium purpureum*

Grows to 7 feet tall
Full sun to light shade
Blooms July thru September
Flowers are a dusty purple
Attracts bees, butterflies, and wasps
Native Habitat moist prairies; wood edges
Tolerates deer, clay soil, wet soil



Special Value to Native Bees Recognized by pollination ecologists as
attracting large numbers of native bees. The Xerces Society

Woodland Forget Me Not *Myosotis sylvatica*



Picture Rocks Nat'l Lakeshore



Grows 6 to 12 inches tall

Full sun to p. shade

Blooms in April to May

Flowers Blue with yellow eyes

Native Range: Europe

Woodland Forget Me Not is on the Michigan invasive species watch list and is prohibited from being sold, possessed, or imported

Spring Beauty *Claytonia virginica*

Grows to 1.5 to 9 inches

Blooms April thru May

Full sun to p. shade

White to pink

Spring ephemeral



Spring Beauty Mining Bee

Common Blue Violet *Viola sororia*

Grows 6 to 9 inches
Blooms April to August
Sun to p. shade
Purple sometimes white
Attracts butterflies
Deer resistant tolerates clay soil
and black walnut



Great Spangled Fritillary



Variiegated Fritillary

Woodland Phlox *Phlox divaricata*

Grows 9 to 12 inches - 15" when in
flower

Part shade to shade

Blooms April to May

Flowers are a rose/lavender

Will grow in clay soil and occasional
drought

Attracts hummingbirds and butterflies

Deer resistant?



Native Habitat: Moist, rich, deciduous woods

Purple Loosestrife *Lythrum salicaria*



Introduced in the early 1800's

2 to 4 feet tall
Blooms May to September
Magenta flowers
Grows in a wide range of conditions
Highly invasive



Do Not Plant



Blue Vervain *Verbena hastata*

Up to 4 feet tall

Bloom June to September

Flowers purplish blue

Sun

Soil moist, wet

Attracts butterflies, birds, and bees



Common Buckeye



Native Habitat: Moist prairies; damp thickets.

Swamp milkweed *Asclepias incarnata*

Grows 3 to 4 feet tall
Blooms July to August
Color mauve or pink
Full Sun to light shade



Attracts butterflies,
hummingbirds, and native bees

Native Habitat: Wet Meadow,
Prairie, Field, Riparian,
Swamp, Marsh.

Deer don't like it

Joe Pye Weed *Eutrochium purpureum*



Grows to 7 feet tall

Full sun to light shade

Blooms July thru
September

Flowers are a dusty purple

Attracts bees, butterflies,
and wasps

Native Habitat: moist
prairies, wood edges

Dense Blazing Star *Liatris spicata*



Grows to 2 to 6 feet tall

Full sun

Flowers are red- purple

Blooms July thru August

Attracts Birds, Hummingbirds

Special value to bumble bees

Good choice for Rain gardens



Host plant of the Blazing
Star Clearwing Moth

Native Habitat moist, wood openings; mesic prairies; marsh edges

Bishops Weed , Snow-on-the-Mountain or Goutweed *Aegopodium podagraria*

Grows 5 to 12 inches tall

Sun to p. shade

Blooms in May to June

Flowers are white

Can grow in dry to
medium soil

Invasive



Periwinkle or Myrtle *Vinca minor*



Grows 3 to 6 inches

Blooms May to June

Full sun to p shade

Flowers are a violet blue



First introduced into N. America in the 1700s

Considered invasive in Michigan

English Ivy *Hedera helix*

Native Range: Europe, Scandinavia, Russia
Ground cover 6 to 9" tall & spreads 50 to 100 feet
Climbing vine grows 50 to 100 feet
Part shade to shade
Evergreen



This plant has been confirmed as a reservoir for bacterial leaf scorch (*Xylella fastidiosa*), which affects a wide variety of trees such as Oaks, Maples, & Sycamores.



Pachysandra terminalis **Japanese Spurge**

Native Range: Japan, north-central China

Grows 6 to 12 inches

Part shade to shade

Evergreen



This tenacious species ability to thrive, in even difficult conditions, allows Japanese pachysandra to outcompete native species for crucial resources such as nutrients and light.

Allegheny Spurge, **Pachysandra procumbens**

Grows 6 to 12 inches

Part shade to shade

Blooms in early spring

White flowers



Rarely bothered by deer

Heartleaf Foamflower *Tiarella cordifolia*

Grows to 6in in flower 16"

Blooms in spring

White flowers with a bit of pink

Part shade to shade

Deer and rabbit resistant

An excellent groundcover for shady wooded gardens.



Virginia Creeper *Parthenocissus quinquefolia* Woodbine *P. inserta*

P. inserta groundcover

P. quinquefolia climber

Both grow in full sun to shade

Bloom June to July

Grow to approximately 70 feet

Tolerates clay soil, drought, & black walnut

Deer resistant

Larval host to several Sphinx Moths species

The berries are toxic to humans so it should not be planted where children play.



Wild Ginger *Asarum canadense*

Grows 4 to 12 inches

Blooms in early spring

Part Shade to shade

Flowers are purplish brown

Deer resistant? Not in my yard



Native Habitat Moist Woodlands



Rare
Pipevine swallowtail



Michigan Invasive Species

www.michigan.gov/invasives/id-report/plants

West Michigan Cooperative Invasive Species Management Area (CISMA)

<https://www.michiganinvasives.org/westmichiganconservation/>

PLANT INFORMATION RESOURCES

Minnesota Wildflower

www.minnesotawildflowers.info

Missouri Botanical Garden

www.missouribotanicalgarden.org/plantfinder/plantfindersearch.aspx

Lady Bird Johnson Wildflower Center

www.wildflower.org/

Audubon Native Plant Database (best plants for birds)

www.audubon.org/native-plants